

We gratefully acknowledge the following Authors from the Originating laboratories responsible for obtaining the specimens, as well as the Submitting laboratories where the genome data were generated and shared via GISAID, on which this research is based.

All Submitters of data may be contacted directly via www.gisaid.org

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EPI_ISL_471553		Health	**************************************
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EPI_ISL_471555	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy, A; Jirincova, H; Novakova, L; Trnka, D; Vecerova, J
EPI_ISL_471556	Pronto Socorro Jose Ibrahin	Instituto Adolfo Lutz, Interdiciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471562, EPI_ISL_471581, EPI_ISL_471582	Hosp. Municipal Prof. Dr. Alípio Corrêa Netto	Instituto Adolfo Lutz, Interdiciplinary Procedures Center, Strategic Laboratory	Claudio Tavares Sacchi, Claudia Regina Gonçalves, Erica Valessa Ramos Gomes
EPI_ISL_471583, EPI_ISL_471584	King Institute of Preventive Medicine & Research	CSIR-Centre for Cellular and Molecular Biology	K.Kaveri,S.Sivasubramanian,S.Vennila,P. Padmapriya,R.Kiruba,S.Magesh,G. Dhinakar Raj, G. Ravikumar, P. Azhahianambi,K Thangaraj,Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471585	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Payel Mukherjee, Sofia Banu, Priya Singh, Santosh Kumar Kuncha, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati, Krishnan Harinivas Harshan
EPI_ISL_471586	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471587	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Payel Mukherjee, Sofia Banu, Priya Singh, Santosh Kumar Kuncha, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati, Krishnan Harinivas Harshan
EPI_ISL_471588	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayyana, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471589	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471590	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471591	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	naisiani, Aichiara bialadwaj awa, kadini bialadwaj ranjaka, Zeba Rizvi, Zuberwasini Sayyao, kakade Aishwarya Yauli, Airibulari C., Ailaing Gilozi, kakesi K misina, birya lej sungad Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Diviya Qedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471592	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	narsinal, Alichard diadawaj swa, kalim birdauwaj raingaka, Zeuda kuzi, Zuberwasin Sayya, kakaue kasimanya duli, Amidular I.C, Alianga Gilozir, kakesi K misina, Diyya lej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Nikhil Hajimis, Patheusa Maccha, M Soujanya Reddy,G. Aditya Kumar, Koushick Sivakumar, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471593	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471594	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Alshwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Puruschotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati

EPI_ISL_471595	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471596	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
EPI_ISL_471597	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Gokulan C G, Gunjan Purohit, Hanuman Tulashiram Kale, Pankaj Kumar, Prachand Issarapu, Rakesh K Mishra, Divya Tej Sowpati Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
EPI_ISL_471598	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Sonu Uday, Sudipta Mondal, Annapoorna P Karthyayani, Debabrata Jana, Debrya Saha, Divya Tej Sowpati Payel Mukherjee, Sofia Banu, Priya Singh, Diviya Gupta, Vishal Sah, Santosh kumar Kuncha, Krishnan Harrinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapkas, Shagutta Khan, Lamuk Zaveri, Namami
EPI_ISL_471599	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Namada Arabas, Bhasadhai Siu, Kathiki Bhasadhai Singhai Kunasa, Payel Bungad Vijangabahdai Vijangabahdai Singhai Santhi Bhasadhai Siu, Kathiki Bhasadhai Singhai Kunasa, Payel Bungad Vijangabahdai Singhai Santhi Bhasadhai Singhai Santhi Bhasadhai Singhai Kunasa, Payel Bungad Vijangabahdai Singhai Santhi Bhasadhai Singhai Santhi Bhasadhai Singhai Kunasa
EPI_ISL_471600	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471601	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471602	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Nikhil Hajirnis, Pratheusa Maccha, M Soujanya Reddy, G. Aditya Kumar, Koushick Sivakumar, Rakesh K Mishra, Divya Tej Sowpati Sakshi Shambhavi, Lamuk Zaveri, Shagutfa Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Nikhil Hajirnis, Pratheusa Maccha, M Soujanya Reddy, G. Aditya Kumar, Koushick Sivakumar,Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rawi Prasad Mukku,
EPI_ISL_471603	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Rakesh K Mishra, Divya Tej Sowpati Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471604	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Rakesh K Mishra, Divya Tej Sowpati Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kruncha, Krishnan Harinivas
EPI_ISL_471605	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayyana, Rakesh K Mishra, Divya Tej Sowpati Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Preethi Jampala, Sharada Ravi Iyer, Sulaqana Mukherjee, Swetha Sundar, Peddapuvala Sai Uday Kiran Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_471606	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471607	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
EPI_ISL_471608	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
EPI_ISL_471609	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhivja Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harrinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutha Khan, Lamuk Zaveri, Namami
EPI_ISL_471610	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Gokulan C G, Gunjan Purohit, Hanuman Tulashiram Kale, Pankaj Kumar, Prachand Issarapu, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutta Khan, Lamuk Zaveri, Namami
EPI_ISL_471611	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala,Preethi Jampala, Sharada Ravi Iyer, Sulagana Mukherjee, Swetha Sundar, Peddapuvala Sai Uday Kiran, Rakesh K Mishra, Divya Tej Sowpati Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471612	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471613	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471614	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471615	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471616	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471617	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayyana, Rakesh K Mishra, Divya Tej Sowpati Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471618	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Umesh Kumar, Unis Ahmad Bhat, Ajay Sarawagi, Priyanka Pant, Rajkanwar Nathawat, Rakesh K Mishra, Divya Tej Sowpati Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471619	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471620	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471621	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Nikhil Hajirnis, Pratheusa Maccha, M Soujanya Reddy, G. Aditya Kumar, Koushick Sivakumar, Rakesh K Mishra, Divya Tej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
EPI_ISL_471622	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas
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EPI_ISL_471636	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
EPI_ISL_471637	CSIR-Centre for Cellular and Molecular Biology	CSIR-Centre for Cellular and Molecular Biology	Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Ravi Prasad Mukku, Rakesh K Mishra, Divya Tej Sowpati Sofia Banu, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami
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EPI ISL 473344, EPI ISL 473347, EPI ISL 473347, EPI ISL 473348, EPI ISL 473349, EPI ISL 473349, EPI ISL 473357, EPI ISL 473374, EPI ISL 473376, EPI ISL 473379, EPI ISL 473379, EPI ISL 473379, EPI ISL 473369, EPI ISL 473369, EPI ISL 473379, EPI ISL 473379 EPI SL 473382, EPI SL 473383, EPI SL 473383, EPI SL 473385, EPI SL 473386, EPI SL 473436, EPI SL 473427, EPI SL 47347, EPI

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EPI ISL 473454, EPI ISL 473455, EPI ISL 473455, EPI ISL 473455, EPI ISL 473469, EPI ISL 473469, EPI ISL 473466, EPI ISL 473496, EPI ISL 473496, EPI ISL 473496, EPI ISL 473498, EPI ISL 473498, EPI ISL 473499, EPI ISL 473499, EPI ISL 473499, EPI ISL 473500, EPI ISL 473503, EPI ISL 473504, EPI ISL 473504, EPI ISL 473507

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EPI ISL 473783, EPI ISL 473784, EPI ISL 473784, EPI ISL 473785, EPI ISL 473785, EPI ISL 473786, EPI ISL 473786, EPI ISL 473786, EPI ISL 473806, EPI ISL 473806, EPI ISL 473806, EPI ISL 473807, EPI ISL 473807, EPI ISL 473797, EPI ISL 473807, EPI ISL 473807, EPI ISL 473808, EPI ISL 473817, EPI ISL 473817 EP ISL 473836, EP ISL 47386, EP I EPI ISL 473892, EPI ISL 473893, EPI ISL 473893, EPI ISL 473894, EPI ISL 473895, EPI ISL 473905, EPI ISL 473907, EPI ISL 473907 EPI ISL 473916, EPI ISL 473917, EPI ISL 473917, EPI ISL 473918, EPI ISL 473918, EPI ISL 473919, EPI ISL 473920, EPI ISL 473920, EPI ISL 473922, EPI ISL 473923, EPI ISL 473924, EPI ISL 473924, EPI ISL 473927, EPI ISL 473928, EPI ISL 473928 EPI ISL 473948, EPI ISL 473949, EPI ISL 473952, EPI ISL 473953, EPI ISL 473954

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EPI ISL 473958, EPI ISL 473959, EPI ISL 473959, EPI ISL 473960, EPI ISL 473990, EPI ISL 473960, EPI ISL 473960, EPI ISL 473960, EPI ISL 473990, EPI ISL 473990 EPI ISL 474000, EPI ISL 474001, EPI ISL 474001, EPI ISL 474005, EPI ISL 474005 EPI ISL 474058, EPI ISL 474059, EPI ISL 474059, EPI ISL 474060, EPI ISL 474060, EPI ISL 474066, EPI ISL 474067, EPI ISL 474067, EPI ISL 474077, EPI ISL 474078, EPI ISL 474077, EPI ISL 47407, EPI ISL 474077, EPI ISL 47407, EPI ISL 474 EPI ISL 474104, EPI ISL 474105, EPI ISL 474105, EPI ISL 474110, EPI ISL 474110, EPI ISL 474112, EPI ISL 474113, EPI ISL 474113, EPI ISL 474113, EPI ISL 474124, EPI ISL 474124, EPI ISL 474115, EPI ISL 474115, EPI ISL 474115, EPI ISL 474125, EPI ISL 474126, EPI ISL 474127, EPI ISL 474116, EPI ISL 474117, EPI ISL 474118, EPI ISL 474127, EPI ISL 474118, EPI ISL 474118 EPÎ ISL 474202, EPÎ ISL 474202, EPÎ ISL 474202, EPÎ ISL 474203, EPÎ ISL 474203, EPÎ ISL 474205, EPÎ ISL 474205, EPÎ ISL 474212, EPÎ ISL 474212, EPÎ ISL 474213, EPÎ ISL 474214, EPÎ ISL 474213, EPÎ ISL 474214, EPÎ ISL 474214, EPÎ ISL 474353, EPÎ ISL 474353, EPÎ ISL 474353, EPÎ ISL 474343, EPÎ ISL 474353, EPÎ ISL 474353 EPI ISL 474588, EPI ISL 474592, EPI ISL 474600, EPI ISL 474607, EPI ISL 474607, EPI ISL 474661, EPI ISL 474657, EPI ISL 474660, EPI ISL 474677, EPI ISL 474682, EPI ISL 474699, EPI ISL 474768, EPI ISL 474768, EPI ISL 474661, EPI ISL 474661

COVID-19 Genomics UK (COG-UK) Consortium Catherine Moore, Johnathan Evans, Laura Gifford, Malorie Perry, Simon Cottrell, Angela Marchbank, Alec Birchley, Alexander Adams, Amy Gaskin, Bree Gatica-Wilcox, Jason Coombes, Joel Southgate, Lauren Gilbert, Lee Graham, Nicole see above Originating lab: Wales Specialist Virology Centre Sequencing lab: Pathogen Genomics Unit Pacchiarini, Sara Kumziene-Summerhayes, Sarah Taylor, Sophie Jones, Sara Rey, Matthew Bull, Joanne Watkins, Sally Corden, Tom Conno

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EPI_ISL_474798, EPI_ISL_474801, EPI_I EPI_ISL_474828, EPI_ISL_474830, EPI_I		305, EPI_ISL_474806, EPI_ISL_474807, EPI_ISL_474808, EPI_ISL_474	309, EPI_ISL_474810, EPI_ISL_474811, EPI_ISL_474812, EPI_ISL_474813, EPI_ISL_474815, EPI_ISL_474816, EPI_ISL_474818, EPI_ISL_474819, EPI_ISL_474822, EPI_ISL_474823, EPI_ISL_474824, EPI_ISL_474825, EPI_ISL_474826, EPI_ISL_474827, EPI_ISL_474818, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474823, EPI_ISL_474824, EPI_ISL_474825, EPI_ISL_474826, EPI_ISL_474827, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474829, EPI_ISL_474824, EPI_ISL_474825, EPI_ISL_474826, EPI_ISL_474827, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474819, EPI_ISL_474829, EPI_ISL_4
see above	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SegCOVID-SPAIN consortium
EPI_ISL_474832, EPI_ISL_474833, EPI_ISL_474834, EPI_ISL_474836	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474837, EPI_ISL_474838	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SegCOVID-SPAIN consortium
EPI_ISL_474841, EPI_ISL_474842,	Hospital Universitario Virgen de las Nieves de	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium

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EPI_ISL_474887, EPI_ISL_474888

EPI_ISL_474850, EPI_ISL_474851, EPI_ISL_474852	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474853	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
	SL 474856, EPI ISL 474857, EPI ISL 474859, EPI ISL 474 SL 474891, EPI ISL 474892, EPI ISL 474894, EPI ISL 474		EPI_ISL_474869, EPI_ISL_474870, EPI_ISL_474871, EPI_ISL_474872, EPI_ISL_474873, EPI_ISL_474874, EPI_ISL_474875, EPI_ISL_474876, EPI_ISL_474879, EPI_ISL_474881, EPI_ISL_474883, EPI_ISL_474886, EPI_ISL_474876, EPI_ISL_474879, EPI_ISL_474881, EPI_ISL_474883, EPI_ISL_474886, EPI_ISL_474876, EPI_ISL_474879, EPI_ISL_474881, EPI_ISL_474883, EPI_ISL_474886, EPI_ISL_474879, EPI_ISL_474879, EPI_ISL_474881, EPI_ISL_474883, EPI_ISL_474886, EPI_ISL_474879, EPI_ISL_474879, EPI_ISL_474881, EPI_ISL_474883, EPI_ISL_474886, EPI_ISL_474879, EPI_ISL_474879
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EPI_ISL_474903, EPI_ISL_474904	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474908, EPI_ISL_474909	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474910, EPI_ISL_474911, EPI_ISL_474912, EPI_ISL_474913, EPI_ISL_474914, EPI_ISL_474915, EPI_ISL_474916, EPI_ISL_474917	Hospital Universitario de Gran Canaria Dr. Negrín	SeqCOVID-SPAIN consortium/IBV(CSIC)	M. Carmen Pérez González, Francisco J. Chamizo López, Ana Bordes Benítez and SeqCOVID-SPAIN consortium
EPI_ISL_474919	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca , Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474920	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474921	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474922, EPI_ISL_474927, EPI_ISL_474928, EPI_ISL_474930	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474933	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca , Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474934, EPI_ISL_474935, EPI_ISL_474936, EPI_ISL_474939	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474940	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca, Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474943, EPI_ISL_474944	Hospital Universitario Virgen de las Nieves de Granada-SAS	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium
EPI_ISL_474946, EPI_ISL_474947	Complejo Hospitalario Universitario de Albacete	SeqCOVID-SPAIN consortium/IBV(CSIC)	Encarnacion Simarro Córdoba, Julia Lozano Serra, Lorena Robles Fonseca , Monica Parra Grandes, Caridad Sainz de Baranda Camino and SeqCOVID-SPAIN consortium
EPI_ISL_474948, EPI_ISL_474949,	Hospital Universitario Virgen de las Nieves de	SeqCOVID-SPAIN consortium/IBV(CSIC)	Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SeqCOVID-SPAIN consortium

EPI_ISL_474950 Granada-SAS

Israel Central Virology laboratory

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EPI ISL 474954, EPI ISL 474955. EPI ISL 474956

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I_ISL_475060, EPI_ISL_475062, I_ISL_475067, EPI_ISL_475069, EPI_ISL_475070	Lab voor klinische biologie	Onderzoeksgroep Virologie
I_ISL_475071, EPI_ISL_475072, I_ISL_475073, EPI_ISL_475074, I_ISL_475076, EPI_ISL_475077, EPI_ISL_475082	Lab voor klinische biologie	Onderzoeksgroep Virologie
I_ISL_475083, EPI_ISL_475084	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR
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ISL_475088, EPI_ISL_475089, ISL_475090, EPI_ISL_475091		
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 I_ISL_475096, EPI_ISL_475097, EPI_ISL_475098	Halmstad klinisk mikrobiologi	The Public Health Agency of Sweden
EPI_ISL_475099	Skovde/Unilabs	The Public Health Agency of Sweden
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I_ISL_475101, EPI_ISL_475102, I_ISL_475103, EPI_ISL_475104	Klinisk Mikrobiologi	The Public Health Agency of Sweden
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ISL_475128, EPI_ISL_475129, ISL_475130, EPI_ISL_475131, ISL_475132, EPI_ISL_475133, ISL_475134, EPI_ISL_475135	Orebro klinisk mikrobiologi	The Public Health Agency of Sweden
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I_ISL_475160, EPI_ISL_475161, I_ISL_475162, EPI_ISL_475163	Klinisk mikrobiologi Vasternorrland	The Public Health Agency of Sweden
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Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell

Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Oloy Syartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell

Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell

Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell Shahina Akter, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Tanjing Akhter Banu, Abu Saveed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md, Abasan Habib, Shahina Akter, Md, Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md, Saddam Hossain, Tasnim Nafisa, Md,

Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Barna Goswami, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.

Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan

EPI ISL 475168 National Institute of Laboratory Medicine and Genomic Research Lab. BCSIR Iffat Jahan, Abu Saveed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md, Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md, Murshed Hasan Sarkar, Barna Goswami, Md, Saddam Hossain, Tasnim Nafisa, Md, Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khar National Institute of Laboratory Medicine and Genomic Research Lab. BCSIR Md, Saddam Hossain, Abu Saveed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md, Ahasan Habib, Shahina Akter, Taniina Akhter Banu, Md, Murshed Hasan Sarkar, Barna Goswami, Iffat lahan, Tasnim Nafisa, Md,

EPI_ISL_475169 Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khar Referral Center

EPI_ISL_475170, EPI_ISL_475171, National Institute of Laboratory Medicine and Genomic Research Lab, BCSIR Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. EPI ISL 475172, EPI ISL 475173 Referral Center Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan

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Nebraska Public Health Laboratory UNMC COVID-19 Response Team UNMC COVID-19 Response Team see above FPI ISI 475238 National Institute of Laboratory Medicine and Genomic Research Lab RCSIR Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Bayzid Bin Monir, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utoal Chandra Ray, Salek Ahmed Saiib, Md. Salim Khan Referral Center

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Centre for Enzyme Innovation, University of COVID-19 Genomics UK (COG-UK) Consortium Angela Beckett, Yann Bourgeois, Garry Scarlett, Sharon Glaysher, Scott Elliott, Kelly Bicknell, Robert Impey, Allyson Lloyd, Sarah Wyllie, Ethan Butcher, Anoop Chauhan, Samuel Robson

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see above	Virology Department, Sheffield Teaching Hospitals NHS Foundation Trust/Department of Infection, Immunity and Cardiovascular Disease, The Medical School, University of Sheffield	COVID-19 Genomics UK (COG-UK) Consortium	Thushan de Silva, Matthew Parker, Nikki Smith, Adri Angyal, Rebecca Brown, Luke Green, Rachel Tucker, Paul Parsons, Danielle Groves, Katie Johnson, Laura Carrilero, Alex Keeley, Dave Partridge, Matthew Wyles, Benjamin Lindsey, Mehmet Yavuz, Mohammad Raza, Cariad Evans
EPI_ISL_475511	Orestadsklinikens VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475512	Din Klinik	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475513	Huddinge VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475514	Uppsala Narakut Aleris	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475515	Lakargruppen	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475516, EPI_ISL_475517	Uppsala Narakut Aleris	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475518	Trollbackens VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475519	Orsa VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475520	Vardcentralen Brinken	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475521	Ulltuna Vardcentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475522, EPI_ISL_475523	Huddinge VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475524	Narhalsan Sjobo vardcentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475525	Huddinge VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475526, EPI_ISL_475527	Uppsala Narakut Aleris	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475528	Omtanken Grimmered	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475529, EPI_ISL_475530, EPI_ISL_475531, EPI_ISL_475532	Kungsors VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475533, EPI_ISL_475534, EPI_ISL_475535	Omtanken Grimmered	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475536	Follinge Halsocentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475537	Narhalsan Oden VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475538	Omtanken Grimmered	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475539	Narhalsan Sjobo vardcentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475540	Bla Kustens halsocentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475541	Follinge Halsocentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475542	Kungsholmsdoktorn	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475543	Surbrunns VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475544, EPI_ISL_475545, EPI_ISL_475546, EPI_ISL_475547	Karolinska Universitetslaboratoriet	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475548	Halmstad klinisk mikrobiologi	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475549, EPI_ISL_475550	Skovde/Unilabs	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475551, EPI_ISL_475552	Karolinska Universitetslaboratoriet Halmstad klinisk mikrobiologi	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475553	Skovde/Unilabs	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475554, EPI_ISL_475555 EPI_ISL_475556, EPI_ISL_475557	Halmstad klinisk mikrobiologi	The Public Health Agency of Sweden The Public Health Agency of Sweden	Oskar Karlsson Lindgjo, Maria Linu Karlberg, Mautsh adukanio, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Brüddesson, Shaman Muradrasoli, Alina Risberg, Karin Tegmirak-Wisell Oskar Karlsson Lindgjo, Maria Linu Karlberg, Mautsh abukanda, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475558, EPI_ISL_475560, EPI_ISL_475561	Karolinska Universitetslaboratoriet	The Public Health Agency of Sweden	Oskar Karlsson, Lindsjo, mana Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Shaman Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475562, EPI_ISL_475563	Din Klinik	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI ISL 475564	Surbrunns VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475566	Vardcentralen Brinken	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475567	Huddinge VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475568	Kungsors VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475569	Kungsholmsdoktorn	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_475570	Genome Center	Genome Center	A. S. M. Rubayet- Ul- Alam, Ovinu Kibria Islam, Md. Shazid Hasan, Hassan M. Al-Emran, Shireen Nigar, Selina Akter, Pravas Chandra Roy, Md. Tanvir Islam, Shovon Lal Sarkar, M. Shaminur Rahman, M. Rafiul Islam, Habiba Ibnat, Md Nur Kabidul Azam, Chakrabortty Atonu, Proshanto Kumar Das, Md. Hasan al Pramanik, Md. Zannat Ali, Shohanur Rahaman, Md. Aminul Islam, Ashok Kumar, Md. Nazmul Hasan, Md. Iqbal Kabir Jahid, Md. Anwar Hossain
EPI_ISL_475571	Genome Center	Genome Center	Hassan M. Al-Emran, Md. Shazid Hasan, Ovinu Kibria Islam, A. S. M. Rubayet- Ul- Alam, Pravas Chandra Roy, Selina Akter, Shireen Nigar, Shovon Lal Sarkar, Md. Tanvir Islam, Mithun Talukder Md. Tawyabur, Md. Taijul Islam, Provakar Mondol, Md. Muzahidul Islam, Md. Iqbal Kabir Jahid Md. Anwar Hossain
EPI_ISL_475572	Imperial College London	Imperial College London	Jie Zhou, Wendy Barclay
EPI_ISL_475573	Genome Center	Genome Center	Md. Shazid Hasan, Hassan M. Al-Emran, Ovinu Kibria Islam, A. S. M. Rubayet- Ul- Alam, Selina Akter, Shireen Nigar, Md. Tanvir Islam, Pravas Chandra Roy, Shovon Lal Sarkar, Md. Nazmul Hasan, Tanay Chakrovarty, Md. Ali Ahasan Setu, Sourav Dutta, Ruhul Amin, Md. Iqbal Kabir Jahid, Md. Anwar Hossain

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Cedars-Sinai Medical Center, Department of Cedars-Sinai Medical Center, Molecular Pathology Laboratory of see above Pathology & Laboratory Medicine, Molecular Department of Pathology & Laboratory Medicine and Genomic Core

Pathology Laboratory

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Wenjuan Zhang, John Paul Govindayari, Brian Davis, Stephanie Chen, Jong Taek Kim, Jianbo Song, Jean Lopategui, Jasmine T Plummer, Eric Vail

EPI_ISL_475721			
EPI_ISL_475723, EPI_ISL_475724	unknown	Cancer Biology Department	Zekri, A. N., Amer, K. E., Ahmed, O. S., Soliman, H. K., Hafez, M. M., Bahnassy, A. A., Abdelhamid, W., Khattab, A., Ali, M., Hassan, W., Samir, M., Raouf, A., Hamdy, M. S., Soliman, M. S., Elsissy, M. H., Elkhateeb, S. M., Ezzelarab, M. H., Abouelhoda, M.
EPI_ISL_475726, EPI_ISL_475727,	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin Young, Kelly Oakeson
EPI_ISL_475728, EPI_ISL_475730, EPI_ISL_475743	,	,	
EPI ISL 475745, EPI ISL 475746, EPI ISL 475747, EPI ISL 475748, EPI ISL 475749, EPI ISL 475751, EPI ISL 475752, EPI ISL 475753	Medical Ain Shams Research Institute (MASRI), Ain Shams University	Medical Ain Shams Research Institute (MASRI), Ain Shams University	Hesham Elghazaly , Sara Hassan Agwa, Mahmoud Elmeteini , Ahmad Moustafa , Ashraf Omar, Osama Mansour, Samia Abdo, Hala Hafez, Ghada Ismael , Shaimaa Moustafa , Aya Mohamed, Reham Mamdouh , Hoda Abd Elsatar, Manal Hamdy Elsaid, Fatma Ebied
EPI_ISL_475754	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Shahina Akter, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475755	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475756	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Tanjina Akhter Banu, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475757	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Barna Goswami, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475758	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	lffat Jahan, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475759	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Saddam Hossain, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475760, EPI_ISL_475761	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Arifa Akram, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_475762	Oklahoma State Department of Health	França Lab	Caio Martinelle B. de França, Graham Wiley, Samuel T. Dunn, and Matthew J. Miller.
EPI_ISL_475766	Universitaetsklinik für Innere Medizin II Innsbruck	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufragl, Daniela Schmidt, Franz Allerberger, Elisabeth Puchhammer-Stoecki, Manfred Nairz, Guenter Welss, Gregor Hörmann, Kinga Rigiler-Hohenwarter, Rainer Gattringer, Wegense Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475770, EPI_ISL_475771, EPI_IS FPI_ISL_475800, EPI_ISL_475801, EPI_ISL_475801	SL_475773, EPI_ISL_475774, EPI_ISL_475775, EPI_ISL SL_475802, EPI_ISL_475803, EPI_ISL_475804, EPI_ISL		2, EPI_ISL_475783, EPI_ISL_475784, EPI_ISL_475785, EPI_ISL_475786, EPI_ISL_475787, EPI_ISL_475790, EPI_ISL_475790, EPI_ISL_475792, EPI_ISL_475793, EPI_ISL_475794, EPI_ISL_475795, EPI_ISL_475797, EPI_ISL_475798, EPI_ISL_475799,
see above		Bergthaler laboratory, CeMM Research Center for Molecular Medicine of	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexandra Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl,
		the Austrian Academy of Sciences	Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoecki, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Hohenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475813, EPI_ISL_475814, EPI_I	SL_475815, EPI_ISL_475816, EPI_ISL_475817, EPI_ISL	_475818, EPI_ISL_475819, EPI_ISL_475820, EPI_ISL_475821, EPI_ISL_47582	2, EPI_ISL_475823, EPI_ISL_475824, EPI_ISL_475825, EPI_ISL_475826, EPI_ISL_475827, EPI_ISL_475828, EPI_ISL_475829
see above	Institut für Virologie am Department für Hygiene, Mikrobiologie und Public Health	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagi,
	SL_475832, EPI_ISL_475833, EPI_ISL_475834, EPI_ISL		Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoecki, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Hohenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler 9, EPI ISL 475840, EPI ISL 475841, EPI ISL 475842, EPI ISL 475843, EPI ISL 475844, EPI ISL 475845, EPI ISL 475844, EPI ISL 475846, EPI ISL 47
see above		Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl, Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoeckl, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Höhenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475889, EPI_ISL_475890, EPI_IS	SL_475891, EPI_ISL_475893, EPI_ISL_475894, EPI_ISL	_475895, EPI_ISL_475896, EPI_ISL_475897, EPI_ISL_475899, EPI_ISL_47590	0, EPI_ISL_475901, EPI_ISL_475902, EPI_ISL_475903, EPI_ISL_475904, EPI_ISL_475905, EPI_ISL_475906, EPI_ISL_475907, EPI_ISL_475908, EPI_ISL_475909
see above		Bergthaler laboratory, CeMM Research Center for Molecular Medicine of	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl,
	Labordiagnostik, Universitätskliniken Insbruck	the Austrian Academy of Sciences	Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoeckl, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Hohenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475910, EPI_ISL_475911, EPI_ISL_475912, EPI_ISL_475913, EPI_ISL_475914, EPI_ISL_475915	Klinikum Wels-Grieskirchen	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl, Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoeckl, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Hohenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475919, EPI_ISL_475923, EPI_ISL_475924, EPI_ISL_475926, EPI_ISL_475927, EPI_ISL_475928	Institut für Virologie am Department für Hygiene, Mikrobiologie und Public Health	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl, Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoeckl, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Höhenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475929, EPI_ISL_475930, EPI_ISL_475931, EPI_ISL_475932, EPI_ISL_475934, EPI_ISL_475935,	Universitaetsklinik für Innere Medizin II Innsbruck	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexandra Popa, Benedikt Agerer, Henrique Colaco, Lukas Endler, Jakob-Wendelin Genger, Alexander Lercher, Mark Smyth, Thomas Penz, Michael Schuster, Jan Laine, Martin Senekowitsch, Judith Aberle, Stephan Aberle, Peter Hufnagl, Daniela Schmid, Franz Allerberger, Elisabeth Puchhammer-Stoeckl, Manfred Nairz, Guenter Weiss, Gregor Hörmann, Kinga Rigler-Hohenwarter, Rainer Gattringer, Wegene Borena, Dorothee von Laer, Christoph Bock, Andreas Bergthaler
EPI_ISL_475936 EPI_ISL_475937, EPI_ISL_475938, EPI_ISL_475958, EPI_ISL_475958	SL_475939, EPI_ISL_475940, EPI_ISL_475941, EPI_ISL	475942, EPI ISL 475943, EPI ISL 475944, EPI ISL 475945, EPI ISL 47594	6, EPI_ISL_475948, EPI_ISL_475949, EPI_ISL_475950, EPI_ISL_475951, EPI_ISL_475953, EPI_ISL_475954, EPI_ISL_475955, EPI_ISL_475957, EPI_ISL_475958, EPI_ISL_475959, EPI_ISL_475960, EPI_ISL_475962, EPI_ISL_475963, EPI_ISL_475966,
see above	National Public Health Laboratory, National Centre for Infectious Diseases	_475973, EPI_ISL_475979, EPI_ISL_475981, EPI_ISL_475990, EPI_ISL_47599 National Public Health Laboratory, National Centre for Infectious Diseases	ر دادر اعلى بار عومي و المراجع المراجع Mak TM, Octavia S, Chavatte JM, Cui L, Lin RTP
EPI_ISL_476018, EPI_ISL_476019, EPI_ISL_476020, EPI_ISL_476021	Washington University in St. Louis	Washington University in St. Louis	David Wang, Carey-Ann Burnham, Scott Handley, Lindsay Droit, Stephen Tahan
EPI_ISL_476022	Defence Research & Development Establishment	Defence Research & Development Establishment	Shashi Sharma, Paban Kumar Dash, Jyoti S Kumar, Sushil Kumar Sharma, Ambuj Shrivastava
EPI_ISL_476023	Defence Research & Development Establishment (DRDE)	Defence Research & Development Establishment (DRDE)	Shashi Sharma, Paban Kumar Dash, Sushil Kumar Sharma, Ambuj Shrivastava, Jyoti S. Kumar
EPI_ISL_476062, EPI_ISL_476063			2, EPI_ISL_476043, EPI_ISL_476044, EPI_ISL_476045, EPI_ISL_476046, EPI_ISL_476048, EPI_ISL_476049, EPI_ISL_476050, EPI_ISL_476051, EPI_ISL_476053, EPI_ISL_476054, EPI_ISL_476056, EPI_ISL_476058, EPI_ISL_476059, EPI_ISL_476060,
see above	Michigan Department of Health and Human Services, Bureau of Laboratories	Michigan Department of Health and Human Services, Bureau of Laboratories	Blankenship HM, Riner D, Soehnlen MK
EPI_ISL_476067	The National Institute of Public Health	State Veterinary Institute Prague and The National Institute of Public Health	Nagy,A:Jirincova,H;Novakova,L;Trnka,D;Vecerova,J
EPI_ISL_476068, EPI_ISL_476069, EPI_ISL_476070, EPI_ISL_476071, EPI_ISL_476072, EPI_ISL_476073, EPI_ISL_476074, EPI_ISL_476075, EPI_ISL_476076, EPI_ISL_476077	University of Debrecen, Department of Medical Microbiology	National Laboratory of Virology, Szentágothai Research Centre	Endre Gábor Tóth, Balázs Somogyi, Brígitta Zana, Eszter Csoma, Ferenc Jakab, Gábor Kemenesi
EPI_ISL_476078	University of Szeged, Institute of Clinical Microbiology	National Laboratory of Virology, Szentágothai Research Centre	Endre Gábor Tóth, Balázs Somogyi, Brigitta Zana, Terhes Gabriella, Ferenc Jakab, Gábor Kemenesi
EPI_ISL_476079, EPI_ISL_476080, EPI_IS EPI_ISL_476104, EPI_ISL_476105, EPI_IS EPI_ISL_476131, EPI_ISL_476132, EPI_ISL_476132, EPI_ISL_476131, EPI_ISL_476132, EPI_ISL_476122,	SL_476081, EPI_ISL_476082, EPI_ISL_476083, EPI_ISL SL_476106, EPI_ISL_476107, EPI_ISL_476108, EPI_ISL	_476084, EPI_ISL_476085, EPI_ISL_476086, EPI_ISL_476087, EPI_ISL_47608 _476110, EPI_ISL_476112, EPI_ISL_476113, EPI_ISL_476114, EPI_ISL_47611	8, EPI_ISL_476089, EPI_ISL_476090, EPI_ISL_476091, EPI_ISL_476093, EPI_ISL_476094, EPI_ISL_476095, EPI_ISL_476096, EPI_ISL_476097, EPI_ISL_476098, EPI_ISL_476099, EPI_ISL_476100, EPI_ISL_476101, EPI_ISL_476103, EPI_ISL_476126, EPI_ISL_476117, EPI_ISL_476117, EPI_ISL_476128, EPI_ISL_476129, EPI_ISL_476
see above	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Christian Beisel, Sarah Nadeau, Ivan Topolsky, Pedro Ferreira, Philipp Jablonski, Susana Posada-Céspedes, Tobias Schār, Ina Nissen, Natascha Santacroce, Elodie Burcklen, Christiane Beckmann, Maurice Redondo, Olivier Kobel, Christoph Noppen, Sophie Seidel, Noemie Santamaria de Souza, Niko Beerenwinkel, Tanja Stadler
EPI_ISL_476135	Achima Care Fristadens VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476136	Surbrunns VC	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476137	Wasterlakarna	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476138	Ulltuna Vardcentral	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476139	Folkhalsomyndigheten	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476140, EPI_ISL_476141, EPI_ISL_476142	Klinisk Mikrobiologi	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476143, EPI_ISL_476144	Skovde/Unilabs	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476145, EPI_ISL_476146, EPI_ISL_476147	Ostersund klinisk mikrobiologi	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Shamam Muradrasoli, Anna Risberg, Karin Tegmark-Wisell
EPI_ISL_476148, EPI_ISL_476149, EPI_ISL_476492	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye, Amadou Alpha Sall
EPI ISL 476493	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Ousmane Faye, Amadou alpha Sall

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EPI_ISL_476883, EPI_ISL_476884, EPI_I		176888, EPI_ISL_476889, EPI_ISL_476890, EPI_ISL_476891, EPI_ISL_4768	
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			335, EPI_ISL_476936, EPI_ISL_476937, EPI_ISL_476938, EPI_ISL_476939, EPI_ISL_476940
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EPI_ISL_477057, EPI_ISL_477058, EPI_I	SL_477059, EPI_ISL_477060, EPI_ISL_477061, EPI_ISL_4 SL_477091, EPI_ISL_477092, EPI_ISL_477093, EPI_ISL_4	177062, EPI_ISL_477063, EPI_ISL_477064, EPI_ISL_477065, EPI_ISL_4770	335, EPI_ISL_477036, EPI_ISL_477037, EPI_ISL_477038, EPI_ISL_477039, EPI_ISL_477041, EPI_ISL_477045, EPI_ISL_477046, EPI_ISL_477049, EPI_ISL_477050, EPI_ISL_477051, EPI_ISL_477052, EPI_ISL_477054, EPI_ISL_477056, EPI_ISL_477067, EPI_ISL_477067, EPI_ISL_477067, EPI_ISL_477068, EPI_ISL_477069, EPI_ISL_477089, EPI_ISL_477070, EPI_ISL_47700, EPI_ISL_47700, EPI_ISL_477070, EPI_ISL_477070, EPI_ISL_477070, EPI_ISL_477070, EPI_ISL_477070, EPI_ISL_47700, EPI_ISL_47
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EPLISL_477170, EPLISL_477171, EPLISL_477172, EPLISL_477174, EPLISL_477175, EPLISL_477177, EPLISL_477178, EPLISL_477180, EPLISL_477182	Department of Laboratory Medicine Tan Tock Seng Hospital	Department of Laboratory Medicine Tan Tock Seng Hospital	Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM
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FPI ISI 477615, FPI ISI 477616, FPI ISI 477617, FPI ISI 477618, FPI ISI 477619, FPI ISI 477620, FPI ISI 477621, FPI ISI 477622, FPI ISI 477623, FPI ISI 477624, FPI ISI 477625

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EPI ISL 477673, EPI ISL 477674, EPI ISL 477675, EPI ISL 477675, EPI ISL 477675, EPI ISL 477676, EPI ISL 477690, EPI ISL 477690, EPI ISL 477692, EPI ISL 477692, EPI ISL 477693, EPI ISL 477694, EPI ISL 477695, EPI ISL 477695, EPI ISL 477697, EPI ISL 477690, EPI ISL 477693, EPI ISL 477697, EPI ISL 477697 EPI ISL 477697, EPI ISL 477698, EPI ISL 477698, EPI ISL 477709, EPI ISL 477709, EPI ISL 477705, EPI ISL 477706, EPI ISL 477706, EPI ISL 477706, EPI ISL 477707, EPI ISL 477706, EPI ISL 477706, EPI ISL 477706, EPI ISL 477707, EPI ISL 477706, EPI ISL 477706, EPI ISL 477706, EPI ISL 477707, EPI ISL 477706, EPI ISL 477706, EPI ISL 477706, EPI ISL 477707, EPI ISL 477706, EPI ISL 477706 EPI_ISL_477721, EPI_ISL_477723, EPI_ISL_477724

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EPI_SL_478683, EPI_JSL_478684, EPI_JSL_478684, EPI_JSL_478685, EPI_JSL_478685, EPI_JSL_4786868, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478690, EPI_JSL_478700, EPI_JSL_478690, EPI_JSL_478690

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EPI_ISL_479480 coo ahovo Wales Specialist Virology Centre Sequencing Jab: COVID-19 Genomics LIK (COG-LIK) Consortium Catherine Moore, Johnathan Evans, Laura Gifford, Malorie Perry, Simon Cottrell, Angela Marchbank, Alec Birchley, Alexander Adams, Amy Gaskin, Bree Gatica-Wilcox, Jason Coombes, Joel Southgate, Lauren Gilbert, Lee Graham, Nicole Pacchiarini, Sara Kumziene-Summerhaves, Sarah Taylor, Sophie Jones, Sara Rey, Matthew Bull, Joanne Watkins, Sally Corden, Tom Connor Pathogen Genomics Unit FPI ISI 479482, FPI ISI 479483, FPI ISI 479484, FPI ISI 479485, FPI ISI 479486, FPI ISI 479487, FPI ISI 479488, FPI ISI 479489, FPI ISI 479490, FPI ISI 479491, FPI ISI 479492 Department of Laboratory Medicine Tan Tock Seng Hospital Chen YYC. Zair X. Li C. Tang WY. Maurer-Strob S. Barkham TMS. Nagarajan N. 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M. unknown Cancer Biology Department, National Cancer Institute EPI ISL 479731, EPI ISL 479732, EPI_ISL_479733, EPI_ISL_479734, EPI ISL 479735 EPI ISL 479744 Institute for Stem Cell Science and Regenerative National Centre for Biological Sciences Farhan Ali, Vanessa Molin Paynter, Srikar Krishna, Mohak Sharda, Shah-e-Jahan Gulzar, Awadhesh Pandit, Varadha Sundarmurthy, Uma Ramakrishnan, Dasaradhi Palakodeti, Aswin Seshasayee EPI ISL 479756, EPI ISL 479757, National Institute of Hygiene and Epidemiology National Key Laboratory of Gene Technology, Institute of Biotechnology Le Tung Lam, Nguyen Hong Trang, Ho Thi Thuong, Tran Huyen Linh, Ung Thi Hong Trang, Le Thi Thanh, Nguyen Vu Son, Vuong Duc Cuong, Tran Thu Huong, Pham Thi Hien, Nguyen Phuong Anh, Nguyen Le Khanh Hang, Hoang Vu Mai Phuong, Hoang Ha, Taichiro Takemura, Futoshi Hasebe, Chu Hoang Ha, Le Quynh Mai, Dang Duc Anh, Truong Nam Hai FPI ISI 479758 (NIHE) EPI ISL 479759, EPI ISL 479760, EPI ISL 479760, EPI ISL 479762, EPI ISL 479763, EPI ISL 479764, EPI ISL 479764, EPI ISL 479765, EPI ISL 479767, EPI ISL 479768, EPI ISL 479769, EPI ISL 479771, EPI ISL 479772, EPI ISL 479773, EPI ISL 479774, EPI ISL 479775 University of Miami Immunology and University of Miami Immunology and Histocompatibility Laboratory Emilio Margolles-Clark, PhD and Phillip Ruiz, MD, PhD see above Histocompatibility Laboratory EPI ISL 479777, EPI ISL 479778, EPI ISL 479779, EPI ISL 479780, EPI ISL 479781, EPI ISL 479782, EPI ISL 479783, EPI ISL 479784, EPI ISL 479785, EPI ISL 479786, EPI ISL 479786 see above Breuer Lab. UCL Breuer Lab. UCL EPI ISL 479790 Laboratory of Molecular Virology of the ARGO Open Lab Platform for Genome Sequencing Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Confalonieri P, Confalonieri M, Marcello A International Centre for Genetic Engineering and Biotechnology (ICGEB) EPI_ISL_479791 Laboratory of Molecular Virology of the ARGO Open Lab Platform for Genome Sequencing Licastro, D, Rajasekharan S, Dal Monego S, Segat L, D'Agaro P, Salton F, Confalonieri P, Confalonieri M, Marcello A International Centre for Genetic Engineering and Biotechnology (ICGEB) EPI_ISL_479792, EPI_ISL_479793, Hokkaido Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Rika Komagome, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISL 479794, EPI ISL 479795 EPI_ISL_479796 Ishikawa Prefectural Institute of Public Health and Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Sanae Kuramoto, Eri Nariai, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Environmental Science EPI_ISL_479797, EPI_ISL_479798 Sagamihara City Public Health Research Institute Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Hiroshi Nakamura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISL 479799, EPI ISL 479800 Sapporo City Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Asami Ohnishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI_ISL_479801 Hokkaido Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Rika Komagome, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI_ISL_479802, EPI_ISL_479803, Sagamihara City Public Health Research Institute Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Hiroshi Nakamura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISL 479804 EPI ISL 479805, EPI ISL 479806, Saitama Prefectural Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Hayato Ehara, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI_ISL_479807, EPI_ISL_479808 EPI_ISL_479809, EPI_ISL_479810, Chiba Prefectural Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Masakatsu Taira, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda FPI ISI 479811 EPI_ISL_479812, EPI_ISL_479813, Hokkaido Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Rika Komagome, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda FPI ISI 479814 FPI ISI 479815 EPI_ISL_479816, EPI_ISL_479817,

EPI_ISL_479818, EPI_ISL_479819,			
EPI_ISL_479818, EPI_ISL_479819, EPI_ISL_479820			
EPI_ISL_479821, EPI_ISL_479822	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479823 EPI_ISL_479824	Kochi Prefectural Institute of Public Health Kumamoto PrefecturalInstituteof Public-Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Akihiko Tokaji, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Tsuyoshi Sekizuka, Shunsuke Yahiro, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479825	Tokyo Metropolitan Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kenji Sadamasu, Takashi Chiba, Mami Nagashima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
			I ISL 479836, EPI ISL 479837, EPI ISL 479838, EPI ISL 479839, EPI ISL 479840, EPI ISL 479841, EPI ISL 479842, EPI ISL 479843, EPI ISL 479844, EPI ISL 479845, EPI ISL 479846, EPI ISL 479847, EPI ISL 479848, EPI ISL 479849
see above EPI ISL 479850, EPI ISL 479851,	Sapporo City Institute of Public Health Gunma Prefectural Institute of Public Health and	Pathogen Genomics Center, National Institute of Infectious Diseases Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Asami Ohnishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Tsuyoshi Sekizuka, Hiroyuki Tsukagoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479853, EPI_ISL_479854	Environmental Sciences	ratingen denomics center, National institute of infectious diseases	i suyusiii senzuka, niiuyuki i sukayusiii, keikalu kukawa, kiika Talaka, masaluu hasiiilu, najiille katiilya, muul suzuki, makku kuluua
EPI_ISL_479855, EPI_ISL_479856, EPI_ISL_479857, EPI_ISL_479858, EPI_ISL_479859, EPI_ISL_479860,	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479861 EPI_ISL_479862, EPI_ISL_479863, EPI_ISL_479864, EPI_ISL_479865,	Wakayama Prefectural Research Center of Environment and Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Fumio Terasoma, Yosuke Hamajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479866, EPI_ISL_479867 EPI_ISL_479868	Department of Infectious Diseases, Kobe Institute of Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479869	Niigata Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Reiko Arai, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479870, EPI_ISL_479871	Sagamihara City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroshi Nakamura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479872, EPI_ISL_479873, EPI_IS	ISL_479874, EPI_ISL_479875, EPI_ISL_479876, EPI_ISL	_479877, EPI_ISL_479878, EPI_ISL_479879, EPI_ISL_479880, EPI_ISL_479881, EP	I_ISL_479882, EPI_ISL_479883, EPI_ISL_479884, EPI_ISL_479885
see above	Sapporo City Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Asami Ohnishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI ISL 479886, EPI ISL 479887, EPI ISL 479888, EPI ISL 479899, EPI ISL 479890, EPI ISL 479891, EPI ISL 479892, EPI ISL 479893, EPI ISL 479894, EPI ISL 479895	Tokyo Metropolitan Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kenji Sadamasu, Takashi Chiba, Mami Nagashima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479896, EPI_ISL_479897, EPI_ISL_479898, EPI_ISL_479899, EPI_ISL_479900, EPI_ISL_479901	Gunma Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroyuki Tsukagoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479902	Niigata Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Reiko Arai, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479903, EPI_ISL_479904, EPI_ISL_479905, EPI_ISL_479906, EPI_ISL_479907, EPI_ISL_479908, EPI_ISL_479909, EPI_ISL_479910, EPI_ISL_479911, EPI_ISL_479912	Himeji City Institute of Environment and Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479913, EPI_ISL_479914, EPI_I	ISL_479915, EPI_ISL_479916, EPI_ISL_479917, EPI_ISL_	479918, EPI_ISL_479919, EPI_ISL_479920, EPI_ISL_479921, EPI_ISL_479922, EP	I_SL_479923, EPI_ISL_479924
see above	Niigata City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Yurie Takahashi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479925, EPI_ISL_479926, EPI_ISL_479927	Sakai City Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Tatsuya Miyoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479928, EPI_ISL_479929, EPI_ISL_479930, EPI_ISL_479931, EPI_ISL_479932, EPI_ISL_479933, EPI_ISL_479934, EPI_ISL_479935	Saitama Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hayato Ehara, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI ISL 479936, EPI ISL 479937, EPI ISL 479938, EPI ISL 479939, EPI ISL 479940, EPI ISL 479941, EPI ISL 479942, EPI ISL 479943	lbaraki Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Keiko Goto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
	ISL_479946, EPI_ISL_479947, EPI_ISL_479948, EPI_ISL	_479949, EPI_ISL_479950, EPI_ISL_479951, EPI_ISL_479952, EPI_ISL_479953, EP	I_ISL_479954, EPI_ISL_479955, EPI_ISL_479956, EPI_ISL_479957, EPI_ISL_479958
see above	Osaka Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Satoshi Hiroi, Saeko Morikawa, Kazushi Motomura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479959, EPI_ISL_479960, EPI_ISL_479961, EPI_ISL_479962, EPI_ISL_479963, EPI_ISL_479964, EPI_ISL_479965	Tokyo Metropolitan Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kenji Sadamasu, Takashi Chiba, Mami Nagashima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479966	Osaka Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Satoshi Hiroi, Saeko Morikawa, Kazushi Motomura, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479967, EPI_ISL_479968, EPI_IS see above	ISL_479969, EPI_ISL_479970, EPI_ISL_479971, EPI_ISL_ Fukui Prefectural Institute of Public Health and	479972, EPI_ISL_479973, EPI_ISL_479974, EPI_ISL_479975, EPI_ISL_479976, EP Pathogen Genomics Center, National Institute of Infectious Diseases	I_SL_479977, EPI_ISL_479978 Tsuyoshi Sekizuka, Miho Toho, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
	Environmental Science		
EPI_ISL_479979, EPI_ISL_479980, EPI_ISL_479981, EPI_ISL_479982, EPI_ISL_479983, EPI_ISL_479984	Oita Prefectural Institute of Public Health and Environmental Science	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Mari Sasaki, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motol Suzuki, Makoto Kuroda
EPI_ISL_479985 EPI_ISL_479986, EPI_ISL_479987,	Ibaraki Prefectural Institute of Public Health Department of Infectious Diseases, Kobe Institute	Pathogen Genomics Center, National Institute of Infectious Diseases Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Keiko Goto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Tsuyoshi Sekizuka, Ryohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479988, EPI_ISL_479989 EPI_ISL_479990	of Health Kitakyushu City Institute of Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Katsuya Obata, Asuka Kikuchi Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_479991, EPI_ISL_479992, EPI_ISL_479993, EPI_ISL_479994, EPI_ISL_479995, EPI_ISL_479996	Kumamoto City Public Health Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Kaori Tashiro, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motol Suzuki, Makoto Kuroda
EPI_ISL_479997, EPI_ISL_479998, EPI_ISL_479999, EPI_ISL_480000, EPI_ISL_480001	Nagano Environmental Conservation Research Institute	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Naoko Shimodaira, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motol Suzuki, Makoto Kuroda
EPI_ISL_480003	Nagasaki Prefectural Institute for Environmental Research and Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Fumiaki Matsumoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480004, EPI_ISL_480005, EPI_IS		_480009, EPI_ISL_480010, EPI_ISL_480011, EPI_ISL_480012, EPI_ISL_480013, EP	1_5L_480014
see above	Chiba Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Masakatsu Taira, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480015, EPI_ISL_480016, EPI_ISL_480017, EPI_ISL_480018, EPI_ISL_480019, EPI_ISL_480020	Gunma Prefectural Institute of Public Health and Environmental Sciences	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Hiroyuki Tsukagoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
EPI_ISL_480021, EPI_ISL_480022, EPI_ISL_480023, EPI_ISL_480024, EPI_ISL_480025, EPI_ISL_480026, EPI_ISL_480027, EPI_ISL_480028, EPI_ISL_480029	lbaraki Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Tsuyoshi Sekizuka, Keiko Goto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda
		_480035, EPI_ISL_480036, EPI_ISL_480037, EPI_ISL_480038, EPI_ISL_480039, EP Pathogen Genomics Center, National Institute of Infectious Diseases	I_ISL_480040, EPI_ISL_480041 Tsuyoshi Sekizuka, Ako Nakajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda

EPI ISL 480042, EPI ISL 480043, EPI ISL 480043, EPI ISL 480044, EPI ISL 480044, EPI ISL 480059, EPI ISL 480059, EPI ISL 480059, EPI ISL 480069, EPI ISL 480069, EPI ISL 480069, EPI ISL 480060, EPI ISL 480060 see above Nagoya City Public Health Research Institute Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Takuya Miki, Shinichiro Shibata, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISI 480065 EPI ISI 480066 Sakai City Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Tatsuva Miyoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISL 480067, EPI ISL 480068, EPI_ISL_480069, EPI_ISL_480070, EPI ISL 480071, EPI ISL 480072 Tochigi Prefectural Institute of Public Health and EPI ISL 480073 Pathogen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Ako Nakajima, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoj Suzuki, Makoto Kuroda Environmental Science EPI_ISL_480074, EPI_ISL_480075, EPI_ISL_480076, EPI_ISL_480076, EPI_ISL_480077, Shizuoka City Institute of Environmental Sciences Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Takaharu Maehata, Sou Okamura, Yuji Kanazawa, Kenji Yagi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda and Public Health FPI ISI 480078, FPI ISI 480079 FPI ISI 480080, FPI ISI 480081. EPI ISL 480082 FPI ISI 480083, FPI ISI 480084. Gifu Prefectural Institute of Public Health and Pathogen Genomics Center, National Institute of Infectious Disease: Tsuyoshi Sekizuka, Yoshihiko Kameyama, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EDI ISI 480085 EDI ISI 480086 Environmental Sciences EPI ISL 480087, EPI ISL 480088, EPI ISL 480089 FPI ISI 480090 FPI ISI 480091 FPI ISI 480092 FPI ISI 480093 FPI ISI 480094 FPI ISI 480095 FPI ISI 480097 FPI ISI 480098 FPI ISI 480099 FPI ISI 480100 FPI ISI 480101 FPI ISI 480102 Department of Infectious Diseases, Kobe Institute Pathogen Genomics Center, National Institute of Infectious Diseases see above Tsuvoshi Sekizuka, Rvohei Nomoto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Haiime Kamiya, Motoi Suzuki, Makoto Kuroda of Health EPI ISI 480103 EPI ISI 480104 Koshigava City Public Health Center Pathonen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Yuka Furui, Aya Tamura, Kyohei Sakata, Takumi Daimon, Yoko Togawa, Yoshiko Hamada, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISL 480105, EPI ISL 480106, EPI ISL 480107, EPI ISL 480108 EPI ISL_480109, EPI ISL_480110, EPI ISL_480111, EPI ISL_480112, EPI ISL_480113, EPI ISL_480114, EPI ISL_480115, EPI ISL_480116, EPI ISL_480117, EPI ISL_480118, EPI ISL_480119 Oita Prefectural Institute of Public Health and see ahove Pathogen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Mari Sasaki, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Environmental Science EPI ISL 480120, EPI ISL 480121, EPI ISL 480121, EPI ISL 480122, EPI ISL 480122, EPI ISL 480123, EPI ISL 480124, EPI ISL 480124, EPI ISL 480124, EPI ISL 480125, EPI ISL 480126, EPI ISL 480126, EPI ISL 480130, EPI ISL 480133, EPI ISL 480133, EPI ISL 480133, EPI ISL 480133, EPI ISL 480134, EPI ISL 480136, EPI ISL 480137, EPI ISL 480136, EPI ISL 480136, EPI ISL 480136, EPI ISL 480140, EPI ISL 480140, EPI ISL 480157, EPI ISL 480157, EPI ISL 480158, EPI ISL 480157, EPI ISL 480164, EPI ISL 480164, EPI ISL 480164, EPI ISL 480164, EPI ISL 480166, EPI ISL 480166, EPI ISL 480164, EPI ISL 480164 see above Fukui Prefectural Institute of Public Health and Pathogen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Miho Toho, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda Environmental Science EPI ISL 480169, EPI ISL 480170, Gunma Prefectural Institute of Public Health and Pathogen Genomics Center, National Institute of Infectious Disease Tsuyoshi Sekizuka, Hiroyuki Tsukagoshi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda FPI ISI 480171, FPI ISI 480172. Environmental Sciences EPI_ISL_480173, EPI_ISL_480174, EPI_ISL_480175, EPI_ISL_480176, EPI ISL 480177 EPI_ISL_480178, EPI_ISL_480179 Hiroshima City Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Kota Noritsune, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI_ISL_480180, EPI_ISL_480181, Ibaraki Prefectural Institute of Public Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuvoshi Sekizuka, Keiko Goto, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Haiime Kamiya, Motoi Suzuki, Makoto Kuroda EPI ISI 480182 EPI ISI 480183 EPI_ISL_480184, EPI_ISL_480185, EPI_ISL_480186, EPI_ISL_480187, FPI ISI 480188, FPI ISI 480189 EPI ISL 480190, EPI ISL 480191, Ota Health Center Welfare Section Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Chika Takahashi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda FPI ISI 480192, FPI ISI 480193 EPI ISL 480194, EPI ISL 480195 EPI ISL 480197, EPI ISL 480198, Toyama Institute of Health Pathogen Genomics Center, National Institute of Infectious Diseases Tsuyoshi Sekizuka, Masae Itamochi, Kazunori Oishi, Kentaro Itokawa, Rina Tanaka, Masanori Hashino, Hajime Kamiya, Motoi Suzuki, Makoto Kuroda EPI_ISL_480199, EPI_ISL_480200, EPI ISL 480201, EPI ISL 480202. 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EPI_ISL_480333 Microbial Genomics Laboratory, Institut Pasteur de Microbial Genomics Laboratory, Institut Pasteur de Montevideo Cecilia Salazar, Marianoel Pereira, Ignacio Ferrés, Gonzalo Moratorio, Pilar Moreno, Gregorio Iraola Montevideo EPI ISL 480351, EPI ISL 480352, EPI ISL 480353, EPI ISL 480353, EPI ISL 480353, EPI ISL 480354, EPI ISL 480355, EPI ISL 480355, EPI ISL 480355, EPI ISL 480355, EPI ISL 480357, EPI ISL 480357, EPI ISL 480360, EPI ISL 480360, EPI ISL 480360, EPI ISL 480366, EPI ISL 480367, EPI ISL 480367 EP_ISL_480402, EP_ISL_480403, EPI_ISL_480404, EPI_ISL_480406, EPI_ISL_480407, EPI_ISL_480408, EPI_ISL_480409, EPI_ISL_480410, EPI_ISL_480411, EPI_ISL_480412, EPI_ISL_480413 University of Wisconsin-Madison AIDS Vaccine University of Wisconsin-Madison AIDS Vaccine Research Laboratories see above Gage Moreno, Katarina Braun, et al. AIDS Vaccine Research Laboratories Research Laboratories EPI_ISL_480414, EPI_ISL_480415, National Institute of Laboratory Medicine and Bangladesh Council of Scientific and Industrial Research Md. Saddam Hossain, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Tasnim Nafisa, Md. EPI ISL 480416, EPI ISL 480417. Referral Center Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Shahiahan Siddike, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Saiib, Md. Salim Khar EPI ISL 480418 EPI_ISL_480419, EPI_ISL_480420, National Institute of Laboratory Medicine and Bangladesh Council of Scientific and Industrial Research Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. 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FPI ISI 480608 FPI ISI 480616 Microbiological Diagnostic Unit - Public Health MDII-DHI

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EPI ISL 480622, EPI ISL 480627, EPI ISL 480627, EPI ISL 480631, EPI ISL 480631, EPI ISL 480632, EPI ISL 480665, EPI ISL 480666, EPI ISL 480667, EPI ISL 480669, EPI ISL 480649, EPI ISL 480649, EPI ISL 480649, EPI ISL 480659, EPI ISL 480669, EPI ISL 480699, EPI ISL 480669, EPI ISL 480669 EPI ISL 480673, EPI ISL 480674, EPI ISL 480675, EPI ISL 480676, EPI ISL 480677, EPI ISL 480678, EPI ISL 480679, EPI ISL 480680, EPI ISL 480681, EPI ISL 480682, EPI ISL 480683, EPI ISL 480680

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EPI_ISL_480687 Microbiological Diagnostic Unit - Public Health MDU-PHI Seemann T., Schultz M., Sait, M., Sherry, N. Laboratory (MDU-PHL)

FPI ISI 480694, FPI ISI 480695. Royal Darwin Hospital Pathology

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MDU-PHI Meumann, E., Caly L., Seemann T., Sait, M., Schultz M., Druce L., Sherry, N. EPI ISL 480696

EPI ISL 480698, EPI ISL 480699, EPI ISL 480699, EPI ISL 480701, EPI ISL 480701, EPI ISL 480702, EPI ISL 480702, EPI ISL 480702, EPI ISL 480704, EPI ISL 480705, EPI ISL 480707, EPI ISL 480709, EPI ISL 480714, EPI ISL 480714, EPI ISL 480715, EPI ISL 480716, EPI ISL 480716, EPI ISL 480718, EPI ISL 480718 EPI ISL 480728, EPI ISL 480729, EPI ISL 480730, EPI ISL 480730, EPI ISL 480731, EPI ISL 480732, EPI ISL 480733, EPI ISL 4807373, EPI ISL 4807373, EPI ISL 4807373, EPI ISL 4807373, EPI ISL 480740, EPI ISL 48

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EPI ISL 480746, EPI ISL 480748, EPI ISL 480749, EPI ISL 480750, EPI ISL 480750, EPI ISL 480753, EPI ISL 480755, EPI ISL 480756, EPI ISL 480757, EPI ISL 480759, EPI ISL 480759, EPI ISL 480760, EPI ISL 480761, EPI ISL 480762, EPI ISL 480763

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EPI ISL 480766 (VIDRL) MDII-PHI Seemann T., Schultz M., Sait, M., Sherry, N.

EPI_ISL_480768, EPI_ISL_480769, Microbiological Diagnostic Unit - Public Health

EDI ISI 480770 EDI ISI 480771 Laboratory (MDU-PHL) EPI ISL 480772, EPI ISL 480773,

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FPI ISI 480789 EPI ISL 480791, EPI ISL 480796, EPI ISL 480796, EPI ISL 480801, EPI ISL 480801, EPI ISL 480802, EPI ISL 480802, EPI ISL 480802, EPI ISL 480804, EPI ISL 480805, EPI ISL 480805, EPI ISL 480805, EPI ISL 480806, EPI ISL 480818, EPI ISL 480818, EPI ISL 480819, EPI ISL 480827, EPI ISL 480819, EPI ISL 480819

EP IS. 480872. FP IS. 480873. FP IS. 480872. FP IS. EPI ISL 480996, EPI ISL 480996, EPI ISL 480914, EPI ISL 480913, EPI ISL 480914, EPI ISL 480914

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EPI_ISL_480961	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
EPI_ISL_480962, EPI_ISL_480963, EPI_ISL_480965, EPI_ISL_480966, EPI_ISL_480967, EPI_ISL_480968, EPI_ISL_480969, EPI_ISL_480970, EPI_ISL_480972, EPI_ISL_480973	Servicio de Microbiología, Hospital Universitario Donostia. OSI Donostialdea. Area de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Santiaria Biodonostia	SeqCOVID-SPAIN consortium/IBV(CSIC)	Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose Maria Marimón and SeqCOVID-SPAIN consortium
EPI_ISL_480975	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
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EPI_ISL_480981	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
EPI_ISL_480983, EPI_ISL_480984, EPI_ISL_480985, EPI_ISL_480986, EPI_ISL_480988	Servicio de Microbiología, Hospital Universitario Donostia. OSI Donostialdea. Área de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Santiaria Biodonostia	SeqCOVID-SPAIN consortium/IBV(CSIC)	Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose Maria Marimón and SeqCOVID-SPAIN consortium
EPI_ISL_480989	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
EPI_ISL_480991, EPI_ISL_480994	Servicio de Microbiología, Hospital Universitario Donostia. OSI Donostialdea. Area de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Santiaria Biodonostia	SeqCOVID-SPAIN consortium/IBV(CSIC)	Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose María Marimón and SeqCOVID-SPAIN consortium
EPI_ISL_480995	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
EPI_ISL_480996, EPI_ISL_480997, EPI_ISL_480998, EPI_ISL_480999, EPI_ISL_481002	Servicio de Microbiología. Hospital Universitario Donostia. OSI Donostialdea. Area de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Sanitaria Biodonostia	SeqCOVID-SPAIN consortium/IBV(CSIC)	Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose Maria Marimón and SeqCOVID-SPAIN consortium
EPI_ISL_481003	ISGlobal, Institut de Salut Global de Barcelona	SeqCOVID-SPAIN consortium/IBV(CSIC)	Alfredo Mayor, Alberto L Garcia-Basteiro, Carlota Dobaño, Gemma Moncunill, Pau Cisteró and SeqCOVID-SPAIN consortium
EPI_ISL_481004, EPI_ISL_481008, EPI_ISL_481009, EPI_ISL_481010, EPI_ISL_481011	Servicio de Microbiología. Hospital Universitario Donostia. OSI Donostialdea. Área de Enfermedades Infecciosas. Grupo de Infección Respiratoria y	SeqCOVID-SPAIN consortium/IBV(CSIC)	Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose Maria Marimón and SeqCOVID-SPAIN consortium

EPI_ISL_481011 Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana, Instituto de

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EPI_ISL_481030, EPI_ISL_481032, Donostia, OSI Donostialdea, Área de Enfermedades EPI_ISL_481033 Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana, Instituto de Investigación Sanitaria Biodonostia

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EPI_ISL_481254, EPI_ISL_481255

EPI_ISL_481257, EPI_ISL_481258,

EPI ISL 481377, EPI ISL 481378,

see ahove

EPI ISL 481043, EPI ISL 481043, EPI ISL 481043, EPI ISL 481044, EPI ISL 481044, EPI ISL 481044, EPI ISL 481055, EPI ISL 481054, EPI ISL 481055, EPI ISL 481055 EP ISL 481073, EP ISL 481073, EP ISL 481074, EP ISL EPI ISL 481100, EPI ISL 481101, EPI ISL 481102, EPI ISL 481103, EPI ISL 481104, EPI ISL 481105, EPI ISL 481106, EPI ISL 481107, EPI ISL 481107, EPI ISL 481107, EPI ISL 481108, EPI ISL 481109

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EPI_SL_481110, EPI_JSL_481111, EPI_JSL_481111, EPI_JSL_481112, EPI_JSL_481113, EPI_JSL_481113, EPI_JSL_481124, EPI_JSL_481126, EPI_JSL_481127, EPI_JSL_481127, EPI_JSL_481127, EPI_JSL_481129, EPI_JSL_481127, EPI_JSL_481127, EPI_JSL_481129, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_48113, EPI_JSL_481124, EPI_JSL_481124, EPI_JSL_481124, EPI_JSL_481127, EPI_JSL_481127, EPI_JSL_481128, EPI_JSL_48113, E Immunogenomics lab, Institute of Life Sciences. Sunil Raphay, Arun Ghosh, Deenika Singh, Ankita Datey, P. Sushree Shyamli, Bharati Singh, Neha Singh, Atimukta Iba, Violoy K. Riswas, Swati Madhulika, Manasi Priyadarshini, Sneha Dutta, Auromira Khuntia, Rupesh Dash, Soma see above Immunogenomics lab. Institute of Life Sciences, Bhubaneswar Chattopadhyay, Ghulam Hussain Syed, Shanti Senapati, Tushar K. Beuria, Rajeeb Swain, Punit Prasad, Orissa COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium, Ajay Parida

EPI ISL 481134, EPI ISL 481135, EPI ISL 481135, EPI ISL 481135, EPI ISL 481136, EPI ISL 481137, EPI ISL 481137, EPI ISL 481149, EPI ISL 481149, EPI ISL 481149, EPI ISL 481149, EPI ISL 481152, EPI ISL 481153, EPI ISL 481153, EPI ISL 481153, EPI ISL 481154, EPI ISL 481155, EPI ISL 481154, EPI ISL 481154, EPI ISL 481154, EPI ISL 481155, EPI ISL 481155, EPI ISL 481155, EPI ISL 481154, EPI ISL 481154, EPI ISL 481155, EPI ISL 481155, EPI ISL 481154, EPI ISL 481155, EPI ISL 481155 see above Immunogenomics lab. Institute of Life Sciences. Immunogenomics lab, Institute of Life Sciences, Bhubaneswar Sunil Raghay, Arun Ghosh, Ankita Datey, P. Sushree Shyamli, Bharati Singh, Neha Singh, Deepika Singh, Atimukta Iha, Vinloy K. Riswas, Swati Madhulika, Manasi Priyadarshini, Aditi Chatteriee, Rahul Das, Soumyaiit Ghosh, Rupesh Dash,

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EPI_ISL_481158, EPI_ISL_481159, EPI_ISL_481159, EPI_ISL_481160, EPI_ISL_481161, EPI_ISL_481161, EPI_ISL_481164, EPI_ISL_481179, EPI_ISL_481179, EPI_ISL_481170, EPI_ISL_481171, EPI_ISL_481175, EPI_ISL_481175, EPI_ISL_481175, EPI_ISL_481177, EPI_ISL_481176, EPI_ISL_481179, EPI_ISL_481180, EPI_ISL_481180, EPI_ISL_481180, EPI_ISL_481180, EPI_ISL_481180, EPI_ISL_481161, EPI_ISL_481177, EPI_ISL_481177 Sunil Raghay, Aruo Ghosh, P. Sushree Shyamli, Bharati Singh, Neha Singh, Ankita Datey, Deepika Singh, Atimukta Iha, Viploy K, Biswas, Swati Madhulika, Manasi Priyadarshini, Tsheten Sherga, Auromira Khuntia, Rugesh Dash, Soma see above Immunogenomics lab. Institute of Life Sciences. Immunogenomics lab, Institute of Life Sciences, Bhubaneswar

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EPI_ISL_481242	Mayo Clinic & Mayo Clinic Laboratories	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, Kelly Pung, and Xiong Wang
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EPI_ISL_481244, EPI_ISL_481245, EPI_ISL_481246, EPI_ISL_481247, EPI_ISL_481248	Hospital IESS Babahoyo	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Carla Torres, Bernardo Gutiérrez, Francisco Cordova, Ninfa Henriquez, Killen Briones-Zamora, Killen Briones-Claudette, Verónica Barragán, Patricio Rojas-Silvi Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas
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EDI ICI 402024 EDI ICI 402020 EDI I	Intection Service	402044 EDITICI 402046 EDITICI 402040 EDITICI 402051 EDITICI 4020	Denair of the Wellcome Sanger Institute CUVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
see above		482044, EPI_ISL_482046, EPI_ISL_482049, EPI_ISL_482051, EPI_ISL_48205 Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K.
EPI_ISL_482058, EPI_ISL_482060, EPI_ISL_482061, EPI_ISL_482062,	Social Care Trust The Department of Microbiology, Torbay and South Devon NHS Foundation Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Amy Hurd, Sophie Lloyd, Anthony Mogridge, Jack Howe, Helen Brown, Gary Booth, Mel Brown, Cheryl Bailiss, Michelle Harrison and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482064, EPI_ISL_482065, EPI_ISL_482067, EPI_ISL_482068			
EPI_ISL_482069	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482070	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482071, EPI_ISL_482072, EPI_ISL_482073, EPI_ISL_482074, EPI_ISL_482076, EPI_ISL_482078, EPI_ISL_482079, EPI_ISL_482081	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482082	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482084, EPI_ISL_482085, EPI_ISL_482086, EPI_ISL_482088, EPI_ISL_482089, EPI_ISL_482090, EPI_ISL_482092, EPI_ISL_482093, EPI_ISL_482094, EPI_ISL_482095	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482096	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482099, EPI_ISL_482100	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482101, EPI_ISL_482102	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482103, EPI_ISL_482104	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482105	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482106, EPI_ISL_482108, EPI_ISL_482109, EPI_ISL_482111, EPI_ISL_482112, EPI_ISL_482113, EPI_ISL_482114	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482115	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482116, EPI_ISL_482117, EPI_ISL_482118	Microbiology Department, Hereford County Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford. John Sillitoe on behalf of the Wellcome Sanoer Institute COVID-19 Surveillance Team (http://www.sanoer.ac.uk/covid-team)
EPI_ISL_482120, EPI_ISL_482128, EPI_ISL_482130	The Department of Microbiology, Torbay and South Devon NHS Foundation Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Amy Hurd, Sophie Lloyd, Anthony Mogridge, Jack Howe, Helen Brown, Gary Booth, Mel Brown, Cheryl Bailiss, Michelle Harrison and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI ISL 482133, EPI ISL 482134, EPI ISL 482140, EPI ISL 482142, EPI ISL 482144, EPI ISL 482146, EPI ISL 482149, EPI ISL 482152, EPI ISL 482154	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Clara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_482160, EPI_ISL_482161, EPI_I	SL_482163, EPI_ISL_482165, EPI_ISL_482166, EPI_ISL_	482168, EPL ISL_482170, EPL ISL_482171, EPL ISL_482175, EPL ISL_4821	76. EPI_ISL_482178, EPI_ISL_482182, EPI_ISL_482183, EPI_ISL_482184, EPI_ISL_482186, EPI_ISL_482186, EPI_ISL_482188, EPI_ISL_482191, EPI_ISL_482192, EPI_ISL_482196, EPI_ISL_482197, EPI_ISL_482200, EPI_ISL_482201, EPI_ISL_482202,
see above	University College London, Great Ormond Street	482209, EPI_ISL_482210, EPI_ISL_482211, EPI_ISL_482212, EPI_ISL_4822 Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne
	Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust		Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI ISL 482316, EPI ISL 482317, EPI I EPI ISL 482341, EPI ISL 482342, EPI I EPI ISL 482366, EPI ISL 482392, EPI I EPI ISL 482390, EPI ISL 482392, EPI I EPI ISL 482415, EPI ISL 482416, EPI I EPI ISL 482439, EPI ISL 482440, EPI I	SL 482318, EPI JSL 482319, EPI JSL 482320, EPI JSL SL 482343, EPI JSL 482344, EPI JSL 482345, EPI JSL SL 482368, EPI JSL 482369, EPI JSL 482370, EPI JSL SL 482393, EPI JSL 482394, EPI JSL 482395, EPI JSL SL 482417, EPI JSL 482418, EPI JSL 482419, EPI JSL	482321, EPI JSL 482322, EPI JSL 482323, EPI JSL 482324, EPI JSL 48234 482346, EPI JSL 482347, EPI JSL 482348, EPI JSL 482349, EPI JSL 482344 482371, EPI JSL 482372, EPI JSL 482373, EPI JSL 482374, EPI JSL 4823 482396, EPI JSL 482397, EPI JSL 482398, EPI JSL 482394, EPI JSL 48244 482420, EPI JSL 482421, EPI JSL 482422, EPI JSL 482423, EPI JSL 4824	10. EP ISL. 482302, EP ISL. 482303, EP ISL. 482305, EP ISL. 482305, EP ISL. 482306, EP ISL. 482305, EP ISL. 482306, EP ISL
see above	Providence St. Joseph Health Molecular Genomics Laboratory	Providence St. Joseph Health Molecular Genomics Laboratory	Alexa K Dowdell, Brian D Piening, Fred L Robinson, Carlo B Bifulco, Mary Campbell
EPI_ISL_482468	Laboratorio de Referencia Nacional de Virus Respiratorios. Instituto Nacional de Salud Peru	Laboratorio de Referencia Nacional de Biotecnologia y Biologia Molecular. Instituto Nacional de Salud Peru	Carlos Padilla Rojas, Priscila Lope Pari, Karolyn Vega Chozo, Johanna Balbuena Torres, Omar Caceres Rey, Henri Bailon Calderon, Maribel Huaringa Nuñez, Nancy Rojas Serrano
EPI_ISL_482469, EPI_ISL_482470	Queen Elizabeth II Health Science Centre	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Todd Hatchette, Jason LeBlanc, Nathalie Bastien, Yan Li, Timothy Booth
EPI_ISL_482471, EPI_ISL_482472, EPI_ISL_482473	Dr. Georges-LDumont University Hospital Centre	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Richard Garceau, Guillaume Desnoyers, Nathalie Bastien, Yan Li, Timothy Booth
EPI_ISL_482474, EPI_ISL_482475	Cadham Provincial Laboratory	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Paul Van Caeseele, Jared Bullard, David Alexander, Kerry Dust, Nathalie Bastien, Yan Li, Timothy Booth,
EPI_ISL_482476, EPI_ISL_482477	Queen Elizabeth II Health Science Centre	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Todd Hatchette, Jason LeBlanc, Nathalie Bastien, Yan Li. Timothy Booth
EPI_ISL_482478	Cadham Provincial Laboratory	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Paul Van Caeseele, Jared Bullard, David Alexander, Kerry Dust, Nathalie Bastien, Yan Li, Timothy Booth,
EPI_ISL_482479	Public Health Laboratory	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Robert Needle, Yang Yu, Adel Malek, Laura Gilbert, George Zahariadis, Nathalie Bastien, Yan Li, Timothy Booth
EPI_ISL_482480, EPI_ISL_482481, EPI_ISL_482482, EPI_ISL_482483, EPI_ISL_482484	Cadham Provincial Laboratory	National Microbiology Laboratory	Anna Majer, Shari Tyson, Grace Seo, Kristyn Burak, Philip Mabon, Elsie Grudeski, Rhiannon Huzarewich, Russell Mandes, Jennifer Tanner, Natalie Knox, Morag Graham, Gary Van Domselaar, Paul Van Caeseele, Jared Bullard, David Alexander, Kerry Dust, Nathalie Bastien, Yan Li, Timothy Booth,
EPI_ISL_482485, EPI_ISL_482486, EPI_ISL_482487	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Marshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Marshed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Shahijahan Siddike, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_482488	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Shahjahan Siddike, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_482489	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Ahasan Habib, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Shahjahan Siddike, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_482498, EPI_ISL_482501, EPI_ISL_	SL_482503, EPI_ISL_482509, EPI_ISL_482511, EPI_ISL_	482512, EPI_ISL_482513, EPI_ISL_482515, EPI_ISL_482531, EPI_ISL_4825	37, EPI_ISL_482545, EPI_ISL_482546, EPI_ISL_482547, EPI_ISL_482552, EPI_ISL_482555, EPI_ISL_482556, EPI_ISL_482560, EPI_ISL_482563, EPI_ISL_482574

PHE South West Regional Laboratory, National Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on

Pramod Kumar#, Rajesh Pandey#, Pooja Sharma, Mahesh S Dhar, Vivekanand A, Bharathram Uppili, Robin Marwal, Radhakrishanan VS, Saruchi Wadhwa, Nishu Tyagi, Uma Sharma, Priyanka Singh, Hemlata Lall, Meena Datta, Varun Jaiswal, Hema Gogia, Preeti Madan, Prateek Singh, Debasis Dash, Mitali Mukerji, Sandhya Kabra, Sujeet Singh, Mohammed Faruq, Anurag Agrawal*, Partha Rakshit*

behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

National Centre for Disease control (NCDC)

see above

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NCDC/CSIR-IGIB

EPI ISL 482587, EPI ISL 482590, EPI ISL 482590, EPI ISL 482591, EPI ISL 482613, EPI ISL 482611, EPI ISL 482613, EPI ISL 482613, EPI ISL 482613, EPI ISL 482613, EPI ISL 482631, EPI ISL 482643, EPI ISL 482643 EPI ISL 482660, EPI ISL 482661, EPI ISL 482663, EPI ISL 482664, EPI ISL 482665, EPI ISL 482669 National Centre for Disease control (NCDC) NCDC/CSIR-IGIR see above Pramod Kumar#, Rajesh Pandey#, Pooja Sharma, Mahesh S Dhar, Vivekanand A, Bharathram Unpili, Robin Marwal, Radhakrishanan VS, Saruchi Wadhwa, Nishu Tyaqi, Uma Sharma, Priyanka Singh, Hemlata Lall, Meena Datta, Varur aiswal, Hema Gogia, Preeti Madan, Prateek Singh, Debasis Dash, Mitali Mukerji, Sandhya Kabra, Sujeet Singh, Mohammed Farug, Anurag Agrawal*, Partha Rakshit* EPI ISL 482672, EPI ISL 482673, EPI ISL 482673, EPI ISL 482674, EPI ISL 482675, EPI ISL 482694, EPI ISL 482696, EPI ISL 482697, EPI ISL 482696, EPI ISL 482697, EPI ISL 482697, EPI ISL 482697, EPI ISL 482698, EPI ISL 482699, EPI ISL 482699, EPI ISL 482697, EPI ISL 482699, EPI ISL 482699 Singapore General Hospital Department of Microbiology Nurdvana Abdul Rahman, Kun Lee Lim, Chenhao Li, Kian Sing Chan, Lynette Oon, Kern Rei Chng, Niranjan Nagarajan, Karrie Ko see above FPI ISI 482700 FPI ISI 482701 National Institute of Laboratory Medicine and Abu Saveed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Ranu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Genomic Research Lab. BCSIR Referral Center Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, Shahjahan Siddike, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan EPI ISL 482702, EPI ISL 482704, Molecular Diagnostics Services (MDS) KRISP, KZN Research Innovation and Sequencing Platform Giandhari I. Pillay S. Lessells R. Chimukangara B. Mdlalose K. York D. Khan S. Tegally H. Wilkinson F. de Oliveira T FPI ISI 482705, FPI ISI 482708. EPI ISL 482709 EPI ISL 482710, EPI ISL 482711, NHI S-IAI CH KRISP, KZN Research Innovation and Sequencing Platform Giandhari I. Pillay S. Lessells R. Chimukangara B. Mdlalose K. York D. Khan S. Tegally H. Wilkinson F. de Oliveira T FPI ISI 482712 EPI ISL 482716, EPI ISL 482717, Molecular Diagnostics Services (MDS) KRISP, KZN Research Innovation and Sequencing Platform Giandhari I. Pillay S. Lessells R. Chimukangara B. Mdlalose K. York D. Khan S. Tegally H. Wilkinson F. de Oliveira T EPI_ISL_482718, EPI_ISL_482719,

EPI ISI 482720 EPI ISI 482721 EPI_ISL_482722, EPI_ISL_482723 KRISP, KZN Research Innovation and Sequencing Platform EPI ISL 482726 NHLS-IALCH Giandhari I, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T EPI_ISL_482744 Laboratory Diagnostic Vidanovic, D., Tesovic, B., Banovic Dieri, B., Knezevic, A., Vidanovic, D., Tesovic, B., Banovic Dieri, B., Knezevic, A., Afonso, C. unknown Spiider F.L. Ogando N.S., Zevenhoven I.C. Dalebout T.L. de Vries I.C. and Sidorov I. EPI ISL 482745 unknown Medical Microbiology

Medical Microbiology EPI ISL 482746 unknown Sniider, E.I., Ogando, N.S., Zevenhoven, I.C., Dalebout, T.I., de Vries, I.I. and Sidorov, I. EPI ISL 482759, EPI ISL 482760, EPI ISL 482761, EPI ISL 482761, EPI ISL 482762, EPI ISL 482762, EPI ISL 482763, EPI ISL 482764, EPI ISL 482765, EPI ISL 482767, EPI ISL 482768, EPI ISL 482769, EPI ISL 482770, EPI ISL 482771, EPI ISL 482772, EPI ISL 482773, EPI ISL 482774, EPI ISL 482764, EPI ISL 482764, EPI ISL 482769, EPI ISL 482770, EPI ISL 482770, EPI ISL 482771, EPI ISL 482774, EPI ISL 482769, EPI ISL 482769, EPI ISL 482769, EPI ISL 482774, EPI ISL 482774, EPI ISL 482775, EPI ISL 482769, EPI ISL 482769, EPI ISL 482769, EPI ISL 482774, EPI ISL 482774, EPI ISL 482774, EPI ISL 482774, EPI ISL 482769, EPI ISL 482774, EPI ISL 482769, EPI ISL 482774, EPI ISL 482774

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EPI ISL 482852. EPI ISL 482853. Molecular Diagnostics Services (MDS) KRISP, KZN Research Innovation and Sequencing Platform Giandhari I, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T EPI ISL 482862, EPI ISL 482867 EPI_ISL_482874, EPI_ISL_482875, Institut Pasteur Dakar Institut Pasteur de Dakar Ndongo Dia, Moussa Moise Diagne, Mamadou Diop, Marie Henriette Dior Ndione, Mamadou malado lallow, Safietou Sankhe, Ousmane Fave, Amadou Alpha Sall, FPI ISI 482876, FPI ISI 482877.

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EPI_ISL_483641, EPI_ISL_483642	National Institute of Laboratory Medicine and	Genomic Research Lab, BCSIR	Mark Pronk, Pascal Lexmond, Richard Molenkamp, Marion Koopmans, on behalf of the Dutch national COVID-19 response team. Barna Goswami, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
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EPI_ISL_483645, EPI_ISL_483646	Referral Center National Institute of Laboratory Medicine and	Genomic Research Lab, BCSIR	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Saddam Hossain, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Tasnim Nafisa, Md.
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EPI_ISL_483688	Referral Center Genomic Research Lab, BCSIR	Genomic Research Lab, BCSIR	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
EPI_ISL_483689, EPI_ISL_483690,	National Institute of Laboratory Medicine and	Genomic Research Lab, BCSIR	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
EPI_ISL_483691, EPI_ISL_483692 EPI_ISL_483693, EPI_ISL_483694,	Referral Center National Institute of Laboratory Medicine and	Genomic Research Lab, BCSIR	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
EPI_ISL_483695, EPI_ISL_483699, EPI_ISL_483700, EPI_ISL_483703	Referral Center		Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_483704 EPI_ISL_483705, EPI_ISL_483707	Israel Central Virology laboratory National Institute of Laboratory Medicine and	Israel Central Virology laboratory Genomic Research Lab, BCSIR	Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
EPI_ISL_483708, EPI_ISL_483709	Referral Center Israel Central Virology laboratory	Israel Central Virology laboratory	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim
EPI_ISL_483708, EPI_ISL_483709 EPI_ISL_483710	National Institute of Laboratory Medicine and	Genomic Research Lab, BCSIR	Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md.
EPI_ISL_483711, EPI_ISL_483712,	Referral Center Israel Central Virology laboratory	Israel Central Virology laboratory	Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim
EPI_ISL_483713, EPI_ISL_483715, EPI_ISL_483717, EPI_ISL_483725			
EPI_ISL_483820	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483821	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483822	Government Medical College, Vadodara	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483823	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483824	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483825	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Himanshu Khatri, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483826	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483827	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483828	GMERS Medical College Himmatnagar	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483829	Pandit Deendayal Upadhyay Government Medical College, Raikot	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483830	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483831	Pandit Deendayal Upadhyay Government Medical College. Raikot	Gujarat Biotechnology Research Centre	Molinka Galiuni, R D Dixit, A M Adult, Harish Bakshi, Cinalaniya Joshi, Madirvi Joshi Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_483832	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi,
EPI_ISL_483833	College, Rajkot Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Maharshi Pandya, R. D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Ladohi Pandya, Afrad Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi
FPI ISI 483834	College, Rajkot Pandit Deendaval Unadhvay Government Medical	Guiarat Riotechnology Research Centre	Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Ranhawendra Kumar Dinesh Kumar Zuher Saived, Komal Patel, Lahdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruy, Arti Trivedi, Anurvasinh Puyar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi

Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi

Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya,

Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi

Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi

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College, Rajkot

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College, Rajkot

Pandit Deendayal Upadhyay Government Medical College, Rajkot Gujarat Biotechnology Research Centre

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1. 1. 1. 1. 1. 1. 1. 1.	EPI_ISL_483837	Pandit Deendayal Upadhyay Government Medical College, Rajkot	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Salyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Company	EPI_ISL_483838		Gujarat Biotechnology Research Centre	
	EPI_ISL_483839		Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
1. 1. 1. 1. 1. 1. 1. 1.	EPI_ISL_483840		Gujarat Biotechnology Research Centre	
	EPI_ISL_483841	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal
Post	EPI_ISL_483842	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi,
Dec.	EPI_ISL_483843	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi
	EPI_ISL_483844	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi,
Polity	EPI_ISL_483845	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh
19.5. 19.5	EPI_ISL_483846	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi
	EPI_ISL_483847	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel,
1	EPI_ISL_483848	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika
High Signed September of the process of the comment in the comment of the comment	EPI_ISL_483849	Pandit Deendayal Upadhyay Government Medical	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Gauravi Dhruv, Arti Trivedi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi,
P. 1. See See See See See See See See See Se	EPI_ISL_483850	Department of Microbiology, Government Medical	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal
California Cal	EDI ISI 483851		Guiarat Riotechnology Research Centre	
Capter C		College, Surat		Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Fig. 13. State 1 September 1 Windows (1997). September 2 W		College, Surat		Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
College Series Fig. 4, 1987 (College Series Fig. 4, 1987 (Colleg		College, Surat		Raghawendra Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Cale of Land College Survey Fig. 1, 2000 Fig. 1, 2000 Fig. 2, 2000 F		College, Surat		Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Segue	EPI_ISL_483855		Gujarat Biotechnology Research Centre	
Telley, Supering the College, Supering	EPI_ISL_483856		Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Colspecial and Colspecial Control Residue Control Square Search Control Square Search Control Square Search Control Colspecial Squar	EPI_ISL_483857		Gujarat Biotechnology Research Centre	
Callege, Guild Department of Microlatory, December Method Department	EPI_ISL_483858	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
College, Siles 1	EPI_ISL_483859		Gujarat Biotechnology Research Centre	Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zama Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
College. Surst College. Surst	EPI_ISL_483860		Gujarat Biotechnology Research Centre	Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Septiment Microscopy, Government Medical Dispatchment Microscopy,	EPI_ISL_483861		Gujarat Biotechnology Research Centre	
College, Surst Fig. 13,48384 Department of Microbiology, Government Medical Gujarat Biotechnology Research Centre File J. 433856 Department of Microbiology, Government Medical Gujarat Biotechnology Research Centre File J. 433856 Pile J. 433856 Department of Microbiology, Government Medical Gujarat Biotechnology Research Centre Gujarat Biotechnology Research Centre Microbiology, Government Medical Gujarat Biotechnology Research Centre Nichl Pade, Microbiology, Government Medical Gujarat Biotechnology Research Centre Nichl Pade, Microbiology, Government Medical Gujarat Biotechnology Research Centre Gujarat Biotechnology Research Centre Microbiology, Government Medical Gujarat Biotechnology Research Centre Gu	EPI_ISL_483862		Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Poly 15, 483867 Poly 15, 48386	EPI_ISL_483863	Department of Microbiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
Selection of the controllar of	EPI_ISL_483864		Gujarat Biotechnology Research Centre	
Tama Patet, Monika Gardhi, Pinal Trivedi, R. Diotat, A. M. Kadri, Harah Bakshi, Challaraya Josh, Madriy Josh Part J. 433867 Department of Microbiology, Government Medical Oliganst Biotechnology Research Centre P. J. 433868 Department of Microbiology, Government Medical Oliganst Biotechnology Research Centre Raghamendra Kumar, Dinesh Kumar, Zuber Sayleyd, Cannal Patet, Labbild Pangly, Astral Ansara, Nikha Trivedi, Nareh Chaushan, Summaya Mullan, Amti gamit, Apurusainh Puwar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Department of Microbiology, Government Medical Oliganst Biotechnology Research Centre Raghamendra Kumar, Dinesh Kumar, Zuber Sayleyd, Chronal Patet, Labbild Pangly, Astral Ansara, Nikha Trivedi, Naresh Chaushan, Summaya Mullan, Amti gamit, Apurusainh Puwar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Department of Microbiology, Government Medical College, Surat Department of Microbiology, Govern	EPI_ISL_483865		Gujarat Biotechnology Research Centre	
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COVID-19 Genomics UK (COG-UK) Consortium

Immunology

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EPI ISL 484519, EPI ISL 484520, EPI ISL 484520, EPI ISL 484521, EPI ISL 484521, EPI ISL 484537, EPI ISL 484539, EPI ISL 484537, EPI ISL 484539, EPI ISL 484549, EPI ISL 484549 EPÎ ISL 484544, EPÎ ISL 484545, EPÎ ISL 484545, EPÎ ISL 484545, EPÎ ISL 484564, EPÎ ISL 484564, EPÎ ISL 484564, EPÎ ISL 484555, EPÎ ISL 484555, EPÎ ISL 484555, EPÎ ISL 484556, EPÎ ISL 484556, EPÎ ISL 484557, EPÎ ISL 484557, EPÎ ISL 484564, EPÎ ISL 484564, EPÎ ISL 484564, EPÎ ISL 484574, EPÎ ISL 484574, EPÎ ISL 484576, EPÎ ISL 484574, EPÎ ISL 484574, EPÎ ISL 484574, EPÎ ISL 484576, EPÎ ISL 484574, EPÎ ISL 484574, EPÎ ISL 484574, EPÎ ISL 484576, EPÎ ISL 484574, EPÎ ISL 484574 EPI ISL 484594, EPI ISL 484595, EPI ISL 484595, EPI ISL 484595, EPI ISL 484595, EPI ISL 484597, EPI ISL 484599, EPI ISL 484603, EPI ISL 484603 EPI ISL 484646, EPI ISL 484647, EPI ISL 484647, EPI ISL 484648, EPI ISL 484648, EPI ISL 484659, EPI ISL 484659 EPI_ISL_484670, EPI_ISL_484671, EPI_ISL_484672, EPI_ISL_484673, EPI_ISL_484674, EPI_ISL_484675, EPI_ISL_484676, EPI_ISL_484677, EPI_ISL_484678, EPI_ISL_484679

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EPI_ISL_484686, EPI_ISL_484689, COVID-19 Genomics UK (COG-UK) Consortium Originating lab: Wales Specialist Virology Centre Catherine Moore, Johnathan Evans, Laura Gifford, Malorie Perry, Simon Cottrell, Angela Marchbank, Alec Birchley, Alexander Adams, Amy Gaskin, Bree Gatica-Wilcox, Jason Coombes, Joel Southgate, Lauren Gilbert, Lee Graham, Nicole EPI_ISL_484691 Sequencing lab: Pathogen Genomics Unit Pacchiarini, Sara Kumziene-Summerhaves, Sarah Taylor, Sophie Jones, Sara Rev, Matthew Bull, Joanne Watkins, Sally Corden, Tom Conno

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EPI ISL 484709, EPI ISL 484710, EPI ISL 484710, EPI ISL 484710, EPI ISL 484711, EPI ISL 484711, EPI ISL 484724, EPI ISL 484753, EPI ISL 484754, EPI ISL 484719, EPI ISL 484719, EPI ISL 484754, EPI ISL 484754 EPI ISL 484762, EPI ISL 484763, EPI ISL 484768, EPI ISL 484769, EPI ISL 484770, EPI ISL 484776, EPI ISL 484779, EPI ISL 484785, EPI ISL 484789, EPI ISL 484794, EPI ISL 484794, EPI ISL 484796, EPI ISL 484796

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EPI ISL 484807, EPI ISL 484808, EPI ISL 484808, EPI ISL 484809, EPI ISL 484809, EPI ISL 484810, EPI ISL 484812, EPI ISL 484813, EPI ISL 484814, EPI ISL 484814, EPI ISL 484814, EPI ISL 484815, EPI ISL 484814, EPI ISL 484814 EPI ISL 484833, EPI ISL 484834, EPI ISL 484834, EPI ISL 484835, EPI ISL 484835, EPI ISL 484835, EPI ISL 484835, EPI ISL 484838, EPI ISL 484838, EPI ISL 484838, EPI ISL 484838, EPI ISL 484845, EPI ISL 484844, EPI ISL 484844, EPI ISL 484844, EPI ISL 484845, EPI ISL 484845, EPI ISL 484845, EPI ISL 484845, EPI ISL 484854, EPI ISL 484854, EPI ISL 484854, EPI ISL 484844, EPI ISL 484845, EPI ISL 484844, EPI ISL 484854, EPI ISL 484854 EPI ISL 484858, EPI ISL 484860, EPI ISL 484860, EPI ISL 484861, EPI ISL 484867, EPI ISL 484863, EPI ISL 484863, EPI ISL 484865, EPI ISL 484866, EPI ISL 484871, EPI ISL 484889, EPI ISL 484889, EPI ISL 484869, EPI ISL 484899, EPI ISL 484899 EPI ISL 484908, EPI ISL 484909, EPI ISL 484909, EPI ISL 484910, EPI ISL 484910, EPI ISL 484911, EPI ISL 484914, EPI ISL 484914 EPI ISL 484936, EPI ISL 484937, EPI ISL 484937, EPI ISL 484937, EPI ISL 484938, EPI ISL 484949, EPI ISL 484944, EPI ISL 484946, EPI ISL 484957, EPI ISL 484957, EPI ISL 484966, EPI ISL 484966

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EPI ISL 485004, EPI ISL 485006, EPI ISL 485006, EPI ISL 485008, EPI ISL 485008, EPI ISL 485035, EPI ISL 485036, EPI ISL 485036, EPI ISL 485036, EPI ISL 485040, EPI ISL 485040 EPI ISL 485045, EPI ISL 485045, EPI ISL 485046, EPI ISL 485054, EPI ISL 485056, EPI ISL 485077, EPI ISL 485077, EPI ISL 485067, EPI ISL 485067 EPI ISL 485127, EPI ISL 485129, EPI ISL 485129, EPI ISL 485135, EPI ISL 485135, EPI ISL 485135, EPI ISL 485146, EPI ISL 485146 EPI ISL 485174, EPI ISL 485177, EPI ISL 485177, EPI ISL 485177, EPI ISL 485185, EPI ISL 485185, EPI ISL 485185, EPI ISL 485193, EPI ISL 485193, EPI ISL 485194, EPI ISL 485194, EPI ISL 485195, EPI ISL 485195, EPI ISL 485207, EPI ISL 485207 EPI ISL 485240, EPI ISL 485240, EPI ISL 485243, EPI ISL 485243, EPI ISL 485244, EPI ISL 485270, EPI ISL 485264, EPI ISL 485264, EPI ISL 485259, EPI ISL 485259, EPI ISL 485264, EPI ISL 485264 EPI ISL 485284, EPI ISL 485286, EPI ISL 485286, EPI ISL 485287, EPI ISL 485287, EPI ISL 485299, EPI ISL 485299, EPI ISL 485299, EPI ISL 485317, EPI ISL 485317, EPI ISL 485317, EPI ISL 485309, EPI ISL 485309, EPI ISL 485309, EPI ISL 485317, EPI ISL 485317, EPI ISL 485317, EPI ISL 485329, EPI ISL 485333, EPI ISL 485334, EPI ISL 485335, EPI ISL 485336, EPI ISL 485336 EPĪ ISL 485367, EPĪ ISL 485368, EPĪ ISL 485369, EPĪ ISL 485370, EPĪ ISL 485371, EPĪ ISL 485372, EPĪ ISL 485372, EPĪ ISL 485373, EPĪ ISL 485374, EPĪ ISL 485373, EPĪ ISL 485373, EPĪ ISL 485387, EPĪ ISL 485387

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EPI_ISL_485399	Institute of Human Genetics, Polish Academy of	Institute of Human Genetics, Polish Academy of Sciences	Szymon Hryhorowicz, Adam Ustaszewski, Marta Kaczmarek-Ryś, Emillia Lis, Ewa Ziętkiewicz, Michał Witt, Andrzej Plawski
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EPI_ISL_485604, EPI_ISL_485605, EPI_ISL_485606, EPI_ISL_485607, EPI_ISL_485608, EPI_ISL_485609	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	PHE Covid Sequencing Team
EPI_ISL_485635, EPI_ISL_485708, EPI_ISL_485710	Institut Pasteur Dakar	Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
EPI_ISL_485712 EPI_ISL_485713, EPI_ISL_485715, EPI_ISL_485716, EPI_ISL_485717	Institut Pasteur Institut Pasteur Dakar	Institut Pasteur de Dakar Institut Pasteur de Dakar	Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall. Ndongo Dia, Moussa Moise Diagne, Mamadou diop, Marie Henriette Dior Ndione, Mamadou Malado Jallow, Safietou Sanke, Ousmane Faye, Amadou Alpha Sall.
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EPI_ISL_485810	Institut für Virologie und Epidemiologie der Viruskrankheiten, Universitätsklinikum Tübingen	NGS Competence Center Tübingen, Institut für Medizinische Mikrobiologie und Hygiene, Universitätsklinikum Tübingen	Angelov et al.
EPI_ISL_485838, EPI_ISL_485839, EPI_IS	SL_485816, EPI_ISL_485817, EPI_ISL_485818, EPI_ISL SL_485840, EPI_ISL_485842, EPI_ISL_485843, EPI_ISL	_485819, EPI_ISL_485820, EPI_ISL_485821, EPI_ISL_485822, EPI_ISL_4858	23, EPI_ISL_485824, EPI_ISL_485825, EPI_ISL_485826, EPI_ISL_485827, EPI_ISL_485828, EPI_ISL_485829, EPI_ISL_485830, EPI_ISL_485831, EPI_ISL_485832, EPI_ISL_485833, EPI_ISL_485834, EPI_ISL_485835, EPI_ISL_485836, EPI_ISL_485856, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485860, EPI_ISL_485861, EPI_ISL_485862, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485859, EPI_ISL_485861, EPI_ISL_48
see above	Virginia DCLS	Virginia DCLS	Virginia DCLS
EPI_ISL_485872	New Mexico Department of Health Scientific Laboratory Division	Center for Global Health, University of New Mexico Health Sciences Center	Daryl Domman, Kurt Schwalm, Twila Kunde, Joseph Hicks, Michael Edwards, Darrell Dinwiddie
EPI_ISL_485874, EPI_ISL_485876, EPI_IS see above	SL_485881, EPI_ISL_485885, EPI_ISL_485888, EPI_ISL River Road Testing Lab	_485889, EPI_ISL_485890, EPI_ISL_485892, EPI_ISL_485895, EPI_ISL_4858 Ginkgo Bioworks Clinical Laboratory	96, EPI_ISL_485997, EPI_ISL_485902, EPI_ISL_485903, EPI_ISL_485904 Rebecca C. Christofferson, Stephania A. Cormier, Luan V. Dinh, E. Handly Mayton, Hollis R. O'Neil, Thaya Stoufflet, Malaika Mckenzie-Bennett, James McGann, Jim Griffin, Keith Robison, Alex Plocik, Becky Schilling, Rebecca Littlefield,
	•		Michelle Spencer, Birgitte Simen
EPI ISL 485944, EPI ISL 485945, EPI IS EPI ISL 485976, EPI ISL 485977, EPI IS EPI ISL 486001, EPI ISL 486002, EPI ISL EPI ISL 486027, EPI ISL 486028, EPI IS EPI ISL 486053, EPI ISL 486054, EPI ISL EPI ISL 486078, EPI IS	SL 485946, EPI ISL 485947, EPI ISL 485948, EPI ISL SL 485978, EPI ISL 485979, EPI ISL 485980, EPI ISL SL 486003, EPI ISL 486004, EPI ISL 486005, EPI ISL SL 486029, EPI ISL 486036, EPI ISL 486032, EPI ISL SL 486055, EPI ISL 486056, EPI ISL 486057, EPI ISL	_ 485990, EP ISL 485951, EP ISL 485952, EP ISL 485953, EP ISL 485961, EP 485991, EP 485991, EP 485991, EP 485991, EP 486006, EP	26. EPI_ISL_485927, EPI_ISL_485936, EPI_ISL_485939, EPI_ISL_485930, EPI_ISL_485930, EPI_ISL_485934, EPI_ISL_485936, EPI_ISL_48
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EPI_ISL_486115, EPI_ISL_486116, EPI_ISL_486117, EPI_ISL_486118	County of Santa Clara Public Health Department	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
EPI ISL 486121, EPI ISL 486122, EPI IS EPI ISL 486149, EPI ISL 486150, EPI IS EPI ISL 486177, EPI ISL 486178, EPI IS EPI ISL 486208, EPI ISL 486209, EPI IS EPI ISL 486236, EPI ISL 486237, EPI IS	SL 486151, EPI ISL 486153, EPI ISL 486154, EPI ISL SL 486179, EPI ISL 486180, EPI ISL 486181, EPI ISL SL 486210, EPI ISL 486211, EPI ISL 486212, EPI ISL SL 486238, EPI ISL 486239, EPI ISL 486240, EPI ISL	_ 486155, EPI SL_486156, EPI SL_486157, EPI SL_486158, EPI SL_4861 _ 486182, EPI SL_486183, EPI SL_486184, EPI SL_486185, EPI SL_4861 _ 486213, EPI SL_486214, EPI SL_486215, EPI SL_486216, EPI SL_4862	30, EP_ISL_486131, EP_ISL_486132, EP_ISL_486134, EP_ISL_486137, EP_ISL_486138, EP_ISL_486149, EP_ISL_486141, EP_ISL_486143, EP_ISL_486144, EP_ISL_486146, EP_ISL_486146, EP_ISL_486147, EP_ISL_486147, EP_ISL_486160, EP_ISL_486161, EP_ISL_486161, EP_ISL_486174, EP_ISL_486161, EP_ISL_486184, EP
see above	Orange County Public Health Laboratory	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
EPI_ISL_486281, EPI_ISL_486282, EPI_ISL_486283, EPI_ISL_486284,	Humboldt County Public Health Laboratory	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
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EPI_ISL_486338 see above	San Joaquin County Public Health Lab	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
			52, EPI ISL 486354, EPI ISL 486355, EPI ISL 486356, EPI ISL 486357, EPI ISL 486357, EPI ISL 486358, EPI ISL 486360, EPI ISL 486361, EPI ISL 486363, EPI ISL 486365
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EPI_ISL_486388, EPI_ISL_486389	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
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EPI_ISL_486395	BIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486397	KC General Hospital	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486398, EPI_ISL_486399	MIMS	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486408, EPI_ISL_486409	DH	Department of Neurovirology, National Institute of Mental Health and Neuroscience (NIMHANS)	Chitra Pattabiraman, Vijayalakshmi Reddy, Harsha PK, Risha Rasheed, Shafeeq S Hameed, Manjunatha Venkataswamy, Anita Desai, Ravi Vasanthapuram
EPI_ISL_486410	Centrala laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486411	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486412	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486413, EPI_ISL_486414	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486415	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486416	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovite, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486417	Centrala laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamikelis, Kaspars Megnis, Monta Ustinova, Nikita Zrelovs, Vita Rovite, Stella Lapiņa, Jana Osīte, Marta Priedīte, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486418	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamikelis, Kaspars Megnis, Monta Ustinova, Nikita Zrelovs, Vita Rovite, Stella Lapina, Jana Osite, Marta Priedite, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486419	Centrālā laboratorija	Latvian Biomedical Research and Study Centre	lvars Silamikelis, Kaspars Megnis, Monta Ustinova, Nikita Zrelovs, Vita Rovite, Stella Lapina, Jana Osite, Marta Priedite, Uga Dumpis, Jānis Kloviņš
EPI_ISL_486420, EPI_ISL_486421 EPI_ISL_486422, EPI_ISL_486423,	Centrālā laboratorija	Latvian Biomedical Research and Study Centre Latvian Biomedical Research and Study Centre	Ivars Silamikelis, Kaspars Megnis, Monta Ustinova, Nikita Zrelov, Virla Rovite, Stella Lapina, Jana Osite, Marta Priedite, Uga Dumpis, Jánis Klovins Vars Silamikelis, Kaspars Megnis, Monta Ustinova, Nikita Zrelov, Virla Rovite, Stella Lapina, Jana Osite, Marta Priedite, Uga Dumpis, Jánis Klovins Silamikelis, Varsa Savieta Silamikelis, Savieta
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EPI_ISL_486815, EPI_ISL_486816, EPI_I	SL_486817, EPI_ISL_486818, EPI_ISL_486819, EPI_ISL	486820, EPI_ISL_486821, EPI_ISL_486822, EPI_ISL_486823, EPI_ISL_4868	24, EPI_ISL_486825, EPI_ISL_486826, EPI_ISL_486827, EPI_ISL_486828, EPI_ISL_486829
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EPI_ISL_486897, EPI_ISL_486898, EPI_I	SL_486899, EPI_ISL_486900, EPI_ISL_486901, EPI_ISL	_486902, EPI_ISL_486903, EPI_ISL_486904, EPI_ISL_486905, EPI_ISL_4869	06, EPI_ISL_486907, EPI_ISL_486908, EPI_ISL_486909, EPI_ISL_486910, EPI_ISL_486911
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EPI_ISL_487382, EPI_ISL_487383, EPI_ISL_487384, EPI_ISL_487385	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_487386, EPI_ISL_487392, EPI_ISL_487393, EPI_ISL_487394, EPI_ISL_487395, EPI_ISL_487396	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_487398, EPI_ISL_487399, EPI_ISL_487400, EPI_	SL_487401, EPI_ISL_487402, EPI_ISL_487403, EPI_ISL_487404, EPI_ISL_4 ISL_487427, EPI_ISL_487429, EPI_ISL_487430, EPI_ISL_487431	87405, EPI_ISL_487406, EPI_ISL_487407, EPI_	ISL_487408, EPI_ISL_487409, EPI_ISL_487410, EPI_ISL_487412, EPI_ISL_487413, EPI_ISL_487414, EPI_ISL_487416, EPI_ISL_487417, EPI_ISL_487418, EPI_ISL_487419, EPI_ISL_487420, EPI_ISL_487421, EPI_ISL_487422, EPI_ISL_487423,
see above	Labor Kneißler GmbH & Co. KG	Heinrich Pette Institute, Leibniz Institute for Experimental Virology	Thomas Günther, Adam Grundhoff, Manja Czech-Sioli, Nicole Fischer, Matthias Ottinger, Melanie M. Brinkmann
EPI_ISL_487432, EPI_ISL_487433, EPI_ISL_487434, EPI_ISL_487435, EPI_ISL_487436	Queen Astrid Military Hospital	Institute of Tropical Medicine	Philippe Selhorst, Colin Anthony
EPI_ISL_487446, EPI_ISL_487447, EPI_ISL_487448, EPI_	SL_487449, EPI_ISL_487450, EPI_ISL_487451, EPI_ISL_487452, EPI_ISL_4	87453, EPI_ISL_487454, EPI_ISL_487455, EPI_	ISL_487456, EPI_ISL_487457, EPI_ISL_487458, EPI_ISL_487459, EPI_ISL_487460, EPI_ISL_487461, EPI_ISL_487462, EPI_ISL_487463, EPI_ISL_487464, EPI_ISL_487465, EPI_ISL_487466
see above	CICM-Mali	Bundeswehr Institut of Microbiology	Kouriba, Dürr, Sangaré, Rehn, Traoré, Bestehorn-Willmann, Walter, Quedraogo, Zimmermann, Maiga, Heitzer, Sogodogo, Antwerpen, Wölfel
EPI_ISL_487524	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487525	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487526, EPI_ISL_487527, EPI_ISL_487528	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487529	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitico on behalf of the Wellcome Sanger Institution Sanger Institution Research (2010-19 Surveillance Team (Intrip://www.sanger.ac.uk/covid-team)
EPI_ISL_487530, EPI_ISL_487531, EPI_ISL_487532, EPI_ISL_487533, EPI_ISL_487535, EPI_ISL_487536	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487537	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution Research (2010-19 Surveillance Team (Intrip://www.sanger.ac.uk/covid-team)
EPI_ISL_487538, EPI_ISL_487539	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487540	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487541, EPI_ISL_487542, EPI_ISL_487543, EPI_ISL_487544, EPI_ISL_487545, EPI_ISL_487547, EPI_ISL_487549	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487550	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Jan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487551, EPI_ISL_487552, EPI_ISL_487553, EPI_ISL_487554, EPI_ISL_487555	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487558, EPI_ISL_487559	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford,
EPI_ISL_487560, EPI_ISL_487561	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-	John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncaleves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John
EPI_ISL_487562	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	19 Genomics UK Consortium Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sillitoe on behalf of the Welicome Sanger institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford,
EDI ICI 407563	DHE Couth Wort Regional Laboratory National Infection Consico	Wallcome Sanger Institute for the COVID	John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Stephonic Mutchings Hangeb Durget De Determine Wiles Bury (food light) Hanges and May Hanges De Determine April 19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

PHE South West Regional Laboratory, National Infection Service Wellcome Sanger Institute for the COVID- Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John

		19 Genomics UK Consortium	Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487564	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Welicome Sanger Institute COVID-19 Surveillance Team (Intri)/www.sanger.ac.uk/covid-team)
EPI_ISL_487565, EPI_ISL_487566, EPI_ISL_487567	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487568	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (Intri-)/www.sanger.ac.uk/covid-team)
EPI_ISL_487570, EPI_ISL_487571	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487572	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487573, EPI_ISL_487574, EPI_ISL_487575, EPI_ISL_487576, EPI_ISL_487577	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487578	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Anato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, David K. Jackson, Ian Johnston, Ian Johnst
EPI_ISL_487579, EPI_ISL_487580	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487581, EPI_ISL_487582	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford,
EPI_ISL_487583	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487584, EPI_ISL_487585	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford,
EPI_ISL_487586, EPI_ISL_487587, EPI_ISL_487588	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487589	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford,
EPI_ISL_487590, EPI_ISL_487591, EPI_ISL_487592, EPI_ISL_487594	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487595	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutili, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487596	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487597	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dinkilitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487598, EPI_ISL_487599	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487600	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institution Sanger Institution.
EPI_ISL_487601, EPI_ISL_487602, EPI_ISL_487604, EPI_ISL_487605	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487606, EPI_ISL_487607	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Anato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dinkilitico on behalf of the Wellcome Sanger Institution Sanger Institution Research (2010–19 Surveillance Team (Intric)/www.sanger.ac.uk/covid-team)
EPI_ISL_487608, EPI_ISL_487610, EPI_ISL_487611, EPI_ISL_487612, EPI_ISL_487613	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487615, EPI_ISL_487616	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitice on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (Intrij/Iwww.sanger.ac.uk/covid-team)
EPI_ISL_487617, EPI_ISL_487618, EPI_ISL_487619, EPI_ISL_487620, EPI_ISL_487622, EPI_ISL_487623, EPI_ISL_487624	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487625, EPI_ISL_487626, EPI_ISL_487627, EPI_ISL_487628	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dinkilitice on behalf of the Wellcome Sanger Institution Sanger Institution Evan (Hillicy Jawan Sanger, ac. uk/covid-team)
EPI_ISL_487629	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487630, EPI_ISL_487631, EPI_ISL_487632, EPI_ISL_487633	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Anato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dinkillitice on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (Intrij./www.sanger.ac.uk/covid-team)
EPI_ISL_487634	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_487635, EPI_ISL_487636, EPI_ISL_487637, EPI_ISL_487638, EPI_ISL_487639, EPI_ISL_487641, EPI_ISL_487643, EPI_ISL_487646	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Anato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johnston, Dinkillitice on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (Intrij./www.sanger.ac.uk/covid-team)
EPI ISL. 487647, EPI ISL. 487648, EPI ISL. 487649, EPI ISL. 487676, EPI ISL. 487676, EPI ISL. 487676, EPI ISL. 487676, EPI ISL. 487767, EPI ISL. 487702, EPI ISL. 487702, EPI ISL. 487725, EPI ISL. 487736, EPI ISL. 487772, EPI ISL. 487753, EPI ISL. 487752, EPI ISL. 487753, EPI ISL. 487754, EPI ISL. 487754, EPI ISL. 487769, EPI ISL. 487769, EPI ISL. 487806, EPI ISL. 487854, EPI ISL. 487866, EPI ISL. 487966, EPI ISL. 4879676, EPI ISL. 487966, EPI ISL. 4879676, EPI ISL. 48796788, EPI ISL. 487968, EPI ISL. 487988, EPI ISL. 48798	Si, 487677, EPI, ISL, 487678, EPI, ISL, 487679, EPI, ISL, 487680, EPI, ISL, 485763, EPI, ISL, 487704, EPI, ISL, 487704, EPI, ISL, 487704, EPI, ISL, 487705, EPI, ISL, 487760, EPI, ISL, 487750, EPI, ISL, 487750, EPI, ISL, 487751, EPI, ISL, 487750, EPI, ISL, 487750, EPI, ISL, 487760, EPI, ISL, 487760, EPI, ISL, 487760, EPI, ISL, 487600,	7681, EPI, ISL, 487682, EPI, ISL, 487683, EPI, 17707, EPI, ISL, 487708, EPI, ISL, 487708, EPI, 181, 487708, EPI, ISL, 487703, EPI, 17759, EPI, ISL, 487734, EPI, 17759, EPI, ISL, 487763, EPI, ISL, 487764, EPI, 1811, EPI, 181, 487812, EPI, ISL, 48788, EPI, 1811, EPI, 181, 487812, EPI, 181, 487813, EPI, 1836, EPI, ISL, 487838, EPI, 1864, EPI, 181, 487862, EPI, 181, 487863, EPI, 181, 487863, EPI, 181, 487863, EPI, 181, 487863, EPI, 181, 487963, EPI, 181, 487913, EPI, 181, 487913, EPI, 181, 487913, EPI, 181, 487913, EPI, 181, 487964, EPI, 1816, EPI, 181, 487964, EPI, 181, 487964, EPI, 181, 487964, EPI, 181, 487966, EPI, 181,	ISL 487658, EPI ISL 487660, EPI ISL 487661, EPI ISL 487662, EPI ISL 487664, EPI ISL 487665, EPI ISL 487666, EPI ISL 487666, EPI ISL 487669, EPI ISL 487670, EPI ISL 487670, EPI ISL 487671, EPI ISL 487673, ISL 487684, EPI ISL 487686, EPI ISL 487746, EPI ISL 487736, EPI ISL 487737, EPI ISL 487737, EPI ISL 487737, EPI ISL 487737, EPI ISL 487736, EPI ISL 487737, EPI ISL 487736, EPI ISL 487736, EPI ISL 487736, EPI ISL 487737, EPI ISL 487737, EPI ISL 487736, EPI ISL 487736, EPI ISL 487737, EPI ISL 487736, EPI ISL 487736, EPI ISL 487736, EPI ISL 487737, EPI ISL 487736, EPI ISL 487736, EPI ISL 487736, EPI ISL 487737, EPI ISL 487736, EPI ISL 487373, EPI ISL 487804, EPI ISL 487806, EPI IS
see above	virology Department, Royal Infirmary of Edinburgh, NHS Lothian /	wellcome Sanger Institute for the COVID-	McHugh M, Dewar R, Rooke S, O'Toole Á, Scher E, Hill V, McCrone JT, Colquhoun R, Yu X, Jackson B, Rambaut A, Templeton K and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston,

EPI_ISL_488003, EPI_ISL_488004, EPI_ISL_488005, EPI_ISL_488005, EPI_ISL_488007, EPI_ISL_488006, EPI_ISL_488007, EPI_ISL_488007, EPI_ISL_488008, EPI_ISL_488008, EPI_ISL_488007, EPI_ISL_488008, EPI_ISL_488038, EPI_ISL_488038

Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh 19 Genomics UK Consortium Wellcome Sanger Institute for the COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

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EPI ISL 488172, EPI ISL 488174, EPI ISL 488175, EPI ISL 488176, EPI ISL 488179, EPI ISL 488180, EPI ISL 488181, EPI ISL 488182, EPI ISL 488183, EPI ISL 488184, EPI ISL 488184 Wellcome Sanger Institute for the COVID- Chris Duncan, Sheia Waugh, Shirelle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve NU-OMICS DNA Sequencing research facility. Northumbria University Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) 19 Genomics UK Consortium EPI ISL 488187, EPI ISL 488187, EPI ISL 488188, EPI ISL 488189, EPI ISL 488189, EPI ISL 488199, EPI ISL 488199, EPI ISL 488197, EPI ISL 488194, EPI ISL 488194, EPI ISL 488194, EPI ISL 488197, EPI ISL 488194, EPI ISL 488205, EPI ISL 488206, EPI ISL 488207, EPI ISL 488208, EPI ISL 488194, EPI ISL 488194 FPI ISI 488218, FPI ISI 488219, FPI ISI 488220, FPI ISI 488220, FPI ISI 488220, FPI ISI 488221, FPI ISI 488222, FPI ISI 488223, FPI ISI 488223, FPI ISI 488223, FPI ISI 488234, FPI ISI 488237, FPI ISI 488237, FPI ISI 488238, FPI ISI 488238, FPI ISI 488248, FPI ISI 488240, FPI ISI 488238, FPI ISI 488238 EPI ISL 488246, EPI ISL 488246, EPI ISL 488246, EPI ISL 488254, EPI ISL 488254, EPI ISL 488255, EPI ISL 488255 EPI ISL 488273, EPI ISL 488274, EPI ISL 488274, EPI ISL 488275, EPI ISL 488274, EPI ISL 488297, EPI ISL 488297, EPI ISL 488298, EPI ISL 488299, EPI ISL 488297, EPI ISL 488299, EPI ISL 488297, EPI ISL 488297 FP ISL 488304 FP ISL 488305 FP ISL 488305 FP ISL 488305 FP ISL 488307 FP ISL 488307 FP ISL 488307 FP ISL 488327 FP ISL 488328 FP ISL 488327 FP ISL 488328 FP ISL 488327 FP ISL 488328 FP EPI ISL 488331, EPI ISL 488335, EPI ISL 488336, EPI ISL 488336 EPÍS. 48836. EPÍS. 48837. EPÍS. 48838. EPÍS. 48839. EPÍS. EPI ISL 488429, EPI ISL 488430, EPI ISL 488444, EPI ISL 488445, EPI ISL 488450, EPI ISL 488445, EPI ISL 48845, EPI ISL EPI ISL 488455 Wellcome Sanger Institute for the COVIDStephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vinond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Jan Johnston, Dominic Kwiatkowski, Cordelia Langford, John see above PHE South West Regional Laboratory, National Infection Service Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) 19 Genomics UK Consortium EPI ISL 488456, EPI ISL 488457, EPI ISL 488457, EPI ISL 488457, EPI ISL 488458, EPI ISL 488459, EPI ISL 488465, EPI ISL 488466, EPI ISL 488470, EPI ISL 488470, EPI ISL 488473, EPI ISL 488475, EPI ISL 488475, EPI ISL 488476, EPI ISL 488476, EPI ISL 488476, EPI ISL 488478, EPI ISL 488467, EPI ISL 488468, EPI ISL 488467, EPI ISL 488479, EPI ISL 488479 FPI ISI 488481, FPI ISI 488482, FPI ISI 488483, FPI ISI 488485, FPI ISI 488485 EPI ISL 488509, EPI ISL 488510, EPI ISL 488512, EPI ISL 488512, EPI ISL 488512, EPI ISL 488512, EPI ISL 488522, EPI ISL 488522, EPI ISL 488522, EPI ISL 488523, EPI ISL 488523 EPI ISL 488533, EPI ISL 488534, EPI ISL 488534, EPI ISL 488534, EPI ISL 488535, EPI ISL 488545, EPI ISL 488547, EPI ISL 488548, EPI ISL 488547, EPI ISL 488547, EPI ISL 488548, EPI ISL 488548, EPI ISL 488548, EPI ISL 488548, EPI ISL 488554, EPI ISL 488556, EPI ISL 488548, EPI ISL 488548, EPI ISL 488548, EPI ISL 488557, EPI ISL 488558, EPI ISL 488548, EPI ISL 488558, EPI ISL 488548, EPI ISL 488548 FP ISL 488550, FPI ISL 488550, FPI ISL 488560, FPI ISL 488561, FPI ISL 488563, FPI ISL 488564, FPI ISL 488564, FPI ISL 488565, FPI ISL 488565, FPI ISL 488565, FPI ISL 488570, FPI ISL 488580, FPI ISL 488580, FPI ISL 488570, EPI ISL 488594, EPI ISL 4885954, EPI ISL 488595, EPI ISL 488595, EPI ISL 488597, EPI ISL 488599, EPI ISL 48859 EPI ISL 488609, EPI ISL 488609, EPI ISL 488610, EPI ISL 488611, EPI ISL 488611, EPI ISL 488613, EPI ISL 488623, EPI ISL 488633, EPI ISL 488633, EPI ISL 488633, EPI ISL 488633, EPI ISL 488634, EPI ISL 488634, EPI ISL 488635, EPI ISL 4886364, EPI ISL 488635, EPI ISL 4886364, EPI ISL 488649, EPI ISL 488649, EPI ISL 488649, EPI ISL 488653, EPI ISL 488653, EPI ISL 488654, EPI ISL 488655, EPI ISL 488655, EPI ISL 488656, EPI ISL 488658, EPI ISL 4886 EP ISL 488669, EP ISL 488669, EP ISL 488660, EP ISL 488660, EP ISL 488666, EP ISL 488667, EP ISL 488669, EP ISL 488673, EP ISL 488673, EP ISL 488669, EP ISL 488673, EP ISL EPI ISL 488683, EPI ISL 488684, EPI ISL 488695, EPI ISL 488695, EPI ISL 488695, EPI ISL 488696, EPI ISL 488708, EPI ISL 488708, EPI ISL 488709, EPI ISL 488709, EPI ISL 488709, EPI ISL 488709, EPI ISL 488719, EPI ISL 488719 EPI ISL 488731, EPI ISL 488732, EPI ISL 488733, EPI ISL 488733, EPI ISL 488735, EPI ISL 488735, EPI ISL 488735, EPI ISL 488735, EPI ISL 488736, EPI ISL 488736, EPI ISL 488737, EPI ISL 488737, EPI ISL 488737, EPI ISL 488746, EPI ISL 488746, EPI ISL 488757, EPI ISL 488757, EPI ISL 488757, EPI ISL 488767, EPI ISL 488767 EPI ISL 488780, EPI ISL 488782, EPI ISL 488782, EPI ISL 488783, EPI ISL 488783, EPI ISL 488784, EPI ISL 488794, EPI ISL 488798, EPI ISL 488799, EPI ISL 488799, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794, EPI ISL 488794, EPI ISL 488798, EPI ISL 488794, EPI ISL 488794 EPI ISL 488805, EPI ISL 488807, EPI ISL 488824, EPI ISL 488824, EPI ISL 488825, EPI ISL 488825, EPI ISL 488825, EPI ISL 488825, EPI ISL 488826, EPI ISL 488826, EPI ISL 488827, EPI ISL 488827, EPI ISL 488828, EPI ISL 488828 EPI ISL 488829, EPI ISL 488830, EPI ISL 488831, EPI ISL 488832, EPI ISL 488834, EPI ISL 488835, EPI ISL 488836 see above NU-OMICS DNA Sequencing research facility. Northumbria University Wellcome Sanger Institute for the COVID-Chris Duncan, Sheia Waugh, Shirelle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex, Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) 19 Genomics UK Consortium EPI_ISL_488837, EPI_ISL_488838, EPI_ISL_488839 Microbiology Department, Hereford County Hospital Wellcome Sanger Institute for the COVID-Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. 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Jackson, Ian Johnston, Dominic Kwiatkowski Microbiology Department, Hereford County Hospital Wellcome Sanger Institute for the COVID-Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) 19 Genomics UK Consortiu Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI ISL 488863 Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium Wellcome Sanger Institute for the COVID-EPI_ISL_488865, EPI_ISL_488866, EPI_ISL_488867, Microbiology Department, Hereford County Hospital Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski FPI ISI 488868, EPI ISL 488869, EPI ISL 488870. 19 Genomics LIK Consortium Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI_ISL_488871 EPI ISL 488872 Department of Medical Microbiology, Western Sussex Hospitals NHS Wellcome Sanger Institute for the COVID-Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Ionathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Jan Johnston, Dominic Kwiatkowsk Foundation Trust, St Richard's Hospital 19 Genomics LIK Consortium Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Alison Johnson, Venkat Sivaprakasam, Fenella Halstead, Jane Thomas, Wendy Hogsden, Samantha Lamb and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Jan Johnston, Dominic Kwiatkowski EPI ISL 488873 Microbiology Department, Hereford County Hospital Wellcome Sanger Institute for the COVID-19 Genomics UK Consortiun

Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K

Wellcome Sanger Institute for the COVID-Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) Wellcome Sanger Institute for the COVID-

Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, Johr Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

EPI ISL 488879, EPI ISL 488880, EPI ISL 488880, EPI ISL 488881, EPI ISL 488882, EPI ISL 48889, EPI ISL 48890, EPI ISL 48889, E EPI ISL 488903, EPI ISL 488904, EPI ISL 488904, EPI ISL 488905, EPI ISL 488905, EPI ISL 488917, EPI ISL 488918, EPI ISL 488917, EPI ISL 488917, EPI ISL 488917, EPI ISL 488918, EPI ISL 488917, EPI ISL 488917, EPI ISL 488918, EPI ISL 488918, EPI ISL 488917, EPI ISL 488917, EPI ISL 488918, EPI ISL 488918 EP ISL 488927, EP ISL 488928, EP ISL 488928, EP ISL 488928, EP ISL 488937, EP ISL 488937, EP ISL 488937, EP ISL 488937, EP ISL 488938, EP ISL 488938, EP ISL 488947, EP ISL 488948, EP ISL 488937, EP ISL 488948, EP ISL 488948, EP ISL 488948, EP ISL 488957, EP ISL 488958, EP ISL EPI ISL 488976, EPI ISL 488987, EPI ISL 4889897, EPI ISL 488987, EPI ISL 488987, EPI ISL 488987, EPI ISL 488988, EPI ISL 488987, EPI ISL 488988, EPI ISL 488987, EPI ISL 488988, EPI ISL 488997, EPI ISL 488997, EPI ISL 488998, EPI ISL 488997, EPI ISL 488998, EPI ISL 4889988, EPI ISL 488998, EPI ISL 488998, EPI ISL 488998, EPI ISL 4889

see ahove Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / Wellcome Sanger Institute for the COVID-McHugh M, Dewar R, Rooke S, O'Toole Á, Scher E, Hill V, McCrone JT, Colquhoun R, Yu X, Jackson B, Rambaut A, Templeton K and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston School of Biological Sciences, University of Edinburgh 19 Genomics UK Consortium Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI ISL 489065, EPI ISL 489067, EPI ISL 489067, EPI ISL 489068, EPI ISL 489076, EPI ISL 489077, EPI ISL 489077, EPI ISL 489073, EPI ISL 489089, EPI ISL 489089, EPI ISL 489074, EPI ISL 489074, EPI ISL 489074, EPI ISL 489089, EPI ISL 489089, EPI ISL 489089, EPI ISL 489074, EPI ISL 489089, EPI ISL 489089, EPI ISL 489074, EPI ISL 489074, EPI ISL 489074, EPI ISL 489074, EPI ISL 489089, EPI ISL 489074, EPI ISL 489074

EPISL_489093, EPISL_489094, EPISL_489096, EPISL_489096, EPISL_489097, EPISL_489097, EPISL_489100, EPISL_489107, EP NU-OMICS DNA Sequencing research facility. Northumbria University Wellcome Sanger Institute for the COVID-Chris Duncan, Sheia Waugh, Shirelle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve see above 19 Genomics UK Consortium Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian

Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI ISL 489120 PHE South West Regional Laboratory, National Infection Service Wellcome Sanger Institute for the COVID-Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) 19 Genomics UK Consortium

EPI ISL 489025, EPI ISL 489036, EPI ISL 489038, EPI ISL 489038

EPI_ISL_488874, EPI_ISL_488876

EPI ISL 488877

Regional Virus Laboratory, Belfast Health and Social Care Trust

PHE South West Regional Laboratory, National Infection Service

19 Genomics UK Consortium

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EPI ISL 489353, EPI ISL 489354, EPI ISL 489355, EPI ISL 489355, EPI ISL 489355, EPI ISL 489355, EPI ISL 489367, EPI ISL 489367, EPI ISL 489377, EPI ISL 489378, EPI ISL 489378, EPI ISL 489377, EPI ISL 489377

EPÎ ISL 489049, EPÎ ISL 489050, EPÎ ISL 489051, EPÎ ISL 489051, EPÎ ISL 489052, EPÎ ISL 489053, EPÎ ISL 489054, EPÎ ISL 489055, EPÎ ISL 489056, EPÎ ISL 489059, EPÎ ISL 489059, EPÎ ISL 489050, EPÎ ISL 489059, EPÎ ISL 489059, EPÎ ISL 489059, EPÎ ISL 489050, EPÎ ISL 489059, EPÎ ISL 489059

EPI_ISL_489121, EPI_ISL_489122, EPI_ISL_489122, EPI_ISL_489123, EPI_ISL_489123, EPI_ISL_489123, EPI_ISL_489132, EPI_ISL_489134, EPI_ISL_489144, EPI_ISL_489135, EPI_ISL_489137, EPI_ISL_489137, EPI_ISL_489137, EPI_ISL_489139, EPI_ISL_489140, EPI_ISL_489140, EPI_ISL_489142, EPI_ISL_489144, EPI_ISL_489144, EPI_ISL_489144, EPI_ISL_489144, EPI_ISL_489149, EPI_ISL_489137, EPI_ISL_489137, EPI_ISL_489137, EPI_ISL_489139, EPI_ISL_489149, EPI_ISL_489149 FPI ISI 489151, FPI ISI 489153, FPI ISI 489154, FPI ISI 489155 NU-OMICS DNA Sequencing research facility, Northumbria University Wellcome Sanger Institute for the COVID- Chris Duncan, Sheia Waugh, Shirelle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve

19 Genomics UK Consortium Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI ISL 489156, EPI ISL 489160, EPI ISL 489160, EPI ISL 489162, EPI ISL 489162, EPI ISL 489186, EPI ISL 489195, EPI ISL 489197, EPI ISL 489197 EPÎSL 489203, EPÎSL 489204, EPÎSL 489204, EPÎSL 489205, EPÎSL 489206, EPÎSL 489206, EPÎSL 489217, EPÎSL 489217, EPÎSL 489217, EPÎSL 489217, EPÎSL 489218, EPÎSL 489218, EPÎSL 489218, EPÎSL 489219, EP

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Regional Virus Laboratory, Belfast Health and Social Care Trust Wellcome Sanger Institute for the COVID- Conall McCaughey, James McKenna, Tanya Curran, Susan Feeney, Alison Watt, Ciara Cox, Mairead Connor, Zoltan Molnar, David Simpson, Derek Fairley; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K 19 Genomics UK Consortium Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team.

EPI ISL 489380 Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lilv Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee NHSGGC West of Scotland Specialist Virology Centre / MRC-University Wellcome Sanger Institute for the COVID-

	of Glasgow Centre for Virus Research	19 Genomics UK Consortium	Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489381, EPI_ISL_489382, EPI_ISL_489383, EPI_ISL_489384, EPI_ISL_489386, EPI_ISL_489387, EPI_ISL_489390	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordella Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489391, EPI_ISL_489392	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489394, EPI_ISL_489395	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordella Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489396	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489397	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489401, EPI_ISL_489407, EPI_ISL_489408	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489409, EPI_ISL_489411, EPI_ISL_489414, EPI_ISL_489415, EPI_ISL_489416	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Chartotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489418	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489420, EPI_ISL_489425, EPI_ISL_489427, EPI_ISL_489428	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489429	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489430, EPI_ISL_489431, EPI_ISL_489432, EPI_ISL_489435, EPI_ISL_489436, EPI_ISL_489437, EPI_ISL_489438	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489442	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489444, EPI_ISL_489447, EPI_ISL_489448	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489449	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489451, EPI_ISL_489452, EPI_ISL_489453, EPI_ISL_489454	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489455	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489455, EPI_ISL_489457, EPI_ISL_489458, EPI_ISL_489461, EPI_ISL_489462, EPI_ISL_489465, EPI_ISL_489466, EPI_ISL_489467, EPI_ISL_489468, EPI_ISL_489469	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489470	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordella Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489472, EPI_ISL_489473, EPI_ISL_489475, EPI_ISL_489477, EPI_ISL_489478, EPI_ISL_489479	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489480	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Momikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489481, EPI_ISL_489482, EPI_ISL_489483, EPI_ISL_489484, EPI_ISL_489485, EPI_ISL_489486, EPI_ISL_489487, EPI_ISL_489488	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489489	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI ISL 489490, EPI ISL 489490, EPI ISL 489491, EPI ISL 489492, EPI ISL 489493, EPI ISL 489494, EPI ISL 489494, EPI ISL 489496, EPI ISL 489517, EPI ISL 489518, EPI ISL 489527, EPI ISL 489528, EPI ISL 489529, EPI ISL 489529					
see above	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K Jakson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team.cu/kcovid-team.cu/kcovid-team.		
EPI_ISL_489536, EPI_ISL_489537	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)		
EPI_ISL_489540, EPI_ISL_489541	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Survey (Sanger Caller), Survey (Sanger Cal		
EPI_ISL_489543	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.anger-ac.uk/covid-team)		
EPI_ISL_489544, EPI_ISL_489545, EPI_ISL_489546	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID-	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian		

Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex

of Glasgow Centre for Virus Research

19 Genomics UK Consortium

	Consortiur

NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney

NSW Health Pathology - Institute of Clinical Pathology and Medical Research;

EPI_ISL_490040, EPI_ISL_490041, EPI_ISL_490042

EPI_ISL_490043

South Eastern Area Laboratory Services (SEALS)

Pathology North Hunter- NSW Health Pathology

Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19

Surveillance Team (http://www.sanger.ac.uk/covid-team)

CIDM-PH et al.

CIDM-PH et al.

Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI_ISL_489547 NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasqow Centre for Virus Research 19 Genomics UK Consortium

			Aderton, note to Aniado, Jonia Gonzárez, Cuan harrisan, porto El jucasan, lan junisano, portina Extracorporação, consente caração y junior similar de la defenda do de venicione danger institute control de venicione da venicio	
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see above	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Luke W Meredith, M. Estée Tőrők , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiaktowski, Cordelia Langford, John Sillitoe on behalf of the Welicome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)	
EPI ISL 489642, EPI ISL 489643, EPI ISL 489647, EPI	ISL 489648, EPI ISL 489649, EPI ISL 489650, EPI ISL 489651, EPI ISL 48	89654, EPI ISL 489656, EPI ISL 489657, EPI IS	SL 489593, EPI ISL 489594, EPI ISL 489595, EPI ISL 489596, EPI ISL 489597, EPI ISL 489598, EPI ISL 489599, EPI ISL 489600, EPI ISL 489601, EPI ISL 489602, EPI ISL 489603, EPI ISL 489604, EPI ISL 489606, EPI ISL 489608, SL 499624, EPI ISL 489625, EPI ISL 489626, EPI ISL 489627, EPI ISL 489627, EPI ISL 489628, EPI ISL 48962866, EPI ISL 4896286, EPI ISL 48962869, EPI ISL 489628, EPI ISL 489628, EPI ISL 48962869, EPI ISL 489628, EPI ISL	
see above	NHSGGC West of Scotland Specialist Virology Centre / MRC-University of Glasgow Centre for Virus Research	Wellcome Sanger Institute for the COVID- 19 Genomics UK Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Alice Broos, Emma Thomson and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)	
EPI_ISL_489708	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague		
EPI_ISL_489709	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	and Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_489710, EPI_ISL_489711, EPI_ISL_489712, EPI_ EPI_ISL_489754, EPI_ISL_489756, EPI_ISL_489758, EPI_ EPI_ISL_489788, EPI_ISL_489789, EPI_ISL_489790, EPI_	ISL_489716, EPI_ISL_489717, EPI_ISL_489718, EPI_ISL_489720, EPI_ISL_41 ISL_489759, EPI_ISL_489760, EPI_ISL_489761, EPI_ISL_489762, EPI_ISL_41 ISL_489791, EPI_ISL_489792, EPI_ISL_489793, EPI_ISL_489794, EPI_ISL_41		SL_489727, EPI_ISL_489728, EPI_ISL_489729, EPI_ISL_489730, EPI_ISL_489731, EPI_ISL_489733, EPI_ISL_489734, EPI_ISL_489737, EPI_ISL_489739, EPI_ISL_489741, EPI_ISL_489745, EPI_ISL_489747, EPI_ISL_489752, EPI_ISL_489765, EPI_ISL_489765, EPI_ISL_489766, EPI_ISL_489767, EPI_ISL_489769, EPI_ISL_489780, EPI_ISL_489782, EPI_ISL_489784, EPI_ISL_489785, EPI_ISL_489786, EPI_ISL_489787, EPI_ISL_489786, EPI_ISL_489786, EPI_ISL_489787, EPI	
see above	Florida Bureau of Public Health Laboratories	Florida Bureau of Public Health Laboratories	Sarah Schmedes, Jason Blanton	
EPI_ISL_489833	Clinical Microbiology Laboratory- Basurto University Hospital	Biocruces-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco	
EPI_ISL_489834	Clinical Microbiology Laboratory- Basurto University Hospital	Biocruces-Bizkaia	Mike] J. Urrutikoetxea-Gutterrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco	
EPI_ISL_489835	Clinical Microbiology Laboratory- Basurto University Hospital	Biocruces-Bizkaia	Mikel J. Urrutikoetxea-Gutierez, Ana Belén Belén de la Noz, Matxalen Vidal-García, M° Carmen Nieto Toboso, Estibaliz Ugalde-Zarraga, José Luis Díaz de Tuesta del Arco	
EPI_ISL_489836	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_489837, EPI_ISL_489838	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_489839	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_489896, EPI_ISL_489897, EPI_ISL_489898, EPI_ EPI_ISL_489925, EPI_ISL_489926, EPI_ISL_489928, EPI_ EPI_ISL_489953, EPI_ISL_489954, EPI_ISL_489955	ISL_489900, EPI_ISL_489902, EPI_ISL_489903, EPI_ISL_489905, EPI_ISL_48 ISL_489930, EPI_ISL_489931, EPI_ISL_489932, EPI_ISL_489933, EPI_ISL_48	89906, EPI_ISL_489907, EPI_ISL_489908, EPI_IS 89934, EPI_ISL_489935, EPI_ISL_489936, EPI_IS	SL 489909, EPI_ISL 489910, EPI_ISL 489911, EPI_ISL 489913, EPI_ISL 489914, EPI_ISL 489915, EPI_ISL 489915, EPI_ISL 489917, EPI_ISL 489918, EPI_ISL 489919, EPI_ISL 489920, EPI_ISL 489922, EPI_ISL 489922, EPI_ISL 489933, EPI_ISL 489933, EPI_ISL 489940, EPI_ISL 489940, EPI_ISL 489940, EPI_ISL 489940, EPI_ISL 489940, EPI_ISL 489951, EPI_ISL 489952, EPI_ISL 489951, EPI	
see above	Gundersen Molecular Diagnostics Laboratory	Kabara Cancer Research Institute	Craig S. Richmond, Paraic A. Kenny	
EPI_ISL_489956, EPI_ISL_489957, EPI_ISL_489958	Gundersen Clinical Microbiology Laboratory	Kabara Cancer Research Institute	Craig S. Richmond, Paraic A. Kenny	
EPI_ISL_489960, EPI_ISL_489961, EPI_ISL_489962, EPI_ EPI_ISL_489984, EPI_ISL_489985, EPI_ISL_489986	ISL_489963, EPI_ISL_489964, EPI_ISL_489965, EPI_ISL_489966, EPI_ISL_41	B9967, EPI_ISL_489968, EPI_ISL_489969, EPI_IS	5L_489970, EPI_ISL_489971, EPI_ISL_489972, EPI_ISL_489973, EPI_ISL_489974, EPI_ISL_489975, EPI_ISL_489976, EPI_ISL_489977, EPI_ISL_489978, EPI_ISL_489979, EPI_ISL_489980, EPI_ISL_489981, EPI_ISL_489982, EPI_ISL_489983,	
see above	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Christian Beisel, Sarah Nadeau, Ivan Topolsky, Pedro Ferreira, Philipp Jablonski, Susana Posada-Céspedes, Tobias Schär, Ina Nissen, Natascha Santacroce, Elodie Burcklen, Christiane Beckmann, Maurice Redondo, Olivier Kobel, Christoph Noppen, Sophie Seidel, Noemie Santamaria de Souza, Niko Beerenwinkel, Tanja Stadler	
EPI_ISL_489987, EPI_ISL_489988, EPI_ISL_489989, EPI_ISL_489990	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_489991	National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Thailand	National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Thailand	t of Pilailuk, Okada; Siripaporn, Phuygun; Thanutsapa, Thanadachakul; Sittiporn, Parnmen; Warawan, Wongboot; Sunthareeya, Waicharoen; Malinee, Chittaganpitch Ith,	
EPI_ISL_489992	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_489994	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_489995	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI. Lucknow	Saumva Sarkar, Dharam Veer Sinoh, Rahul Vishvkarma, Uiiala Ghoshal, Udav Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Raiender Sinoh	
			saunya sanda, roman, roman vere singir, namu varinkanna, ujara dindana, daga dindana, kavisiranka kamachandan, tapas kuma kumu, kajender singir SL. 490006, EPI, ISL, 490007, EPI, ISL, 490008, EPI, ISL, 490001, EPI, ISL, 490011, EPI, ISL, 490012	
		King Fahad Medical City		
see above EPI_ISL_490016	King Fahad Medical City Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Alosaimi, B., Naeem, A., Alghoraibi, M., Enani, M. Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490017, EPI_ISL_490018, EPI_ISL_490019	South Eastern Area Laboratory Services (SEALS)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney		
EPI_ISL_490020	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney		
EPI_ISL_490021, EPI_ISL_490022, EPI_ISL_490023, EPI	ISL_490024, EPI_ISL_490025, EPI_ISL_490026, EPI_ISL_490027, EPI_ISL_49	90028, EPI_ISL_490029, EPI_ISL_490030, EPI_IS	5L_490031, EPI_ISL_490032, EPI_ISL_490033, EPI_ISL_490034, EPI_ISL_490035	
see above	South Eastern Area Laboratory Services (SEALS)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.	
EPI_ISL_490036	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.	
EPI_ISL_490037	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.	
EPI_ISL_490038, EPI_ISL_490039	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.	
EPI ISI 490040 EPI ISI 490041 EPI ISI 490042	South Eastern Area Laboratory Services (SEALS)	NSW Health Pathology - Institute of Clinical	CIDM.PH et al	

EPI_ISL_490044	Pathology West - NSW Health Pathology	Westmead Hospital; University of Sydney NSW Health Pathology - Institute of Clinica	CIDM-PH et al.	
E11_15E_430044	ratiology West - NOW Health Facilities	Pathology and Medical Research; Westmead Hospital; University of Sydney	y	
EPI_ISL_490045	South Eastern Area Laboratory Services (SEALS)	NSW Health Pathology - Institute of Clinica Pathology and Medical Research; Westmead Hospital; University of Sydney		
EPI_ISL_490046	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinica Pathology and Medical Research; Westmead Hospital; University of Sydney	cal CIDM-PH et al.	
EPI_ISL_490047, EPI_ISL_490048	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EDITICE 4000E4 EDITICE 4000E7 EDITICE 4000E0 EDITIC	CL 4000C3 EDITICL 4000C3 EDITICL 4000C3 EDITICL 4000C4 EDITICL 4	Malaysia	ICL 40000 FN ICL 4000 FN ICL 40	
see above	National Public Health Laboratory, National Centre for Infectious Diseases	National Public Health Laboratory, Nationa Centre for Infectious Diseases	_ISL_490068, EPI_ISL_490069, EPI_ISL_490070, EPI_ISL_490071, EPI_ISL_490072, EPI_ISL_490073, EPI_ISL_490075, EPI_ISL_490076, EPI_ISL_490077, EPI_ISL_490078, EPI_ISL_490078, EPI_ISL_490079 Mak TM, Octavia S, Zhou Z, Chavatte JM, Cui L, Lin RTP	
EPI_ISL_490090	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490091	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490092	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia		
EPI_ISL_490094	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490095, EPI_ISL_490096	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J. Thayan R	
EPI_ISL_490098	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490099	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490100	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490101	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490103	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Suppiah J, Mohd-Zawawi Z, Kamel K, Kalyanasundram J, Thayan R	
EPI_ISL_490106 EPI_ISL_490109, EPI_ISL_490110, EPI_ISL_490111	CSIR-CDRI/SGPGI, Lucknow National Institute of Laboratory Medicine and Referral Center	CSIR-CDRI/SGPGI, Lucknow Genomic Research Lab, BCSIR	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iifat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shosh, A. A. W. Shark Md. Selim Alin, Upal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
EPI_ISL_490112	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague		
EPI_ISL_490113	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Shahina Akter, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
EPI_ISL_490114	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Tanjina Akhter Banu, Abu Sayeed Mohammad Mahmud, Mohammad Samiri Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
EPI_ISL_490144	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Barna Goswami, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
EPI_ISL_490164	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Iffat Jahan, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
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EPI_ISL_490166, EPI_ISL_490167, EPI_ISL_490168	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahasan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan	
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EPI_ISL_490203 EPI_ISL_490204	Clinical Microbiology Laboratory- Basurto University Hospital Clinical Microbiology Laboratory- Basurto University Hospital	Biocruces-Bizkaia Biocruces-Bizkaia	Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Toboso, Estibaliz Ugaide-Zarraga, José Luis Díaz de Tuesta del Arco Mikel J. Urrutikoetxea-Gutierrez, Ana Belén Belén de la Hoz, Matxalen Vidal-García, Mº Carmen Nieto Tohoso, Estibaliz Inaldez, Zarraga, Iosé Luis Díaz de Tuesta del Arco	
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EPI_ISL_490209	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
EPLISL_490210, EPLISL_490211, EPLISL_490212, EPLISL_490213, EPLISL_490214, EPLISL_490215, EPLISL_490216, EPLISL_490217, EPLISL_490219, EPLISL_490220	Quest Diagnostics	Q Squared Solutions - QRTP facility	Victor J Weigman	
	SL_490229, EPI_ISL_490232, EPI_ISL_490233, EPI_ISL_490234, EPI_ISL_4	90235, EPI_ISL_490236, EPI_ISL_490237, EPI	SL_490238, EP SL_490239, EP SL_490240, EP SL_490241, EP SL_490242, EP SL_490243, EP SL_490244, EP SL_490245, EP SL_490246, EP SL_490247, EP SL_490249, EP SL_490250	
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EPI_ISL_490315, EPI_ISL_490316	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
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EPI_ISL_490336, EPI_ISL_490337, EPI_ISL_490337, EPI_ISL_490338, EPI_ISL_490343, EPI_ISL_490345, EPI_ISL_490346, EPI_ISL_490346, EPI_ISL_490354, EPI_ISL_490354, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490380, EPI_ISL_490380, EPI_ISL_490388, EPI_ISL_490388, EPI_ISL_490408, EPI_ISL_490409, EPI_ISL_490409, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490380, EPI_ISL_490380, EPI_ISL_490389, EPI_ISL_490389, EPI_ISL_490409, EPI_ISL_490409, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490377, EPI_ISL_490380, EPI_ISL_490380

FPI ISI 490983, FPI ISI 490984, FPI ISI 490985.

Liverpool Clinical Laboratories COVID-19 Genomics UK (COG-UK Concortium

Sam Haldenby, Anita Lucaci, Steve Paterson, Julian Hiscox, Alistair Darby, M Almsaud, A Alrezaihi, Muhannad Alruwaili, Stuart D Armstrong, Jones Benjamin, Fleanor G Bentley, Anu Chawla, Jordan I Clark, Angela Cowell, Richard Eccles, Isabel García-Dorival, Matthew Gemmell, Alessandro Gerada, PKF Gilmore, Richard Gregory, Ximeng Han, Catherine Hartley, Margaret Hughes, Miren Iturriza-Gomara, James Johnson, L Luu, Jenifer Manson, Charlotte Nelson Elaine O'Toole, Cassie Olateju, Rebekah Penrice-Randal, Lucille Rainbow, N.P. Randle, Trevor Ian Robinson, Parul Sharma, Ghada T Shawli, James P Stewart, Neil Swainston, Ecaterina Vamos, Joanne Watts, Mark Whitehead

EPI_ISL_490421, EPI_ISL_490422, EPI_ISL_490423, EPI_ISL_490423, EPI_ISL_490424, EPI_ISL_490424, EPI_ISL_490426, EPI_ISL_490426, EPI_ISL_490428, EPI_ISL_490429, EPI_ISL_490430, EPI_ISL_490431, EPI_ISL_490433, EPI_ISL_490434, EPI_ISL_490436, EPI_ISL_490436, EPI_ISL_490438, EPI_ISL_490438, EPI_ISL_490431, EPI_ISL_490431, EPI_ISL_490439, EPI_ISL_490434, EPI_ISL_490436, EPI_ISL_490436, EPI_ISL_490438, EPI_ISL_490438

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EPI ISL 490444, EPI ISL 490449, EPI ISL 490459, EPI ISL 490451, EPI ISL 490452, EPI ISL 490452, EPI ISL 490453, EPI ISL 490467, EPI ISL 490467, EPI ISL 490473, EPI ISL 490473, EPI ISL 490474, EPI ISL 490479, EPI ISL 490479, EPI ISL 490481, EPI ISL 490482, EPI ISL 490482, EPI ISL 490487, EPI ISL 490487, EPI ISL 490474, EPI ISL 490487, EPI ISL 490478, EPI ISL 490481, EPI ISL 490482, EPI ISL 490482, EPI ISL 490487, EPI ISL 490487

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EPI ISL 490498, EPI ISL 490502, EPI ISL 490507, EPI ISL 490506, EPI ISL 490506, EPI ISL 490507, EPI ISL 490540, EPI ISL 490549, EPI ISL 490549 EPI ISL 490558

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EPI ISL 490563, EPI ISL 490566, EPI ISL 490567, EPI ISL 490567, EPI ISL 490567, EPI ISL 490570, EPI ISL 490571, EPI ISL 490573, EPI ISL 490574, EPI ISL 490575, EPI ISL 490575, EPI ISL 490576, EPI ISL 490576, EPI ISL 490576, EPI ISL 490570, EPI ISL 490580

Lincolnshire Hospitals and DeepSeg Nottingham COVID-19 Genomics UK (COG-UK) Nichola Duckworth, Tim Sloan, Sarah Walsh, Ionathan Ball, Patrick McClure, Ioeseph Chappell, Nadine Holmes, Matthew Carlisle, Christopher Moore, Fei Sang, Johnny Debebe, Victoria Wright, Matthew Loose see ahove Consortium EPI ISL 490581, EPI ISL 490585, EPI ISL 490585, EPI ISL 490586, EPI ISL 490586, EPI ISL 490587, EPI ISL 490617, EPI ISL 490518, EPI ISL 490517, EPI ISL 490517

EPI ISL 490627, EPI ISL 490628, EPI ISL 490629, EPI ISL 490630, EPI ISL 490633, EPI ISL 490635, EPI ISL 490637, EPI ISL 490638, EPI ISL 490639, EPI ISL 490642 Thusban de Silva, Matthew Parker, Nikki Smith, Adri Angyal, Rebecca Brown, Luke Green, Rachel Tucker, Paul Parsons, Danielle Groves, Katie Johnson, Laura Carrilero, Alex Keeley, Dave Partridge, Matthew Wyles, Renjamin

Virology Department, Sheffield Teaching Hospitals NHS Foundation COVID-19 Genomics UK (COG-UK) see above tment of Infection, Immunity and Cardiovascular Disease, Lindsey, Mehmet Yavuz, Mohammad Raza, Cariad Evans The Medical School, University of Sheffield

EPI ISL 490646, EPI ISL 490651, EPI ISL 490651, EPI ISL 490652, EPI ISL 490652, EPI ISL 490655, EPI ISL 490669, EPI ISL 490669, EPI ISL 490669, EPI ISL 490669, EPI ISL 490680, EPI ISL 490680, EPI ISL 490680, EPI ISL 490680, EPI ISL 490690, EPI ISL 490690 EPI ISL 490700, EPI ISL 490701, EPI ISL 490702, EPI ISL 490703, EPI ISL 490704, EPI ISL 490705, EPI ISL 490706, EPI ISL 490707, EPI ISL 490709

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EPI_ISL_491004 Mayo Clinic Laboratories UW Virology Lab Pavitra Roychoudhury, Hong Xie, Lasata Shrestha, Amin Addetia, Truong Nguyen, Victoria M Rachleff, Meei-Li Huang, Keith R Jerome, Alexander Greninger

EPI_ISL_491006, EPI_ISL_491007, EPI_ISL_491007, EPI_ISL_491007, EPI_ISL_491010, EPI_ISL_491010, EPI_ISL_491017, EPI_ISL_491013, EPI_ISL_491017, EPI_ISL_491017, EPI_ISL_491017, EPI_ISL_491017, EPI_ISL_491017, EPI_ISL_491017, EPI_ISL_491027, EPI_ISL_491017, EPI_ISL_491017 EPI ISL 491032, EPI ISL 491033, EPI ISL 491034

UW Virology Lab see above UW Virology Lab Pavitra Roychoudhury, Hong Xie, Lasata Shrestha, Amin Addetia, Truong Nguyen, Victoria M Rachleff, Meei-Li Huang, Keith R Jerome, Alexander Greninger EPI_ISL_491036, EPI_ISL_491037, EPI_ISL_491038 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei, Antoniadis Panagiotis et al. EPI_ISL_491039, EPI_ISL_491040, EPI_ISL_491041 Lobiuc Andrei et al

EPI_ISL_491042, EPI_ISL_491043 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei, Antoniadis Panagiotis et al

Lah

EPI ISL 491044 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei et al EPI_ISL_491045, EPI_ISL_491046, EPI_ISL_491047 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobius Andrei Antoniadis Panagiotis et al.

"Stefan cel Mare" University Metagenomics Lobiuc Andrei et al EPI ISL 491048 Suceava County Emergency Hospital

Lobiuc Andrei, Antoniadis Panagiotis et al. EPI ISL 491049 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics

EPI_ISL_491050, EPI_ISL_491051, EPI_ISL_491053, Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei et al EPI_ISL_491054, EPI_ISL_491055, EPI_ISL_491056,

EPI ISL 491057 EPI_ISL_491058, EPI_ISL_491059 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei, Antoniadis Panagiotis et al.

Lab EPI ISL 491060, EPI ISL 491061 Lobiuc Andrei et al Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics

EPI ISL 491062, EPI_ISL_491063, EPI_ISL_491064, Lobiuc Andrei, Antoniadis Panagiotis et al. Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics EPI_ISL_491065

EPI_ISL_491066, EPI_ISL_491067, EPI_ISL_491069, Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei et al EPI_ISL_491070, EPI_ISL_491072 Lab EPI ISL 491073 Lobiuc Andrei, Antoniadis Panagiotis et al. Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics

EPI_ISL_491074 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobius Andrei et al Lah

"Stefan cel Mare" University Metagenomics Lobiuc Andrei, Antoniadis Panagiotis et al. EPI_ISL_491075 Suceava County Emergency Hospital

FPI ISI 491076 Suceava County Emergency Hospital "Stefan cel Mare" University Metagenomics Lobiuc Andrei et al

EPI_ISL_491077	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics	Lobiuc Andrei, Antoniadis Panagiotis et al.	
EPI_ISL_491078	Suceava County Emergency Hospital	Lab "Stefan cel Mare" University Metagenomics	Lobiuc Andrei et al.	
	Suceava County Emergency Hospital	Lab		
EPI_ISL_491079, EPI_ISL_491080		"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei, Antoniadis Panagiotis et al.	
EPI_ISL_491081	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei et al.	
EPI_ISL_491082	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei, Antoniadis Panagiotis et al.	
EPI_ISL_491083, EPI_ISL_491084	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei et al.	
EPI_ISL_491085	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei, Antoniadis Panagiotis et al.	
EPI_ISL_491086	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei et al.	
EPI_ISL_491087, EPI_ISL_491088, EPI_ISL_491090	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei, Antoniadis Panagiotis et al.	
EPI_ISL_491091	Suceava County Emergency Hospital	"Stefan cel Mare" University Metagenomics Lab	Lobiuc Andrei et al.	
EPI_ISL_491092	The National Institute of Public Health	State Veterinary Institute Prague	Nagy,A:Jirincova,H:Novakova,L:Trnka,D:Vecerova,J	
EPI_ISL_491093, EPI_ISL_491094, EPI_ISL_491095	The National Institute of Public Health	The National Institute of Public Health and	Nagy,A; Jirincova,H; Novakova,L; Trnka,D; Vecerova,J	
EDI ICI 401006	CSIR CDRI/SCRCI Lucknew	State Veterinary Institute Prague CSIR-CDRI/SGPGI, Lucknow	Suggest Observe Very Singh, Bahul Webukarma, Hijah Cherhal, Hayu Cherhal, Bayurkhankar, Bayarakhankar, Tanar Kumar Kundu, Bajandar Singh	
EPI_ISL_491096	CSIR-CDRI/SGPGI, Lucknow SL_491101, EPI_ISL_491102, EPI_ISL_491103, EPI_ISL_491104, EPI_ISL_49		Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh	
see above	SC Department of Health and Environmental Control	SC Department of Health and	Flores,H.	
see above	Se Department of Health and Environmental Control	Environmental Control	TO(CS) I.	
EPI_ISL_491114	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh	
EPI_ISL_491115	Cicin-Sain Lab	Cicin-Sain Lab	M. Zeeshan Chaudhry, Kathrin Eschke, Yeonsu Kim, Luka Cicin-Sain	
EPI_ISL_491116	Oman-National Influenza Center	Biotechnology & OMICs Laboratory Sa	ımira Al-Mahruqi, Abdul Latif Khan, Samiha Al-Kharusi, Adil Khan , Ahmed Al-Rawahi, Sajjad Asaf, Amina Al-Jardani, Hanan Al-Kindi, Intisar Al-Shukri, Ahlam Al-Amri, Aisha Al-Amri, Aisha Al-Busaidi, Adil Al-Wahaibi, Seif Al-Abri, Ahmed Al-Harrasi	
EPI_ISL_491117	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_491118	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_491119	The National Institute of Public Health	The National Institute of Public Health and State Veterinary Institute Prague	Nagy,A;Jirincova,H;Novakova,L;Trnka,D;Vecerova,J	
EPI_ISL_491121, EPI_ISL_491122, EPI_ISL_491123, EPI_I	SL_491124, EPI_ISL_491125, EPI_ISL_491126, EPI_ISL_491127, EPI_ISL_49	91128, EPI_ISL_491129, EPI_ISL_491130, EPI_ISL_49	1131, EPI_ISL_491132	
see above	Oman-National Influenza Center	Biotechnology & OMICs Laboratory Sa	ımira Al-Mahruqi, Abdul Latif Khan, Samiha Al-Kharusi, Adil Khan , Ahmed Al-Rawahi, Sajjad Asaf, Amina Al-Jardani, Hanan Al-Kindi, Intisar Al-Shukri, Ahlam Al-Amri, Aisha Al-Amri, Aisha Al-Busaidi, Adil Al-Wahaibi, Seif Al-Abri, Ahmed Al-Harrasi	
EPI_ISL_491133, EPI_ISL_491134, EPI_ISL_491135, EPI_I	SL_491136, EPI_ISL_491137, EPI_ISL_491138, EPI_ISL_491139, EPI_ISL_49			
see above	Oman-National Influenza Center	Biotechnology & OMICs Laboratory Sa	amiha Al-Kharusi, Sajjad Asaf, Abdul Latif Khan, Samira Al-Mahruqi, Adil Khan, Ahmed Al-Rawahi, Amina Al-Jardani, Hanan Al-Kindi, Intisar Al-Shukri, Ahlam Al-Amri, Aisha Al-Amri, Aisha Al-Busaidi, Adil Al-Wahaibi, Seif Al-Abri, Ahmed Al-Harrasi	
	SL_491149, EPI_ISL_491150, EPI_ISL_491151, EPI_ISL_491152, EPI_ISL_49			
see above	Oman-National Influenza Center	Biotechnology & OMICs Laboratory A	lbdul Latif Khan, Samira Al-Mahruqi, Ahmed Al-Harrasi, Samiha Al-Kharusi, Adil Khan, Ahmed Al-Rawahi, Sajjad Asaf, Amina Al-Jardani, Hanan Al-Kindi, Intisar Al-Shukri, Ahlam Al-Amri, Aisha Al-Amri, Aisha Al-Busaidi, Adil Al-Wahaibi, Seif Al-Abri.	
EPI_ISL_491159, EPI_ISL_491160, EPI_ISL_491161, EPI_I	SL_491162, EPI_ISL_491163, EPI_ISL_491164, EPI_ISL_491165, EPI_ISL_49			
see above	Oman-National Influenza Center	Biotechnology & OMICs Laboratory S	iajjad Asaf, Samiha Al-Kharusi, Ahmed Al-Harrasi, Samira Al-Mahruqi, Adil Khan, Ahmed Al-Rawahi, Abdul Latif Khan, Amina Al-Jardani, Hanan Al-Kindi, Intisar Al-Shukri, Ahlam Al-Amri, Aisha Al-Amri, Aisha Al-Busaidi, Adil Al-Wahaibi, Seif Al-Abri.	
EPI_ISL_491172	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular.	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI ISL_491175, EPI ISL_491183, EPI ISL_491184,	Instituto Gulbenkian de Ciência	Instituto Nacional de Salud Perú. Instituto Gulbenkian de Ciência	João Costa, Cathy Paulino, Joao Sobral, Susana Ladeiro, Ricardo Leite	
EPI_ISL_491187, EPI_ISL_491189	SL_491211, EPI_ISL_491217, EPI_ISL_491219, EPI_ISL_491222, EPI_ISL_49	01224 EDI ISI 401225 EDI ISI 401226 EDI ISI 40		
see above	Instituto Gulbenkian de Ciência	Instituto Gulbenkian de Ciência	Cathy Paulino, Joao Sobral, Susana Ladeiro, João Costa, Ricardo Leite	
	SL_491235, EPI_ISL_491237, EPI_ISL_491238, EPI_ISL_491239, EPI_ISL_49		01243, EPI_ISL_491244, EPI_ISL_491245, EPI_ISL_491246, EPI_ISL_491248, EPI_ISL_491249, EPI_ISL_491250, EPI_ISL_491251, EPI_ISL_491252, EPI_ISL_491253, EPI_ISL_491254, EPI_ISL_491255, EPI_ISL_491256, EPI_ISL_491257,	
see above	Instituto Gulbenkian de Ciência	Instituto Gulbenkian de Ciência	Joao Sobral, Susana Ladeiro, João Costa, Cathy Paulino, Ricardo Leite	
	SL_491271, EPI_ISL_491273, EPI_ISL_491274, EPI_ISL_491275, EPI_ISL_49			
see above	Instituto Gulbenkian de Ciência	Instituto Gulbenkian de Ciência	Susana Ladeiro, João Costa, Cathy Paulino, Joao Sobral, Ricardo Leite	
EPI ISL 491300, EPI ISL 491300, EPI ISL 491301, EPI ISL 491301, EPI ISL 491300, EPI ISL 491300, EPI ISL 491304, EPI ISL 491304, EPI ISL 491308, EPI ISL 491313, EPI ISL 491332, EPI ISL 491332, EPI ISL 491334, EPI ISL 491334, EPI ISL 491335, EPI ISL 491335, EPI ISL 491335, EPI ISL 491335, EPI ISL 491336, EPI ISL 491336				
EPI_ISL_491404, EPI_ISL_491405, EPI_ISL_491406, EPI_I see above	SL_491407, EPI_ISL_491408, EPI_ISL_491409, EPI_ISL_491410, EPI_ISL_49 University of Wisconsin-Madison AIDS Vaccine Research Laboratories	01416, EPI_ISL_491417, EPI_ISL_491418, EPI_ISL_49 University of Wisconsin-Madison AIDS	01420, EPI_ISL_491421 Gage Moreno, Katarina Braun, et al. AIDS Vaccine Research Laboratories	
EPI_ISL_491427	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto	Vaccine Research Laboratories Laboratorio de Referencia Nacional de	Carlos Padilla Rojas, Karolyn Chozo Vega, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
E11_3E_493427	Nacional de Salud Perú	Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Canos Fadina Rojas, Ratoryn Chozo Fega, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mar Rojas, Ratoryn Chozo Fega, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mario Rojas, Ratoryn Chozo Fega, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mario Rojas, Ratoryn Chozo Fega, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mario Rojas, Ratoryn Chozo Ferez, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mario Rojas, Ratoryn Chozo Ferez, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frasi mario Rojas, Ratoryn Chozo Ferez, Frascia Lope Fair, Orian Caccies Rey, Marco Galaza Ferez, Marioe Frascia Rey, Marco Galaza Ferez, Marioe Frascia Rey, Marco Galaza Ferez, Marioe Frascia Rey, Marco Galaza Ferez, Marco Galaza Ferez, Marioe Frascia Rey, Marco Galaza Ferez, Mar	
EPI_ISL_491428	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_491429	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_491430	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_491431	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud. Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud.Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_491432	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud.Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud.Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	
EPI_ISL_491433, EPI_ISL_491434, EPI_ISL_491435	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.	

EPI_ISL_491436	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_491437	Area de Salud Escazu (Coopesana)	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491438	Hospital San Rafael de Alajuela	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491439	Hospital Calderon Guardia	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491440	Hospital San Rafael de Alajuela	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491441, EPI_ISL_491442	Hospital Clinica Biblica	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491443	Hospital Fernando Escalante Pradilla	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491444	Area de Salud Escazu (Coopesana)	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491445	Area de Salud Mata Redonda	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491446	Area de Salud Alajuela Central	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491447	Hospital Fernando Escalante Pradilla	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491448	Hospital San Rafael de Alajuela	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491449	Area de Salud Alajuela Sur	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491450	Hospital San Juan de Dios	Salud Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491451	Hospital México	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491452	Hospital San Rafael de Alajuela	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491453	Hospital México	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491454	Hospital San Juan de Dios	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491455	Hospital Clinica Biblica	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491456	Hospital San Juan de Dios	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491457	Area de Salud Los Santos	Inciensa, Instituto Costarricense de Investigación y Enseñanza en Nutrición y Salud	Francisco Duarte, Hebleen Brenes, Claudio Soto-Garita, Estela Cordero, Adriana Godinez & Melany Calderon	
EPI_ISL_491458, EPI_ISL_491459, EPI_ISL_491460, EPI_ISL_491461, EPI_ISL_491462	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_491463	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI_ISL_491464	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano	
EPI ISL 491479	CSIR-CDRI/SGPGI, Lucknow	CSIR-CDRI/SGPGI, Lucknow	Saumya Sarkar, Dharam Veer Singh, Rahul Vishvkarma, Ujjala Ghoshal, Uday Ghoshal, Ravishankar Ramachandran, Tapas Kumar Kundu, Rajender Singh	
EPI_ISL_491481	Functional Genomics Core University of South Carolina / Prisma Health-	Functional Genomics Core, Center For	Hao Ji, Diego Altomare, B.Celia Cui, Mengqian Chen, Alyssa Clay-Glimour, Michael Wyatt, Phillip Buckhaults, Helmut Albrecht, Michael Shtutman	
	Midlands	Targeted Therapeutics,		
EP ISL, 491494, EP IJSL, 491495, EP IJSL, 491496, EP IJSL, 491496, EP IJSL, 491506, EP IJSL, 491507, EP IJSL, 491507, EP IJSL, 491515, EP IJSL				
see above	Virology Department, Royal Infirmary of Edinburgh, NHS Lothian /	Wellcome Sanger Institute for the COVID-	McHugh M, Dewar R, Rooke S, O'Toole Á, Scher E, Hill V, McCrone JT, Colquhoun R, Yu X, Jackson B, Rambaut A, Templeton K and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Ian Johnston,	
			Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) SL_491722, EPI_SL_491723, EPI_SL_491724, EPI_SL_491725, EPI_SL_491727, EPI_SL_491728, EPI_SL_491728, EPI_SL_491731, EPI_SL_491732, EPI_SL_491733, EPI_SL_491733, EPI_SL_491734, EPI_SL_491735	
see above	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	PHE Covid Sequencing Team	
EPI_ISL_491907, EPI_ISL_491908, EPI_ISL_491909, EPI_IS EPI_ISL_491931	•	01914, EPI_ISL_491915, EPI_ISL_491916, EPI_IS	SL_491917, EPLISL_491918, EPLISL_491919, EPLISL_491920, EPLISL_491921, EPLISL_491922, EPLISL_491923, EPLISL_491924, EPLISL_491925, EPLISL_491926, EPLISL_491927, EPLISL_491928, EPLISL_491929, EPLISL_491930,	
see above	Naval Infectious Diseases Diagnostic Laboratory	Naval Medical Research Center Biological Defense Research Directorate	Logan Voegtly, Regina Cer, Lindsay Glang, Victor Sugiharto, Francisco Malgon Bautista, Hua Wei Chen, Dessiree Pena-Gomez, Megan Schilling, Adrian Paskey, Kyle Long, Mark Simons, Kimberly Bishop-Lilly	
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EDI ISI 401033 EDI ISI 401034 EDI ISI 401035	Centro de Investigaciones Universidad de Especialidades Espíritu	Institute of Microbiology, Universidad Can	Derly Andrada Juan Carlos Fernandez, Balán Prado Vivar, Sully Márquez, Juan José Guadaluna, Monica Recerca-Wong, Remardo Gutiérrez, Gabriel Morey, Puben Armas, Jose Bedro Barberan, Fernando Espinoza, Edith Lonez	

Derly Andrade, Juan Carlos Fernandez, Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Gabriel Morey, Ruben Armas, Jose Pedro Barberan, Fernando Espinoza, Edith Lopez,

EPI_ISL_491933, EPI_ISL_491934, EPI_ISL_491935

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	Santo	Francisco de Quito	Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas	
EPI_ISL_491936	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Carlos Guerrero, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas	
EPI_ISL_491937, EPI_ISL_491938	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Rosario Erazo, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas	
EPI_ISL_491939, EPI_ISL_491940	Institute of Microbiology, Universidad San Francisco de Quito	Institute of Microbiology, Universidad San Francisco de Quito	Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Carlos Mena, Nabih Dahik, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas	
EPI_ISL_491941	Centro de Investigaciones, Universidad de Especialidades Espíritu Santo	Institute of Microbiology, Universidad San Francisco de Quito	Derly Andrade, Juan Carlos Fernandez, Belén Prado-Vivar, Sully Márquez, Juan José Guadalupe, Monica Becerra-Wong, Bernardo Gutiérrez, Gabriel Morey, Ruben Armas, Jose Pedro Barberan, Fernando Espinoza, Edith Lopez, Verónica Barragán, Patricio Rojas-Silva, Gabriel Trueba, Michelle Grunauer, Paúl Cárdenas	
EPI_ISL_491942, EPI_ISL_491943	Naval Infectious Diseases Diagnostic Laboratory	Naval Medical Research Center Biological Defense Research Directorate	Logan Voegtly, Regina Cer, Lindsay Glang, Victor Sugiharto, Francisco Malgon Bautista, Hua Wei Chen, Dessiree Pena-Gomez, Megan Schilling, Adrian Paskey, Kyle Long, Mark Simons, Kimberly Bishop-Lilly	
EPI_ISL_491944, EPI_ISL_491945, EPI_ISL_491946, EPI_ISL_491947, EPI_ISL_491949, EPI_ISL_491950, EPI_ISL_491951, EPI_ISL_491952, EPI_ISL_491953, EPI_ISL_491954	Instituto Nacional de Investigación en Salud Pública - INSPI	INSPI - Charité	Alfredo Bruno Caicedo, Domenica de Mora Coloma, Andres Moreira-Soto, Anna-Lena Sander, Nina Krause, Maritza Olmedo, Denisses Portugal, Manuel Gonzalez, Silvia Salgado, Alberto Orlando, Alexandra Usiña, Juar Jan Felix Drexler	
EPI_ISL_492181, EPI_ISL_492182	unknown	Biomedical Informatics, UAMS	Jenjaroenpun,P., Ussery,D., Wongsurawat,T.	



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All Submitters of data may be contacted directly via www.gisaid.org

All Submitters of data may be con	itacted directly via www.gisaid.org					
Accession ID	Originating Laboratory	Submitting Laboratory	Authors			
EPI_ISL_491968, EPI_ISL_491969, EPI_ISL_4919 EPI_ISL_491998, EPI_ISL_491999, EPI_ISL_4920I EPI_ISL_492026	70, EPI ISL 491973, EPI ISL 491974, EPI ISL 491976, EPI ISL 491978, EPI ISL 4 00, EPI ISL 492001, EPI ISL 492002, EPI ISL 492003, EPI ISL 492005, EPI ISL 4	491979, EPI_ISL_491980, EPI_ISL_491981, EPI_ISL_491982, EPI_ISL_491983, EPI_IS 492006, EPI_ISL_492007, EPI_ISL_492008, EPI_ISL_492009, EPI_ISL_492010, EPI_IS	SI_491984, EPI_ISL_491985, EPI_ISL_491986, EPI_ISL_491988, EPI_ISL_491999, EPI_ISL_491991, EPI_ISL_491992, EPI_ISL_491994, EPI_ISL_491995, EPI_ISL_491996, EPI_ISL_491997, SI_492011, EPI_ISL_492014, EPI_ISL_492016, EPI_ISL_492017, EPI_ISL_492019, EPI_ISL_492020, EPI_ISL_492021, EPI_ISL_492022, EPI_ISL_492023, EPI_ISL_492024, EPI_ISL_492025, EPI_ISL_492014, EPI_ISL_			
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EPI_ISL_492029, EPI_ISL_492030	Child Health Research Foundation	Child Health Research Foundation	Senjuti Saha, Md Saiful Islam Sajib, Roly Malaker, Md Hafizur Rahman, Afroza Akter Tanni, Syed Muktadir Al Sium, Maksuda Islam, Samir K Saha			
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EPI_ISL_492033	Instituto de Biologia do Exército	Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492034	Instituto de Biologia do Exército	Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492035	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492036	Instituto de Biologia do Exército	Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza , Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492037	Instituto de Biologia do Exército	Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492038	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492039	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Elizabeth Valentin, Marcio da Costa Cipitelli. Viroinia Sara Grancieri do Amaral. Rodrigo Soares de Moura Neto. Clarissa Damaso. Rosane Silva			
EPI_ISL_492040	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza , Marcos Domelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492041	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492042	Instituto de Biologia do Exército		Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatina LS Nogueira, Elizabeth Valentin, Marcio da Costa Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
EPI_ISL_492043	Instituto de Biologia do Exército	•	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Elizabeth Valentin, Marcio da Costa Cipitelli, Vironia Sara Grancieri do Amaral. Rodrigo Soares de Moura Neto. Clarissa Damaso. Rosane Silva			
EPI_ISL_492044	Instituto de Biologia do Exército	Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de	Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza , Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Elizabeth Valentin, Marcio da Costa			
EPI_ISL_492045	Instituto de Biologia do Exército		Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Elizabeth Valentin, Marcio da Costa			
EPI_ISL_492046	Instituto de Biologia do Exército		Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Elizabeth Valentin, Marcio da Costa			
EPI_ISL_492047	Instituto de Biologia do Exército		Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Marcos Dornelas-Ribeiro, Elizabeth Valentin, Marcio da Costa			
EPI_ISL_492048	Instituto de Biologia do Exército	Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro Laboratório Metabolismo Macromolecular FirminoTorres de Castro, Instituto de	Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva Bianca Catarina Azevedo Cabral, Aline Rosa Vianna de Souza, Marcos Dornelas-Ribeiro, Tatiana LS Nogueira, Nádia Vaez Gonçalves da Cruz, Caleb GM Santos, Elizabeth Valentin, Marcio da Costa			
EPI_ISL_492059, EPI_ISL_492063	Alaska State Virology Laboratory	Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro	Cipitelli, Virginia Sara Grancieri do Amaral, Rodrigo Soares de Moura Neto, Clarissa Damaso, Rosane Silva			
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EPI_ISL_492066, EPI_ISL_492067, EPI_ISL_492068, EPI_ISL_492069, EPI_ISL_492070, EPI_ISL_492071, EPI_ISL_492072, EPI_ISL_492073	ViroGenetics - BSL3 Laboratory of Virology, Malopolska Centre of Biotechnology, Jagiellonian University. 2. II Department of Internal Medicine, Faculty of Medicine, Jagiellonian University Medical College; 3. Narodowy Instytut Zdrowia Publicznego - Państwowy Zakład Higleny (NIZP-PZH)	 ViroGenetics - BSL3 Laboratory of Virology, Malopolska Centre of Biotechnology, Jagiellonian University; 2. Il Department of Internal Medicine, Faculty of Medicine, Jagiellonian University Medical College; 3. Narodowy Instytut Zdrowia Publicznego - Państwowy Zakład Higleny (NIZP-PZH). 	Katarzyna Pancer, Marek Sanak, Aleksandra A. Zasada, Magdalena Rzeczkowska, Tomasz Wołkowicz, Katarzyna Zacharczuk, Agnieszka Kołakowska-Kulesza, Katarzyna Owczarek, Aleksandra Milewska, Natalia Wolaniuk, Ewelina Hallman-Szelińska, Paweł P Łabaj, Wojciech Branicki, Krzysztof Pyrć			
EPI_ISL_492074	Functional Genomics Core University of South Carolina / Prisma Health- Midlands	Functional Genomics Core, University of South Carolina,	Hao Ji, Diego Altomare, B.Celia Cui, Menggian Chen, Alyssa Clay-Glimour, Michael Wyatt, Phillip Buckhaults, Helmut Albrecht, Michael Shtutman			
EPI_ISL_492075, EPI_ISL_492076, EPI_ISL_4920	77, EPI_ISL_492078, EPI_ISL_492079, EPI_ISL_492080, EPI_ISL_492081, EPI_ISL_4					
see above Institute for Public Health of the Republic of North Macedonia Charite Universitatsmedizin Berlin, Institute of Virology Victor M Corman, Joern Beheim-Schwarzbach, Barbara Mühlemann, Talitha Veith, Julia Schneider, Elizabeta Jancheska, Maja Kuzmanovska, Golubinka Bosevska, Terry Jones, Christian Drosten EPI ISL, 49210, 1911, 1912, 1913,						
see above	SA Pathology	SA Pathology	Lex Leong, Chuan Kök Lim, Mark Turra, Ivan Bastian, Geoff Higgins			
EPI_ISL_492184	Pascale	Pascale	Pascale			
EPI_ISL_492185, EPI_ISL_492186, EPI_ISL_492187	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492190, EPI_ISL_492191, EPI_ISL_492192, EPI_ISL_492193, EPI_ISL_492194, EPI_ISL_492196	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, lan Goodfellow; and Alex Aldeton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492197	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492198, EPI_ISL_492199, EPI_ISL_492200, EPI_ISL_492201	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Slillitoe on behalf of the Wellcome Sanger Institute CoVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492203	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492204, EPI_ISL_492205, EPI_ISL_492206	Department of Pathology, University of Cambridge	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Slillitoe on behalf of the Wellcome Sanger Institute CoVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)			
EPI_ISL_492207, EPI_ISL_492208, EPI_ISL_492209	NU-OMICS DNA Sequencing research facility, Northumbria University	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Chris Duncan, Sheia Waugh, Shrielle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Ian Johnston, Dominic Kwistkowski, Cordelia Langford, John Silitoe on behalf of the Wellcome Sanger Institute COVID-			

EPI ISL 492211, EPI ISL 492213, EPI ISL 492213, EPI ISL 492214, EPI ISL 492214, EPI ISL 492214, EPI ISL 492217, EPI ISL 492225, EPI ISL 492225, EPI ISL 492225, EPI ISL 492225, EPI ISL 492235, EPI ISL 492235, EPI ISL 492240, EPI ISL 492246, EPI ISL 492246, EPI ISL 492258, EPI ISL 492266, EPI ISL 492266, EPI ISL 492277, EPI ISL 492277

19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) see ahove PHE South West Regional Laboratory, National Infection Service Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium

EPI ISL 492450, EPI ISL 492451, EPI ISL 492451, EPI ISL 492452, EPI ISL 492452, EPI ISL 492453, EPI ISL 492455, EPI ISL 492456, EPI ISL 492457, EPI ISL 492457 EP SL 492477, EP SL 492478, EP SL 492479, EP SL 492480, EP SL 492480, EP SL 492481, EP SL 492482, EP SL 492482, EP SL 492484, EP SL 492493, EP SL 492491, EP

see above	NU-OMICS DNA Sequencing research facility, Northumbria University	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Chris Duncan, Sheia Waugh, Shirelle Burton-Fanning, Gary Eltringham, Jennifer Collins, Brendan Payne, Yusri Taha, Emma Swindells, Jane Greenaway, Edward Barton, Garren Scott, Debra Padgett, Clive Graham, Sarah Essex, Steve Ligget, Paul Baker, Lynn Dover, Wen Yew, Gary Black, John Allan, Joshua Loh, Greg Young, Matthew Bashton, Andrew Nelson, Darren Smith and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkok, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492496, EPI_ISL_492498, EPI_ISL_492500, EPI_ISL_492502, EPI_ISL_492503	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randeli, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillibo en behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team

EPI,ISL 492505, EPI,ISL 492506, EPI,ISL 492506, EPI,ISL 492507, EPI,ISL 492506, EPI,ISL 492507, EPI,ISL 492513, EPI,ISL 492523, EPI,ISL 492523, EPI,ISL 492523, EPI,ISL 492523, EPI,ISL 492533, EPI,ISL 492533 EPI ISL 492643, EPI ISL 492644, EPI ISL 492644, EPI ISL 492646, EPI ISL 492646, EPI ISL 492655, EPI ISL 492655, EPI ISL 492656, EPI ISL 492666, EPI ISL 492666 EPI ISL 492695, EPI ISL 492696, EPI ISL 492696, EPI ISL 492697, EPI ISL 492697, EPI ISL 492705, EPI ISL 492707, EPI ISL 492705, EPI ISL 492706, EPI ISL 492707, EPI ISL 492707 EPI ISL 492722, EPI ISL 492723, EPI ISL 492725, EPI ISL 492725, EPI ISL 492725, EPI ISL 492736, EPI ISL 492739, EPI ISL 492742, EPI ISL 492742, EPI ISL 492734, EPI ISL 492734, EPI ISL 492735, EPI ISL 492745, EPI ISL 492745, EPI ISL 492745, EPI ISL 492736, EPI ISL 492739, EPI ISL 492739

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EPI_ISL_492751, EPI_ISL_492753, EPI_ISL_492754, EPI_ISL_492755, EPI_ISL_492756, EPI_ISL_492760	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Sergi Castellano, Rachel Williams, Mark Kristiansen, Paola Resende Silva, Sunando Roy, Tony Brooks, Helena Tutill, Paola Niola, Patricia Dyal, Charlotte Williams, Leysa Forrest, Yasmin Panchbhaya, Jacqueline Findlay, Sam Weeks, Julianne Brown, Kathryn Harris, Paul Randell, James Price, Alison Holmes, Judith Breuer and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordella Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492764, EPI_ISL_492765, EPI_ISL_4927	766, EPI_ISL_492767, EPI_ISL_492768, EPI_ISL_492769, EPI_ISL_492770, EPI_ISL_492	771, EPI_ISL_492772, EPI_ISL_492774, EPI_ISL_492775, EPI_ISL_492776, EPI_I	SL_492777, EPI ISL_492778, EPI ISL_492780, EPI ISL_492782, EPI_ISL_492783, EPI_ISL_492784, EPI_ISL_492785, EPI_ISL_492787, EPI_ISL_492788, EPI_ISL_492789, EPI_ISL_492790, EPI_ISL_492791,
EPI_ISL_492792, EPI_ISL_492794, EPI_ISL_4927	795, EPI ISL 492796, EPI ISL 492797, EPI ISL 492798, EPI ISL 492799, EPI ISL 492	800, EPI_ISL_492801, EPI_ISL_492803, EPI_ISL_492804, EPI_ISL_492806, EPI_I	SL_492807, EPI_SL_492808, EPI_ISL_492809, EPI_ISL_492810, EPI_ISL_492811, EPI_ISL_492814, EPI_ISL_492815, EPI_ISL_492816, EPI_ISL_492817, EPI_ISL_492818, EPI_ISL_492819, EPI_ISL_492821,
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PHE South West Regional Laboratory, National Infection Service

Royal Free Hospital / Health Services Laboratories

Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation

Trust, St Richard's Hospital

Royal Free Hospital / Health Services Laboratories

Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation

Trust, St Richard's Hospital

see above

EPI_ISL_492905, EPI_ISL_492906,

EPI ISL 492908

EPI ISL 492909, EPI ISL 492910

EPI_ISL_492912, EPI_ISL_492913

EPI_ISL_492914

EPI ISL 492915

			(http://www.sanger.ac.uk/covid-team)
EPI_ISL_492792, EPI_ISL_492794, EPI_ISL_4		2800, EPI_ISL_492801, EPI_ISL_492803, EPI_ISL_492804, EPI_ISL_492806, EPI	SL_492777, EPI_ SL_492778, EPI_ SL_492780, EPI_ SL_492782, EPI_ SL_492783, EPI_ SL_492784, EPI_ SL_492785, EPI_ SL_492787, EPI_ SL_492788, EPI_ SL_492789, EPI_ SL_492790, EPI_ SL_492791, ISL_492807, EPI_ SL_492808, EPI_ SL_492809, EPI_ SL_492810, EPI_ SL_492811, EPI_ SL_492814, EPI_ SL_492815, EPI_ SL_492816, EPI_ SL_492817, EPI_ SL_492818, EPI_ SL_492819, EPI_ SL_492817, EPI_ SL_492819, EPI_ S
see above	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492836, EPI_ISL_492838, EPI_ISL_492839	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492840	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492841	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492843, EPI_ISL_492844, EPI_ISL_492845, EPI_ISL_492847	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492848, EPI_ISL_492849	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492850, EPI_ISL_492852	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492853, EPI_ISL_492854	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492856	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492857, EPI_ISL_492860	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492864, EPI_ISL_492865	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492866, EPI_ISL_492867	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492868, EPI_ISL_492869	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492873	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492874, EPI_ISL_492877, EPI_ISL_492879, EPI_ISL_492880	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492881	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492882	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492884	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492885	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492886	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492887, EPI_ISL_492888, EPI_ISL_492890	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492893	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492894	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492895, EPI_ISL_492896, EPI_ISL_492898, EPI_ISL_492899, EPI_ISL_492900	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podpiomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492902	Royal Free Hospital / Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_492903	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

Tanzina Haque, Tabitha Mahungu, Dianne Irish, Cate Goodlad, Jenny Cross, Judith Heaney and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston,

(http://www.sanger.ac.uk/covid-team

Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes: and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Jan Johnston, Dominic

Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team

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EPI ISL 493333

EPI ISL 493334, EPI ISL 493335,

EPI_ISL_493336

EPI_ISL_493346, EPI_ISL_493348

EPI_ISL_493352, EPI_ISL_493353,

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EPI_ISL_493426

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Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Maria R. Capobianchi, Antonino Di Caro Martina Rueca, Cesare E.M. Gruber, Barbara Bartolini, Francesco Messina, Maria R. Capobianchi, Antonino Di Caro

Cesare E.M. Gruber, Martina Rueca, Barbara Bartolini, Francesco Messina, Antonino Di Caro, Giovanna Fusco, Maurizio Viscardi, Giorgia Borriello, Maria R. Capobianchi Barbara Bartolini, Martina Rueca, Cesare E.M. Gruber, Francesco Messina, Antonino Di Caro, Giovanna Fusco, Maurizio Viscardi, Giorgia Borriello, Maria R. Capobianchi Gisela Barrera-Badillo Abril Rodriguez-Maldonado, Claudia Wong-Arambula Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Davanira Arellano-Suarez, Fabiola Garces-Avala, Edgar Mendieta-Condado, Lucia Hernandez-Rivas, Irma Lopez-Martinez, Ernesto Ramirez-Gonzalez Ernesto Ramirez-Gonzalez, Abril Rodriguez-Maldonado, Claudia Wong-Arambula , Natividad Cruz-Ortiz, Tatiana Nunez-Garcia, Dayanira Arellano-Suarez, Adnan Araiza-Rodriguez, Fabiola Garces-Avala, Lucia Hernandez-Riyas, Irma Lopez-Martinez, Gisela Barrera-Badillo.

Kathrine Stene-Johansen, Kamilla Heddeland Instefiord, Hilde Flshaug, Rasmus Riis Kopperud, Karoline Bragstad, Olay Hungnes

Hao Ji, Diego Altomare, B.Celia Cui, Mengqian Chen, Alyssa Clay-Glimour, Michael Wyatt, Phillip Buckhaults, Helmut Albrecht, Michael Shtutmar

Kathrine Stene-Johansen, Kamilla Heddeland Instefjord, Hilde Elshaug, Rasmus Riis Kopperud, Karoline Bragstad, Olav Hungnes

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Midlands EPI_ISL_493427 Functional Genomics Core University of South Carolina / Prisma Health-Hao Ii, Diego Altomare, B.Celia Cui, Menggian Chen, Alyssa Clay-Glimour, Michael Wyatt, Phillip Buckhaults, Helmut Albrecht, Michael Shtutman Functional Genomics Core, University of South Carolina Midlands EPI ISI 493429 EPI ISI 493432 University of Birmingham COVID-19 Genomics UK (COG-UK) Consortium

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COVID-19 Genomics UK (COG-UK) Consortium

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EPI ISL 493968, EPI ISL 493969, EPI ISL 493970, EPI ISL 493971, EPI ISL 493972, EPI ISL 493973, EPI ISL 493974 Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of COVID-19 Genomics UK (COG-UK) Consortium McHugh M, Dewar R, Rooke S, Gallagher M, Balcaza C, O'Toole Á, Scher E, Hill V, McCrone JT, Colguhoun R, Yu X, Jackson B, Rambaut A, Williams TC, Templeton K see above

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EPI ISL 494553, EPI ISL 494554 Functional Genomics Core University of South Carolina / Prisma Health Functional Genomics Core. University of South Carolina Hao Ii, Diego Altomare, B.Celia Cui, Menggian Chen, Alyssa Clay-Glimour, Michael Wyatt, Phillip Buckhaults, Helmut Albrecht, Michael Shtutmar

EPI_ISL_494555 Midlands

FPI ISL 494568, EPI_ISL_494569 San Diego County Public Health Laboratory Andersen lab at Scripps Research SEARCH Alliance San Diego with Tracy Basler, Joyan Shephard, Brett Austin EPI ISL 494570 Rady's Childrens Hosnital SEARCH Alliance San Diego Andersen lab at Scripps Research

EPI ISL 494571, EPI ISL 494572, EPI ISL 494572, EPI ISL 494573, EPI ISL 494573, EPI ISL 494573, EPI ISL 494573, EPI ISL 494575, EPI ISL 494577, EPI ISL 494577, EPI ISL 494577, EPI ISL 494577, EPI ISL 494579, EPI ISL 494579, EPI ISL 494594, EPI ISL 494594, EPI ISL 494594, EPI ISL 494587, EPI ISL 494587, EPI ISL 494594, EPI ISL 494594, EPI ISL 494594, EPI ISL 494587, EPI ISL 494587, EPI ISL 494587, EPI ISL 494594, EPI ISL 494587, EPI ISL 494587, EPI ISL 494594, EPI ISL 494587, EPI ISL 494594, EPI ISL 494594

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EPI ISL 494620, EPI ISL 494621, EPI ISL 494622, EPI ISL 494623, EPI ISL 494623, EPI ISL 494624, EPI ISL 494625, EPI ISL 494626, EPI ISL 494627, EPI ISL 494628, EPI ISL 494629, EPI ISL 494630, EPI ISL 494632, EPI ISL 494634

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Kairavi Desai, Saklin Malek, Shirish Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Apurvasinh Puvar, Janvi EPI_ISL_495020 Government Medical College, Bhavnagar Gujarat Biotechnology Research Centre Rayal, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R.D. Dixit, A.M. Kadri, Harsh Bakshi, Chaitanya loshi, Madhyi Joshi

Saklin Malek, Shirish Patel, Kairavi Desai, Raghawendra Kumar, Dinesh Kumar, Zuber Saived, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Apuryasinh Puvar, Janyi Rayal, Zarna Patel, Government Medical College, Bhavnagar Guiarat Biotechnology Research Centre Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhyi Joshi Government Medical College, Bhavnagar Gujarat Biotechnology Research Centre Shirish Patel, Kairavi Desai, Saklin Malek, Dinesh Kumar, Zuber Saived, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Apurvasinh Puyar, Janvi Rayal, Zarna Patel, Monika Gandhi, Pinal

EPI_ISL_495022 Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya loshi, Madhyi loshi Government Medical College, Bhavnagar Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Kairavi Desai, Saklin Malek, Shirish Patel, Apurvasinh Puvar, Janvi EPI_ISL_495023 Gujarat Biotechnology Research Centre Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Josh

Government Medical College, Bhavnagar Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Kairavi Desai, Saklin Malek, Shirish Patel, Apurvasinh Puvar, Janvi Raval, Zarna Patel, EPI ISL 495024 Gujarat Biotechnology Research Centre Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi

EPI_ISL_495025	Government Medical College, Bhavnagar	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Kairavi Desai, Saklin Malek, Shirish Patel, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495026	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495027	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puwar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495028	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495029	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495030	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495031	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495032	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495033	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495034	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495035	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495036	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495037	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zama Patel, Monika Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495038	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nithi Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495039	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495040	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar,
EPI_ISL_495041	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Janvi Raval, Zama Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Balskhi, Chaitanya Joshi, Madhvi Joshi Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Svauliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495042	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi,
EPI_ISL_495043	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495044	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi
EPI_ISL_495045	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel,
EPI_ISL_495046	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya,
EPI_ISL_495047	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495048	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495049	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Ravla, Zama Patel, Monika Gandhi, Pinal Trivetii, A D Dixit, A M Rauli, naish dashii, Cilaitaiya jusii, maurin Joshii, Varsha Godbole, Apurvasinh Puvar, Janvi Ravla, Zama Patel, Monika Gandhi, Pinal Trivetii, Maharshi Pandya, Nilihi Javelel, Nilin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495050	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495051	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495052	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495053	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495054	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495055	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zama Patel, Monika Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495056	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495057	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495058	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Salyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495059	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495060	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495061	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495062	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495063	GMERS Medical College & Hospital, Himmatnagar	Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_495064	GMERS Medical College & Hospital, Himmatnagar	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Himanshu Khatri, Mayur Gandhi, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_495065	GAIMS & G K General Hospital	Gujarat Biotechnology Research Centre	Nikha Trivedi, Babulal Babhoria, Hitesh Assudani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_495066	GAIMS & G K General Hospital	Gujarat Biotechnology Research Centre	Babulal Babhoria, Hitesh Assudani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhuj Joshi,
EPI_ISL_495067	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	J G Buch, Jigar Gusani, Supreet Prabhu, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495068	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Jigar Gusani, Supreet Prabhu, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, J G Buch, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_495069	Dr. N. D. Desai Medical College & Hospital	Gujarat Biotechnology Research Centre	Supreet Prabhu, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal

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EPI_ISL_495071	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre
EPI_ISL_495072	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre
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EPI_ISL_495080	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre
EPI_ISL_495081, EPI_ISL_495082, EPI_ISL_495084, EPI_ISL_495086, EPI_ISL_495090, EPI_ISL_495093, EPI_ISL_495095, EPI_ISL_495096	Department of Medical Microbiology, Western Sussex Hospitals NHS Foundation Trust, St Richard's Hospital	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortiun
ISL_495097, EPI_ISL_495098, EPI_ISL_49 see above	95099, EPI_ISL_495100, EPI_ISL_495101, EPI_ISL_495102, EPI_ISL_495103, EPI_ISL_4951 PHE South West Regional Laboratory, National Infection Service	LO4, EPI_ISL_495107, EPI_ISL_495108, EPI_ISL_495109, EPI_ISL_495110, Wellcome Sanger Institute for the COVID-19 Genomics UK Consortiun
EPI_ISL_495122, EPI_ISL_495123,	Innovative Genomics Institute, UC Berkeley	Innovative Genomics Institute, UC Berkeley
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- Manasa Mutingwende, Sarah Lowdon, Olga Podplomyk, Michelle Erkiert, Jonathan Lewis, Paul Randell and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K Jackson, Ian Johnson, Dominic Kwiatkowski, Cordelia Landrord, John Sillitoe on behalf of the Wellcome Sanger alout Leviture COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

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Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

Stacia Wyman, Haridha Shiyram, Liana Lareau, Shana McDevitt, Justin Choi

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Tulasi Nagabandi, Namami Gaur, Sashi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajimis, M Shoujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu,
Priva Sinoh, Onkar Kulkarni, Dhiviva Vedadiri, Divva Guda, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hunsaya Harshan, Archana Bharadwai Siva, Karthik Bharadwai Tallapaka G. Aditva

Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati
Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddh iyu Lahoti, Rakesh K Mishra, Divya Tej Sowpati

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Pratheusa Maccha, Sofia Banu, Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Tulasi Nagabandi, Purushotham Vodnala, Preethi Jampala, Sharada Ravi ver. Sulaganan Mukheriee, Swetha Sundar, Peddagavala Suda Yiran, Rakesh K Mishra, Divya Tei Sowadi Tulasi Nagabandi, Purushotham Vodnala, Preethi Jampala,

Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Deepak

Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dihiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayvad, Kakade Alshwarya Arun, Amrutha H C, Ananao Ghosh, Rakesh K Nishra, Divya Tej Sowpati

Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hariniwas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakada éhishwaya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati

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Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Umash Kumar, Umash Marad Bhaka, Laiva Sarawada, Pirvanka Pant, Raikamwar Nathawat. Rakesh K Mishra, Divya Tei Sowaati

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Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj iYak, Kathik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Savvad, Kakade Aishwana Arun, Amrutha H C. Ananao Robsh, Rakesh K Mishra, Divya Tel Sowoati

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Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananotha Khisha, Divar Tej Sowpati

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Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulash Nagabandi, Purushotham Vodnala, G. Aditya Kumar, Koushick Sivakumar, Noushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shrawal Niyaj Lahoti, Rakesh K Mishra, Divya Tej Sowpati

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Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swati Bayyana, Rakesh K Mishra, Divya Tej Sowpati

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Sofia Banu, Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha,Tulasi Nagabandi, Purushotham Vodnala, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati

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M Soujanya Reddy, Nikhil Hajirnis, Pratheusa Maccha, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkami, Dihiviya Vedagiri, Diya, Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Siva, Karthik Bharadwaj Siva, Karthik Bharadwaj Siva, Karthik Bharadwaj Siva, Gupta, Agiah Kumar Jia, Shraddha Vijay Lahoti, Raksek M Kishra, Divya Tej Sowpati Nagaradwaj Siva, Karthik Bharadwaj Siva, Karthik Bhar

Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya

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Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siaya, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Kushikic Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jing, Shakesh K Mishra, Divya Tej Sowpan.

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Zuherwasim Savvad, Kakade Aishwarva Arun, Ammtha H C. Ananomba H C. Shanomba H C.

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Pratheusa Maccha, Sofia Banu, Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajimis, M Soujanya Reddy, Tulasi Nagabandi, Purushotham Vodnala, Preethi Jampala, Sharada Rawi Iyer, Sulagana Mukherjee, Swetha Sundar, Peddapuvala Sai Uday Kiran, Rakesh K Mishra, Divya Tej Sowpati

Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Kushiki Kiskumar, Pogoja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati

Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Deepak Kumar, Devi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogoi, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati

M Soujanya Reddy, Nikhil Hajirnis, Pratheusa Maccha, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Purushotham Vodnala, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinias Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati

Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swa Bayyana, Rakesh K Mishra, Divya Tej Sowpati

Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dihiyiga Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati

Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Nishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar, Koushick Sivakumar, Rakesh K Mishra, Divya Tej Sowpati

Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Siva, Kathik Bharadwaj Siva, Kathik Bharadwaj Siva, Kathaki Bharadwaj Siva, Kakade Alshwaya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati

Sofia Banu, Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Gokulan C G, Gunjan Purohit, Hanuman Tulashiram Kale, Pankaj Kumar, Prachandi Issarapu, Rakesh K Mishra, Divya Tej Sowpati

Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,G. Aditya Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati

Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagin, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archara Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Deepak Kumar, Dewi Prasad Vijayashankar, Disha Nanda, Divya Das, Jotin Gogol, Manish Bhattacharjee, Rakesh K Mishra, Divya Tej Sowpati

Lamuk Zaveri, Shagufta Khan, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Taliapaka, Renu Sudhakar, Somesh Gorde, Gangumala Srinivas Reddy, Sujoy Deb, Swatiyayan, Rakesh K Mishra, Diyya Tej Sowpati

Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati

Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivash Barshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Kezia J Ann, Radhika Khandelwal, Roshan Maku Venkata, Shemin Mansuri, Sonu Uday, Rakesh K Mishra, Divya Tej Sowpati

Tulasi Nagabandi, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Diya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bhradwaj Siva, Karthik Bharadwaj Taliapaka, G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Raksek M kishra, Divay Tej Sowpati

Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, G. Aditya Kumar, Koushick Sivakumar, Pooja Ramesh Gupta, Rajan Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati

Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hirinas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati

M Soujanya Reddy, Nikhil Hajirnis, Pratheusa Maccha, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Namami Gaur, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkami, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, G. Aditya Kumar Jha, Shraddha Vijay Lahoti, Rakesh K Mishra, Divya Tej Sowpati

M Soujanya Reddy, Nikhil Hajirnis, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Lamuk Zaveri, Shagufta Khan, Tulasi Nagabandi, Purushotham Vodnala, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hirinusa Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Zeba Rizvi, Zuberwasim Sayyad, Kakade Aishwarya Arun, Amrutha H C, Ananga Ghosh, Rakesh K Mishra, Divya Tej Sowpati

Pratheusa Maccha, Sofia Banu, Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutha Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Tulasi Nagabandi, Purushotham Vodnala, Preethi Jampala, Sharada Ravi Iyer, Sulagana Mukherjee, Swetha Sundar, Pedapuvala Sai Uday Kiran, Rakesh K Mishra, Divya Tej Sowpati
Shashikala Reddy, Mahboob Khan, Lamuk Zaveri, Sofia Banu, Payel Mukherjee, Shagutha Khan, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha,

Shisainkala Reduy, Mahubuu Khan, Lahibik Zaven, Suha bahu, Fayer Mukhejee, Shiguira Khain, Finga Shighi, Shiya Yebagin, Divya Gupta, Yishal Shi, Santosh Kullah Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Mikhil Hajiriis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati

Shashikala Reddy, Mahboob Khan, Onkar Kulkarni, Payel Mukherjee, Sofia Banu, Priya Singh, Dhivja Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutta Khan, Lamuk Zaver, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati

Shashikala Reddy, Mahboob Khan, Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagutfa Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhawi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati

Shashikala Reddy, Mahboob Khan, Namami Gaur, Lamuk Zaveri, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Sofia Banu, Onkar Kulkarni, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hariniyas Harshan, Archana Bharadwai Siya, Karthik Bharadwai Tallabaka, Sakshi Shambhayi, Tulasi Nagabandi.

Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati

Matt Plumb, Jacob Garfin, and Xiong Wang

			Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495278	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Tulasi Nagabandi, Namami Gaur, Lamuk Zaveri,Shagutta Khan,Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Sofia Banu,Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Hariniwas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Sakshi Shambhavi, Purushotham Vodania, Rakesh K Mishra, Divya Tej Sowpata.
EPI_ISL_495279	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Sakshi Shambhavi,Tulasi Nagabandi, Namami Gaur, Lamuk Zaveri,Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Sakshi Shambhavi, Purushotam Vondoria Wangara Karana Ka
EPI_ISL_495280	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Misha, Rakesh Kingh, Oniya Tej Sowpata.
EPI_ISL_495281	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpata
EPI_ISL_495282	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Payel Mukherjee, Sofia Banu, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Misha, Rakesh Kingh, Divya Tej Sowpati.
EPI_ISL_495283	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Namami Gaur, Lamuk Zaveri,Shagufta Khan, Sofia Banu, Onkar Kulkarni, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Sakshi Shambhavi, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpata
EPI_ISL_495284	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Tulasi Nagabandi, Namami Gaur, Lamuk Zaveri,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Taliapaka,Sakshi Shambhavi,Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,
EPI_ISL_495285	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati Shashikala Reddy, Mahboob Khan,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Lamuk Zaveri, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi,
EPI_ISL_495286	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati Shashikala Reddy, Mahboob Khan, Sofia Banu,Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhivya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495287	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Onkar Kulkarni, Sofia Banu,Payel Mukherjee, Priya Singh, Dhiviya Yedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Lamuk Zaveri, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Yodnala, Rakesh K Mishr, Divya Tej Sowpati
EPI_ISL_495288	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Lamuk Zaveri, Sofia Banu,Payel Mukherjee, Shagufta Khan,Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Namami Gaur, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha,Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495289	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Namami Gaur, Lamuk Zaveri, Shagufta Khan, Sofia Banu, Onkar Kulkarni, Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Sakshi Shambhawi, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodania, Rakesh K Mishra, Divya Tej Sowayan.
EPI_ISL_495290	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Tulasi Nagabandi, Namami Gaur, Lamuk Zaveri,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodania, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495291	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Onkar Kulkarni,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Lamuk Zaveri, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodania, Rakesh K Mishruya Tejoya Tejoya Yugiya Tejoya Yangiya Kanada Namara Kanada Kanad
EPI_ISL_495292	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Lamuk Zaveri, Namani Gaur, Sakshi Shambhavi,Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495293	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Lamuk Zaveri, Sofia Banu,Payel Mukherjee, Shagufta Khan,Priya Singh, Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Taligaka, Namami Gaur, Sakshi Shambhawi, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495294	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Onkar Kulkarni, Lamuk Zaveri, Sofia Banu,Payel Mukherjee, Shagufta Khan,Priya Singh, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Taliapaka, Namami Gaur, Sakshi Shankh, Nikhil Hajimis, M Soujanya Reddy, Pratheusa Maccha, Tulasi Nagabandi, Purushotham Vodnala, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495295	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Ohkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Shagufta Khan, Lamuk Zaveri,Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodanda, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495296	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka, Lamuk Zaveri, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Namami Gaur, Sakshi Shambhavi, Tulasi Nagabandi, Purushotham Vodanda, Rakesh K Mishra, Divya Tej Sowpati
EPI_ISL_495297	Osmania Medical College	CSIR-Centre for Cellular and Molecular Biology	Shashikala Reddy, Mahboob Khan,Sakshi Shambhavi,Tulasi Nagabandi, Namami Gaur, Lamuk Zaveri,Shagufta Khan, Sofia Banu,Payel Mukherjee, Priya Singh,Onkar Kulkarni, Dhiviya Vedagiri, Divya Gupta, Vishal Sah, Santosh Kumar Kuncha, Krishnan Harinivas Harshan, Archana Bharadwaj Siva, Karthik Bharadwaj Tallapaka,Sakshi Shambhavi, Nikhil Hajirnis, M Soujanya Reddy, Pratheusa Maccha, Purushotham Vodalai, Rakesh K Mishra, Divya Tej Sowpati
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see above	Virginia DCLS	Virginia DCLS	Virginia DCLS
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see above	Kafkas University, Faculty of Medicine, Department of Medical Microbiology	Kafkas University, Faculty of Medicine, Department of Medical Microbiology	Murat Karamese, Didem Ozgur, E. Ediz Tutuncu
EPI_ISL_495459	Centers for Disease Control and Prevention of Lishui	Department of InspectionCenters for Disease Control and Prevention of Lishui	Wang Xiaoguang, Ji Qiaoying, Ji Jiansong, Ye Bifeng, Ye Ling
			iL 495475, EPI ISL 495476, EPI ISL 495477, EPI ISL 495479, EPI ISL 495480, EPI ISL 495481, EPI ISL 495482, EPI ISL 495483, EPI ISL 495484, EPI ISL 495485, EPI ISL 495486, EPI ISL 495487, IL 495501, EPI ISL 495504, EPI ISL 495505, EPI ISL 495506, EPI ISL 495507, EPI ISL 495508, EPI ISL 495509
see above	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	University of Wisconsin-Madison AIDS Vaccine Research Laboratories	Gage Moreno, Katarina Braun, et al. AIDS Vaccine Research Laboratories
EPI_ISL_495520, EPI_ISL_495527, EPI_ISL_495528, EPI_ISL_495529, EPI_ISL_495530, EPI_ISL_495534	NHLS-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_495535, EPI_ISL_495536, EPI_ISL_495537, EPI_ISL_495538, EPI_ISL_495539, EPI_ISL_495540, EPI_ISL_495541, EPI_ISL_495542	Medical Disagnostics Services (MDS)	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
EPI_ISL_495543, EPI_ISL_495544, EPI_ISL_495546, EPI_ISL_495549, EPI_ISL_495550, EPI_ISL_495557, EPI_ISL_495558, EPI_ISL_495559, EPI_ISL_495561, EPI_ISL_495562	NHLS-IALCH	KRISP, KZN Research Innovation and Sequencing Platform	Giandhari J, Pillay S, Lessells R, Chimukangara B, Mdlalose K, York D, Khan S, Tegally H, Wilkinson E, de Oliveira T
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see above	University of Michigan Clinical Microbiology Laboratory	Lauring Lab, University of Michigan, Department of Microbiology and Immunology	Valesano et al.
EPI_ISL_495597, EPI_ISL_495598, EPI_ISL_495	599, EPI_ISL_495600, EPI_ISL_495601, EPI_ISL_495602, EPI_ISL_495603, EPI_ISL_49 Mayo Clinic & Mayo Clinic Laboratories	5604, EPI_ISL_495605, EPI_ISL_495606, EPI_ISL_495607, EPI_ISL_495608, EPI_ISL_	SL_495609 Matt Plumb, Jarob Garfin, and Xinno Wann

Minnesota Department of Health, Public Health Laboratory

Mayo Clinic & Mayo Clinic Laboratories

see above

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EPI ISL 495628. see above Minnesota Department of Health, Public Health Laboratory Minnesota Department of Health, Public Health Laboratory Matt Plumb, Jacob Garfin, and Xiong Wang EPI_ISL_495634, EPI_ISL_495636 Viral Respiratory Lab, National Institute for Biomedical Research (INRB) Pathogen Sequencing Lab, National Institute for Biomedical Research (INRB) Placide Mbala-Kingebeni, Edith Nkwembe, Eddy Kinganda-Lusamaki, Amuri Aziza, Francisca Muyembe Mawete, Emmanuel Lokilo Lofiko, Catherine Pratt, Matthias Pauthner, Josh Quick, Allison EPI ISL 495637, EPI ISL 495641 Black, James Hadfield, Trevor Bedford, Jan Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum EPI ISL 495642. EPI ISL 495643. EPI ISL 495644. EPI ISL 495646. EPI ISL 495647. EPI ISL 495648. EPI ISL 495649. EPI ISL 495650. EPI ISL 495651. EPI ISL 495652. EPI ISL 495653. see above Washington State Department of Health Seattle Flu Study Deborah A. Nickerson, Chris D. Frazar, Jover Lee, Benjamin Pelle, Matthew Richardson, Amanda Adler, Elisabeth Brandstetter, Peter D. Han, Kairsten Fay, Misja Ilcisin, Kirsten Lacombe, Thomas R. Sibley, Melissa Truong, Caitlin R. Wolf, Romesh Gautom, Geoff Melly, Brian Hiatt, Philip Dykema, Scott Lindquist, Michael Boeckh, Janet A. Englund, Michael Famulare, Barry R. Lutz, Mark J. Rieder, Lea M. Starita, Matthew Thompson, Helen Y. Chu, Jay Shendure, Trevor Bedford EPI ISL 495654, EPI ISL 495655 Seattle Flu Study Seattle Flu Study Deborah A. Nickerson, Chris D. Frazar, Jover Lee, Benjamin Pelle, Matthew Richardson, Amanda Adler, Elisabeth Brandstetter, Peter D. Han, Kairsten Fay, Misja Ilcisin, Kirsten Lacombe, Thomas R. EDI ISI 105657 EDI ISI 105658 Sibley, Melissa Truong, Caitlin R. Wolf, Karen Cowgill, Stephanie Schrag, Jeff Duchin, Michael Boeckh, Janet A. Englund, Michael Famulare, Barry R. Lutz, Mark J. Rieder, Lea M. Starita, Matthew EPI ISL 495659, EPI ISL 495660, Thompson, Helen Y. Chu, Trevor Bedford, Jay Shendure EPI ISL 495661, EPI ISL 495662 FPI ISI 495663 Spattle Flu Study Seattle Flu Study Deborah A. Nickerson, Chris D. Frazar, Jover Lee, Benjamin Pelle, Matthew Richardson, Amanda Adler, Flisabeth Brandstetter, Peter D. Han, Kairsten Fay, Misia Ilcisin, Kirsten Lacombe, Thomas R. Sibley, Melissa Truong, Caitlin R. Wolf, Michael Boerkh, Janet A. Englund, Michael Famulare, Barry R. Lutz, Mark J. Rieder, Lea M. Starita, Matthew Thompson, Jay Shendure, Trevor Bedford, Helen EPI_ISL_495664, EPI_ISL_495665 Seattle Flu Study Seattle Flu Study Deborah & Nickerson Chris D. Frazar, Jover Lee, Renjamin Pelle, Matthew Richardson, Amanda Adler, Flisabeth Brandstetter, Peter D. Han, Kairsten Fay, Misia Ilcisin, Kirsten Lacombe, Thomas R. Sibley, Melissa Truong, Caitlin R. Wolf, Karen Cowgill, Stephanie Schrag, Jeff Duchin, Michael Boeckh, Janet A. Englund, Michael Famulare, Barry R. Lutz, Mark J. Rieder, Lea M. Starita, Matthew Thompson, Helen Y. Chu, Trevor Bedford, Jay Shendure EP ISL 495666, EPI ISL 495667, EPI ISL 495668, EPI ISL 495668, EPI ISL 495668, EPI ISL 495670, EPI ISL 495690, EPI ISL 495690, EPI ISL 495700, EPI ISL 495711, EPI ISL 495711, EPI ISL 495711, EPI ISL 495714, EPI ISL 495720, EPI ISL 495721, EPI ISL 495721, EPI ISL 495722, EPI ISL 495723, EPI ISL 495723, EPI ISL 495733, EPI ISL 495733, EPI ISL 495733, EPI ISL 495734, EPI ISL 495735, EPI ISL 495737, EPI ISL 495736, EPI ISL 495736, EPI ISL 495737, EPI ISL 49574, EPI ISL 495757, EPI ISL 495769, EPI ISL 495771, EPI ISL 495771, EPI ISL 495777, EPI ISL 495773, EPI ISL 495793, EPI ISL 495794, EPI ISL 495794, EPI ISL 495795, EPI ISL 495795, EPI ISL 495795, EPI ISL 495795, EPI ISL 495797, EPI ISL 495795, EPI ISL 495795, EPI ISL 495796, EPI ISL 495797, EPI ISL 495796, EPI ISL 495796, EPI ISL 495796, EPI ISL 495797, EPI ISL 495796, EPI ISL 495796, EPI ISL 495796, EPI ISL 495797, EPI ISL 495796, EPI ISL 495796, EPI ISL 495796, EPI ISL 495797, EPI ISL 495796, EPI ISL 495796, EPI ISL 495796, EPI ISL 495797, EPI ISL 495796, EPI ISL 495796 FPI ISI 495796, FPI ISI 495797, FPI ISI 495797, FPI ISI 495797, FPI ISI 495807, FPI ISI 495807 EPI ISL 495820, EPI ISL 495820, EPI ISL 495821, EPI ISL 495822, EPI ISL 495823, EPI ISL 495823, EPI ISL 495833, EPI ISL 495834, EPI ISL 495834 EPI ISL 495847, EPI ISL 495847, EPI ISL 495847, EPI ISL 495848, EPI ISL 495848, EPI ISL 495869, EPI ISL 495869, EPI ISL 495858, EPI ISL 495858 EPI ISL 495873, EPI ISL 495874, EPI ISL 495874, EPI ISL 495875, EPI ISL 495876, EPI ISL 495876, EPI ISL 495886, EPI ISL 495887, EPI ISL 495886, EPI ISL 495888, EPI ISL 495897, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898, EPI ISL 495888, EPI ISL 495888, EPI ISL 495898, EPI ISL 495898 EPI ISL 495999, EPI ISL 495901, EPI ISL 495902, EPI ISL 495903, EPI ISL 495903, EPI ISL 495904, EPI ISL 495905, EPI ISL 495906, EPI ISL 495909, EPI ISL 495909, EPI ISL 495911, EPI ISL 495911, EPI ISL 495912, EPI ISL 495913, EPI ISL 495913, EPI ISL 495913, EPI ISL 495913, EPI ISL 495914, EPI ISL 495914 see above Washington State Department of Health Seattle Flu Study Deborah A. Nickerson, Chris D. Frazar, Jover Lee, Benjamin Pelle, Matthew Richardson, Amanda Adler, Elisabeth Brandstetter, Peter D. Han, Kairsten Fav, Misia Ilcisin, Kirsten Lacombe, Thomas R. Sibley, Melissa Truong, Caitlin R. Wolf, Romesh Gautom, Geoff EPI ISL 495918, EPI ISL 495919, EPI ISL 495919, EPI ISL 495920, EPI ISL 495920, EPI ISL 495922, EPI ISL 495922, EPI ISL 495924, EPI ISL 495924, EPI ISL 495924, EPI ISL 495924, EPI ISL 495927, EPI ISL 495924, EPI ISL 495934, EPI ISL 495944, EPI ISL 495946, EPI ISL 495946, EPI ISL 495946, EPI ISL 495946, EPI ISL 495947, EPI ISL 495949, EPI ISL 495949, EPI ISL 495974, EPI ISL 495974, EPI ISL 495978, EPI ISL 495978, EPI ISL 495978, EPI ISL 495978, EPI ISL 495974, EPI ISL 495978, EPI ISL 495978, EPI ISL 495974, EPI ISL 495978, EPI ISL 495978, EPI ISL 495974, EPI ISL 495974 EP JS. 499948, EP JS. 499949, EP JS. 499950, EP JS. 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Chu, Jay Shendure, Trevor Bedford EPI_ISL_496350, EPI_ISL_496369, Infectolab Andersen lab at Scripps Research SEARCH Alliance San Diego with Samuel Navarro Alvarez, Carlos A. Cota Haros, Octavio Renteria Pacheco FPI ISI 496374 EPI ISL 496482 1) Antonio Mori, Michela Deiana, Elena Pomari, Chiara Piubelli; 2) Monica Castellucci and Francesca Griggio; 3) Giovanni Malerba Dept. Infectious, Tropical Diseases & Microbiology, IRCCS Sacro Cuore Don 1) Dept. Infectious, Tropical Diseases & Microbiology, IRCCS Sacro Cuore Don Calabria Hospital; 2) Centro Piattaforme Tecnologiche, University of Verona; 3)
Dept. Neurosciences, Biomedicine and Movement Sciences, University of Calabria Hospital EPI ISI 496492 EPI ISI 496497 Viral Respiratory Lab. National Institute for Biomedical Research (INRB) Pathogen Sequencing Lab. National Institute for Biomedical Research (INRB) Placide Mbala-Kingebeni, Edith Nkwembe, Eddy Kinganda-Lusamaki, Amuri Aziza, Francisca Muvembe Mawete, Emmanuel Lokilo Lofiko, Catherine Pratt, Matthias Pauthner, Josh Quick, Allison EPI ISL 496498, EPI ISL 496499. Black, James Hadfield, Trevor Bedford, Jan Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum EPI ISL 496504, EPI ISL 496506 EPI ISL 496509, EPI ISL 496512 EPI ISL 496513, EPI ISL 496514 EPI_ISL_496518, EPI_ISL_496519, Armed Forces Medical College National Centre For Cell Science Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhari Lal, Rajesh Karyakarte, Suvarna Joshi, Murlidhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, EPI ISL 496520 Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium Yogesh S Shouche EPI ISL 496521, EPI ISL 496522, B.J. Govt. Medical College National Centre For Cell Science Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhari Lal, Rajesh Karyakarte, Suvarna Joshi, Murlidhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand EPI_ISL_496523 Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium Yogesh S Shouche EPI_ISL_496524, EPI_ISL_496525, National Centre For Cell Science National Centre For Cell Science Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhari Lal, Rajesh Karyakarte, Suvarna Joshi, Murlidhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium Yoqesh S Shouche EPI_ISL_496526 EPI ISL 496529 Armed Forces Medical College National Centre For Cell Science Dhiraj Paul, Kunal Jani, Radha Chauhan, Janesh Kumar, Vasudevan Seshadri, Girdhari Lal, Rajesh Karyakarte, Suvarna Joshi, Murlidhar Tambe, Sourav Sen, Santosh Karade, Kavita Bala Anand, Shelinder Pal Singh Shergill, Rajiv Mohan Gupta, Manoj Kumar Bhat, Arvind Sahu, Maharashtra COVID-19 Study Group, DBT's PAN-INDIA 1000 SARS-CoV2 RNA genome sequencing consortium Yogesh S Shouche EPI ISL 496530 B.I. 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Part	EPI_ISL_500950	Department of MicroBiology, Government Medical College, Surat	Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Naresh Chauhan, Summaiya Mullan, Amit gamit, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi
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Part	see above	Regional Virus Laboratory, Belfast Health and Social Care Trust	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Goncalves, Ewan Harrison, David K. Jackson, lan Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team
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MARA GALDINO DA ROCHA PITTA, MICHELLY CRISTINY PEREIRA, MARCOS ANTONIO DE MORAIS JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE SUISSA SILVERA, WILSON JOSE DA SILVA JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE SUISSA LETRAD ANA JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE WILSON JOSE DA SILVA JUNIOR, ANTONIO DE MORAIS JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, AUTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, AUTONIO CARLOS DE JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, AUTONIO CARLOS DE JUNIOR, ANTONIO CARLOS DE FRETTAS, VALDIR DE UNISSAN JUNIOR, AUTONIO CARLOS DE JUNIOR, ANTONIO CARLOS DE JUNIOR DE JUNIOR, ANTONIO CARLOS DE JUNIOR, ANTONIO CARLOS DE JUNIOR, ANT		E. Gulbja Laboratorija	Latvian Biomedical Research and Study Centre	Ivars Silamiķelis, Kaspars Megnis, Monta Ustinova, Ņikita Zrelovs, Vita Rovīte, Mikus Gavars, Dmitrijs Perminovs, Uga Dumpis, Jānis Kloviņš
MAIRA GALDINO DA ROCHA PITTA, MICHELLY CRISTINY PEREIRA, REGINALDO GONCALVES DE LIMA NETTO, MARCOS ANTONIO DE MORAIS JUNIOR, ANTONIO CARLOS DE FREITAS, VALDIR DE QUE PLA METTO, MARCOS ANTONIO DE MORAIS JUNIOR, ANTONIO CARLOS DE FREITAS, VALDIR DE QUE PLISE, 5049358, EPL ISL, 5049404 PEP ISL, 504137, EPL ISL, 504177, EPL ISL, 504178, EPL ISL, 504181, EPL ISL, 5	EPI_ISL_502779	LACEN/PE	LABBE, Federal University of Pernambuco	
Md. Saddam Hossain, Tarannum Taznin, Tarsnim Nafisa, Md. Maruf Ahmed Molae Masain, Asiah Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504177, EPI_ISL_504180, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504181, EPI_ISL_504182, EPI_ISL_504182, EPI_ISL_504182, EPI_ISL_504183, EPI_ISL_504183, EPI_ISL_504184, EPI_ISL_504185 EPI_ISL_504185 Discovery DNA Discovery DNA Discovery DNA Discovery DNA Discovery DNA EPI_ISL_505003 Biology Dpt Microbiology and Infections Diseases Emanuelle Billon-Denis, Audrey Ferrier-Rembert, Annabelle Garnier, Laurence Cheutin, Clarisse, Jennie, Tearnie, Tasnim Rafisa, Md. Maruf Ahmed Molla, Mahmuda Yesajib, Md. Salim Khan EPI_ISL_506947, EPI_ISL_506948, Division of Viral Diseases, Center for Laboratory Octortol of Infectious Diseases, Jeong Tae Jeong, Myung Guk Han	EPI_ISL_502875	LACEN/PE	LABBE, Federal University of Pernambuco	MAIRA GALDINO DA ROCHA PITTA, MICHELLY CRISTINY PEREIRA, REGINALDO GONCALVES DE LIMA NETO, MARCOS ANTONIO DE MORAIS JUNIOR, ANTONIO CARLOS DE FREITAS, VALDIR DE
EPI_ISL_504177, EPI_ISL_504178, FPI_ISL_504178, EPI_ISL_5041818, EPI_ISL_5041818, EPI_ISL_5041818, EPI_ISL_5041818, EPI_ISL_504182, Salek Ahmed Sajib, Md. Salim Khan EPI_ISL_504183, EPI_ISL_504183, EPI_ISL_504184 EPI_ISL_504185 EPI_ISL_504185 Discovery DNA EPI_ISL_505033 Biology Dpt Microbiology and Infections Diseases Emmanuelle Billon-Denis, Audrey Ferrier-Rembert, Annabelle Garnier, Laurence Cheutin, Clariscs Univer Gorgé, Flora Nolent, Isabelle Drouet, Noémie Verguet, Olivier Ferraris, Jean-Pinch Cheutin, Clariscs Cheutin, Clarisc	EPI_ISL_503958, EPI_ISL_504040	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Saddam Hossain, Tarannum Taznin, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray,
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EPI_ISL_506947, EPI_ISL_506948, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Center for Laboratory Control of Infectious Diseases, Jeong-Min Kim, Yoon-Seok Chung, Namjoo Lee, Sang Hee Woo, Hye-Jun Jo, Heui Man Kim, Jun-Sub Kim, Dong Hyun Song, Daesang Lee, Seong Tae Jeong, Myung Guk Han			Microbiology and Infections Diseases	Emmanuelle Billon-Denis, Audrey Ferrier-Rembert, Annabelle Garnier, Laurence Cheutin, Clarisse Vigne, Emilie Tessier, Jessica Denis, Olivier Gorgé, Flora Nolent, Isabelle Drouet, Noémie Verguet,
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Jeong-Min Kim, Yoon-Seok Chung, Namjoo Lee, Sang Hee Woo, Hye-Jun Jo, Heui Man Kim, Jun-Sub Kim, Myung Guk Han EDI ISI 506050 EDI ISI 506060 Korea Centers for Diseases Control and Prevention Korea Centers for Diseases Control and Prevention FPI ISI 506961, FPI ISI 506962 EPI ISL 506963, EPI ISL 506964 FPI ISI 506965, FPI ISI 506966 Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division On Center for Laboratory Control of Infectious Diseases, Division Center for Laboratory Cen Jeong-Min Kim, Yoon-Seok Chung, Namjoo Lee, Sang Hee Woo, Hye-Jun Jo, Heui Man Kim, Jun-Sub Kim, Dong Hyun Song, Daesang Lee, Seong Tae Jeong, Myung Guk Han FPI ISI 506967, FPI ISI 506968 Korea Centers for Diseases Control and Prevention Korea Centers for Diseases Control and Prevention EPI ISL 506969, EPI ISL 506970, EPI ISI 506971 EPI ISI 506972 EPI ISL 506973, EPI ISL 506974 EPI ISL 506975 Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Jeong-Min Kim, Yoon-Seok Chung, Namjoo Lee, Sang Hee Woo, Hye-Jun Jo, Heui Man Kim, Jun-Sub Kim, Myung Guk Han Korea Centers for Diseases Control and Prevention Korea Centers for Diseases Control and Prevention EPI ISL 506976, EPI ISL 506977, EPI ISL 506977, EPI ISL 506978, EPI ISL 506979, EPI ISL 506980, EPI ISL 506980, EPI ISL 506981, EPI ISL 506982, EPI ISL 506982, EPI ISL 506983, EPI ISL 506984, EPI ISL 506985, EPI ISL 506986, EPI ISL 506988, EPI ISL 506999, EPI ISL 506990, EPI ISL 506990, EPI ISL 506990, EPI ISL 506991, EPI ISL 506992, EPI ISL 506992, EPI ISL 506984, EPI ISL 506984, EPI ISL 506986, EPI ISL 506987, EPI ISL 506988, EPI ISL 506989, EPI ISL 506990, EPI ISL 506990, EPI ISL 506991, EPI ISL 506987, EPI ISL 506987, EPI ISL 506991, EPI ISL 506981, EPI ISL 506987, EPI ISL 506987, EPI ISL 506987, EPI ISL 506989, EPI ISL 506989, EPI ISL 506980, EPI ISL 506981, EPI ISL 506981, EPI ISL 506987, EPI ISL 506981, EPI ISL 506981 Division of Viral Diseases. 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Center for Laboratory Control of Infectious Diseases. leong-Min Kim, Yoon-Seok Chung, Namioo Lee, Sang Hee Woo, Hye-lun lo, Heui Man Kim, lun-Sub Kim, Dong Hyun Song, Daesang Lee, Seong Tae leong, Myung Guk Han see above Korea Centers for Diseases Control and Prevention EPI_ISL_506994, EPI_ISL_506995 Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Jeong-Min Kim, Yoon-Seok Chung, Namjoo Lee, Sang Hee Woo, Hye-Jun Jo, Heui Man Kim, Jun-Sub Kim, Myung Guk Han Korea Centers for Diseases Control and Prevention Korea Centers for Diseases Control and Prevention EPI_ISL_506996 Department of Medical Microbiology, University Malaya Medical Centre Department of Medical Microbiology, Faculty of Medicine, University of Malaya Yoong Min CHONG, Jennifer Chong, I-Ching SAM, Yoke Fun CHAN, University Malaya Medical Centre COVID Team EPI_ISL_507002, EPI_ISL_507003, EPI_ISL_507004, EPI_ISL_507005, Department of Laboratory Medicine, Tan Tock Seng Hospital Department of Laboratory Medicine, Tan Tock Seng Hospital Chen YYC, Zair X, Li C, Tang WY, Maurer-Stroh S, Barkham TMS, Nagarajan N, Sessions OM EPI_ISL_507008 National Veterinary Institute National Veterinary Institute Siamak Zohari EPI ISL _507010, EPI ISL _507011, EPI ISL _507011, EPI ISL _507012, EPI ISL _507023, EPI ISL _507023, EPI ISL _507024, EPI ISL _507025, EPI ISL _507025, EPI ISL _507028, EPI ISL _507026, EPI ISL _507029, EPI ISL _507029, EPI ISL _507029, EPI ISL _507031, EPI ISL _507029, EPI ISL _507031, EPI ISL _507024, EPI ISL _507025, EPI ISL _507025, EPI ISL _507026, EPI ISL _507027, EPI IS EPI_ISL_507034, EPI_ISL_507035, EPI_ISL_507036, EPI_ISL_507037, EPI_ISL_507038 Infectious Diseases Research, King Abdullah International Medical Research see above Center (KAIMPC) EPI ISL 507039 Department of Microbiology, College of Medicine and Medical Research Department of Microbiology, College of Medicine and Medical Research Young-Il Kim, Mark Anthony B. Casel, Se-Mi Kim, Seong-Gyu Kim, Su-Jin Park, Eun-Ha Kim, Hye Won Jeong, Young Ki Choi Institute Chungbuk National University Institute Chungbuk National University EPI_SL_507040, EPI_SL_507041, EPI_SL_507041, EPI_SL_507042, EPI_SL_507042, EPI_SL_507043, EPI_SL_507063, EPI_SL_507064, EPI_SL_507065, EPI_SL_507066, EPI_SL_507066, EPI_SL_507055, EPI_SL_507066, EPI_SL_507057, EPI_SL_507067, EPI_SL_507057, EPI_SL_507067, EPI_SL_507057, EPI_SL_507057, EPI_SL_507057, EPI_SL_507057, EPI_SL_507067, EPI_SL FPI ISL 507069, FPI ISL 507070, FPI ISL 507070, FPI ISL 507071, FPI ISL 507077, FPI ISL 50707, FPI EPI ISL 507096, EPI ISL 507097, EPI ISL 507098, EPI ISL 507103, EPI ISL 507104, EPI ISL 507105, EPI ISL 507107, EPI ISL 507108 see above University College London Hospital COVID-19 Genomics UK (COG-UK) Consortium Judith Heaney, Matthew Byott, Catherine Houlihan, Dan Frampton, Stuart Kirk, Moira Spyer and Eleni Nastouli EPI_SL_507110, EPI_SL_507111, EPI_SL_507112, EPI_SL_507112, EPI_SL_507113, EPI_SL_507113, EPI_SL_507114, EPI_SL_507126, EPI_SL_507127, EPI_SL_507127, EPI_SL_507123, EPI_SL_507123, EPI_SL_507124, EPI_SL_507125, EPI_SL_507126, EPI_SL_507127, EPI_SL Northumbria University / South Tees Hospitals NHS Foundation Trust / North COVID-19 Genomics UK (COG-UK) Consortium Darren L Smith Andrew Nelson, Matthew Bashton, Greg R Young, Joshua Loh, John Allan, Mohammad A Tarig, Giles S Holt, Gary Black, Wen C Yew, Lynn Dover, Paul Baker, Steve Liggett, Sarah see above Cumbria Integrated Care NHS Foundation Trust / North Tees and Hartlepoo Essex, Jane Greenaway, Debra Padgett, Clive Graham, Garren Scott, Edward Barton, Emma Swindells, Brendan Payne, Jennifer Collins, Yusri Taha, Gary Eltringham NHS Foundation Trust / Newcastle Hospitals NHS Foundation Trust EPI ISL 507131. 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Trust/Department of Infection, Immunity and Cardiovascular Disease, The Partridge, Matthew Wyles, Benjamin Lindsey, Mehmet Yayuz, Mohammad Raza, Cariad Eyans EPI_ISL_507179 Medical School, University of Sheffield FPI ISI 507180, FPI ISI 507181. Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of COVID-19 Genomics UK (COG-UK) Consortium McHugh M. Dewar R. Rooke S. Gallagher M. Balcaza C. O'Toole Á. Scher F. Hill V. McCrone IT. Colguboun R. Yu X. Jackson B. Rambaut A. Williams TC. Templeton K EPI_ISL_507184, EPI_ISL_507185 Biological Sciences, University of Edinburgh / Institute of Genetics and FPI ISI 507188 FPI ISI 507192 Molecular Medicine, University of Edinburgh FPI_ISI_507196, FPI_ISI_507200. EPI_ISL_507201 EPI_ISL_507205 WHO National Influenza Centre Russian Federation WHO National Influenza Centre Russian Federation Andrey Komissarov, Artem Fadeev, Mariia Sergeeva, Anna Ivanova, Daria Danilenko FPI ISI 507206. FPI ISI 507207 Department of Experimental Modeling and Pathogenesis of Infectious Diseases WHO National Influenza Centre Russian Federation Andrey Komissarov, Artem Fadeev, Mariia Sergeeva, Anna Ivanova, Daria Danilenko EPI_ISL_507208, EPI_ISL_507209 EPI ISI 507210 EPI ISI 507211 EPI ISL 507212, EPI ISL 507213 EPI ISL 507214, EPI ISL 507215 EPI ISL_507216, EPI ISL_507217, EPI ISL_507217, EPI ISL_507218, EPI ISL_507221, EPI ISL_507220, EPI ISL_507222, EPI ISL_507223, EPI ISL_507223, EPI ISL_507234, EPI ISL_507244, EPI ISL_507244 EPI ISL 507264, EPI ISL 507265, EPI ISL 507265, EPI ISL 5072766, EPI ISL 507276, EPI ISL 507277, EPI ISL 507278, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 507287, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 507287, EPI ISL 507287, EPI ISL 507277, EPI ISL 507287, EPI ISL 507287, EPI ISL 507277, EPI ISL 507277, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 507277, EPI ISL 507277, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 507287, EPI ISL 507277, EPI ISL 507277, EPI ISL 507287, EPI ISL 50728 EPI ISL 507288, EPI ISL 507289, EPI ISL 507290, EPI ISL 507291, EPI ISL 507292, EPI ISL 507293, EPI ISL 507294, EPI ISL 507295, EPI ISL 507296 WHO National Influenza Centre Russian Federation WHO National Influenza Centre Russian Federation see above Andrey Komissarov, Artem Fadeey, Marija Sergeeya, Anna Ivanova, Daria Danilenko EPI_ISL_507297, EPI_ISL_507298, Republican Medical Genetics Center WHO National Influenza Centre Russian Federation Andrey Komissarov, Artem Fadeev, Mariia Sergeeva, Anna Ivanova, Ildar Minniakhmetov, Rita Khusainova, Daria Danilenko EPI_ISL_507299 EPI ISL 507300 WHO National Influenza Centre Russian Federation WHO National Influenza Centre Russian Federation Andrey Komissarov, Artem Fadeev, Mariia Sergeeva, Anna Ivanova, Daria Danilenko EPI ISL 507431, EPI ISL 507434, EPI ISL 507434, EPI ISL 507435, EPI ISL 507435, EPI ISL 5074745, EPI ISL 5074749, EPI ISL 507444, EPI ISL 507444, EPI ISL 507444, EPI ISL 507445, EPI ISL 507445, EPI ISL 507456, EPI ISL 507467, EPI ISL 507469, EPI ISL 507469, EPI ISL 507470, EPI ISL 507471, EPI ISL 507467, EPI ISL 507471, EPI ISL 5074 EPI ISL 507604, EPI ISL 507605, EPI ISL 507606, EPI ISL 507606, EPI ISL 507606, EPI ISL 507606, EPI ISL 507612, EPI ISL 507612, EPI ISL 507613, EPI ISL 507614, EPI ISL 507613, EPI ISL 507614, EPI ISL 507614, EPI ISL 507614, EPI ISL 507615, EPI ISL 507615, EPI ISL 507614, EPI ISL 507614, EPI ISL 507615, EPI ISL 507617, EPI ISL 507617 EPI ISL 507688, EPI ISL 507689, EPI ISL 507689, EPI ISL 507704, EPI ISL 507709, EPI ISL 507707, EPI ISL 507709, EPI ISL 507709, EPI ISL 507709, EPI ISL 507707, EPI ISL 507709, EPI ISL 507709, EPI ISL 507709, EPI ISL 507709, EPI ISL 507707, EPI ISL 507707, EPI ISL 507707, EPI ISL 507709, EPI ISL 507709 EPI ISL 507780, EPI ISL 507781, EPI ISL 507781, EPI ISL 507782, EPI ISL 507783, EPI ISL 507783, EPI ISL 507783, EPI ISL 507783, EPI ISL 507784, EPI ISL 507785, EPI ISL 507785, EPI ISL 5077878, EPI ISL 507787, EPI ISL 507897, EPI ISL 507907, EPI ISL 507897, EPI ISL 50789 EPĪ ISL 507915, EPĪ ISL 507916, EPĪ ISL 507917, EPĪ ISL 507919, EPĪ ISL 507919, EPĪ ISL 507920, EPĪ ISL 507921, EPĪ ISL 507922, EPĪ ISL 507922, EPĪ ISL 507923, EPĪ ISL 507924, EPĪ ISL 507925, EPĪ ISL 507926, EPĪ ISL 507927, EPĪ ISL 507928, EPĪ ISL 507930, EPĪ ISL 507931, EPĪ ISL 507931, EPĪ ISL 507932, EPĪ ISL 507932, EPĪ ISL 507933, EPĪ ISL 507934, EPĪ ISL 507935, EPĪ ISL 507934, EPĪ ISL 507934 Michigan Department of Health and Human Services, Bureau of Laboratories Michigan Department of Health and Human Services, Bureau of Laboratories Blankenship HM, Riner D, Soehnlen MK see above Minnesota Department of Health, Public Health Laboratory Minnesota Department of Health, Public Health Laboratory Matt Plumb, Jacob Garfin, and Xiong Wang Mayo Clinic & Mayo Clinic Laboratories Minnesota Department of Health, Public Health Laboratory Matt Plumb, Jacob Garfin, and Xiong Wang

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EPI ISL 507961 EPI ISL 507962 Children's Hospitals and Clinics of Minnesota Minnesota Department of Health, Public Health Laboratory Matt Plumb, Jacob Garfin, and Xiong Wang EPI_ISL_507963, EPI_ISL_507964, Avera Mckennan Laboratory Minnesota Department of Health, Public Health Laboratory Matt Plumb, Jacob Garfin, and Xiong Wang FPI ISI 507965 FPI ISI 507966

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EPI_SL_507984, EPI_JSL_507985, EPI_JSL_507985, EPI_JSL_507996, EPI_JSL_507996, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508002, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_50807, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_507997, EPI_JSL_507997, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_50807, EPI_JSL_508007, EPI_JSL_508007, EPI_JSL_50807, EP EPI ISL 508009, EPI ISL 508009, EPI ISL 508010, EPI ISL 508011, EPI ISL 508012, EPI ISL 508012, EPI ISL 508028, EPI ISL 508027, EPI ISL 508028, EPI ISL 508014, EPI ISL 508028, EPI ISL 508014, EPI ISL 508014, EPI ISL 508028, EPI ISL 508028 EPI ISL 508033, EPI ISL 508034, EPI ISL 508035, EPI ISL 508035, EPI ISL 508036, EPI ISL 508037, EPI ISL 508037 EPISL 508082, EPISL 508083, EPISL 508083, EPISL 508084, EPISL 508084, EPISL 508086, EPISL 508086, EPISL 508096, EPISL 508096, EPISL 508097, EP EPÜSL_508106, EPÜSL_508107, EPÜSL_508108, EPÜSL_508109, EPÜSL_508110, EPÜSL_508111, EPÜSL_508112, EPÜSL_508113, EPÜSL_508114, EPÜSL_508115, EPÜSL_508115, EPÜSL_508117, EPÜSL_508118, EPÜSL_508119, EPÜSL_508120, EPÜSL_508121

Daryl Domman, Kurt Schwalm, Twila Kunde, Joseph Hicks, Michael Edwards, Darrell Dinwiddie

EPI ISL 508122, EPI ISL 508123, EPI ISL 508123, EPI ISL 508124, EPI ISL 508124, EPI ISL 508125, EPI ISL 508136, EPI ISL 508136, EPI ISL 508137, EPI ISL 508137, EPI ISL 508137, EPI ISL 508139, EPI ISL 508139, EPI ISL 508142, EPI ISL 508142, EPI ISL 508142, EPI ISL 508137, EPI ISL 508137, EPI ISL 508137, EPI ISL 508137, EPI ISL 508149, EPI ISL 508149, EPI ISL 508142, EPI ISL 508137, EPI ISL 508137, EPI ISL 508137, EPI ISL 508138, EPI ISL 508139, EPI ISL 508142, EPI ISL 508139, EPI ISL 508139

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EPI ISL 508207, EPI ISL 508208, EPI ISL 508208, EPI ISL 508209, EPI ISL 508209, EPI ISL 508216, EPI ISL 508216, EPI ISL 508217, EPI ISL 508217, EPI ISL 508218, EPI ISL 508217, EPI ISL 508227, EPI ISL 508228, EPI ISL 508227, EPI ISL 508227, EPI ISL 508227, EPI ISL 508228, EPI ISL 508228, EPI ISL 508229, EPI ISL 508229, EPI ISL 508228, EPI ISL 508218, EPI ISL 508219, EPI ISL 508218, EPI ISL 508219, EPI ISL 508229, EPI ISL 508229, EPI ISL 508229, EPI ISL 508229, EPI ISL 508219, EPI ISL 508219, EPI ISL 508229, EPI ISL 508229, EPI ISL 508229, EPI ISL 508219, EPI ISL 508229, EPI ISL 508219, EPI ISL 508219, EPI ISL 508229, EPI ISL 508219, EPI ISL 508229, EPI ISL 508229 FRING SOR221 FRING SOR222 FRING EPI ISL 508255, EPI ISL 508256, EPI ISL 508256, EPI ISL 508257, EPI ISL 508257, EPI ISL 508263, EPI ISL 508264, EPI ISL 508276, EPI ISL 508267, EPI ISL 508267, EPI ISL 508267, EPI ISL 508276, EPI ISL 508278, EPI ISL 508278, EPI ISL 508264, EPI ISL 508278, EPI ISL 508264, EPI ISL 508264 EPI ISL 508279, EPI ISL 508280, EPI ISL 508281, EPI ISL 508282, EPI ISL 508283, EPI ISL 508284, EPI ISL 508285, EPI ISL 508286

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FPI ISL 508287, FPI ISL 508288, FPI ISL 508289, FPI ISL 508290, FPI ISL 508290, FPI ISL 508303, FPI ISL 508304, FPI ISL 508305, FPI ISL 508307, FPI ISL 508307 EPI ISL 508311, EPI ISL 508312, EPI ISL 508312, EPI ISL 508313, EPI ISL 508313, EPI ISL 508315, EPI ISL 508321, EPI ISL 508327, EPI ISL 508329, EPI ISL 508329, EPI ISL 508329, EPI ISL 508331, EPI ISL 508331, EPI ISL 508332, EPI ISL 508333, EPI ISL 508333, EPI ISL 508324, EPI ISL 508324, EPI ISL 508327, EPI ISL 508327, EPI ISL 508331, EPI ISL 508331, EPI ISL 508329, EPI ISL 508329, EPI ISL 508329, EPI ISL 508329, EPI ISL 508331, EPI ISL 508331, EPI ISL 508331, EPI ISL 508331, EPI ISL 508332, EPI ISL 508329, EPI ISL 508331, EPI ISL 508331, EPI ISL 508332, EPI ISL 508331, EPI ISL 508331 EPI ISL 508336, EPI ISL 508337

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EPI ISL 508411, EPI ISL 508412, EPI ISL 508413, EPI ISL 508414

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EPI_ISL_508417, EPI_ISL_508418, EPI ISL 508419, EPI ISL 508420 FPI ISI 508421, FPI ISI 508422

EPI ISI 508415 EPI ISI 508416

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EPI_ISL_508489, EPI_ISL_508490, EPI_ISL_508490, EPI_ISL_508491, EPI_ISL_508491, EPI_ISL_508493, EPI_ISL_508504, EPI_ISL_508507, EPI_ISL_508507, EPI_ISL_508508, EPI_ISL_508508, EPI_ISL_508508, EPI_ISL_508507, EPI_ISL_508507, EPI_ISL_508508, EPI_ISL_508508, EPI_ISL_508507, EPI_ISL_508507, EPI_ISL_508507, EPI_ISL_508508, EPI_ISL_508507, EPI_ISL_508508, EPI_ISL_508507, EPI_ISL_508508, EPI_ISL_508507, EPI_ISL_508507, EPI_ISL_508507

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EPI_ISL_508688, EPI_ISL_508690, EPI_ISL_508691, EPI_ISL_508693, EPI_ISL_508694, EPI_ISL_508694, EPI_ISL_508696, EPI_ISL_508697, EPI_ISL_508699, EPI_ISL_508700, EPI_ISL_508701, EPI_ISL_508702, EPI_ISL_508703, EPI_ISL_508704

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EPI_ISL_508865	Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich	Institute of Medical Virology, University of Zurich	Maryam Zaheri, Verena Kufner, Dana Weissberg, Jürg Böni, Silvana K. Rampini, Peter W. Schreiber, Irene A. Abela, Hugo Sax, Aline Wolfensberger, Michael Huber
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EPI_ISL_508867	Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich	Institute of Medical Virology, University of Zurich	Maryam Zaheri, Verena Kufner, Dana Weissberg, Jürg Böni, Silvana K. Rampini, Peter W. Schreiber, Irene A. Abela, Hugo Sax, Aline Wolfensberger, Michael Huber
EPI_ISL_508868	Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich	Institute of Medical Virology, University of Zurich	Verena Kufner, Maryam Zaheri, Dana Weissberg, Jürg Böni, Silvana K. Rampini, Peter W. Schreiber, Irene A. Abela, Hugo Sax, Aline Wolfensberger, Michael Huber
EPI_ISL_508869	Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich	Institute of Medical Virology, University of Zurich	Maryam Zaheri, Verena Kufner, Dana Weissberg, Jürg Böni, Silvana K. Rampini, Peter W. Schreiber, Irene A. Abela, Hugo Sax, Aline Wolfensberger, Michael Huber
EPI_ISL_508870	Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich	Institute of Medical Virology, University of Zurich	Verena Kufner, Maryam Zaheri, Dana Weissberg, Jürg Böni, Silvana K. Rampini, Peter W. Schreiber, Irene A. Abela, Hugo Sax, Aline Wolfensberger, Michael Huber
EPI_ISL_508871, EPI_ISL_508872,	Institut des Agents Infectieux (IAI), Hospices Civils de Lyon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette,

EPI_ISL_508873, EPI_ISL_508874 Bruno Lina, Laurence losset EPI_ISL_508875, EPI_ISL_508876 Centre Hospitalier de Macon CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette Bruno Lina Laurence Josset

EPI ISL 508877 Institut des Agents Infectieux (IAI), Hospices Civils de Lyon CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette Bruno Lina, Laurence losse

EPI_ISL_508878 GH Les Portes du Sud CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset EPI ISL 508879, EPI ISL 508880 Centre Hospitalier Saint Joseph Saint Luc CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset

FPI ISI 508881 Centre Hospitalier de Valence Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherna, Martine Valette CNR Virus des Infections Respiratoires - France SUD Bruno Lina, Laurence Josset EPI_SL_508882, EPI_JSL_508883, EPI_SL_508883, EPI_SL_508884, EPI_JSL_508884, EPI_JSL_508895, EPI_JSL_508895, EPI_JSL_508900, EPI_JSL_508900, EPI_JSL_508897, EPI_JSL_508897, EPI_JSL_508900, EPI_JSL_508890, EPI_JSL_508900, E

see above Institut des Agents Infectieux (IAI), Hospices Civils de Lyon CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset

EPI_ISL_508912, EPI_ISL_508913, EPI_ISL_508914, EPI_ISL_508915, EPI_ISL_508915, EPI_ISL_508916, EPI_ISL_508917, EPI_ISL_508917, EPI_ISL_508918, EPI_ISL_508920, EPI_ISL_508921, EPI_ISL_508922, EPI_ISL_508924, EPI_ISL_508924, EPI_ISL_508926, EPI_ISL_508927, EPI_ISL_508927, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508929, EPI_ISL_508929, EPI_ISL_508929, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508929, EPI_ISL_508929, EPI_ISL_508929, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508928, EPI_ISL_508929, EPI_ISL_508929, EPI_ISL_508928, EPI_ISL_508928

see above	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset
EPI_ISL_508931	L'Hôpital Nord-Ouest Tarare-Grandris	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset

EPI_ISL_508932 Centre Hospitalier de Villefranche CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette Bruno Lina, Laurence losset EPI ISL 508933 CNR Virus des Infections Respiratoires - France SUD CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette Bruno Lina, Laurence Josset

EPI_ISL_508934, EPI_ISL_508935 Centre hospitalier Métropole Savoie CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette Bruno Lina, Laurence Josset EPI ISL 508936 Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette EPI ISL 508937 CNR Virus des Infections Respiratoires - France SUD CNR Virus des Infections Respiratoires - France SUD

EPI_ISL_508938 Centre Hospitalier de Bourg en Bresse CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset EPI ISL 508939, EPI ISL 508940, CNR Virus des Infections Respiratoires - France SUD CNR Virus des Infections Respiratoires - France SUD Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette,

EPI_ISL_508943	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508944	Centre Hospitalier de Bourg en Bresse	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508945	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508946	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508947	Centre Hospitalier Lucien Hussel	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508948	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508949, EPI_ISL_508950	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Rahpaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508951	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508952	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508953, EPI_ISL_508954, EPI_ISL_508955, EPI_ISL_508956, EPI_ISL_508957	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508958	Centre Hospitalier Alpes Leman	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508959, EPI_ISL_508960	Centre Hospitalier Saint Joseph Saint Luc	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508961, EPI_ISL_508962, EPI_ISL_508964, EPI_ISL_508965	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508966	Centre Hospitalier Pierre Oudot	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508967	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508968	Centre Hospitalier de Bourg en Bresse	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508969, EPI_ISL_508970, EPI_ISL_508972, EPI_ISL_508973, EPI_ISL_508974	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508975	Centre Hospitalier Pierre Oudot	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508976, EPI_ISL_508977	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508978	Centre Hospitalier de Villefranche	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508979, EPI_ISL_508980, EPI_ISL_508981, EPI_ISL_508982, EPI_ISL_508983, EPI_ISL_508984, EPI_ISL_508985	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508986, EPI_ISL_508987	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508990, EPI_ISL_508991, EPI_ISL_508993, EPI_ISL_508994, EPI_ISL_508995, EPI_ISL_508996, EPI_ISL_508997	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508998	Centre Hospitalier Pierre Oudot	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_508999, EPI_ISL_509000, EPI_ISL_509001, EPI_ISL_509002	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509003, EPI_ISL_509004	GH Les Portes du Sud	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509005	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509006	Centre Hospitalier de Villefranche	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509007, EPI_ISL_509008, EPI_ISL_509009, EPI_ISL_509010, EPI_ISL_509011	Institut des Agents Infectieux (IAI), Hospices Civils de Lyon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509012	Centre Hospitalier Alpes Leman	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509013, EPI_ISL_509014	Institut des Agents Infectieux (IAI), Hospices Civils de Lyon	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509015	Centre Hospitalier de Villefranche	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509016	Centre Hospitalier du Haut-Bugey	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal, Gregory Destras, Gwendolyne Burfin, Solenne Brun, Carine Moustaud, Raphaelle Lamy, Alexandre Gaymard, Maude Bouscambert-Duchamp, Florence Morfin-Sherpa, Martine Valette, Bruno Lina, Laurence Josset	
EPI_ISL_509017, EPI_ISL_509018, EPI_ISL_509019, see above	EPI_ISL_509020, EPI_ISL_509021, EPI_ISL_509022, EPI_ISL_509023, EPI_ISL_50902	4, EPI_ISL_509026, EPI_ISL_509028, EPI_ISL_509029, EPI_ISL_509031, EF genXone SA, Research & Development Laboratory	PI_ISL_509033, EPI_ISL_509035, EPI_ISL_509037, EPI_ISL_509038, EPI_ISL_509051	
	genXone SA, Molecular Diagnostics Laboratory / NZOZ		Maciej Sykulski, Grzegorz Nowicki, Monika Mańkowska-Woźniak, Jakuł Grabowski, Natalia Drwęska-Matelska, Łukasz Krych, Michał Kaszuba	
EPI ISL_509059, EPI ISL_509060, EPI ISL_509061, EPI ISL_509061, EPI ISL_509062, EPI ISL_509064, EPI ISL_509064, EPI ISL_509066, EPI ISL_509066, EPI ISL_509066, EPI ISL_509066, EPI ISL_509066, EPI ISL_509066, EPI ISL_509067, EPI ISL_509067, EPI ISL_509077, EPI ISL_509077, EPI ISL_509077, EPI ISL_509077, EPI ISL_509087, EPI ISL_509087				
See above	OHSU Lab Services Molecular Microbiology Lab	5, EM_ISL_509206, EM_ISL_509208, EM_ISL_509209, EM_ISL_509210, EM Oregon SARS-CoV-2 Genome Seguencing Center	"I_DL_509211, EPI_DL_509212, EPI_DL_509213, EPI_DL_509214 Representation from Representation of the Represent	

see above OHSU Lab Services Molecular Microbiology Lab Oregon SARS-CoV-2 Genome Sequencing Center Brendan L. O'Connell, Ruth V. Nichols, Sally B. Grindstaff, Alec J. Hirsch, Guang Fan, Daniel N. Streblow, William B. Messer, Andrew C. Adey, Benjamin N. Bimber, Brian J. O'Roak EPI_ISL_509222 Division of Infectious Diseases and Hospital Epidemiology, University Hospital Institute of Medical Virology, University of Zurich Maryam Zaheri, Verena Kufner, Dana Weissberg, Iürg Böni, Silvana K, Rampini, Peter W, Schreiber, Irene A, Abela, Hugg Sax, Aline Wolfensberger, Michael Huber Zürich

EPI_ISL_509223, EPI_ISL_509224, EPI_ISL_509224, EPI_ISL_509224, EPI_ISL_509225, EPI_ISL_509226, EPI_ISL_509226, EPI_ISL_509230, EPI_ISL_509237, EPI_ISL_509237, EPI_ISL_509237, EPI_ISL_509237, EPI_ISL_509237, EPI_ISL_509244, EPI_ISL_509244, EPI_ISL_509247, EPI_ISL_509244, EPI_ISL_509244, EPI_ISL_509244, EPI_ISL_509247, EPI_ISL_509253, EPI_ISL_509253, EPI_ISL_509253, EPI_ISL_509253, EPI_ISL_509253, EPI_ISL_509254, EPI_ISL_5092554, EPI EPŢĪSL_509354, EPŢĪSL_509355, EPŢĪSL_509356, EPŢĪSL_509357, EPŢĪSL_509357, EPŢĪSL_509368, EPŢĪSL_509368, EPŢĪSL_509369, EPŢ

KRISP, KZN Research Innovation and Sequencing Platform

Giandhari J, Pillay S, Lessells R, Mdlalose K, York D, Tegally H, Wilkinson E, de Oliveira T

Nick Levene, Louise Lopez, Lynn Monaghan, Jessica Scott, Claudia McCrea and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K, Jackson, Jan Johnston, Dominic

FPI ISI 509424, EPI ISL 509425 Microbiology and Immunology, University of South Alabama Microbiology and Immunology, University of South Alabama EPI_ISL_509426, EPI_ISL_509427 EPI_ISL_509428, EPI_ISL_509429 EPLISI 509430 EPLISI 509431 Centro de Desenvolvimento Tecnologico em Saude, Fundação Oswaldo Cruz Centro de Desenvolvimento Tecnologico em Saude, Fundação Oswaldo Cruz Souza, T.M., Fintelman-Rodrigues, N., De Paula, A.D., Saraiva, F.B., Ferreira, M.A., Sacramento, C.O., Medeiros, M.A. EPI_ISL_509432, EPI_ISL_509433,

EPI ISL 509440, EPI ISL 509442, Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) FPI ISI 509443

FP ISL 509444 FPI ISL 509445 FPI ISL 509445 FPI ISL 509446 FPI ISL 509446 FPI ISL 509467 FPI ISL EPI ISL. 509468, EPI ISL. 5094469, EPI ISL. 5094476, EPI ISL. 5094476, EPI ISL. 5094476, EPI ISL. 5094476, EPI ISL. 5094489, EPI ISL. 5094476, EPI ISL. 5094489, EPI ISL. 5094 CSL, Maryland Department of Health

EPI_ISL_509492, EPI_ISL_509493, EPI_ISL_5094943, EPI_ISL_509494, EPI_ISL_509494, EPI_ISL_509494, EPI_ISL_509497, EPI_ISL_509497, EPI_ISL_509512, EPI_ISL_509514, EPI_ISL_50951

Area of Virology, Serology and Virology Division (SAVID), New South Wales see above Area of Virology, Serology and Virology Division (SAViD), New South Wales Health Pathology Randwick Health Pathology Randwick

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EPI ISL _509528, EPI ISL _509529, EPI ISL _509529, EPI ISL _509530, EPI ISL _509530, EPI ISL _509531, EPI ISL _509531, EPI ISL _509531, EPI ISL _509531, EPI ISL _509537, EPI ISL _509540, EPI ISL _509540, EPI ISL _509576, EPI ISL _509568, EPI ISL _509576, EPI ISL _509540, EPI ISL _509576, EPI ISL _509576, EPI ISL _509577, EPI IS EPI ISL 509580, EPI ISL 509585, EPI ISL 509588, EPI ISL 509589, EPI ISL 509590, EPI ISL 509592

Utah Public Health Laboratory Utah Public Health Laboratory Heidi Butz, Erin Young, Kelly Oakeso

EPI_ISL_509616, EPI_ISL_509617, Hospital Universitario Araba, Vitoria-Gasteiz SeaCOVID-SPAIN consortium/IBV(CSIC) Silvia Hernáez Crespo, Carmen Gómez González, Amaia Aquirre Quiñonero, Marina Fernández Torres, Mª Rosario Almela Ferrer, Mª Concepción Lecaroz Agara, Andrés Canut Blasco and EPI_ISL_509618 SegCOVID-SPAIN consortium

EPI ISL 509619, EPI ISL 509620, EPI ISL 509621, EPI ISL 509622, EPI ISL 509623, EPI ISL 509624, EPI ISL 509625, EPI ISL 509626, EPI ISL 509627, EPI ISL 509628, EPI ISL 509629, EPI ISL 509629

SegCOVID-SPAIN consortium/IBV(CSIC) see above Servicio de Microbiología, HRU de Málaga, Servicio Andaluz de Salud Inmaculada de Toro Peinado, MªConcepción Mediavilla Gradolph, Begoña Palop Borrás and SegCOVID-SPAIN consortium EPI ISL 509633, EPI ISL 509634, EPI ISL 509634, EPI ISL 509635, EPI ISL 509636, EPI ISL 509636, EPI ISL 509636, EPI ISL 509636, EPI ISL 509637, EPI ISL 509637, EPI ISL 509649, EPI ISL 509653, EPI ISL 509649, EPI ISL 509649, EPI ISL 509649, EPI ISL 509649, EPI ISL 509654, EPI ISL 509654, EPI ISL 509649, EPI ISL 509654, EPI ISL 509654, EPI ISL 509649, EPI ISL 509649, EPI ISL 509649, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509649, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509649, EPI ISL 509659, EPI ISL 509659, EPI ISL 509649, EPI ISL 509649, EPI ISL 509649, EPI ISL 509649, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509649, EPI ISL 509659, EPI ISL 509649, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509659, EPI ISL 509649, EPI ISL 509649

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Área de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Sanitaria Biodonostia

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EPI_ISL_509434, EPI_ISL_509435 EPI ISI 509436 EPI ISI 509439

FPI ISI 510068 FPI ISI 510069

EPI_ISL_510072, EPI_ISL_510075,

EPI_ISL_509662 Georgia Department of Health Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases Yan Li, Anna Montmayeur, Jing Zhang, Krista Queen, Anna Uehara, Ying Tao, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong Centers for Disease Control and Prevention

EPI ISL 509663, EPI ISL 509664, EPI ISL 509664, EPI ISL 509666, EPI ISL 509666, EPI ISL 509666, EPI ISL 509667, EPI ISL 509667, EPI ISL 509679, EPI ISL 509681, EPI ISL 509681, EPI ISL 509679, EPI ISL 509679

AR Dept. of Health-Public Health Lab Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases Yan Li, Anna Montmayeur, Jing Zhang, Krista Queen, Anna Uehara, Ying Tao, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong see above Centers for Disease Control and Prevention EPI ISL 509683, EPI ISL 509684 AR Dent of Health-Public Health Lah Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases ling Zhang, Yan Li, Anna Montmayeur, Krista Queen, Anna Uehara, Ying Tao, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong

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EPI_ISL_509688 Alabama Department of Public Health Bureau of Clinical Laboratories Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases Ying Tao, Iing Zhang, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong Centers for Disease Control and Prevention EPI_ISL_509689, EPI_ISL_509690, Utah Public Health Laboratory Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases. Ying Tao, Jing Zhang, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong

EPI ISL 509691, EPI ISL 509692 Centers for Disease Control and Prevention EPI ISL 509693, EPI ISL 509694 Guatemala Ministry of Public Health

Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, EPI_ISL_509695, EPI_ISL_509696 Ying Tao, Jing Zhang, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong FPI_ISI_509697, FPI_ISI_509698 Centers for Disease Control and Prevention EPI ISL 509699, EPI ISL 509700, EPI ISL 509701, EPI ISL 509702,

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EPI_ISL_509707, EPI_ISL_509708, Utah Public Health Laboratory Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases Jing Zhang, Ying Tao, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong EPI ISL 509709 Centers for Disease Control and Prevention

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EPI ISL 509711. EPI ISL 509712. Belize Ministry of Health Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases ling Zhang, Ying Tao, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong EPI_ISL_509713, EPI_ISL_509714 Centers for Disease Control and Prevention

EPI_ISL_509715 Wisconsin Department of Health Services Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases ling Zhang, Ying Tao, Krista Queen, Anna Uehara, Yan Li, Clinton Paden, Haibin Wang, Suxiang Tong Centers for Disease Control and Prevention

EPI ISL 509716, EPI ISL 509717, EPI ISL 509717, EPI ISL 509718, EPI ISL 509718, EPI ISL 509719, EPI ISL 509733, EPI ISL 509734, EPI ISL 509734, EPI ISL 509735, EPI ISL 509736, EPI ISL 509737, EPI ISL 509739, EPI ISL 509739, EPI ISL 509739, EPI ISL 509737, EPI ISL 509737, EPI ISL 509737, EPI ISL 509739, EPI ISL 509737, EPI ISL 509739, EPI ISL 509737, EPI ISL 509737 EPI]SL_509741, EPI]SL_509742, EPI]SL_509742, EPI]SL_509743, EPI]SL_509743, EPI]SL_509743, EPI]SL_509743, EPI]SL_509754, EPI]SL_509754, EPI]SL_509754, EPI]SL_509755, EPI]SL_509755, EPI]SL_509755, EPI]SL_509755, EPI]SL_509755, EPI]SL_509763, EPI]SL EPI ISL 509766, EPI ISL 509767, EPI ISL 509767, EPI ISL 509769, EPI ISL 509779, EPI ISL 509780, EPI ISL 50979, EPI ISL 509780, EPI ISL 509780,

see above Florida Bureau of Public Health Laboratories Florida Bureau of Public Health Laboratories Sarah Schmedes, Jason Blanton EPI ISL 509799, EPI ISL 509800, EPI ISL 509800, EPI ISL 509800, EPI ISL 509802, EPI ISL 509803, EPI ISL 509803, EPI ISL 509804, EPI ISL 509805, EPI ISL 509805, EPI ISL 509806, EPI ISL 509807, EPI ISL 509807, EPI ISL 509809, EPI ISL 509809

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EPI_ISL_510052, EPI_ISL_510053 Servicio de Microbiología. HRU de Málaga. Servicio Andaluz de Salud SeqCOVID-SPAIN consortium/IBV(CSIC) Inmaculada de Toro Peinado. MªConcepción Mediavilla Gradolph. Begoña Palop Borrás and SeqCOVID-SPAIN consortium EPI ISL 510055, EPI ISL 510058. EPI_ISL_510059 EPI_ISL_510066, EPI_ISL_510067 Instituto de Investigaciones Biomédicas de Barcelona (CSIC), Hospital Clinic i SegCOVID-SPAIN consortium/IBV(CSIC) Anna M. Planas, Ma Angeles Marcos, Miguel I, Martínez, Andrea Vergara, Alex Soriano, Jordi Pérez Tur, Israel Fernández Cadenas and SegCOVID-SPAIN consortium

EPI_ISL_510077 EPI_ISL_510106, EPI_ISL_510110, EPI_ISL_510111, EPI_ISL_510111, EPI_ISL_510112, EPI_ISL_510113, EPI_ISL_510117, EPI_ISL_510117, EPI_ISL_510122, EPI_ISL_510128, EPI_ISL_510129, EPI_ISL_510131, EPI_ISL_510133, EPI_ISL_510135, EPI_ISL_510145, EPI_ISL_510146, EPI_ISL_510149

SeaCOVID-SPAIN consortium/IBV(CSIC) see above Hospital General Universitario Gregorio Marañón Laura Pérez-Lago, Marta Herranz, Ion Sicilia, Julia Suárez, Pilar Catalán, Patricia Muñoz, Darío García de Viedma and SegCOVID-SPAIN consortium EPI_ISL_510160 Utah Public Health Laboratory Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases Mary L. Killian, Kerrie Franzen, Krista Queen, Anna Uehara, Ying Tao, Yan Li, Jing Zhang, Clinton R, Paden, Haibin Wang, Suxiang Tong

Centers for Disease Control and Prevention EP | SL_510165, EP| SL_510166, EP| SL_510166, EP| SL_510167, EP| SL_510167, EP| SL_510169, EP| SL_510170, EP| S

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Hospital de la Santa Creu i Sant Pau. Servicio de Microbiología see above SegCOVID-SPAIN consortium/IBV(CSIC) Ferran Navarro, Núria Rabella, Elisenda Miró and SeqCOVID-SPAIN consortium EPI_SL_510268, EPI_SL_510269, EPI_SL_510269, EPI_SL_510271, EPI_SL_510271, EPI_SL_510272, EPI_SL_510273, EPI_SL_510274, EPI_SL_510275, EPI_SL_510275, EPI_SL_510275, EPI_SL_510286, EPI_SL_510286, EPI_SL_510288, EPI_SL_510288, EPI_SL_510290, EPI_SL_510290, EPI_SL_510297, EPI_SL_510297, EPI_SL_510277, EPI_SL_510277, EPI_SL_510277, EPI_SL_510277, EPI_SL_510287, EPI_SL_510287, EPI_SL_510287, EPI_SL_510287, EPI_SL_510287, EPI_SL_510297, EPI_SL_510287, EPI_SL

EPI_ISL_510300, EPI_ISL_510301, EPI_ISL_510302, EPI_ISL_510303 see above Hospital Clínico Universitario de Santiago de Compostela SegCOVID-SPAIN consortium/IBV(CSIC) José Javier Costa Alcalde, Antonio Aquilera Guirao, Mª Luisa Pérez del Molino Bernal, Amparo Coira Nieto, Gema Barbeito Castiñeiras, Rocio Trastoy Pena and SegCOVID-SPAIN consortium

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EPI ISL 510330. EPI ISL 510331 see above Hospital San Pedro de Alcántara (Cáceres) SeaCOVID-SPAIN consortium/IBV(CSIC) Cristina Muñoz Cuevas, Guadalupe Rodriguez Rodriguez and SeqCOVID-SPAIN consortium EPI ISL 510334, EPI ISL 510334, EPI ISL 510338, EPI ISL 510346, EPI ISL 510340, EPI ISL 510349, EPI ISL 510371, EPI ISL 510377, EPI ISL 510377, EPI ISL 510359, EPI ISL 510369, EPI ISL 510377, EPI ISL 510377 EPI ISL 510376, EPI ISL 510377, EPI ISL 510378, EPI ISL 510379, EPI ISL 510382, EPI ISL 510383, EPI ISL 510386, EPI ISL 510387, EPI ISL 510388, EPI ISL 510380 see above Servicio de Microbiología, Hospital Miguel Servet, Zaragoza SegCOVID-SPAIN consortium/IBV(CSIC) Antonio Rezusta López, Alexander Tristancho Baró, Ana Milagro, Yolanda Gracia Grataloup, Nieves Martínez Cameo and SegCOVID-SPAIN consortiu EPI ISL 510391, EPI ISL 510392, EPI ISL 510392, EPI ISL 510393, EPI ISL 510393, EPI ISL 510394, EPI ISL 510394, EPI ISL 510411, EPI ISL 510413, EPI ISL 510413, EPI ISL 510415, EPI ISL 510415, EPI ISL 510416, EPI ISL 510406, EPI ISL 510407, EPI ISL 510407, EPI ISL 510409, EPI ISL 510407, EPI ISL 510407, EPI ISL 510407, EPI ISL 510410, EPI ISL 510410 EPI ISL 510419, EPI ISL 510420, EPI ISL 510421, EPI ISL 510422, EPI ISL 510423 Servicio de Microbiología, Hospital Universitario Donostia, OSI Donostialdea SegCOVID-SPAIN consortium/IBV(CSIC) Gustavo Cilla, Milagrosa Montes, Luis Piñeiro, Jose Maria Marimón and SegCOVID-SPAIN consortium see above Área de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana, Instituto de Investigación Sanitaria Biodonostia FPI ISI 510424 FPI ISI 510427 FPI ISI 510427 FPI ISI 510428 FPI ISI 510428 FPI ISI 510439 FPI ISI 510433 FPI ISI 510434 FPI ISI 510434 FPI ISI 510439 FPI ISI 510439 FPI ISI 510445 FPI ISI 510445 FPI ISI 510449 FPI ISI 510449 FPI ISI 510450 FPI IS EPI_ISL_510458, EPI_ISL_510459, EPI_ISL_510460 SegCOVID-SPAIN consortium/IBV(CSIC) Hospital Universitario Virgen de las Nieves de Granada-SAS Mercedes Pérez Ruiz, Sara Sanbonmatsu Gámez, Irene Pedrosa Corral, José M. Navarro-Marí and SegCOVID-SPAIN consortium EPI_ISL_510463, EPI_ISL_510464, Instituto de Investigaciones Riomédicas de Barcelona (CSIC). Hospital Clinic i SeaCOVID-SPAIN consortium/IRV/CSIC) Anna M. Planas, Mª Angeles Marcos, Miguel I. Martínez, Andrea Vergara, Alex Soriano, Jordi Pérez Tur, Israel Fernández Cadenas and SegCOVID-SPAIN consortium FPI ISI 510465 Provincial de Barcelona, Instituto de Biomedicina de Valencia (CSIC), Hospital

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EPI ISL 510467, EPI ISL 510468, EPI ISL 510468, EPI ISL 510469, EPI ISL 510470, EPI ISL 510470, EPI ISL 510470, EPI ISL 510474, EPI ISL 510470, EPI ISL 510470, EPI ISL 510470, EPI ISL 510470, EPI ISL 510480, EPI ISL 510480, EPI ISL 510480, EPI ISL 510480, EPI ISL 510470, EPI ISL 510480, EPI ISL 510480, EPI ISL 510480, EPI ISL 510480, EPI ISL 510470, EPI ISL 510470, EPI ISL 510470, EPI ISL 510480, EPI ISL 510470, EPI ISL 510480, EPI ISL 510470, EPI ISL 510480, EPI ISL 510480 EPI ISL 510492, EPI ISL 510493, EPI ISL 510495, EPI ISL 510496, EPI ISL 510496, EPI ISL 510496, EPI ISL 510506, EPI ISL 510506, EPI ISL 510507, EPI ISL 510508, EPI ISL 510508, EPI ISL 510507, EPI ISL 510508, EPI ISL 510508

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see above Universitari Germans Trias i Puiol Institut d'Investigació en Ciències de la Salut Germans Trias i Puiol (IGTP) EPI_ISL_510526 Biological prevention, army Biological prevention, army Seadawy, M.G., Shamel, M.D., Harty, B.S., Elhoseny, M.M. and Gad, A.F. EPI_ISL_510527 Unite des virus emergents, UMR190 Unite des virus emergents, UMR190 Baronti, C., Piorkowski, G., Coutard, B., Charrel, R. and de Lamballerie, X EPI_ISL_510528 Communicable Disease Laboratory, Public Health Directorate Communicable Disease Laboratory, Public Health Directorate Al Wasti, H. and AlTaif, Z. EPI ISL 510529 Simulundu E, Kanata N, Muneta E, Kanata P, C. Saasa N, Changula K, Muleya W, Chitanga S, Chambaro H, Muhemba R, Masahiro K, Chanda D, Mulenga I, Ewoloshi S, Shihemba A I School of Veterinary Medicine Disease Control School of Veterinary Medicine Disease Control Kapaya, F., Zulu, P., Musonda, K., Monze, M., Sinyange, N., Liwewe, M.M., Kapin'a, M., Chipimo, P.J., Ngosa, W., Morales, A.N., Kayeyi, N., Malama, K., Tembo, J., Bates, M., Sawa, H., Takada, A., Nalubamba, K.S., Mukonka, V., Chilufya, C. and Zumla, A. FPI ISI 510530 UMR 190 - Faculte de medecine, UMR 'Emergence des Pathologies Virales' UMR 190 - Faculte de medecine, UMR 'Emergence des Pathologies Virales Durand G.A., Piorkowski G., Pommier De Santi V., De Laval F., Leparc Goffart J., Gilles M., Geulen M., Peduzzi F., Le Flem F.-X (EPV: Aix-Marseille University - IRD 190 - Inserm 1207 - EHE (EPV: Aix-Marseille University - IRD 190 - Inserm 1207 - EHE EPI_ISL_510532 Biological prevention, army Biological prevention, army Seadawy, M.G., ELnabrawy, H.A., Shamel, M.D., Elhoseiny, M.F., Gad, A.F., Hassan, W.A., Raouf, A.A., Harty, B.E., ElGohary, A.A., Karam, M.A., Amer, k.E., Elnakeeb, M.A., Elnagdy, T.A., Ali, M.A., Kandeil A.M. and Soliman Y.A. EPI ISL 510535 Molecular Virology, Instituto Carlos Chagas / Fiocruz Paraná Universidade Federal do Parana (UFPR) Suzukawa, A., Tscha, M., Zanluca, C., Raboni, S., Duarte dos Santos, C EPI ISL 510536 Centro de Desenvolvimento Tecnologico em Saude, Fundacao Oswaldo Cruz, Centro de Desenvolvimento Tecnologico em Saude, Fundação Oswaldo Cruz Department of Microbiology, The University of Hong Kong EPI_ISL_510538, EPI_ISL_510539 Department of Microbiology, The University of Hong Kong Kelvin K.W. To, Kwok-Yung Yuer

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FPI ISI 510542 FPI ISI 510544 SA Pathology SA Pathology Lex Leong, Chuan Kok Lim, Mark Turra, Ivan Bastian, Geoff Higgins EPI_ISL_510547, EPI_ISL_510548, EPI_ISL_510548, EPI_ISL_510549, EPI_ISL_5105549, EPI_ISL_510555, EPI_ISL_510555, EPI_ISL_510555, EPI_ISL_510555, EPI_ISL_510555, EPI_ISL_510556, EPI_ISL_510557, EPI_ISL_510557, EPI_ISL_510569, EPI_ISL_51056 EPI ISL 510571, EPI ISL 510572, EPI ISL 510572, EPI ISL 510573, EPI ISL 510574, EPI ISL 510574, EPI ISL 510576, EPI ISL 510576, EPI ISL 510577, EPI ISL 510577

Souza, T.M., Fintelman-Rodrigues, N., De Paula, A.D., Saraiya, F.B., Ferreira, M.A., Sacramento, C.O., and Medeiros, M.A.

Oskar Karlsson Lindsig, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark Wisell

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Hospital Universitari Germans Trias i Puiol(HUGTiP)/Fundació Lluita contra la IrsiCaixa AIDS Research Lab EPI ISL 510689 Pilar Armengol, Marc Noguera-Julian, Jordi Rodón, Julia Vergara, Lidia Ruiz, Nuria Izquierdo, Jorge Carrillo, Roger Paredes, Albert Bensaid, Julia Blanco, Joaquim Segalés, Bonaventura Clotet SIDA (FLSida)/IRTA-CReSA EPI ISL, 510690, EPI ISL, 510691, EPI ISL, 510691, EPI ISL, 510692, EPI ISL, 510693, EPI ISL, 510694, EPI ISL, 510694, EPI ISL, 510695, EPI ISL, 510704, EPI ISL, 510714, EPI ISL, 5107176, EPI ISL, 510714, EPI ISL, 5107176, EPI ISL, 5107177, EPI ISL, 510717, EPI ISL, 5107177, EPI ISL, 5107177, EPI ISL, 510717, EPI ISL, 5107

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EPI ISL 510816 EPI ISL 510817 Orebro klinisk mikrobiologi The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark Wisell EPI_ISL_510818, EPI_ISL_510819 Klinisk mikrobiologi Vasternorrland The Public Health Agency of Sweden Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Oloy Syartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark EPI ISL 510820, EPI ISL 510821 Klinisk mikrobiologi centralsiukhuset Karlstad The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark EPI ISL 510822. EPI ISL 510823. Wisell

EPI_ISL_510824 EPI ISL 510825, EPI ISL 510826 Kalmar klinisk mikrobiologi The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark Wisell EPI ISL 510827, EPI ISL 510828 Unilabs Eskilstuna The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark

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FPI ISI 510834 FPI ISI 510835 Karolinska Universitetslaboratoriet The Public Health Agency of Sweden Oskar Karlsson Lindsig, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark EPI_ISL_510836, EPI_ISL_510837 Kalmar klinisk mikrobiologi The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-

EPI ISL 510838, EPI ISL 510839 Karolinska Universitetslaboratorie The Public Health Agency of Sweden Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark EPI ISL 510840 Wisell EPI ISL 510841, EPI ISL 510842 Klinisk mikrobiologi NAL Trollhattan The Public Health Agency of Sweden Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Oloy Syartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark EPI_ISL_510843, EPI_ISL_510844

EPI ISL 510846, EPI ISL 510847. Skovde/Unilabs The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark EPI ISL 510848, EPI ISL 510849. Wisell EPI_ISL_510850, EPI_ISL_510851 EPI ISL 510852 Karolinska Universitetslaboratoriet The Public Health Agency of Sweder Oskar Karlsson Lindsio, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edguist, Mia Brytting, Anna Risberg, Karin Tegmark

EPI_ISL_510853, EPI_ISL_510854, Klinisk mikrobiologi Vasternorrland The Public Health Agency of Sweden Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark

EPI_ISL_510855, EPI_ISL_510856,			Wisell
EPĪJSL_510857, EPĪJSL_510858 EPIJSL_510859	Kalmar klinisk mikrobiologi	The Public Health Agency of Sweden	Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510860, EPI_ISL_510861,	Karolinska Universitetslaboratoriet	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510862, EPI_ISL_510863 EPI_ISL_510864, EPI_ISL_510865	Kalmar klinisk mikrobiologi	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510866	Halmstad klinisk mikrobiologi	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510867	Klinisk mikrobiologi centralsjukhuset Karlstad	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510868, EPI_ISL_510869,	Klinisk mikrobiologi NAL Trollhattan	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510870 EPI ISL 510871, EPI ISL 510872,	Klinsisk mikrobiologi Linkoping	The Public Health Agency of Sweden	Wisell Oskar Karlsson Lindsjo, Maria Lind Karlberg, Mattias Haukland, Reza Advani, Olov Svartstrom, Anna-Malin Linde, Sandra Broddesson, Petra Edquist, Mia Brytting, Anna Risberg, Karin Tegmark-
EPI_ISL_510873, EPI_ISL_510874, EPI_ISL_510875, EPI_ISL_510876, EPI_ISL_510877		3. 3	Wisell
EPI_ISL_510882, EPI_ISL_510883, EPI_ISL_510884, EPI_ISL_510885, EPI_ISL_510886, EPI_ISL_510887, EPI_ISL_510888	New Mexico Department of Health Scientific Laboratory	New Mexico Department of Health Scientific Laboratory	Ellie Johnson, Anastacia Griego-Fisher
EPI_ISL_510927, EPI_ISL_510928, EPI_ISL_510929, E EPI_ISL_510952, EPI_ISL_510953, EPI_ISL_510968, E EPI_ISL_510952, EPI_ISL_510962, EPI_ISL_510968, E EPI_ISL_511017, EPI_ISL_511019, EPI_ISL_511012, E EPI_ISL_511076, EPI_ISL_511052, EPI_ISL_511053, E EPI_ISL_511076, EPI_ISL_511077, EPI_ISL_511076, EPI_ISL_511076, EPI_ISL_511076, EPI_ISL_511076, EPI_ISL_5111076, EPI_ISL_511108, E EPI_ISL_511104, EPI_ISL_511107, EPI_ISL_511108, E EPI_ISL_511157, EPI_ISL_511158, EPI_ISL_511159, E EPI_ISL_511167, EPI_ISL_511158, EPI_ISL_511164, E EPI_ISL_511207, EPI_ISL_511208, EPI_ISL_511205, E EPI_ISL_511233, EPI_ISL_511204, EPI_ISL_511235, E EPI_ISL_511235, EPI_ISL_511234, EPI_ISL_511235, E EPI_ISL_511259, EPI_ISL_511261, ESI_SL_51512155, EPI_ISL_511265, EPI_ISL_511266, EPI_ISL_511265, EPI_ISL_511266, EPI_	EPI ISL 5.10931, EPI ISL 5.10932, EPI ISL 5.10933, EPI ISL 5.10934, EPI ISL 5.10934, EPI ISL 5.10936, EPI ISL 5.1036, EPI ISL 5.11036, EPI ISL 5.11116, EPI ISL 5.11116, EPI ISL 5.11116, EPI ISL 5.11116, EPI ISL 5.1116, EPI IS	L_S10935, EPI_ISL_S10936, EPI_ISL_S10937, EPI_ISL_S10938, EPI_ISL_S10939, EPI_ISL_S10961, EPI_ISL_S10965, EPI_ISL_S10964, EPI_ISL_S10965, EPI_ISL_S10964, EPI_ISL_S10965, EPI_ISL_S10969, EPI_ISL_S10961, EPI_ISL_S10961, EPI_ISL_S1096, EPI_ISL_S1096, EPI_ISL_S1091, EPI_ISL_S1	S. 510096, EP ISL, 510996, EP ISL, 510907, EP ISL, 510909, EP ISL, 510912, EP ISL, 510913, EP ISL, 510912, EP ISL, 510923, EP ISL, 510924, EP ISL, 510925, EP ISL, 510946, EP ISL, 510946, EP ISL, 510946, EP ISL, 510949, EP ISL, 510959, EP ISL, 510949, EP ISL, 5
see above Ins	stituto Nacional de Saude (INSA) and Instituto Gulbenkian de Ciencia (IGC	Instituto Nacional de Saude (INSA) and Instituto Gulbenkian de Ciencia (IGC)	Borges et al SL_511339, EPI_ISL_511341, EPI_ISL_511343, EPI_ISL_511345, EPI_ISL_511346, EPI_ISL_511347, EPI_ISL_511348, EPI_ISL_511350, EPI_ISL_511351, EPI_ISL_511352, EPI_ISL_511353, EPI_ISL_511355,
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see above EPI_ISL_511484, EPI_ISL_511485, EPI_ISL_511486, E	Instituto Nacional de Saude (INSA) EPI_ISL_511487, EPI_ISL_511488, EPI_ISL_511489, EPI_ISL_511490, EPI_ISI	Instituto Nacional de Saude (INSA) L_511491, EPI_ISL_511492, EPI_ISL_511493, EPI_ISL_511494, EPI_ISL_511495, EPI_IS	Borges et al SL_511496, EPI_ISL_511497, EPI_ISL_511499, EPI_ISL_511500, EPI_ISL_511501, EPI_ISL_511502, EPI_ISL_511503, EPI_ISL_511504, EPI_ISL_511505, EPI_ISL_511506, EPI_ISL_511507, EPI_ISL_511508
see above	Instituto Nacional de Saude (INSA)	Instituto Nacional de Saude (INSA) and Instituto Gulbenkian de Ciencia (IGC)	Borges et al [L_511523, EPI_ISL_511524, EPI_ISL_511525, EPI_ISL_511526, EPI_ISL_511527, EPI_ISL_511528, EPI_ISL_511529, EPI_ISL_511530, EPI_ISL_511531, EPI_ISL_511532, EPI_ISL_511533, EPI_ISL_511534,
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see above	Instituto Nacional de Saude (INSA)	Instituto Nacional de Saude (INSA)	Borges et al SL_511765, EPI_ISL_511766, EPI_ISL_511767, EPI_ISL_511768, EPI_ISL_511769, EPI_ISL_511770, EPI_ISL_511771
see above	EM_ISE_311735, EM_ISE_311736, EM_ISE_311737, EM_ISE_311739, EM_ISE Instituto Nacional de Saude (INSA)	L_S11760, EM_ISL_S11761, EM_ISL_S11762, EM_ISL_S11763, EM_ISL_S11764, EM_ISL Instituto Nacional de Saude (INSA) and Instituto Gulbenkian de Ciencia (IGC)	ادر عالم من المرابع ا Borges et al
EPI_ISL_511805, EPI_ISL_511806, EPI_ISL_511807, E EPI_ISL_511834, EPI_ISL_511835, EPI_ISL_511837, E	EPI_ISL_511808, EPI_ISL_511809, EPI_ISL_511810, EPI_ISL_511812, EPI_ISI EPI_ISL_511839, EPI_ISL_511840, EPI_ISL_511842, EPI_ISL_511843, EPI_ISI	L_511813, EPI_ISL_511814, EPI_ISL_511815, EPI_ISL_511816, EPI_ISL_511817, EPI_IS L_511845, EPI_ISL_511848, EPI_ISL_511849, EPI_ISL_511850, EPI_ISL_511851	SL_511819, EPI_ISL_511821, EPI_ISL_511822, EPI_ISL_511823, EPI_ISL_511824, EPI_ISL_511825, EPI_ISL_511828, EPI_ISL_511829, EPI_ISL_511830, EPI_ISL_511831, EPI_ISL_511832, EPI_ISL_511833,
see above EPI_ISL_511853, EPI_ISL_511854, EPI_ISL_511855, EPI_ISL_511856,	Innovative Genomics Institute, UC Berkeley UW Virology Lab	Innovative Genomics Institute, UC Berkeley UW Virology Lab	Stacia Wyman, Haridha Shivram, Liana Lareau, Shana McDevitt, Justin Choi Pavitra Roychoudhury, Amin Addetia, Hong Xie, Lasata Shrestha, Truong Nguyen, Meel-Li Huang, Keith Jerome, Alexander Greninger
EPI_ISL_511860, EPI_ISL_511861 EPI_ISL_511862	Innovative Genomics Institute, UC Berkeley	Innovative Genomics Institute, UC Berkeley	Stacia Wyman, Haridha Shivram, Liana Lareau, Shana McDevitt, Justin Choi
EPI_ISL_511869, EPI_ISL_511871, EPI_ISL_511874, EPI_ISL_511875	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	Peter M. Thielen, Thomas Mehoke, Shiriee Wohl, Srividya Ramakrishnan, Melanie Kirsche, Amanda Ernlund, Craig Howser, Kristina Zudock, Oluwaseun Falade-Nwulia, Norah Sadowski, Paul Morris, Mark Hopkins, Yunfan Fan, Nidia Trovao, Victoria Gniazdowski, Michael C. Schatz, Stuart C. Ray, Winston Timp, Heba H. Mostafa
EPI_ISL_511879	Laboratorium Kesehatan Provinsi Jawa Barat	Molecular Genetics Laboratory-Faculty of Medicine-Universitas Padjadjaran; School of Life Sciences and Technology & School of Pharmacy-Institut Teknologi Bandung; Laboratorium Kesehatan Provinsi Jawa Barat	Marselina Irasonia Tan, Yunia Sribudiani, Catur Riani, Azzania Fibriani, Husna Nugrahapraja, Tarwadi, Ema Rahmawati, Hesti Lina Wiraswati, Lia Faridah, Savira Ekawardhani, Ryan Bayusantika Ristandi, Rifky Waluyajati Rachman, Cut Nur Cinthia Alamanda, Hammam Riza, Soni Solistia Wirawan, Agung Eru Wibowo
EPL_ISL_511891, EPL_ISL_511892, EPL_ISL_511893, EPL_ISL_511894, EPL_ISL_511895, EPL_ISL_511896, EPL_ISL_511897, EPL_ISL_511898	National Hospital of Tropical Diseases	Oxford University Clinical Research Unit, Hanoi, Vietnam	Nguyen Thi Tam, Van Dinh Trang, Nguyen Thi Hong Thuong, Vu Thi Ngoc Bich, Nguyen Thu Trang, Nguyen Thi Ngoc Diep, Le Nguyen Minh Hoa, Pham Ngoc Thach, H. Rogier van Doorn, on behalf of the OUCRU COVID-19 research group
EPI_ISL_511899	ICMR-National Institute of Cholera and Enteric Diseases	National Institute of Biomedical Genomics - DBT's PAN-INDIA 1000 SARSCoV-2 RNA Genome Sequencing Consortium	Arindam Maitra, Mamta Chawla Sarkar, Sreedhar Chinnaswamy, Hasina Banu, Ananya Chatterjee, Shanta Dutta, Saumitra Das
EPI_ISL_511900, EPI_ISL_511901, EPI_ISL_511902, EPI_ISL_511903, EPI_ISL_511904, EPI_ISL_511905, EPI_ISL_511906, EPI_ISL_511907	Institute of Post Graduate Medical Education & Research	National Institute of Biomedical Genomics - DBT's PAN-INDIA 1000 SARSCoV-2 RNA Genome Sequencing Consortium	Arindam Maitra, Aritra Biswas, Jayeeta Haldar, Raja Ray, Monimoy Banerjee, Saumitra Das
EPI_ISL_511908, EPI_ISL_511909, EPI_ISL_511910, EPI_ISL_511912, EPI_ISL_511921, EPI_ISL_511922	All india institute of Medical Sciences Rishikesh	National Institute of Biomedical Genomics - DBT's PAN-INDIA 1000 SARSCoV-2 RNA Genome Sequencing Consortium	Arindam Maitra, Deepjyoti Kalita, Amit Mangla, Ravi Kant, Saumitra Das
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EPI_ISL_511930, EPI_ISL_511931, EPI_ISL_511932, EPI_ISL_511933, EPI_ISL_511934, EPI_ISL_511935, EPI_ISL_511939	Government Medical College	National Institute of Biomedical Genomics - DBT's PAN-INDIA 1000 SARSCoV-2 RNA Genome Sequencing Consortium	Arindam Maitra, Jyoti Iravane, Dhaval Khatri, Maitrik Dave, Saumitra Das
EPI_ISL_511943, EPI_ISL_511944	Translational Health Science and Technology Institute	National Institute of Biomedical Genomics - DBT's PAN-INDIA 1000 SARSCoV-2 RNA Genome Sequencing Consortium	Arindam Maitra, Guruprasad Medigeshi, Sharanabasava Patil, Anbalagan Ananthraj, Madhu Pareek, Imran Khan, Gagandeep Kang, Saumitra Das
EPI_ISL_511955, EPI_ISL_511956, EPI_ISL_511957, EPI_ISL_511958, EPI_ISL_511960, EPI_ISL_511964,	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19 Genomics UK Consortium	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

PHE South West Regional Laboratory, National Infection Service

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EPI ISL 511973, EPI ISL 511974,

EPI ISL 511976, EPI ISL 511978,

EPI_ISL_512380, EPI_ISL_512381,

EPI_ISL_512382

Luke W Meredith, M. Estée Török , Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Ian Goodfellow; and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

Stephanie Hutchings, Hannah Pymont, Dr. Peter Muir, Rarry Vignord, Rich Hones: and Alex Alderton, Roberto Amato, Sonia Gonralves, Ewan Harrison, David K. Jackson, Jan Johnston, Dominic

Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)

EPI_ISL_511976, EPI_ISL_511978, EPI_ISL_511979, EPI_ISL_511980, EPI_ISL_511981			
EPI_ISL_511985, EPI_ISL_511986, EPI_ISL_511 EPI_ISL_512013, EPI_ISL_512014, EPI_ISL_512	.987, EPI ISL_511988, EPI ISL_511989, EPI ISL_511990, EPI ISL_511991, EPI ISL_51 .015, EPI ISL_512016, EPI ISL_512017, EPI ISL_512018, EPI ISL_512020, EPI ISL_51 .043, EPI ISL_512044, EPI ISL_512045, EPI ISL_512046, EPI ISL_512047, EPI ISL_51	12021, EPI_ISL_512023, EPI_ISL_512024, EPI_ISL_512025, EPI_ISL_512027, EPI	SL_511999, EP SL_512000, EP SL_512001, EP SL_512002, EP SL_512003, EP SL_512004, EP SL_512005, EP SL_512006, EP SL_512009, EP SL_512010, EP SL_512011, EP SL_512011, EP SL_512012, EP SL_512038, EP SL_512039, EP SL_512039, EP SL_512030, EP SL_512031, EP SL_512031, EP SL_512038, EP SL_512039, EP SL_51
see above	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Christian Beisel, Sarah Nadeau, Ivan Topolsky, Pedro Ferreira, Philipp Jablonski, Susana Posada-Céspedes, Tobias Schär, Ina Nissen, Natascha Santacroce, Elodie Burcklen, Christiane Beckmann, Maurice Redondo, Olivier Kobel, Christoph Noppen, Sophie Seidel, Noemie Santamaria de Souza, Niko Beerenwinkel, Tanja Stadler
EPI_ISL_512058	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zama Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_512059	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
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EPI_ISL_512649	Latvijas Infektoloģijas centrs	Latvian Biomedical Research and Study Centre		
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All Submitters of data may be contacted directi	y via www.gisaiu.org		
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EPI_ISL_512712, EPI_ISL_512713, EPI_ISL_512714, EPI_ISL_512715,	, EPI_ISL_512716, EPI_ISL_512717, EPI_ISL_512719, EPI_ISL_512720, E	PI_ISL_512722, EPI_ISL_512723, EPI_ISL_512724, EPI_ISL	_512725, EPI_ISL_512727, EPI_ISL_512728, EPI_ISL_512730, EPI_ISL_512732, EPI_ISL_512734, EPI_ISL_512735, EPI_ISL_512737, EPI_ISL_512738, EPI_ISL_512739, EPI_ISL_512741, EPI_ISL_512742, EPI_ISL_512743, EPI_ISL_512769, EPI_ISL_512760, EPI_ISL_512761, EPI_ISL_512762, EPI_ISL_512763, EPI_ISL_512764, EPI_ISL_512765 PathWest Laboratory Medicine WA Microbial Surveillance Unit
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EPI_ISL_512822, EPI_ISL_512823, EPI_ISL_512824, EPI_ISL_512825, see above			_512834, EPI_ISL_512835, EPI_ISL_512836, EPI_ISL_512837, EPI_ISL_512838, EPI_ISL_512839, EPI_ISL_512840, EPI_ISL_512841, EPI_ISL_512842 Mak TM, Octavia S, Zhou Z, Chavatte JM, Cui L, Lin RTP
EPI_ISL_512844	Department of Medical Research	DMR_Myanmar	Myat Htut Nyunt, Hnin Ohnmar Soe, Kay Thi Aye, Wah Wah Aung, Yi Yi Kyaw, Aung Kyaw Kyaw, Theingi Win Myat, Phyu Win Ei, Aung Zaw Latt, Nan Aye Thida Oo, Lai Lai San, Su Mon Win, Ni Ni Zaw, Htin Lin, Hlaing Myat Thu, Zaw Than Htun
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EPI_ISL_512849, EPI_ISL_512851, EPI_ISL_512852, EPI_ISL_512856,	, EPI_ISL_512857, EPI_ISL_512858, EPI_ISL_512859, EPI_ISL_512860, E		_512864, EPI_ISL_512866, EPI_ISL_512869
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EPI_ISL_512904, EPI_ISL_512905, EPI_ISL_512906, EPI_ISL_512907	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Fathia Ben Rached, Raeece Naeem, Sharif Hala, Fadwa Alofi, Rahul P Salunke, Sara Mfarrej, Amit Kumar Subudhi, Afrah Alsomali, Asim Khogeer, Ahmad Bakur Mahmoud, Anwar Hashem, Naif Almontashiri, Arnab Pain
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	, EPI_ISL_513068, EPI_ISL_513069, EPI_ISL_513070, EPI_ISL_513071, E		
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	Technology(KAUST)	Science and Technology(KAUST)	Pain
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see above	Pathogen Genomics Lab King Abdullah University of Science and	Pathogen Genomics Lab King Abdullah University of	Fadwa Alofi, Sharif Hala, Rahul P Salunke, Sara Mfarrej, Amit Kumar Subudhi, Fathia Ben Rached, Amanda, Luke, Afrah Alsomali, Asim Knogeer, Jumana Taha, Abdulaziz Alahmadi, Kahled Algithami, Raecce
EPI_ISL_513168, EPI_ISL_513169, EPI_ISL_513170,	Technology(KAUST) Pathogen Genomics Lab King Abdullah University of Science and	Science and Technology(KAUST) Pathogen Genomics Lab King Abdullah University of	Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain Sara Mfarrej, Raeece Naeem, Rahul P Salunke, Sharif Hala, Fadwa Alofi, Amit Kumar Subudhi, Fathia Ben Rached, Afrah Alsomali, Jumana Taha, Abdulaziz Alahmadi, Asim Khogeer, Nashwa Al-khotani, Anwar
EPI_ISL_513171, EPI_ISL_513172, EPI_ISL_513173, EPI_ISL_513171	Technology(KAUST)	Science and Technology(KAUST)	Hashem, Naif Almontashiri, Arnab Pain
EPI_ISL_513175, EPI_ISL_513176, EPI_ISL_513177, EPI_ISL_513178, see above	, EPI_ISL_513179, EPI_ISL_513180, EPI_ISL_513181, EPI_ISL_513182, E Pathogen Genomics Lab King Abdullah University of Science and		_513186, EPI_ISL_513187, EPI_ISL_513188, EPI_ISL_513189 Amit Kumar Subudhi, Rahul P Salunke, Sara Mfarrej, Sharif Hala, Fadwa Alofi, Fathia Ben Rached, Afrah Alsomali, Asim Khogeer, Nashwa Al-khotani, Raeece Naeem, Anwar Hashem, Naif Almontashiri, Arnab Pain
EDITIC: 513300 EDITIC: 513301 EDITIC: 513303	Technology(KAUST) Pathogen Genomics Lab King Abdullah University of Science and	Science and Technology(KAUST)	
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EPI ISL 513340 Austech Medical Laboratories NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney EPI ISL 513341 NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. Medlab Pathology and Medical Research; Westmead Hospital; University of Sydney EPI_ISL_513342 Pathology West - NSW Health Pathology NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research; Westmead Hospital; University of Sydney EPI_ISL_513343, EPI_ISL_513344 NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; CIDM-PH et al. Children Westmead Hospital University of Sydney EPI_ISL_513345, EPI_ISL_513346 Pathology West - NSW Health Pathology NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research; Westmead Hospital; University of Sydney NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. St Vincent's Pathology (SydPath) EPI ISL 513347 and Medical Research; Westmead Hospital; University of Sydney EPI_ISL_513348, EPI_ISL_513349 4Cyte Pathology NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research; Westmead Hospital: University of Sydney EPI_ISL_513350, EPI_ISL_513351 Pathology West - NSW Health Pathology NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research; Westmead Hospital; University of Sydney EPI_ISL_513352 South Eastern Area Laboratory Services (SEALS) NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research: Westmead Hospital: University of Sydney EPI_ISL_513353, EPI_ISL_513354, EPI_ISL_513355, St Vincent's Pathology (SydPath) NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. EPI ISL 513356 and Medical Research: Westmead Hospital: University of Sydney EPI_ISL_513357 Douglas Hanly Moir NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research: Westmead Hospital: University of Sydney NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; EPI_ISL_513358, EPI_ISL_513359 Pathology West - NSW Health Pathology CIDM-PH et al. University of Sydney EPI_ISL_513360 Pathology North - Hunter - NSW Health Pathology NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. and Medical Research; Westmead Hospital; University of Sydney EPI_ISL_513361, EPI_ISL_513362, EPI_ISL_513363, St Vincent's Pathology (SydPath) NSW Health Pathology - Institute of Clinical Pathology CIDM-PH et al. EPI ISL 513364, EPI ISL 513365 and Medical Research; Westmead Hospital;

CIDM-PH et al

NSW nearth Pathology	and Medical Research; Westmead Hospital;
	University of Sydney

		oniversity or Sydney	
EPI_ISL_513368	Pathology North - Hunter - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513369, EPI_ISL_513370, EPI_ISL_513371	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513372	St Vincent's Pathology (SydPath)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513373, EPI_ISL_513374	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513375, EPI_ISL_513376	Pathology North - Royal North Shore Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513377	South Eastern Area Laboratory Services (SEALS)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513378	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513379	St Vincent's Pathology (SydPath)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513380	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513381, EPI_ISL_513382, EPI_ISL_513383	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513384, EPI_ISL_513385	St Vincent's Pathology (SydPath)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513386, EPI_ISL_513387, EPI_ISL_513388	Pathology North - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513389	Douglas Hanly Moir	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513390, EPI_ISL_513391, EPI_ISL_513392, EPI_ISL_513393, EPI_ISL_513394, EPI_ISL_513395	Pathology West - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513396, EPI_ISL_513397, EPI_ISL_513398, EPI_ISL_513399	St Vincent's Pathology (SydPath)	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513400	Sydney South West Pathology Service (SSWPS) - Royal Prince Alfred Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513401	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513402	4Cyte Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513403, EPI_ISL_513404, EPI_ISL_513405, EPI_ISL_513406, EPI_ISL_513407, EPI_ISL_513408	Laverty Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513409, EPI_ISL_513410, EPI_ISL_513411, EPI_ISL_513412	Sydney South West Pathology Service (SSWPS) - Liverpool Hospital - NSW Health Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI_ISL_513413	4Cyte Pathology	NSW Health Pathology - Institute of Clinical Pathology and Medical Research; Westmead Hospital; University of Sydney	CIDM-PH et al.
EPI SL_513439, EPI SL_513440, EPI SL_513441, EPI SL_513 EPI SL_513465, EPI SL_513466, EPI SL_513467, EPI SL_513	1442, EPI ISL 513443, EPI ISL 513444, EPI ISL 513447, EPI ISL 513448, E 1468, EPI ISL 513469, EPI ISL 513470, EPI ISL 513471, EPI ISL 513472, E	:Pi_ISL_513449, EPI_ISL_513450, EPI_ISL_513451, EPI_ISL_513452, EPI_ISL :PI_ISL_513473, EPI_ISL_513474, EPI_ISL_513475, EPI_ISL_513476, EPI_ISL	_513427, EPI_ISL_513428, EPI_ISL_513429, EPI_ISL_513430, EPI_ISL_513431, EPI_ISL_513432, EPI_ISL_513435, EPI_ISL_513435, EPI_ISL_513455, EPI_ISL_513456, EPI_ISL_513566, EPI_ISL_513566, EPI_ISL_513566, EPI_ISL_513567, EPI_ISL_513506, EPI_ISL_513567, EPI_ISL_513566, EPI_ISL_513567, EPI_I
see above	Maine HETL	Tewhey Lab, The Jackson Laboratory	Matluk, N., Dewey, H., Barter, M., Lynch, R., Munger, H. a

3433, PP, [SL_513434, EP, [SL_513435, EP] [SL_513436, EP] [SL_513437, EP] [SL_513438, 3459, EP] [SL_513460, EP EPI EPI EPI 3508, EPI_ISL_513509, EPI_ISL_513510

r,M., Lynch,R., Munger,H. and Tewhey,R.

The National Institute of Public Health and State EPI_ISL_513511, EPI_ISL_513512 Nagy.A:lirincova.H:Novakova.L:Trnka.D:Vecerova.I The National Institute of Public Health Veterinary Institute Prague

EP | SL_513513, EP | SL_513514, EP | SL_513514, EP | SL_513515, EP | SL_513515, EP | SL_513515, EP | SL_513526, EP | SL_513527, EP | SL_513527, EP | SL_513527, EP | SL_513536, EP | SL_51356, EP | SL

see above	Programa de Oncovirologia, Instituto Nacional de Câncer	Programa de Oncovirologia, Instituto Nacional de Câncer	Juliana D. Siqueira, Livia R. Goes, Brunna M. Alves, Claudia Cicala, James Arthos, João P.B. Viola, Andreia C. de Melo, Marcelo A. Soares
EPI_ISL_513584	PHE South West Regional Laboratory, National Infection Service	Wellcome Sanger Institute for the COVID-19	Stephanie Hutchings, Hannah Pymont, Dr Peter Muir, Barry Vipond, Rich Hopes, and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia

		Genomics UK Consortium	Langford, John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team)
EPI_ISL_513585, EPI_ISL_513587, EPI_ISL_513588	Microbiology, Pathology, Kettering General Hospital	Wellcome Sanger Institute for the COVID-19	Sahar El-dirdiri, Anita Kenyon, Thomas Davis and Alex Alderton, Roberto Amato, Sonia Goncalves, Ewan Harrison, David K. Jackson, Ian Johnston, Dominic Kwiatkowski, Cordelia Langford, John Sillitoe on behalf of

Genomics UK Consortium the Wellcome Sanger Institute COVID-19 Surveillance Team (http://www.sanger.ac.uk/covid-team) EPI_ISL_513592, EPI_ISL_513597, EPI_ISL_513598, EPI_ISL_513600, EPI_ISL_513600, EPI_ISL_513601, EPI_ISL_513602, EPI_ISL_513604, EPI_ISL_513604, EPI_ISL_513606, EPI_ISL_513609, EPI_ISL_513609, EPI_ISL_513619, EPI_ISL_513613, EPI_ISL_513615, EPI_ISL_513615, EPI_ISL_513619, EPI_ISL_513619

Viral Respiratory Lab, National Institute for Biomedical Research (INRB) Pathogen Sequencing Lab, National Institute for Wallack, Allison Black, James see above

		Biomedical Research (INRB)	Hadfield, Trevor Bedford, Ian Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum
EPI_ISL_513632, EPI_ISL_513634, EPI_ISL_513635, EPI_ISL_513637	University of Washington Virology Lab	University of Washington Virology Lab	Pavitra Roychoudhury, Hong Xie, Lasata Shrestha, Amin Addetia, Truong Nguyen, Victoria M Rachleff, Meei-Li Huang, Keith R Jerome, Alexander Greninger

 $EPI_{SL}_513645, EPI_{SL}_513647, EPI_{SL}_513647, EPI_{SL}_513648, EPI_{SL}_513648, EPI_{SL}_513696, EPI_{SL}_513696, EPI_{SL}_513697, EPI_$

Heidi Butz, Erin Young, Kelly Oakeson

Orange County Public Health Lab Chan-Zuckerberg Biohub

EPI_ISL_513773, EPI_ISL_513774, EPI_ISL_513775, EPI_ISL_513775, EPI_ISL_513776, EPI_ISL_513777, EPI_ISL_513778, EPI_ISL_513780, EPI_ISL_513781, EPI_ISL_513782, EPI_ISL_513783, EPI_ISL_513784, EPI_ISL_513786, EPI_ISL_513788

County of Santa Clara Public Health Department Chan-Zuckerberg Biohub EPI_ISL_513789, EPI_ISL_513790, EPI_ISL_513791, EPI_ISL_513791, EPI_ISL_513792, EPI_ISL_513793, EPI_ISL_513794, EPI_ISL_513794, EPI_ISL_513812, EPI_ISL_513814, EPI_ISL_513814, EPI_ISL_513815, EPI_ISL_513800, EPI_ISL_513800

see above Orange County Public Health Laboratory Chan-Zuckerberg Biohub CZB Cliahub Consortium

Chan-Zuckerberg Biohub

EPI_SL_513840, EPI_SL_513841, EPI_SL_513842, EPI_SL_513843, EPI_SL_513844, EPI_SL_513845, EPI_SL_513845, EPI_SL_513847, EPI_SL_513848, EPI_SL_513850, EPI_SL_513852, EPI_SL_513853, EPI_SL_513854, EPI_SL_513855

see above Humboldt County Public Health Laboratory Chan-Zuckerberg Biohub

UCSF Clinical Microbiology Laboratory

EPI_ISL_513856, EPI_ISL_513857, EPI_ISL_513858, EPI_ISL_513858, EPI_ISL_513859, EPI_ISL_513869, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513860, EPI_ISL_513870, EPI_ISL_513870, EPI_ISL_513873, EPI_ISL_513873, EPI_ISL_513874, EPI_ISL_513875, EPI_ISL_513876, EPI_ISL_513876, EPI_ISL_513876, EPI_ISL_513879, EPI_ISL_513879, EPI_ISL_513880, EPI_ISL_513880, EPI_ISL_513880, EPI_ISL_513870, EPI_ISL_513870

EPI_ISL_513883, EPI_ISL_513884, EPI_ISL_513885, EPI_ISL_513885, EPI_ISL_513889, EPI_ISL_513893, EPI_ISL_513903, EPI_ISL_513903, EPI_ISL_513905, EPI_ISL_513905, EPI_ISL_513905, EPI_ISL_513907, EPI_ISL_513907

see above	UCSF Clinical Microbiology Laboratory	Chan-Zuckerberg Bionub	CZB Clianub Consortium
EPI_ISL_513911	SA Pathology	SA Pathology	Lex Leong, Chuan Kok Lim, Mark Turra, Ivan Bastian, Geoff Higgins
EPI_ISL_513925	Microbiology & Bioinformatics and Biostatistics, Kohat University of Science and Technology (Pakistan) & Shanghai Jiao Tong University (China)	Microbiology & Bioinformatics and Biostatistics, Kohat University of Science and Technology (Pakistan) & Shanghai Jiao Tong University (China)	Khan,M.T., Khan,T.A., Ali,S., Khan,A.S., Muhammad,N. and Wei,D.Q.
EPI_ISL_514062, EPI_ISL_514063, EPI_ISL_514064	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514065	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514066	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514067, EPI_ISL_514068	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514069, EPI_ISL_514070	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514071, EPI_ISL_514072	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514073, EPI_ISL_514074	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514075	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514077, EPI_ISL_514078, EPI_ISL_514079	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514080, EPI_ISL_514081, EPI_ISL_514082, EPI_ISL_514083	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514084	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514085, EPI_ISL_514086, EPI_ISL_514087	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514088	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514089	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514090, EPI_ISL_514091, EPI_ISL_514092	Navy and Marine Corps Public Health Center	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Yan Li, Anna Montmayeur, Krista Queen, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514114, EPI_ISL_514115, EPI_ISL_514117, EPI_ISL_514118, EPI_ISL_514119, EPI_ISL_514122	Viral Respiratory Lab, National Institute for Biomedical Research (INRB)) Pathogen Sequencing Lab, National Institute for Biomedical Research (INRB)	Placide Mbala-Kingebeni, Edith Nkwembe, Eddy Kinganda-Lusamaki, Amuri Aziza, Francisca Muyembe Mawete, Emmanuel Lokilo Lofiko, Catherine Pratt, Matthias Pauthner, Josh Quick, Allison Black, James Hadfield, Trevor Bedford, Ian Goodfellow, Andrew Rambaut, Nick Loman, Kristian Andersen, Michael Wiley, Steve Ahuka-Mundeke, Jean-Jacques Muyembe Tamfum
EPI_ISL_514128	Navy and Marine Corps Public Health Center	Centers for Disease Control and Prevention	Krista Queen, Yan Li, Anna Montmayeur, Jing Zhang, Ying Tao, Anna Uehara, Rachel Marine, Clinton R. Paden, Haibin Wang, Suxiang Tong
EPI_ISL_514129, EPI_ISL_514130	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan
EPI_ISL_514131	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Ciclieia Correia da Silva, Aline Linhares Ferreir de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Tiávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Golimarães, Janesen Fernandes de Medeiros, Fernando Rodrígues Máximo, Juan Miguel Vilallobos-Salcade and Deusipiene Souza Vieira 1
EPI_ISL_514132	Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to State Health Secretariat of Rondônia (SESAU/RO)	Molecular Virology Laboratory of Oswaldo Cruz Foundation of Rondônia	Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicileia Correia da Silva, Aline Linhares Ferreir de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Janesne Fernandes de Medeiros, Fernando Rodriguey Unilalbos-Salactica and Deusilene Souza Vielene Souza Vielene.

Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilallobos-Salcedo and Deusilene Souza Vieira

EPI_ISL_514137 Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to Molecular Virology Laboratory of Oswaldo Cruz Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Nazi, Juliana Corsal Autreado, Suelen Cavalanteca, Adriana Cristina Salvador Maia, Cicliei Agrericia de Melo Mendonça, Celina Aparecida Bertoni Lugteneburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalante, Itan de Cássia Pontello Rampusazo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilallobos-Salcedo and Deusilene Souza Vieira

Luan Felipo Botelho-Souza, Felipe Souza Negueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Nazi, Juliana Loca Furtado, Suelen Cavalante, Rita de Cássia Pontello Rampusazo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Vilallobos-Salcedo and Deusilene Souza Vieira

de Melo Mendonça, Celina Aparecida Bertoni Lugteneburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalante, Luan Felipo Botelho-Souza, Arcione de Oliveira dos Santos, Felipe Gomes Nazi, Juliana Cristina Salvador Revieros, Fernandos Rodrigues Máximo, Juan Miguel Vilallobos-Salcedo and Deusilene Souza Vieira

de Melo Mendonça, Celina Aparecida Bertoni Lugteneburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalante, Revieros Revieros

Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicileia Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodrigues Máximo, Juan Miguel Viallobos-Salcedo and Deusilene Souza Vieira

Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicileia Correia da Silva, Aline Linhares Ferreira

de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodríques Máximo, Juan Miquel Vialiallobos-Saleccio and Deusilene Souza Vieira

Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicileia Correia da Silva, Aline Linhares Ferreira de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavaclacnte, Rita de de dessia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di Sabatino Guimarães, Jansen Fernandes de Medeiros, Fernando Rodríques Máximo, Juan Miquel Vilallobos-Salcedo and Deusiliene Souza Vieira.

Luan Felipo Botelho-Souza, Felipe Souza Nogueira-Lima, Tárcio Peixoto Roca, Alcione de Oliveira dos Santos, Felipe Gomes Naveca, Adriana Cristina Salvador Maia, Cicileia Correia da Silva, Aline Linhares Ferreira

de Melo Mendonça, Celina Aparecida Bertoni Lugtenburg, Camila Flávia Gomes Azzi, Juliana Loca Furtado, Suelen Cavalcante, Rita de Cássia Pontello Rampazzo, Caio Henrique Nemeth Santos, Alice Paula Di

CZB Cliahub Consortium

CZR Cliabub Consortium

 $EPI_{SL}, \underline{514140}, EPI_{SL}, \underline{514141}, EPI_{SL}, \underline{514142}, EPI_{SL}, \underline{514142}, EPI_{SL}, \underline{514145}, EPI_{SL}, \underline{514145}, EPI_{SL}, \underline{514145}, EPI_{SL}, \underline{514155}, EPI_{S$

see above Florida Bureau of Public Health Laboratories

EPI_ISL_514226 Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto
Nacional de Salud Perú

EPI_ISL_514227 Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto
Nacional de Salud. Peru

EPI_ISL_514228, EPI_ISL_514229 National Institute of Laboratory Medicine and Referral Center

Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to

State Health Secretariat of Rondônia (SESAU/RO)

Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to

Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to

State Health Secretariat of Rondônia (SESAU/RO)

Rondônia Central Public Health Laboratory (LACEN/RO), vinculated to

State Health Secretariat of Rondônia (SESAU/RO)

State Health Secretariat of Rondônia (SESAU/RO)

EPI_ISL_514133, EPI_ISL_514134

EPI_ISL_514135

EPI_ISL_514136

EPI_ISL_514138

Florida Bureau of Public Health Laboratories Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud. Peru Genomic Research Lab, BCSIR

Molecular Virology Laboratory of Oswaldo Cruz

Molecular Virology Laboratory of Oswaldo Cruz

Molecular Virology Laboratory of Oswaldo Cruz

Foundation of Rondônia

Molecular Virology Laboratory of Oswaldo Cruz

Foundation of Rondônia

Foundation of Rondônia

Foundation of Rondônia

Sarah Schmedes, Jason Blanton

Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano

Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano

Barna Goswami, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Iffat Jahan, Md. Saddam

			Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utbal Chandra Rav, Salek Ahmed Saiib, Md. Salim Khan
EPI_ISL_514231, EPI_ISL_514232	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Shahina Akter, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam
EPI_ISL_514233, EPI_ISL_514234, EPI_ISL_514235	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam
EPI_ISL_514236	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Murshed Hasan Sarkar, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Barna Goswami, Iffat Jahan, Md. Saddam
EPI_ISL_514237, EPI_ISL_514238, EPI_ISL_514239,	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Md. Saddam Hossain, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat
EPI_ISL_514240, EPI_ISL_514241 EPI_ISL_514242, EPI_ISL_514243, EPI_ISL_514244	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Jahan, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Tanjina Akhter Banu, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam
EPI_ISL_514245, EPI_ISL_514246, EPI_ISL_514247	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Iffat Jahan, Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Md. Saddam
EPI_ISL_514248, EPI_ISL_514249, EPI_ISL_514250,	National Institute of Laboratory Medicine and Referral Center	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Md. Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam
EPI_ISL_514251, EPI_ISL_514252 EPI_ISL_514253	Advanced Biotechnology Laboratory	Genomic Research Lab, BCSIR	Hossain, Tasnim Nafisa, Md. Maruf Ahmed Molla, Mahmuda Yeasmin, Asish Kumar Ghosh, A. K. M. Shamsuzzaman, Sheikh Md. Selim Al Din, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Abu Sayeed Mohammad Mahmud, Mohammad Samir Uzzaman, Eshrar Osman, Hossain Uddin Shekhar, M. Aftab Uddin, Md. Bayejid Hosen, Eunus Ali, Md. Ahashan Habib, Shahina Akter, Tanjina Akhter Banu, Md.
EPI_ISL_514264, EPI_ISL_514265	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto	Laboratorio de Referencia Nacional de Biotecnologia	Murshed Hasan Sarkar, Barna Goswami, Iffat Jahan, Md. Saddam Hossain, Utpal Chandra Ray, Salek Ahmed Sajib, Md. Salim Khan Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torrez, Henri Bailon Calderon, Nancy Rojas Serrano
EPI_ISL_514266, EPI_ISL_514268, EPI_ISL_514269,	Nacional de Salud. Perú Israel Central Virology laboratory	y Biologia Molecular.Instituto Nacional de Salud.Perú Israel Central Virology laboratory	Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim
EPI_ISL_514270, EPI_ISL_514271, EPI_ISL_514272, EPI_ISL_514274			
EPI_ISL_514275	Israeli Central Virology laboratory	Israel Central Virology laboratory	Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim 5L_514293, EPI_ISL_514294, EPI_ISL_514295, EPI_ISL_514296, EPI_ISL_514309, EPI_ISL_514300, EPI_ISL_514302, EPI_ISL_514303, EPI_ISL_514305, EPI_ISL_514306, EPI_ISL_514308, EPI_ISL_514309,
EPI_ISL_514310, EPI_ISL_514311, EPI_ISL_514313, EPI_ISL_514	4314, EPI_ISL_514315, EPI_ISL_514316		Neta Zuckerman, Efrat Dahan Bucris, Oran Erster, Ella Mendelson, Michal Mandelboim
EPI_ISL_514317	Israel Central Virology laboratory Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Israel Central Virology laboratory Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.
EPI_ISL_514338, EPI_ISL_514339, EPI_ISL_514340, EPI_ISL_514341, EPI_ISL_514342	Laboratorio de Referencia Nacional de Virus Respiratorio. Instituto Nacional de Salud Perú	Laboratorio de Referencia Nacional de Biotecnología y Biología Molecular. Instituto Nacional de Salud Perú	Carlos Padilla Rojas, Karolyn Vega Chozo, Priscila Lope Pari, Omar Caceres Rey, Marco Galarza Perez, Maribel Huaringa Nuñez, Johanna Balbuena Torres, Henri Bailon Calderon, Nancy Rojas Serrano.
EPI_ISL_514343, EPI_ISL_514344, EPI_ISL_514345, EPI_ISL_514346, EPI_ISL_514347, EPI_ISL_514348,	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	PHE Covid Sequencing Team
EPI_ISL_514349, EPI_ISL_514350, EPI_ISL_514351, EPI_ISL_514352	g		
EPI_ISL_514354	General Hospital - Prilep	Research Center for Genetic Engineering and Biotechnology "Georgi D. Efremov" , Macedonian	RCGEB - MASA
EPI_ISL_514355, EPI_ISL_514360, EPI_ISL_514367,	National Institute for Communicable Diseases of the National Health	Academy of Sciences and Arts National Institute for Communicable Diseases of the	Allam M, Ismail A, Khumalo Z, Kwenda S, Mtshali P, Mnyameni F, Mohale T, Bhiman JN
EPI_ISL_514375, EPI_ISL_514382, EPI_ISL_514424 EPI_ISL_514425, EPI_ISL_514426, EPI_ISL_514427,	Laboratory Service Laboratory Diagnostic, Veterinary Specialized Institute Kraljevo	National Health Laboratory Service Laboratory Diagnostic, Veterinary Specialized	Vidanovic, D., Tesovic, B., Knezevic, A., Jankovic, M., Sekler, M., Banovic Djeri, B., Volkening, J., Afonso, C., Petrovic, T.
EPI_ISL_514428, EPI_ISL_514429, EPI_ISL_514430, EPI_ISL_514431		Institute Kraljevo	
EPI_ISL_514432	Prof. Massimo Zollo CEINGE TASK-FORCE COVID19 - Regione Campania	Prof. Massimo Zollo CEINGE TASK-FORCE COVID19 - Regione Campania	Veronica Ferrucci, Dae young Kong, Fatemeh asadzadeh, Laura Marrone, Roberto Siciliano, Rino Cerino, Giovanna Fusco, Marika Comegna, Angelo Boccia, Maurizio Viscardi, Giorgia Borriello, Sergio Brandi, Claudia Tiberio, Luigi Atripaldi, Giovanni Paolella, Giuseppe Castaldo, Stefano Pascarella, Martina Bianchi, Lorenzo Chiariotti, Jae Myun Lee, Jae Ho Jung, Kyong Seop Yun, Hong Yeoul Kim and Massimo Zollo
EPI_ISL_514434	NSTU COVID-19 Diagnostic Center,	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Magsud Hossain, Aura Rahman, Prof. Firoz Ahmed, Tahrima Huq, Abdus Sadique, Jahidul Alam, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof, Hasan Mahmud Reza
EPI_ISL_514435	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Harsh Chaudhari, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514436	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Harsh Chaudhari, Apurvasinh Puvar, Janvi Raval, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514437	Dr. RSS Hospital, Modasa	Gujarat Biotechnology Research Centre	Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Harsh Chaudhari, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514440	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aura Rahman, Prof. Firoz Ahmed, Tahrima Huq, Abdus Sadique, Tamanna Afroze, Jahidul Alam, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof, Hasan Mahmud Reza
EPI_ISL_514441	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aura Rahman, Prof. Firoz Ahmed, Tahrima Huq, Abdus Sadique, Jahidul Alam, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof, Hasan Mahmud Reza
EPI_ISL_514443, EPI_ISL_514445, EPI_ISL_514448, EPI_ISL_514449, EPI_ISL_514450, EPI_ISL_514451	Department of Pathology, University of Cambridge	COVID-19 Genomics UK (COG-UK) Consortium	Luke W Meredith, M. Estée Török, Myra Hosmillo, William L. Hamilton, Martin D. Curran, Theresa Feltwell, Grant Hall, Anna Yakovleva, Fahad A Khokhar, Charlotte J. Houldcroft, Laura G Caller, Aminu S. Jahun, Sarah L. Caddy, Yasmin Chaudhry, Malte Pinckert, Ian Goodfellow
EPI_ISL_514452, EPI_ISL_514453, EPI_ISL_514454	Queens Medical Centre, Clinical Microbiology Department / DeepSeq Nottingham	COVID-19 Genomics UK (COG-UK) Consortium	Gemma Clark, Wendy Smith, Manjinder Khakh, Vicki M Fleming, Michelle M Lister, Hannah Howson-Wells, Jonathan Ball, Patrick McClure, Joseph Chappell, Theocharis Tsoleridis, Nadine Holmes, Matthew Carlisle, Christopher Moore, Fei Sang, Johnny Debebe, Victoria Wright, Matthew Loose
EPI_ISL_514457, EPI_ISL_514458, EPI_ISL_514459, EPI_ISL_514 EPI_ISL_514486, EPI_ISL_514490, EPI_ISL_514505, EPI_ISL_514		PI_ISL_514466, EPI_ISL_514467, EPI_ISL_514468, EPI_IS	SL_514469, EPI_ISL_514472, EPI_ISL_514473, EPI_ISL_514474, EPI_ISL_514475, EPI_ISL_514476, EPI_ISL_514477, EPI_ISL_514478, EPI_ISL_514479, EPI_ISL_514480, EPI_ISL_514482, EPI_ISL_514484, EPI_ISL_514484, EPI_ISL_514485,
see above	Centre for Enzyme Innovation, University of Portsmouth / Translational Research Laboratory, Portsmouth Hospitals NHS Trust	COVID-19 Genomics UK (COG-UK) Consortium	Angela Beckett, Yann Bourgeois, Garry Scarlett, Sharon Glaysher, Scott Elliott, Kelly Bicknell, Robert Impey, Allyson Lloyd, Sarah Wyllie, Ethan Butcher, Anoop Chauhan, Samuel Robson
EPI_ISL_514514, EPI_ISL_514515	West of Scotland Specialist Virology Centre, NHSGGC / MRC-University of Glasgow Centre for Virus Research	COVID-19 Genomics UK (COG-UK) Consortium	Ana da Silva Filipe, Natasha Johnson, Kathy Smollett, Daniel Mair, Stephen Carmichael, Lily Tong, Jenna Nichols, Elihu Aranday-Cortes, Kirstyn Brunker, Yasmin Parr, Alice Broos, Kyriaki Nomikou; Sarah McDonald, Marc Niebel, Patawee Asamaphan; Richard Orton, Joseph Hughes, Sreenu Vattipally, David L Robertson; Alasdair MacLean, Rory Gunson; Kathy Li, Natasha Jesudason, Rajiv Shah, James Shepherd, Antonia Ho, Emma Thomson
EPI_ISL_514516, EPI_ISL_514517, EPI_ISL_514518, EPI_ISL_514518	4519, EPI_ISL_514520, EPI_ISL_514521, EPI_ISL_514522, EPI_ISL_514523, E 4546, EPI_ISL_514547, EPI_ISL_514548, EPI_ISL_514540, EPI_ISL_514550, E	PI_ISL_514524, EPI_ISL_514526, EPI_ISL_514527, EPI_IS PI_ISL_514551	SL_514528, EPI_ISL_514529, EPI_ISL_514530, EPI_ISL_514531, EPI_ISL_514533, EPI_ISL_514534, EPI_ISL_514535, EPI_ISL_514536, EPI_ISL_514537, EPI_ISL_514539, EPI_ISL_514540, EPI_ISL_514541, EPI_ISL_514542, SL 514555, EPI_ISL_514555, EPI_ISL_514555, EPI_ISL_514557, EPI_ISL_514559, EPI_ISL_514559, EPI_ISL_514560, EPI_ISL_514561, EPI_ISL_514562
see above	Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh / Institute of		McHugh M, Dewar R, Rooke S, Gallagher M, Balcaza C, O'Toole Á, Scher E, Hill V, McCrone JT, Colquhoun R, Yu X, Jackson B, Rambaut A, Williams TC, Templeton K
EDITICI E 14562 EDITICI E 14564 EDITICI E 14565 EDITICI E 1	Genetics and Molecular Medicine, University of Edinburgh	DI ICI E14571 EDI ICI E14572 EDI ICI E14572 EDI IC	N ENACTA FOLICI ENACTO FOLICI ENACTO FOLICI ENACTO FOLICI ENACTO FOLICI ENACTO
eri_5L_314303, Eri_5L_314304, Eri_5L_314303, Eri_5L_314 see above	Habos, Errاماری الاصلاحی الاص	COVID-19 Genomics UK (COG-UK) Consortium	il, 514574, EPI_ISL_514575, EPI_ISL_514576, EPI_ISL_514577, EPI_ISL_514578, EPI_ISL_514579. ED. State
EPI_ISL_514580	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	
EPI_ISL_514581	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514582	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, A D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514583	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Mikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Ioshi, Madhvi Joshi
EPI_ISL_514584	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	waniasini rainya, wuni ratet, wuni savanya, kaginawenina kuniar, ki Dukit, ki m kadir, haisii baksin, unatinya jisii, waninyi jisii Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514585	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitith Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514586	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin
EPI_ISL_514587	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monita Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra
			Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi

EPI_ISL_514588	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514589	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514590	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zama Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514591	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514592	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514593	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, R D Dixit, A M Kadri, Harsh Baskshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514594	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Do Dixit, A M Kadri, Harshi Basshi, Cilataniya Justi, Maduriy Joshi, Maduriy Joshi, Madharshi Pandya, Nidhi Patel, Nithi Savaliya, Raghawendra Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamelsh J Upadhyay, Sanjay Kapadia, Agurvasinh Puwar, Janvi Rayal, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514595	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J
EPI_ISL_514596	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay
EPI_ISL_514597	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia,
EPI_ISL_514598	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi
EPI_ISL_514599	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna
EPI_ISL_514600	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika
EPI_ISL_514601	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi,
EPI_ISL_514602	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi
EPI_ISL_514603	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, R. D. Dixit, A. M. Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J. Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel,
	B.J. Medical College and Civil hospital, Ahmedabad		Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514604		Gujarat Biotechnology Research Centre	Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514605	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514606	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Salyed, Komal Patel, Labdhi Pandya, Afzal Ansari, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514607	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514608	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Kamlesh J Upadhyay, Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514609	B.J. Medical College and Civil hospital, Ahmedabad	Gujarat Biotechnology Research Centre	Sanjay Kapadia, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514610	GMERS Medical College & Hospital, Gotri, Vadodara	Gujarat Biotechnology Research Centre	Meenakshi Shah, Neena Doshi, Varsha Godbole, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi,
EPI_ISL_514611	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Seema Bhatt, Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514612	GMERS Medical College and Hospital, Gandhinagar	Gujarat Biotechnology Research Centre	Gaurishankar Shrimali, Bhavesh Modi, Bharti Rajani, Apurvasinh Puvar, Janvi Raval, Zarna Patel, Monika Gandhi, Pinal Trivedi, Maharshi Pandya, Nidhi Patel, Nitin Savaliya, Raghawendra Kumar, Dinesh Kumar, Zuber Saiyed, Komal Patel, Labdhi Pandya, Afzal Ansari, Nikha Trivedi, Pranay Shah, Kamlesh J Upadhyay, Sanjay Kapadia, Seema Bhatt, R D Dixit, A M Kadri, Harsh Bakshi, Chaitanya Joshi, Madhvi Joshi
EPI_ISL_514613	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aura Rahman, Prof. Firoz Ahmed, Tahrima Huq, Abdus Sadique, Jahidul Alam, Tamanna Afroze, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof. Hasan Mahmud Reza
EPI_ISL_514615	NSTU COVID-19 Diagnostic Center	NSU Genome Research Institute (NGRI), North South University	Dr. Muhammad Maqsud Hossain, Aura Rahman, Prof. Firoz Ahmed, Tahrima Huq, Abdus Sadique, Jahidul Alam, Tamanna Afroze, Md Aminul Islam, Prof. Md. Didar-Ul-Alam, Prof. Kazi Nadim Hasan, Prof. Abdul Khaleque, Prof. Hasan Mahmud Reza
EPI_ISL_514616, EPI_ISL_514617, EPI_ISL_514618	Minnesota Department of Health, Public Health Laboratory	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
EPLISL_514619, EPLISL_514620, EPLISL_514621, EPLISL_514622, EPLISL_514623, EPLISL_514624, EPLISL_514625, EPLISL_514626, EPLISL_514627, EPLISL_514628	Mayo Clinic & Mayo Clinic Laboratories	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514629, EPI_ISL_514630, EPI_ISL_514631, EPI_ISL_514632, EPI_ISL_514633, EPI_ISL_514634, EPI_ISL_514635	M Health Fairview	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514636	Mayo Clinic & Mayo Clinic Laboratories	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514637	M Health Fairview St. Joseph's Hospital	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514638, EPI_ISL_514639, EPI_ISL_514640	Mayo Clinic & Mayo Clinic Laboratories	Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514641	St. Luke's Hospital	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
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EPI_ISL_514643	M Health Fairview St. Joseph's Hospital	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514644	Mayo Clinic & Mayo Clinic Laboratories	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514645	Avera Mckennan Laboratory	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514646	St. Luke's Hospital	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
EPI_ISL_514647	Allina Health Laboratory	Laboratory Minnesota Department of Health, Public Health	Matt Plumb, Jacob Garfin, and Xiong Wang
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EPI_ISL_514648	Essentia Health-St. Joseph's Medical Center	Minnesota Department of Health, Public Health Laboratory	Matt Plumb, Jacob Garfin, and Xiong Wang
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EPI_ISL_516082, EPI_ISL_516083, EPI_ISL_516084, EPI_ISL_516085, EPI_ISL_516086, EPI_ISL_516087, EPI_ISL_516088