

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.

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EPI_ISL_2379322, EPI_ISL_2379323, EPI_ISL_2379324, EPI_ISL_2379325, EPI_ISL_2379326, EPI_ISL_2379327, EPI_ISL_2379328, EPI_ISL_2379329, EPI_ISL_2379330			
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EPI_ISL_2323024, EPI_ISL_2373137, EPI_ISL_2373138, EPI_ISL_2373141, EPI_ISL_2373142, EPI_ISL_2373143, EPI_ISL_2373144, EPI_ISL_2373145, EPI_ISL_2373146, EPI_ISL_2373147, EPI_ISL_2373148, EPI_ISL_2373149, EPI_ISL_2373150, EPI_ISL_2373151, EPI_ISL_2373152, EPI_ISL_2373153, EPI_ISL_2373154, EPI_ISL_2373156, EPI_ISL_2373157, EPI_ISL_2373158, EPI_ISL_2373160, EPI_ISL_2373161, EPI_ISL_2373162, EPI_ISL_2373163, EPI_ISL_2373164, EPI_ISL_2373165, EPI_ISL_2373167, EPI_ISL_2373168, EPI_ISL_2373169, EPI_ISL_2373170, EPI_ISL_2373172, EPI_ISL_2373174, EPI_ISL_2373175, EPI_ISL_2373176, EPI_ISL_2373177, EPI_ISL_2373178, EPI_ISL_2373179, EPI_ISL_2373180, EPI_ISL_2373182, EPI_ISL_2373183, EPI_ISL_2373185, EPI_ISL_2373186, EPI_ISL_2373187, EPI_ISL_2373188, EPI_ISL_2373189, EPI_ISL_2373190, EPI_ISL_2373191, EPI_ISL_2373193, EPI_ISL_2373195, EPI_ISL_2373196, EPI_ISL_2373197, EPI_ISL_2373198, EPI_ISL_2373199, EPI_ISL_2373200, EPI_ISL_2373201, EPI_ISL_2373202, EPI_ISL_2373203, EPI_ISL_2373204, EPI_ISL_2373205, EPI_ISL_2373206, EPI_ISL_2373207, EPI_ISL_2373208, EPI_ISL_2373210, EPI_ISL_2373211, EPI_ISL_2373212, EPI_ISL_2373213, EPI_ISL_2373215, EPI_ISL_2373216, EPI_ISL_2373217, EPI_ISL_2373218, EPI_ISL_2373219, EPI_ISL_2373220, EPI_ISL_2373221, EPI_ISL_2373222, EPI_ISL_2373223, EPI_ISL_2373224, EPI_ISL_2373225, EPI_ISL_2373226, EPI_ISL_2373227, EPI_ISL_2373228, EPI_ISL_2373229, EPI_ISL_2373230, EPI_ISL_2373231, EPI_ISL_2373232, EPI_ISL_2373233, EPI_ISL_2373234, EPI_ISL_2373235			
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EPI_ISL_2340138			
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EPI_ISL_2341788, EPI_ISL_2341923	Capital Hospital, Bhubaneswar	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2365706	Cell-T	1. National Institute of Public Health - National Institute of Hygiene, Warsaw, Poland 2. Biobank Lab, University of Lodz 3. Laboratory of Respiratory Viruses, Teaching and Clinical Center of the Medical University of Lodz	Dominik Stragapali; Izabela Drózd; Jakub Lach; Katarzyna Zacharczuk; Klaudyna Królikowska; Maciej Borowiec; Magdalena Nowakowska; Magdalena Traczyk-Borszyńska; Marcin Słomka; Marta Sobalska-Kwapis; Małgorzata Sadkowska-Todys; Tomasz Płoszaj; Tomasz Wolkowicz
EPI_ISL_2337257	Chiba Prefectural Institute of Public Health	Pathogen Genomics Center, National Institute of Infectious Diseases	Kentaro Itokawa; Makoto Kuroda; Masanori Hashino; Rina Tanaka; Tsuyoshi Sekizuka
EPI_ISL_2342019, EPI_ISL_2342128, EPI_ISL_2342354	Chief District Medical Office, Cuttack	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2367243	Clinical Virology	Clinical Bacteriology	Adrian Egli; Alfredo Mari; Fanny Wegner; Hans Hirsch; Helena MB Seth-Smith; Julia Bielecki; Karoline Leuzinger; Manuel Battegay; Tim Roloff
EPI_ISL_2348848, EPI_ISL_2348862	Cliniques universitaires Saint-Luc	UCLouvain/REC/MBLG	Benoit Kabamba Mukadi; Jean Ruelle; Nicolas Pinte; Ophélie Simon
EPI_ISL_2383603, EPI_ISL_2383639, EPI_ISL_2383844, EPI_ISL_2383872, EPI_ISL_2383876	DPHL	Delaware Public Health Lab	Rebecca Savage
EPI_ISL_2379418, EPI_ISL_2379419, EPI_ISL_2379420, EPI_ISL_2379422	DSU CHAMRAJANAGARA	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2379423, EPI_ISL_2379429	DSU KODAGU	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2379413, EPI_ISL_2379417	DSU MANDYA	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2379404, EPI_ISL_2379405, EPI_ISL_2379406, EPI_ISL_2379409, EPI_ISL_2379410	DSU MYSURU	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2319006, EPI_ISL_2319007	Department for Virology, Molecular Biology and Genome Research, R. G. Lugar Center for Public Health Research, National Center for Disease Control and Public Health (NCDC) of Georgia.	Department for Virology, Molecular Biology and Genome Research, R. G. Lugar Center for Public Health Research, National Center for Disease Control and Public Health (NCDC) of Georgia.	Adam Kotorashvili; Amiran Gamkrelidze.; Ana Pakpiauri; Ann Machabishvili; Anna Kasradze; Davit Tsaguria; Ekaterine Khmaladze; Ekaterine Zangaladze; Ekaterine Zhghenti; Giorgi Gogoladze; Giorgi Tomashvili; Gvantsa Brachveli; Gvantsa Chanturia; Irma Burjanadze; Ketevan Sidamonidze; Khatuna Zakhashvili; Lela Sabadze; Lela Urushadze; Magda Dgebuadze; Maia Alkhazashvili; Mari Gavashelidze; Mariam Zakalashvili; Marine Murtskhvaladze; Meri Pantsulaia; Nato Kotaria; Nino Berishvili; Paata Imnadze; Roena Sukhiashvili; Tamar Jashiasvili; Tata Imnadze; Tea Tevdoradze
EPI_ISL_2354544, EPI_ISL_2354545	Department of Pathology, University of Cambridge	COVID-19 Genomics UK (COG-UK) Consortium	Aminu S. Jahun; Ian Goodfellow; Iliana Georgana; Martin D. Curran; Myra Hosmillo; Rhys Izuagbe; Surendra Parmar; William L. Hamilton; Yasmin Chaudhry
EPI_ISL_2357962, EPI_ISL_2357963, EPI_ISL_2357964, EPI_ISL_2357998, EPI_ISL_2357999, EPI_ISL_2358012	Dept. of Microbiology and Infection Control, Akershus University Hospital HF	Dept. of Microbiology and Infection Control, Akershus University Hospital HF	Alexander Hesselberg Løvestad; Hege Vangstein Aamot
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EPI_ISL_2319009	Diagnostyka. Laboratoria Medyczne.	1. ViroGenetics - BSL3 Laboratory of Virology, Malopolska Centre of Biotechnology, Jagiellonian University; 2. genXone SA, Research & Development Laboratory	Brylak A; Drweska-Matelska N; Gidlewicz A; Grabowski J; Gromowski, T.; Januszczak S; Kaszuba M; Kowalski, M.; Krych L; Labaj; Mazur-Panasiuk, N.; Nowicki G; P.P.; Pyrc, K.; Sykulski M; Szeszko K; Szulc, P.; Wydmanski W.
EPI_ISL_2386874, EPI_ISL_2341996, EPI_ISL_2342047	Dianovis GmbH Greiz District Head Quarters Hospital, Nayagarh	Robert Koch Institute Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2342038, EPI_ISL_2342065, EPI_ISL_2342070, EPI_ISL_2342073, EPI_ISL_2342079, EPI_ISL_2342086, EPI_ISL_2342299, EPI_ISL_2342300, EPI_ISL_2342301, EPI_ISL_2342302, EPI_ISL_2342303, EPI_ISL_2342304, EPI_ISL_2342305, EPI_ISL_2342306	District Headquarter Hospital, Puri	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2342357	District Headquarters Hospital, Deogarh	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2379462, EPI_ISL_2379464, EPI_ISL_2379465, EPI_ISL_2379466, EPI_ISL_2379467, EPI_ISL_2379468, EPI_ISL_2379469, EPI_ISL_2379470, EPI_ISL_2379471, EPI_ISL_2379472, EPI_ISL_2379473, EPI_ISL_2379474, EPI_ISL_2379475, EPI_ISL_2379476, EPI_ISL_2379477, EPI_ISL_2379478, EPI_ISL_2379479, EPI_ISL_2379480, EPI_ISL_2379481, EPI_ISL_2379482, EPI_ISL_2379483, EPI_ISL_2379484, EPI_ISL_2379485, EPI_ISL_2379486, EPI_ISL_2379488, EPI_ISL_2379490, EPI_ISL_2379491, EPI_ISL_2379494, EPI_ISL_2379496, EPI_ISL_2379497, EPI_ISL_2379498, EPI_ISL_2379499, EPI_ISL_2379500, EPI_ISL_2379502, EPI_ISL_2379504, EPI_ISL_2379505, EPI_ISL_2379506, EPI_ISL_2379507, EPI_ISL_2379508, EPI_ISL_2379509, EPI_ISL_2379510, EPI_ISL_2379511, EPI_ISL_2379513, EPI_ISL_2379514, EPI_ISL_2379515, EPI_ISL_2379518, EPI_ISL_2379519, EPI_ISL_2379520, EPI_ISL_2379521, EPI_ISL_2379523, EPI_ISL_2379525, EPI_ISL_2379526, EPI_ISL_2379527, EPI_ISL_2379528, EPI_ISL_2379529, EPI_ISL_2379530, EPI_ISL_2379531, EPI_ISL_2379532, EPI_ISL_2379533, EPI_ISL_2379534, EPI_ISL_2379535, EPI_ISL_2379536, EPI_ISL_2379537, EPI_ISL_2379538, EPI_ISL_2379539, EPI_ISL_2379540, EPI_ISL_2379541, EPI_ISL_2379542, EPI_ISL_2379543, EPI_ISL_2379544, EPI_ISL_2379546, EPI_ISL_2379547, EPI_ISL_2379548, EPI_ISL_2379549, EPI_ISL_2379550, EPI_ISL_2379551, EPI_ISL_2379552, EPI_ISL_2379553, EPI_ISL_2379554, EPI_ISL_2379555, EPI_ISL_2379556, EPI_ISL_2379557, EPI_ISL_2379558, EPI_ISL_2379559, EPI_ISL_2379560, EPI_ISL_2379561, EPI_ISL_2379562, EPI_ISL_2379563, EPI_ISL_2379564, EPI_ISL_2379565, EPI_ISL_2379566, EPI_ISL_2379567, EPI_ISL_2379568, EPI_ISL_2379569, EPI_ISL_2379570, EPI_ISL_2379571, EPI_ISL_2379572, EPI_ISL_2379573, EPI_ISL_2379574, EPI_ISL_2379575, EPI_ISL_2379576, EPI_ISL_2379577, EPI_ISL_2379578, EPI_ISL_2379579, EPI_ISL_2379580, EPI_ISL_2379581, EPI_ISL_2379582, EPI_ISL_2379583, EPI_ISL_2379584, EPI_ISL_2379585, EPI_ISL_2379586, EPI_ISL_2379587, EPI_ISL_2379588, EPI_ISL_2379589, EPI_ISL_2379590, EPI_ISL_2379591, EPI_ISL_2379592, EPI_ISL_2379593, EPI_ISL_2379594, EPI_ISL_2379595, EPI_ISL_2379596, EPI_ISL_2379597, EPI_ISL_2379598, EPI_ISL_2379599, EPI_ISL_2379600, EPI_ISL_2379601, EPI_ISL_2379602, EPI_ISL_2379603, EPI_ISL_2379604, EPI_ISL_2379605, EPI_ISL_2379606, EPI_ISL_2379607, EPI_ISL_2379608, EPI_ISL_2379609, EPI_ISL_2379610, EPI_ISL_2379611, EPI_ISL_2379612, EPI_ISL_2379613, EPI_ISL_2379614, EPI_ISL_2379615, EPI_ISL_2379616, EPI_ISL_2379617, EPI_ISL_2379618, EPI_ISL_2379619, EPI_ISL_2379620, EPI_ISL_2379621, EPI_ISL_2379622, EPI_ISL_2379623, EPI_ISL_2379624, EPI_ISL_2379625, EPI_ISL_2379626, EPI_ISL_2379627, EPI_ISL_2379628, EPI_ISL_2379629, EPI_ISL_2379630, EPI_ISL_2379631, EPI_ISL_2379632, EPI_ISL_2379633, EPI_ISL_2379634, EPI_ISL_2379635, EPI_ISL_2379636, EPI_ISL_2379637, EPI_ISL_2379638, EPI_ISL_2379639, EPI_ISL_2379640, EPI_ISL_2379641, EPI_ISL_2379642, EPI_ISL_2379643, EPI_ISL_2379644, EPI_ISL_2379645, EPI_ISL_2379646, EPI_ISL_2379647, EPI_ISL_2379648, EPI_ISL_2379649			
see above	Dr S Raju, Director of Public Health and Preventive Medicine	inStem NCBS - INSACOG	Uma Ramakrishnan Dasaradhi Palakodeti Aswin SaiNarain
EPI_ISL_2405621, EPI_ISL_2405646, EPI_ISL_2405815, EPI_ISL_2405912, EPI_ISL_2405937, EPI_ISL_2406370	Dutch COVID-19 response team	National Institute for Public Health and the Environment (RIVM)	Adam Meijer; AnneMarie van den Brandt; Annelies Kroneman; Bas van der Veer; Chantal Reusken; Dennis Schmitz; Dirk Eggink; Eunice Then; Florian Zwagemaker; Harry Vennema; James Groot; Jeroen Cremer; Karim Hajji; Kim Freriks; Linda van de Nes; Lisa Wijsman; Lynn Aarts; Melissa van Tuil; Rynne Jaarsma; Sanne Bos; Sharon van den Brink; Sjoerd Kulling; on behalf of the national COVID-19 response team
EPI_ISL_2322968, EPI_ISL_2346160	EHG MORGES Emory Molecular Diagnostics Laboratory, Emory Healthcare	Laboratory of genomics and metagenomics Piantadosi Lab, Emory Department of Pathology	Claire Bertelli; Damien Jacot; Gilbert Greub; Sébastien Aeby; Trestan Pillonel Ahmed Babiker; Anne Piantadosi
EPI_ISL_2389852, EPI_ISL_2389853	Eurofins MVZ Labor Gelsenkirchen	Robert Koch Institute	
EPI_ISL_2341690, EPI_ISL_2341694, EPI_ISL_2341931, EPI_ISL_2341932, EPI_ISL_2341934, EPI_ISL_2341935, EPI_ISL_2341936, EPI_ISL_2342011, EPI_ISL_2342024, EPI_ISL_2342026, EPI_ISL_2342035, EPI_ISL_2342052, EPI_ISL_2342056, EPI_ISL_2342080	FM Medical College, Balasore	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
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EPI_ISL_2362054, EPI_ISL_2362062	FUNDACIO ALTHAIA-MANRESA	Banc de Sang i Teixits	Carlos Hobeich; Francisco Vidal; Irene Corrales; Lorena Ramirez; Maria Glòria Soria; Natàlia Comes; Nina Borràs; Noemí Gonzalez; Sílvia Sauleda	
EPI_ISL_2363870, EPI_ISL_2363874	Fimlab Laboratoriot Oy Tampere	Expert Microbiology, National Institute for Health and Welfare	Carita Savolainen-Kopra; Erika Lindh; Haider al-Hello; Jani Halkilahti; Kirsi Liitsola; Niina Ikonen; Pekka Ellonen; Päivi Laurila; Sari Hannula; Soile Blomqvist; Teemu Smura	
EPI_ISL_2405209, EPI_ISL_2405210	Flow Diagnostics Lab	Los Angeles County Public Health Laboratories	P. Hemarajata et al.	
EPI_ISL_2390450	Fraunhofer-Institut für Zelltherapie und Immunologie IZI AG Next-Generation Diagnostics	Robert Koch Institute		
EPI_ISL_2368081, EPI_ISL_2368083, EPI_ISL_2368103, EPI_ISL_2368104, EPI_ISL_2368105, EPI_ISL_2368106, EPI_ISL_2368107, EPI_ISL_2368108, EPI_ISL_2368109, EPI_ISL_2368111, EPI_ISL_2368121, EPI_ISL_2368123, EPI_ISL_2368124, EPI_ISL_2368128, EPI_ISL_2368172, EPI_ISL_2371543, EPI_ISL_2371546, EPI_ISL_2371552, EPI_ISL_2371553, EPI_ISL_2371557, EPI_ISL_2371569, EPI_ISL_2371604, EPI_ISL_2371607, EPI_ISL_2371621, EPI_ISL_2371622, EPI_ISL_2371627, EPI_ISL_2371642, EPI_ISL_2371666	see above	Fulgent Genetics	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Adrian Paskey; Becky Tsai; Benafsh Sapra; Benjamin Rambo-Martin; Christopher Gulvick; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dhwani Batra; Doreen Ng; Duncan MacCannell; Harry Gao; James Xie; Jason Caravas; John Gao; Joseph Fierro; Kara Moser; Matthew Schmerer; Mickey Li; Peter W. Cook; Scott Sammons; Shatavia Morrison; Yan Meng; Yvette Unoarumhi
EPI_ISL_2323315, EPI_ISL_2333503, EPI_ISL_2333508, EPI_ISL_2333509, EPI_ISL_2333511, EPI_ISL_2333512, EPI_ISL_2357759, EPI_ISL_2357867, EPI_ISL_2374497, EPI_ISL_2374508, EPI_ISL_2374509, EPI_ISL_2374510, EPI_ISL_2374511, EPI_ISL_2374513	see above	Furst Medical Laboratory	Norwegian Institute of Public Health, Department of Virology	Kathrine Stene-Johansen; Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Inestefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Nevjen; Rasmus Riis Kopperud
EPI_ISL_2323452, EPI_ISL_2376424	GA Department of Public Health Laboratory	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Adam Retchless; Anna Kelleher; Anna Uehara; Brian Lynch; Clinton R. Paden; Dhvani Batra; Haibin Wang; Han Jia Justin Ng; Jasmine Padilla; Jing Zhang; Justin Lee; Krista Queen; Mark Burroughs; Mili Sheth; Morgan Davis; Peter Cook; Rachel Marine; Sarah Nobles; Suxiang Tong; Tara Coalter; Yan Li; Ying Tao	
EPI_ISL_2379384, EPI_ISL_2379385, EPI_ISL_2379386	GANDHIGRAMA	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi	
EPI_ISL_2405125, EPI_ISL_2405126	GMERS Government Medical College (GMC), Gotri	Gujarat Biotechnology Research Centre	Bithika Duttaroy; Chaitanya Joshi; Dinesh Kumar; Janvi Raval; Madhvi Joshi; Nitesh Shah; Nitin Savaliya; Ramesh Pandit; Sonal Sharma; Twinkle Soni; Umang Mishra; Zarna Patel; Zuber Saiyed	
EPI_ISL_2391489, EPI_ISL_2391490, EPI_ISL_2391491, EPI_ISL_2391492, EPI_ISL_2391493, EPI_ISL_2391494, EPI_ISL_2391495, EPI_ISL_2391496, EPI_ISL_2391497, EPI_ISL_2391498, EPI_ISL_2391501, EPI_ISL_2391502, EPI_ISL_2391503	see above	GMERS, Government Medical College (GMC), Gotri	Gujarat Biotechnology Research Centre	Bithika Duttaroy; Chaitanya Joshi; Dinesh Kumar; Janvi Raval; Madhvi Joshi; Nitesh Shah; Nitin Savaliya; Ramesh Pandit; Sonal Sharma; Twinkle Soni; Umang Mishra; Zarna Patel; Zuber Saiyed
EPI_ISL_2379353	GOVIDRAJ NAGAR	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi	
EPI_ISL_2379372, EPI_ISL_2379373	GOVIDRAJNAGAR	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi	
EPI_ISL_2333982	GROUPE HOSPITALIER SUD ILE DE FRANCE	Department of Virology, Henri Mondor University Hospital, Assistance Publique Hôpitaux de Paris, Université Paris-Est Créteil, INSERM U955	Alexandre Soulier; Christophe Rodriguez; Elisabeth Trawinski; Guillaume Gricourt; Jean-Michel Pawlotsky; Melissa N'Debi; Slim Fourati; Vanessa Demontant	
EPI_ISL_2340146, EPI_ISL_2340152, EPI_ISL_2340153	Germano de Sousa	Instituto Nacional de Saude (INSA)	Borges et al	
EPI_ISL_2340336, EPI_ISL_2340339, EPI_ISL_2340340, EPI_ISL_2340341, EPI_ISL_2340348, EPI_ISL_2340358	Germano de Sousa	Instituto Nacional de Saude (INSA) and BioSystems & Integrative Sciences Institute (BioSI) Genomics Unit, FCUL	Borges et al	
EPI_ISL_2364992, EPI_ISL_2370147	Greek Genome Center, Biomedical Research Foundation of the Academy of Athens (BRFAA)	Greek Genome Center, Biomedical Research Foundation of the Academy of Athens (BRFAA)	Dimitrios Thanos; Emmanouil Athanasiadis; Giannis Vatsellas; Katerina Zoi; Theodoros Loupis	
EPI_ISL_2340227	H Divino Espirito Santo - Ponta Delgada	Instituto Nacional de Saude (INSA)	Borges et al	
EPI_ISL_2385214, EPI_ISL_2385226, EPI_ISL_2385230, EPI_ISL_2385233, EPI_ISL_2385242, EPI_ISL_2385245, EPI_ISL_2385266, EPI_ISL_2385267, EPI_ISL_2385279, EPI_ISL_2385280, EPI_ISL_2385284, EPI_ISL_2385288, EPI_ISL_2385292, EPI_ISL_2385308	see above	HELIIX LLC	WHO National Influenza Centre Russian Federation	Andrey Komissarov; Artem Fadeev; Daria Danilenko; Dmitry Lioznov; Elena Nabieva; Georgii Bazykin; Kirill Varchenko; Ksenia Safina; Kseniya Komissarova; Maria Pisareva; Maria Timofeeva; Mikhail Bakaev; Nikita Yolshin; Oula Masour; Tamila Musaeva; Veronika Eder
EPI_ISL_2379349, EPI_ISL_2379350	HOSA HALLI	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi	
EPI_ISL_2379363, EPI_ISL_2379364, EPI_ISL_2379365, EPI_ISL_2379366	HOSAHALLI	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi	
EPI_ISL_2361925, EPI_ISL_2361946	HOSPITAL UNIVERSITARIO SON ESPASES	HOSPITAL UNIVERSITARIO SON ESPASES	Antonio Oliver; Carla López-Causapé; Pablo Fraile-Ribot; SeqCovid	
EPI_ISL_2316281, EPI_ISL_2316293, EPI_ISL_2316297, EPI_ISL_2316306, EPI_ISL_2316336, EPI_ISL_2316359, EPI_ISL_2316365, EPI_ISL_2316384, EPI_ISL_2316411, EPI_ISL_2316413, EPI_ISL_2316430, EPI_ISL_2316459, EPI_ISL_2316502, EPI_ISL_2316505, EPI_ISL_2316507, EPI_ISL_2316517, EPI_ISL_2316533, EPI_ISL_2317171, EPI_ISL_2317188, EPI_ISL_2317199, EPI_ISL_2317204, EPI_ISL_2317218, EPI_ISL_2317236, EPI_ISL_2317241, EPI_ISL_2317257, EPI_ISL_2317279, EPI_ISL_2317286, EPI_ISL_2317296, EPI_ISL_2317297, EPI_ISL_2317333, EPI_ISL_2317351, EPI_ISL_2317357, EPI_ISL_2317378, EPI_ISL_2317380, EPI_ISL_2317387, EPI_ISL_2317411, EPI_ISL_2318033, EPI_ISL_2318042, EPI_ISL_2318066, EPI_ISL_2318103, EPI_ISL_2318112, EPI_ISL_2318114, EPI_ISL_2318206, EPI_ISL_2318248, EPI_ISL_2318265, EPI_ISL_2318341, EPI_ISL_2347373, EPI_ISL_2347382, EPI_ISL_2347386, EPI_ISL_2347403, EPI_ISL_2347408, EPI_ISL_2347410, EPI_ISL_2347436, EPI_ISL_2347445, EPI_ISL_2347452, EPI_ISL_2347473, EPI_ISL_2347480, EPI_ISL_2347488, EPI_ISL_2347506, EPI_ISL_2347512, EPI_ISL_2347523, EPI_ISL_2347531, EPI_ISL_2347541, EPI_ISL_2347558, EPI_ISL_2347568, EPI_ISL_2347569, EPI_ISL_2347580, EPI_ISL_2347683, EPI_ISL_2347770, EPI_ISL_2347776, EPI_ISL_2347804, EPI_ISL_2347893, EPI_ISL_2347901, EPI_ISL_2347912, EPI_ISL_2347913, EPI_ISL_2347919, EPI_ISL_2347922, EPI_ISL_2347930, EPI_ISL_2347967, EPI_ISL_2348004, EPI_ISL_2348007, EPI_ISL_2348016, EPI_ISL_2348029, EPI_ISL_2348046, EPI_ISL_2348057, EPI_ISL_2348065, EPI_ISL_2394797, EPI_ISL_2394804, EPI_ISL_2394807, EPI_ISL_2394821, EPI_ISL_2394844, EPI_ISL_2394850, EPI_ISL_2394858	see above	Health Services Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Health Services Laboratories and Alex Alderton; Ian Johnston; Jeffrey Barrett; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Roberto Amato; Sonia Goncalves
EPI_ISL_2376218	Heilig hart Lier	Imeda Hospital	Dagmar Obbels; Hanne Valgaeren; Johan Frans	
EPI_ISL_2320021, EPI_ISL_2320147, EPI_ISL_2320156, EPI_ISL_2320176, EPI_ISL_2320200, EPI_ISL_2320383, EPI_ISL_2320446, EPI_ISL_2320572, EPI_ISL_2320699, EPI_ISL_2320767, EPI_ISL_2320883, EPI_ISL_2321076, EPI_ISL_2321081, EPI_ISL_2321132, EPI_ISL_2367643	see above	Helix/Illumina	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Adrian Paskey; Alexandre Bolze; Ary Ascencio; Benjamin Rambo-Martin; Brad Sickler; Charlotte Rivera-Garcia; Christine Tran; Christopher Gulvick; Clinton R. Paden; Dakota Howard; Darlene Wagner; David Becker; Dhwani Batra; Duncan MacCannell; Efrén Sandoval; Eileen de Feo; Elizabeth Cirulli; Eric Allen; Geraint Levan; James Lu; Jan Antico; Jason Caravas; Jason Nguyen; Jimmy Ramirez; Jingtao Liu; Kara Moser; Kelly Schiabor Barrett; Kim Gietzen; Magnus Isaksson; Marc Laurent; Matthew Schmerer; Matthew Tolentino; Nicole L. Washington; Peter W. Cook; Phil Febbo; Ryan Cho; Scott Sammons; Shannon Wickline; Shatavia Morrison; Sherry Wang; Simon White; Tyler Cassens; William Lee; Yvette Unoarumhi
EPI_ISL_2401863	Hospital Center Emile Mayrisch	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Catherine Ragimbeau; Cynthia Oxacelay; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Tamir Abdelrahman	
EPI_ISL_2401928	Hospital Center Luxembourg	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Catherine Ragimbeau; Fatu Djabi; Jean-Hugues Francois; Jessica Tapp; Lise Pignon; Michel Kohnen; Raoul Salmon; Tamir Abdelrahman	
EPI_ISL_2402477, EPI_ISL_2402478	Hospital General Universitario Gregorio Marañón	Hospital General Universitario Gregorio Marañón	Cristina Rodriguez-Grande; Dario García de Viedma; Julia Suárez; Laura Pérez-Lago; Marta Herranz Martin; Patricia Muñoz; Pedro Sola Campoy; Pilar Catalán; Sergio Buenestado Serrano; Victor Manuel de la Cueva	
EPI_ISL_2352009, EPI_ISL_2352011	Hospital Universitari Bellvitge	Microbiology Department	Aida Gonzalez-Diaz; Carmen Ardanuy; Jordi Camara; Jordi Niubo; Laura Calatayud; M Angeles Dominguez; Miguel Fernandez-Huerta; Sara Marti	
EPI_ISL_2391814, EPI_ISL_2391843, EPI_ISL_2391845, EPI_ISL_2391899, EPI_ISL_2391912, EPI_ISL_2391913, EPI_ISL_2391926	see above	Hospital Universitari Vall d'Hebron - Vall d'Hebron Institut de Recerca	Hospital Universitari Vall d'Hebron - Vall d'Hebron Institut de Recerca	Alejandra González-Sánchez; Andrés Antón; Ariadna Rando; Carla Castillo; Cristina Andrés; Damir Garcia-Cehic; Josep Quer; Juliana Esperalba; Maria Carmen Martin; Maria Gema Codina; Maria Piñana; Tomàs Pumarola
EPI_ISL_2391788, EPI_ISL_2391807	Huntington Memorial Hospital	Los Angeles County Public Health Laboratories	P. Hemarajata et al.	
EPI_ISL_2333757	Hôpital Avicenne	Department of Virology, Henri Mondor University Hospital, Assistance Publique Hôpitaux de Paris, Université Paris-Est Créteil, INSERM U955	Alexandre Soulier; Christophe Rodriguez; Elisabeth Trawinski; Guillaume Gricourt; Jean-Michel Pawlotsky; Melissa N'Debi; Slim Fourati; Vanessa Demontant	
EPI_ISL_2348923, EPI_ISL_2348924, EPI_ISL_2348925	Hôpitaux Iris Sud Etterbeek-Ixelles	UCLouvain/REC/MBLG	Benoit Kabamba Mukadi; Jean Ruelle; Nicolas Pinte; Ophélie Simon	
EPI_ISL_2400536	Hôpitaux Robert Schuman	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Alain Hakim; Anke Wienecke-Baldacchino; Catherine Ragimbeau; Fatu Djabi; Jessica Tapp; Lise Pignon; Nawfal Faik; Raoul Salmon; Tamir Abdelrahman	
EPI_ISL_2384050	IA State Hygienic Laboratory	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacey; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook; Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi	
EPI_ISL_2361830, EPI_ISL_2361831, EPI_ISL_2361832, EPI_ISL_2361833, EPI_ISL_2361834, EPI_ISL_2361835, EPI_ISL_2361836, EPI_ISL_2361837, EPI_ISL_2361838, EPI_ISL_2361840, EPI_ISL_2361841, EPI_ISL_2361843, EPI_ISL_2361844, EPI_ISL_2361845, EPI_ISL_2361846, EPI_ISL_2361847, EPI_ISL_2361848, EPI_ISL_2361849, EPI_ISL_2361850, EPI_ISL_2361851, EPI_ISL_2361852, EPI_ISL_2361853, EPI_ISL_2361854, EPI_ISL_2361855, EPI_ISL_2361856, EPI_ISL_2361857, EPI_ISL_2361858, EPI_ISL_2361859, EPI_ISL_2361860, EPI_ISL_2361862, EPI_ISL_2361864, EPI_ISL_2361865, EPI_ISL_2361866, EPI_ISL_2361867, EPI_ISL_2361868, EPI_ISL_2361869, EPI_ISL_2361871, EPI_ISL_2361872, EPI_ISL_2361873, EPI_ISL_2361874, EPI_ISL_2361875, EPI_ISL_2361876, EPI_ISL_2361877, EPI_ISL_2361878				

see above	ICMR-National Institute for Research In Tuberculosis	NIV Influenza	NIV; Potdar; Pune; Varsha on behalf of National Influenza Centre
EPI_ISL_2389988	IMD - Labor Oderland	Robert Koch Institute	
EPI_ISL_2361439	IN State Department of Health Laboratory Services	IN State Department of Health Laboratory Services	Brian Pope; Cassandra Campion; Jamie Yeadon; Kyle Brownlee; Lixia Liu; Mark Glazier; Melissa Hindenlang
EPI_ISL_2400139, EPI_ISL_2400143, EPI_ISL_2400148, EPI_ISL_2400149, EPI_ISL_2400151, EPI_ISL_2400153, EPI_ISL_2400154, EPI_ISL_2400156, EPI_ISL_2400157, EPI_ISL_2400158, EPI_ISL_2400159, EPI_ISL_2400160, EPI_ISL_2400161, EPI_ISL_2400166, EPI_ISL_2400167, EPI_ISL_2400170, EPI_ISL_2400171, EPI_ISL_2400177, EPI_ISL_2400178, EPI_ISL_2400181, EPI_ISL_2400182, EPI_ISL_2400183, EPI_ISL_2400186, EPI_ISL_2400188, EPI_ISL_2400198, EPI_ISL_2400199, EPI_ISL_2400201, EPI_ISL_2400204, EPI_ISL_2400205, EPI_ISL_2400206, EPI_ISL_2400208, EPI_ISL_2400213, EPI_ISL_2400215, EPI_ISL_2400220, EPI_ISL_2400221, EPI_ISL_2400222, EPI_ISL_2400223, EPI_ISL_2400225			
see above	INSACOG-WB	National Institute of Biomedical Genomics - INSACOG	Ajay Chakraborti; Arindam Maltra; Bhaswati Bandyopadhyay; Nidhan Kumar Biswas; Saumitra Das; Sreedhar Chinnaswamy; Tamal Ghosh
EPI_ISL_2403108	Illinois Department of Public Health - Springfield Lab	Illinois Department of Public Health - Springfield Lab	Bryan Sim; Gordon McCall
EPI_ISL_2322996	Imeda Hospital	Imeda Hospital	Dagmar Obbels; Hanne Valgaeren; Johan Frans
EPI_ISL_2323583, EPI_ISL_2323642, EPI_ISL_2323770, EPI_ISL_2323988, EPI_ISL_2324007, EPI_ISL_2324032, EPI_ISL_2324115			
see above	Infinity Biologix	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Adrian Paskey; Benjamin Rambo-Martin; Chirayu Goswami; Christian Bixby; Christopher Gulvick; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dhwanj Batra; Duncan MacCannell; Jason Caravas; Jonathan Schultz; Kara Moser; Matthew Schmerer; Peter W. Cook; Robin Grimwood; Russ Hager; Scott Sammons; Shatavia Morrison; Yihe Wang; Yvette Unoarumhi
EPI_ISL_2342514	Institute for Infectious Diseases, University of Bern, Switzerland	Institute for Infectious Diseases, University of Bern, Switzerland	Alban Ramette; Christian Baumann; Cora Sägesser; Franziska Suter-Riniker; Miguel A Terrazos Miani; Pascal Bittel; Peter Keller; Stefan Neuenschwander; Stephen L Leib
EPI_ISL_2324268	Institute for Medical and Chemical Laboratory Diagnostics, Kepler Universitätsklinikum	Berghaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Andreas Berghaler; Anna Schedl; Bekir Erguner; Benedikt Agerer; Christoph Bock; Fabian Amman; Jan Laine; Lukas Endler; Maelle Le Moing; Martin Senekowitsch; Michael Schuster; Petr Triska; Thomas Penz
EPI_ISL_2348811, EPI_ISL_2348812, EPI_ISL_2348814, EPI_ISL_2348816, EPI_ISL_2348817, EPI_ISL_2348818, EPI_ISL_2348828, EPI_ISL_2348829			
see above	Institute for Urban Disease Control and Prevention	COVID-19 Network Investigations (CONI) Alliance	Amornmas Kongklieng; Angkana Huang; Anthony R. Jones; Arporn Wangwiwatsin; Bhakbhoom Panthan; Chonticha Klungtong; Duangkamon Loesbanluechai; Ekawat Pasomsub; Elizabeth Batty; Insee Sensorin; Janjira Thaipadungpanit; Kamolthip Atsawararunut; Khajohn Joonlask; Kingkan Rakmanee; Krittikorn Kumponsrin; Namfon Kotanan; Prayuth Kaewmalang; Pukkapon Parwijiitku; Stefan Fernandez; Thanat Chookajorn; Theerarat Kochakarn; Treewat Watthanachockchai; Vichan Pawun; Wasun Chantratita; Wudthichai Manasatienkij
EPI_ISL_2399440, EPI_ISL_2399441, EPI_ISL_2399442, EPI_ISL_2399443, EPI_ISL_2399444, EPI_ISL_2399445, EPI_ISL_2399446, EPI_ISL_2399447, EPI_ISL_2399448, EPI_ISL_2399449, EPI_ISL_2399450, EPI_ISL_2399451, EPI_ISL_2399452, EPI_ISL_2399453, EPI_ISL_2399454, EPI_ISL_2399455, EPI_ISL_2399456			
see above	Institute of Epidemiology, Disease Control and Research (IEDCR)	IEDCR-ideSHI-icddr,b	Firdausi Qadri; Hassan Afrad; Manjur Hossain Khan; Sadia Rahman; Tahmina Shirin
EPI_ISL_2341682, EPI_ISL_2341695, EPI_ISL_2341698, EPI_ISL_2341699, EPI_ISL_2341701, EPI_ISL_2341704, EPI_ISL_2341706, EPI_ISL_2341712, EPI_ISL_2341783, EPI_ISL_2341785, EPI_ISL_2341924, EPI_ISL_2341925, EPI_ISL_2341926, EPI_ISL_2341941, EPI_ISL_2341942, EPI_ISL_2341998, EPI_ISL_2342017, EPI_ISL_2342021, EPI_ISL_2342028, EPI_ISL_2342062, EPI_ISL_2342072, EPI_ISL_2342074, EPI_ISL_2342115, EPI_ISL_2342120, EPI_ISL_2342359, EPI_ISL_2342360, EPI_ISL_2342361, EPI_ISL_2342362, EPI_ISL_2342363, EPI_ISL_2342604, EPI_ISL_2342639, EPI_ISL_2342645, EPI_ISL_2342652, EPI_ISL_2342666, EPI_ISL_2342671, EPI_ISL_2342980			
see above	Institute of Life Sciences, Bhubaneswar	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Walia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2340461	Instituto Nacional de Saude (INSA)	Instituto Nacional de Saude (INSA) and BioSystems & Integrative Sciences Institute (BioSI) Genomics Unit, FCUL	Borges et al
EPI_ISL_2365687	Invicta	1. National Institute of Public Health - National Institute of Hygiene, Warsaw, Poland 2. Biobank Lab, University of Lodz 3. Laboratory of Respiratory Viruses, Teaching and Clinical Center of the Medical University of Lodz	Dominik Strapagiel; Izabela Drózd; Jakub Lach; Katarzyna Zacharczuk; Klaudyna Królikowska; Maciej Borowiec; Magdalena Nowakowska; Magdalena Traczyk-Borszynska; Marcin Słomka; Marta Sobalska-Kwapis; Małgorzata Sadkowska-Todys; Tomasz Płoszaj; Tomasz Wolkowicz
EPI_ISL_2341995, EPI_ISL_2342032, EPI_ISL_2342037, EPI_ISL_2342053, EPI_ISL_2342071, EPI_ISL_2342081, EPI_ISL_2342084, EPI_ISL_2342090, EPI_ISL_2342094, EPI_ISL_2342116, EPI_ISL_2342119, EPI_ISL_2342126, EPI_ISL_2342355			
see above	Itki Aarogyashala, Ranchi	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Walia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2379376	JAYDEVA	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2331496, EPI_ISL_2331507	Johns Hopkins Hospital Department of Pathology	Johns Hopkins Hospital Department of Pathology	Adannaya Amadi; C. Paul Morris; Chun Huai Luo; Heba H. Mostafa; Matthew Schwartz; Nicholas Gallagher
EPI_ISL_2400293, EPI_ISL_2400297, EPI_ISL_2400298, EPI_ISL_2400299	Kansas Health and Environmental Lab	Kansas Health and Environmental Lab	Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam
EPI_ISL_2397179, EPI_ISL_2397185, EPI_ISL_2397200	Klinisch Laboratorium ZNA	Klinisch Laboratorium ZNA	Verstrepen et al.
EPI_ISL_2342999	LESP Michoacan/LANS	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Abril Rodriguez-Maldonado; Ariadna Medina-Benitez; Claudia Wong-Arambula; Ernesto Ramirez-Gonzalez.; Gisela Barrera-Badillo; Irma Lopez-Martinez; Joaquin Quiroz-Mercado; Lucia Hernandez-Rivas; Natividad Cruz-Ortiz; Sergio Rangel-Guerrero; Tatiana Nunez-Garcia; Vanessa Rivero-Arredondo
EPI_ISL_2343005	LESP Sinaloa	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	Abril Rodriguez-Maldonado; Ariadna Medina-Benitez; Claudia Wong-Arambula; Ernesto Ramirez-Gonzalez.; Gisela Barrera-Badillo; Irma Lopez-Martinez; Joaquin Quiroz-Mercado; Lucia Hernandez-Rivas; Natividad Cruz-Ortiz; Sergio Rangel-Guerrero; Tatiana Nunez-Garcia; Vanessa Rivero-Arredondo
EPI_ISL_2383189	LSUHS Emerging Viral Threat Laboratory	LSUHS Emerging Viral Threat Laboratory	Alexander Mijalis; Andrew D. Yurochko; Christopher G. Kevil; Gregory L. Ware; Jennifer L. Carroll; Jeremy P. Kamil; John A. Vanchiere; Maarten Van Diest; Rona S. Scott
EPI_ISL_2362860, EPI_ISL_2362935, EPI_ISL_2362951, EPI_ISL_2362955	Lab voor klinische biologie	Lab voor klinische biologie	Bruno Verhasselt; Hannelore Hamerlinck; Marija Janevska
EPI_ISL_2348574, EPI_ISL_2348575, EPI_ISL_2348576, EPI_ISL_2348577, EPI_ISL_2348578, EPI_ISL_2348579, EPI_ISL_2348580, EPI_ISL_2348581, EPI_ISL_2348582, EPI_ISL_2348583, EPI_ISL_2348584, EPI_ISL_2348585, EPI_ISL_2348587, EPI_ISL_2348588, EPI_ISL_2348589, EPI_ISL_2348590, EPI_ISL_2348591, EPI_ISL_2348592, EPI_ISL_2382824			
see above	Labo Luc Olivier	GIGA Medical Genomics	Bouchra Boujemla; Cécile Meex; Keith Durkin; Maria Artesi; Marie-Pierre Hayette; Nathalie Renotte; Pierrette Melin; Raphaël Boreux; Sébastien Bontems; Vincent Bours
EPI_ISL_2313446, EPI_ISL_2313507, EPI_ISL_2313650, EPI_ISL_2388611	Labor 28 MVZ GmbH	Robert Koch Institute	
EPI_ISL_2386808, EPI_ISL_2386838, EPI_ISL_2386840, EPI_ISL_2389915, EPI_ISL_2389924, EPI_ISL_2389927, EPI_ISL_2389938, EPI_ISL_2389939, EPI_ISL_2389949			
see above	Labor Becker & Kollegen (Standort München)	Robert Koch Institute	
EPI_ISL_2339438, EPI_ISL_2339452, EPI_ISL_2339458, EPI_ISL_2339465, EPI_ISL_2339467, EPI_ISL_2339481, EPI_ISL_2339482, EPI_ISL_2339501, EPI_ISL_2382576, EPI_ISL_2382590, EPI_ISL_2382618, EPI_ISL_2382619			
see above	Labor Berlin Charité Vivantes GmbH / Institut für Virologie	Charité Universitätsmedizin Berlin, Institut für Virologie/Labor Berlin	Barbara Mühlemann; Christian Drosten; Christine Stephan; Peter Menzel; Rolf Schwarzer; Terry Jones; Victor M Corman
EPI_ISL_2384664	Labor Dr. Fenner und Kollegen	Heinrich Pette Institute, Leibniz Institute for Experimental Virology	Adam Grundhoff; Alexis Robitaille; Johannes Knobloch; Martin Aepfelbacher; Nicole Fischer; Thomas Günther
EPI_ISL_2389337, EPI_ISL_2389352	Labor Dr. Heidrich & Kollegen MVZ GmbH Hamburg	Robert Koch Institute	
EPI_ISL_2386672, EPI_ISL_2386685, EPI_ISL_2386700, EPI_ISL_2386730, EPI_ISL_2386764, EPI_ISL_2390617, EPI_ISL_2390621, EPI_ISL_2390624, EPI_ISL_2390625, EPI_ISL_2390636, EPI_ISL_2390639, EPI_ISL_2390645, EPI_ISL_2390646, EPI_ISL_2390656, EPI_ISL_2390662, EPI_ISL_2390692, EPI_ISL_2390716, EPI_ISL_2390725			
see above	Labor ZOTZ KLIMAS; MVZ Düsseldorf-Centrum	Robert Koch Institute	
EPI_ISL_2313284	Laborarztpraxis Osnabrück	Robert Koch Institute	
EPI_ISL_2406506	Laboratoire Virologie Saint Louis APHP	Laboratoire Virologie Saint Louis APHP	Constance Delauguerre; Jérôme Le Goff; Linda Feghoul; Marie Laure Chaix; Marie Laure Néré; Maud Salmona; Severine Mercier Delarue; Sophia Achaibou
EPI_ISL_2401121, EPI_ISL_2401137, EPI_ISL_2401139, EPI_ISL_2401152	Laboratoire national de sante, Microbiology, Virology	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Catherine Ragimbeau; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Tamir Abdelrahman; Trung Nguyen Nguyen
EPI_ISL_2400877, EPI_ISL_2400918, EPI_ISL_2400942, EPI_ISL_2400960	Laboratoires Reunis	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Bernard Weber; Catherine Ragimbeau; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Tamir Abdelrahman
EPI_ISL_2400730, EPI_ISL_2400820, EPI_ISL_2400821, EPI_ISL_2400824, EPI_ISL_2400827, EPI_ISL_2400828, EPI_ISL_2400829, EPI_ISL_2400830			
see above	Laboratoires d'analyses medicales - Ketterhill	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Caroline Scheiber; Catherine Ragimbeau; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Serge Vedy; Tamir Abdelrahman
EPI_ISL_2340135	Laboratorio Aziendale di Microbiologia e Virologia, Azienda Sanitaria dell'Alto Adige	Laboratorio Aziendale di Microbiologia e Virologia, Azienda Sanitaria dell'Alto Adige	Anne Picard; Chiara Cantaloni; Claudia Volpato; Elisa Masi; Elisabetta Giacobazzi; Elisabetta Pagani; Irene Bianconi; Stefanie Wieser
EPI_ISL_2361493, EPI_ISL_2361494	Laboratorio HUB -Azienda Ospedaliero Universitaria - AOU - Cagliari	Laboratorio SPOKE Biologia Molecolare -Azienda Ospedaliero Universitaria - AOU - Cagliari	Alessandra Scano; Ferdinando Coghe; Germano Orrù; Miriam Loddio; Riccardo Cappai; Sara Fais; Valentina Medda

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see above Lighthouse Lab in Alderley Park Wellcome Sanger Institute for the COVID-19 Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Ian Johnston; Jacquelyn Wynn; Jeffrey Barrett; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Mairead Hyland; Roberto Amato; Sonia Goncalves;

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EPI_ISL_2372725, EPI_ISL_2372737, EPI_ISL_2372749, EPI_ISL_2372772	Microbiology CATLAB	Can Rutí SARS-CoV-2 Sequencing Hub (HUGTIP/IrslCaixa/IGTP)
EPI_ISL_2321171, EPI_ISL_2405344, EPI_ISL_2405356	Microbiological Diagnostic Unit - Public Health Laboratory (MDU-PHL)	MDU-PHL
EPI_ISL_2372720, EPI_ISL_2372733, EPI_ISL_2372744, EPI_ISL_2372744	Microbiology Department, Laboratori Clínic Metropolitana Nord, Hospital Universitari Germans Trias i Pujol	Can Rutí SARS-CoV-2 Sequencing Hub (HUGTIP/IrslCaixa/IGTP)
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EPI_ISL_2362674, EPI_ISL_2362675, EPI_ISL_2362680, EPI_ISL_2362683, EPI_ISL_2362684, EPI_ISL_2362685, EPI_ISL_2362686		
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EPI_ISL_2403370	Ministry of Health Turkey	Ministry of Health Turkey
EPI_ISL_2408255, EPI_ISL_2408260, EPI_ISL_2408314, EPI_ISL_2408321, EPI_ISL_2408323, EPI_ISL_2408327, EPI_ISL_2408327		
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EPI_ISL_2402575, EPI_ISL_2402577	Minnesota Department of Health, Public Health Laboratory	Minnesota Department of Health, Public Health Laboratory
EPI_ISL_2405107	Molecular Biology Laboratory, Westchester Medical Center	Genomics Core Laboratory, New York Medical College
EPI_ISL_2399438	Molecular Diagnostics Pathology Department Mater Dei Hospital Malta	Molecular Diagnostics Pathology Department Mater Dei Hospital Malta
EPI_ISL_2391477, EPI_ISL_2391478, EPI_ISL_2391481, EPI_ISL_2391482, EPI_ISL_2391483, EPI_ISL_2391484, EPI_ISL_2391486, EPI_ISL_2391487, EPI_ISL_2405118, EPI_ISL_2405119, EPI_ISL_2405120, EPI_ISL_2405121, EPI_ISL_2405122, EPI_ISL_2405123		
see above	N.H.H. Municipal Medical College, Ahmedabad	Gujarat Biotechnology Research Centre
EPI_ISL_2379387	NAGAPPA BLOCK	INSACOG-KA, NIMHANS
EPI_ISL_2342642, EPI_ISL_2342644, EPI_ISL_2342656, EPI_ISL_2342722, EPI_ISL_2342919, EPI_ISL_2342930, EPI_ISL_2342931, EPI_ISL_2342932, EPI_ISL_2342937, EPI_ISL_2342938, EPI_ISL_2342944, EPI_ISL_2342947, EPI_ISL_2342953, EPI_ISL_2342956, EPI_ISL_2342964		
see above	NCCS, Pune	Institute of Life Sciences - INSACOG
EPI_ISL_2379357, EPI_ISL_2379388, EPI_ISL_2379398	NIMHANS	INSACOG-KA, NIMHANS
EPI_ISL_2376127	NJDOH, Public Health and Environmental Laboratories	NJ_PHEL
EPI_ISL_2379203	National Center of Infectious and Parasitic Diseases	National Center of Infectious and Parasitic Diseases
EPI_ISL_2332704, EPI_ISL_2332706, EPI_ISL_2332707, EPI_ISL_2332708, EPI_ISL_2332709, EPI_ISL_2332714, EPI_ISL_2332716, EPI_ISL_2332717, EPI_ISL_2332718, EPI_ISL_2332719, EPI_ISL_2332721, EPI_ISL_2332722, EPI_ISL_2332723, EPI_ISL_2332724, EPI_ISL_2332725, EPI_ISL_2332726, EPI_ISL_2332727, EPI_ISL_2332728, EPI_ISL_2332729, EPI_ISL_2332730, EPI_ISL_2332731, EPI_ISL_2332736, EPI_ISL_2332737, EPI_ISL_2332739, EPI_ISL_2332743, EPI_ISL_2332745, EPI_ISL_2332746, EPI_ISL_2332747, EPI_ISL_2332748, EPI_ISL_2332749, EPI_ISL_2332750, EPI_ISL_2332752, EPI_ISL_2332753, EPI_ISL_2332754, EPI_ISL_2332755, EPI_ISL_2332757, EPI_ISL_2332758, EPI_ISL_2332759, EPI_ISL_2332760, EPI_ISL_2332761, EPI_ISL_2332763, EPI_ISL_2332764, EPI_ISL_2332765, EPI_ISL_2332772, EPI_ISL_2332773, EPI_ISL_2332778, EPI_ISL_2332779, EPI_ISL_2332780, EPI_ISL_2332784, EPI_ISL_2332786, EPI_ISL_2332787, EPI_ISL_2332788		
see above	National Centre For Cell Science	National Centre For Cell Science - INSACOG
EPI_ISL_2382915, EPI_ISL_2382917, EPI_ISL_2382918, EPI_ISL_2382919, EPI_ISL_2382920, EPI_ISL_2382922, EPI_ISL_2382923, EPI_ISL_2382924, EPI_ISL_2382925, EPI_ISL_2382926, EPI_ISL_2382929, EPI_ISL_2382930, EPI_ISL_2382931, EPI_ISL_2382932, EPI_ISL_2382933, EPI_ISL_2382936, EPI_ISL_2382937, EPI_ISL_2382940, EPI_ISL_2382941, EPI_ISL_2382943, EPI_ISL_2382946, EPI_ISL_2382954, EPI_ISL_2382955, EPI_ISL_2382956, EPI_ISL_2382958, EPI_ISL_2382959, EPI_ISL_2382960, EPI_ISL_2382961, EPI_ISL_2382962, EPI_ISL_2382963, EPI_ISL_2382964, EPI_ISL_2382965, EPI_ISL_2382966, EPI_ISL_2382969, EPI_ISL_2382970, EPI_ISL_2382971, EPI_ISL_2382972, EPI_ISL_2382973, EPI_ISL_2382974, EPI_ISL_2382975, EPI_ISL_2382976, EPI_ISL_2382977, EPI_ISL_2382978, EPI_ISL_2382979, EPI_ISL_2382980, EPI_ISL_2382981, EPI_ISL_2382982, EPI_ISL_2382983, EPI_ISL_2382988, EPI_ISL_2382989, EPI_ISL_2382996, EPI_ISL_2382998, EPI_ISL_2383004, EPI_ISL_2383005		
see above	National Centre For Cell Science	National Centre For Cell Science-INSACOG
EPI_ISL_2379748	National Heart Institute	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia
EPI_ISL_2349711, EPI_ISL_2349712, EPI_ISL_2349713, EPI_ISL_2349714, EPI_ISL_2349715, EPI_ISL_2349716, EPI_ISL_2349717, EPI_ISL_2349718, EPI_ISL_2349719, EPI_ISL_2349720, EPI_ISL_2349721, EPI_ISL_2349722, EPI_ISL_2349723, EPI_ISL_2349724, EPI_ISL_2349725, EPI_ISL_2349726, EPI_ISL_2349727, EPI_ISL_2349728, EPI_ISL_2349729, EPI_ISL_2349730, EPI_ISL_2349731, EPI_ISL_2349732, EPI_ISL_2349733, EPI_ISL_2349734, EPI_ISL_2349735, EPI_ISL_2349736, EPI_ISL_2349737, EPI_ISL_2349738, EPI_ISL_2349739, EPI_ISL_2349740, EPI_ISL_2349741, EPI_ISL_2349742, EPI_ISL_2349743, EPI_ISL_2349744, EPI_ISL_2349745, EPI_ISL_2349746, EPI_ISL_2349747, EPI_ISL_2349748, EPI_ISL_2349749, EPI_ISL_2349750, EPI_ISL_2349751, EPI_ISL_2349752, EPI_ISL_2349753, EPI_ISL_2349754, EPI_ISL_2349755, EPI_ISL_2349756, EPI_ISL_2349757, EPI_ISL_2349758, EPI_ISL_2349759, EPI_ISL_2349760, EPI_ISL_2349761, EPI_ISL_2349762, EPI_ISL_2349763, EPI_ISL_2349764, EPI_ISL_2349765, EPI_ISL_2349766, EPI_ISL_2349767, EPI_ISL_2349768, EPI_ISL_2349769, EPI_ISL_2349770, EPI_ISL_2349771, EPI_ISL_2349772, EPI_ISL_2349773, EPI_ISL_2349774, EPI_ISL_2349775, EPI_ISL_2349776, EPI_ISL_2349777, EPI_ISL_2349778, EPI_ISL_2349779, EPI_ISL_2349780, EPI_ISL_2349781, EPI_ISL_2349782, EPI_ISL_2349783, EPI_ISL_2349784, EPI_ISL_2349785, EPI_ISL_2349786, EPI_ISL_2349787, EPI_ISL_2349788, EPI_ISL_2349789, EPI_ISL_2349790, EPI_ISL_2349791, EPI_ISL_2349792, EPI_ISL_2349793, EPI_ISL_2349794, EPI_ISL_2349795, EPI_ISL_2349796, EPI_ISL_2349797, EPI_ISL_2349798, EPI_ISL_2349799, EPI_ISL_2349800, EPI_ISL_2349801, EPI_ISL_2349802, EPI_ISL_2349803, EPI_ISL_2349804, EPI_ISL_2349805, EPI_ISL_2349806, EPI_ISL_2349807, EPI_ISL_2349808, EPI_ISL_2349809, EPI_ISL_2349810, EPI_ISL_2349811, EPI_ISL_2349812, EPI_ISL_2349813, EPI_ISL_2349814, EPI_ISL_2349815, EPI_ISL_2349816, EPI_ISL_2349817, EPI_ISL_2349818, EPI_ISL_2349819, EPI_ISL_2349820, EPI_ISL_2349821, EPI_ISL_2349822, EPI_ISL_2349823, EPI_ISL_2349824, EPI_ISL_2349825, EPI_ISL_2349826, EPI_ISL_2349827, EPI_ISL_2349828, EPI_ISL_2349829, EPI_ISL_2349830, EPI_ISL_2349831, EPI_ISL_2349832, EPI_ISL_2349833, EPI_ISL_2349834, EPI_ISL_2349835, EPI_ISL_2349836, EPI_ISL_2349837, EPI_ISL_2349838, EPI_ISL_2349839, EPI_ISL_2349840, EPI_ISL_2349841, EPI_ISL_2349842, EPI_ISL_2349843, EPI_ISL_2349844, EPI_ISL_2349845, EPI_ISL_2349846, EPI_ISL_2349847, EPI_ISL_2349848, EPI_ISL_2349849, EPI_ISL_2349850, EPI_ISL_2349851, EPI_ISL_2349852, EPI_ISL_2349853, EPI_ISL_2349854, EPI_ISL_2349855, EPI_ISL_2349856, EPI_ISL_2349857, EPI_ISL_2349858, EPI_ISL_2349859, EPI_ISL_2349860, EPI_ISL_2349861, EPI_ISL_2349862, EPI_ISL_2349863, EPI_ISL_2349864, EPI_ISL_2349865, EPI_ISL_2349866, EPI_ISL_2349867, EPI_ISL_2349868, EPI_ISL_2349869, EPI_ISL_2349870, EPI_ISL_2349871, EPI_ISL_2349872, EPI_ISL_2349873, EPI_ISL_2349874, EPI_ISL_2349875, EPI_ISL_2349876, EPI_ISL_2349877, EPI_ISL_2349878, EPI_ISL_2349879, EPI_ISL_2349880		
see above	National Public Health Laboratory, National Centre for Infectious Diseases	National Public Health Laboratory, National Centre for Infectious Diseases
EPI_ISL_2339964, EPI_ISL_2339974, EPI_ISL_2339977, EPI_ISL_2339984, EPI_ISL_2339989, EPI_ISL_2339991		
see above	National Virus Reference Laboratory	National Virus Reference Laboratory
EPI_ISL_2402461	New South Wales Health Pathology Royal Prince Alfred Hospital	Microbiology RPAH
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EPI_ISL_2376420 EPI_ISL_2323325, EPI_ISL_2323326	Ospedale Magalini Ostfold Hospital Trust - Kaines, Centre for Laboratory Medicine, Section for gene technology and infection serology	Istituto Zooprofilattico Sperimentale delle Venezie Norwegian Institute of Public Health, Department of Virology	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Nevjen; Rasmus Riis Kopperud
EPI_ISL_2404827 EPI_ISL_2379379 EPI_ISL_2379400	PAMF PALO ALTO PANTHRPALYA PEENYA KAMALA NAGAR	Santa Clara County Public Health Laboratory INSACOG-KA, NIMHANS INSACOG-KA, NIMHANS	Santa Clara County Public Health Department Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
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EPI_ISL_2329654, EPI_ISL_2330490, EPI_ISL_2335415, EPI_ISL_2337324, EPI_ISL_2337429, EPI_ISL_2337471, EPI_ISL_2337524	see above Pathogen Genomics Center, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Kentaro Itokawa; Makoto Kuroda; Masanori Hashino; Rina Tanaka; Tsuyoshi Sekizuka
EPI_ISL_2346305, EPI_ISL_2346306, EPI_ISL_2346307, EPI_ISL_2397205, EPI_ISL_2397207	Plateforme de testing Namuroise	Plateforme de testing Namuroise	Degossier Jonathan; Denis Olivier; Lesly Nyinkeu Kemamen; Mullier François; Nicolas Gilliard; Otto Gaetan
EPI_ISL_2331830, EPI_ISL_2362614, EPI_ISL_2362624, EPI_ISL_2362625	Platform BIS UZA/UAntwerpen	Labo Klinische Biologie, UZA	Basil Britto Xavier; Christine Lammens; Herman Goossens; Jasmine Coppens; Marie Le Mercier; Veerle Matheussen
EPI_ISL_2389639, EPI_ISL_2389656	Praxisgemeinschaft für Laboratoriumsmedizin Labor Blumenstraße; Praxis Dr. E. Wietschel & Dr. F. Wietschel	Robert Koch Institute	
EPI_ISL_2391792	Providence Saint Joseph Medical Center	Los Angeles County Public Health Laboratories	P. Hemarajata et al.
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EPI_ISL_2385968, EPI_ISL_2385969, EPI_ISL_2385973	Queensland Health Forensic and Scientific Services	Queensland Health Forensic and Scientific Services	Son Nguyen
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EPI_ISL_2379347, EPI_ISL_2379377, EPI_ISL_2379389, EPI_ISL_2379430, EPI_ISL_2379431	RAILWAY H	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi
EPI_ISL_2342004, EPI_ISL_2342013, EPI_ISL_2342054, EPI_ISL_2342064, EPI_ISL_2342066, EPI_ISL_2342067, EPI_ISL_2342298, EPI_ISL_2342611, EPI_ISL_2342664	see above Rajendra Institute of Medical Sciences, Ranchi	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Walia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2317335, EPI_ISL_2317774, EPI_ISL_2317784, EPI_ISL_2317811, EPI_ISL_2317851, EPI_ISL_2317930, EPI_ISL_2317954, EPI_ISL_2317980	see above Randox Laboratories	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Ian Johnston; Jeffrey Barrett; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Randox Laboratories and Alex Alderton; Roberto Amato; Sonia Goncalves
EPI_ISL_2319973 EPI_ISL_2313341, EPI_ISL_2313343, EPI_ISL_2313345, EPI_ISL_2313346, EPI_ISL_2313347, EPI_ISL_2389371, EPI_ISL_2389377	Reditus Laboratories see above	Reditus Laboratories Robert Koch-Institut ZBS1	Alexa Eichelberger; Cassy Philips; Joshua J. Geltz; M.S.; Ph.D.; Rex Dyer; Robert M. Sgambelluri
EPI_ISL_2321160, EPI_ISL_2321164, EPI_ISL_2321165, EPI_ISL_2321166, EPI_ISL_2321168, EPI_ISL_2321169	Royal Darwin Hospital Pathology	MDU-PHL	Annika Brinkmann Caly L.; Druce J.; M.L.; Meumann, E.; N.L.; Sait; Seemann T.; Sherry
EPI_ISL_2341697, EPI_ISL_2341714, EPI_ISL_2341717, EPI_ISL_2341728, EPI_ISL_2341852, EPI_ISL_2341853, EPI_ISL_2341855, EPI_ISL_2341856, EPI_ISL_2341859, EPI_ISL_2341938	see above S.C.B. Medical College and Hospital, Cuttack	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Walia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2329929, EPI_ISL_2329930, EPI_ISL_2329931, EPI_ISL_2329932, EPI_ISL_2329933, EPI_ISL_2336637, EPI_ISL_2337043	see above SARS-CoV-2 testing team, National Institute of Infectious Diseases	Pathogen Genomics Center, National Institute of Infectious Diseases	Hazuka Y Furihata; Kentaro Itokawa; Makoto Kuroda; Masanori Hashino; Masumichi Saito; Naomi Nojiri; Nozomu Hanaoka; Rina Tanaka; Sana Uchikoba; Tsugoto Fujimoto; Tsuyoshi Sekizuka
EPI_ISL_2379414 EPI_ISL_2341727	SHANKARNAGR SLN Medical College and Hospital, Koraput	INSACOG-KA, NIMHANS Institute of Life Sciences - INSACOG	Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Gautham Arunachal Udupi; Pramada Prasad; V Ravi Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Walia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2348573, EPI_ISL_2382812, EPI_ISL_2402378, EPI_ISL_2402390, EPI_ISL_2402399, EPI_ISL_2402443	SYNLAB	GIGA Medical Genomics	Bouchra Boujemla; Cécile Meex; Keith Durkin; Maria Artesi; Marie-Pierre Hayette; Nathalie Renotte; Pierrette Melin; Raphaël Boreux; Sébastien Bontems; Vincent Bours
EPI_ISL_2389514 EPI_ISL_2387546, EPI_ISL_2387983	SYNLAB MVZ Heidelberg SYNLAB MVZ Leinfelden-Echterdingen	Robert Koch Institute Robert Koch Institute	
EPI_ISL_2386460, EPI_ISL_2386472, EPI_ISL_2386509, EPI_ISL_2387530, EPI_ISL_2387999, EPI_ISL_2389792	SYNLAB MVZ Leverkusen	Robert Koch Institute	
EPI_ISL_2386337, EPI_ISL_2386368, EPI_ISL_2387806,	SYNLAB MVZ Trier	Robert Koch Institute	

EPI_ISL_2389603			
EPI_ISL_2386317, EPI_ISL_2386345, EPI_ISL_2386346, EPI_ISL_2386361, EPI_ISL_2386403, EPI_ISL_2386424, EPI_ISL_2387466, EPI_ISL_2387472, EPI_ISL_2387857, EPI_ISL_2387863, EPI_ISL_2389708, EPI_ISL_2389712, EPI_ISL_2389719, EPI_ISL_2389726, EPI_ISL_2389768, EPI_ISL_2389829			
see above	SYNLAB MVZ Weiden	Robert Koch Institute	
EPI_ISL_2349933	Salud Digna	Instituto Nacional de Medicina Genomica	Abraham Campos-Romero; Cedro-Tanda A; Escobar-Arrazola; Gonzalez-Barrera D; Herrera-Montalvo LA.; Hidalgo-Miranda A; Luna-Ruiz Marco; M; Mendoza-Vargas A; Moreno-Camacho José Luis; Munguia-Garza P; Ramirez-Vega O; Rangel-DeLeon D; Reyes-Grajeda JP; Rodriguez-Gallegos Jorge
EPI_ISL_2341495, EPI_ISL_2341560, EPI_ISL_2341641	Santa Clara County Public Health Laboratory	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
EPI_ISL_2383315	Servicio de Microbiología, Hospital Clínico Universitario de Valencia	SeqCOVID-SPAIN consortium/IBV(CSIC)	David Navarro Ortega; Eliseo Albert Vicent; Ignacio Torres and SeqCOVID-SPAIN consortium
EPI_ISL_2360252, EPI_ISL_2360254	Shahid Ghodossi Laboratory	National Influenza Center	A Nejati; F Ajaminejad; F Ajaminejad and T Mokhtari Azad; J Yavarian; K Sadeghi; N Ghavvami; N Ghavvami and T Mokhtari Azad; NZ Shafiei Jandaghi; V Salimi
EPI_ISL_2342006, EPI_ISL_2342010, EPI_ISL_2342016, EPI_ISL_2342022, EPI_ISL_2342025, EPI_ISL_2342043, EPI_ISL_2342045, EPI_ISL_2342055, EPI_ISL_2342091, EPI_ISL_2342092, EPI_ISL_2342121, EPI_ISL_2342125, EPI_ISL_2342308, EPI_ISL_2342309, EPI_ISL_2342310, EPI_ISL_2342311, EPI_ISL_2342312, EPI_ISL_2342313, EPI_ISL_2342314, EPI_ISL_2342315, EPI_ISL_2342316, EPI_ISL_2342317, EPI_ISL_2342318, EPI_ISL_2342319, EPI_ISL_2342320, EPI_ISL_2342321, EPI_ISL_2342324, EPI_ISL_2342325, EPI_ISL_2342326, EPI_ISL_2342327			
see above	Sheikh Bhikhari Medical College, Hazaribag	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2313392	Sonic - Labor Staber Heilbronn	Robert Koch Institute	
EPI_ISL_2388326, EPI_ISL_2388343, EPI_ISL_2388386, EPI_ISL_2388428, EPI_ISL_2388504, EPI_ISL_2388581, EPI_ISL_2388583, EPI_ISL_2388592, EPI_ISL_2388659, EPI_ISL_2388709, EPI_ISL_2388738, EPI_ISL_2388740, EPI_ISL_2388803, EPI_ISL_2388867	Sonic - MVZ Medizinisches Labor Bremen GmbH	Robert Koch Institute	
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_2405109, EPI_ISL_2405110, EPI_ISL_2405113, EPI_ISL_2405114, EPI_ISL_2405116, EPI_ISL_2405117			
EPI_ISL_2362528, EPI_ISL_2362530	St James's Hospital, Dublin 8, Ireland.	ELDA biotech	Brendan Crowley; Deirdre M. Broderick; Peter R. Flanagan
EPI_ISL_2360241	Stadtspital Triemli	Institute of Medical Virology	Alexandra Trkola; Annette Audigé; Cyril Shah; Gabriela Ziltener; Guido Bloomberg; Jon Huder; Jürg Böni; Kevin Steiner; Maria Grünberg; Maryam Zaheri; Michael Huber; Riccarda Capaul; Stefan Schmutz; Verena Kufner
EPI_ISL_2377955, EPI_ISL_2377967, EPI_ISL_2378174, EPI_ISL_2378500	State Testing Facility	Altius Institute for Biomedical Research	Alex Isner; Alex Nguyen; Amanda Gale; Audra Johnson; Clem Green; Daniel Bates; Eric Thorland; Jacob Rodriguez; Jean Robinson; Jemma Nelson; Jessica Kunder; John Stamatoyannopoulos; Joshua Richards; Julia Wald; Kneshay Harper; Lauren Mitchell; Mark Frerker; Matt Hartman; Michael Buckley; Muhammad Halimun; Rebecca Bruders; Sadie Patraw; Sofia Olsson; Tobias Ragozcy
EPI_ISL_2390358	Städtisches Klinikum Dresden Institut für Klinische Chemie und Laboratoriumsmedizin	Robert Koch Institute	
EPI_ISL_2405111, EPI_ISL_2405112	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_2387517	Synlab MVZ Augsburg	Robert Koch Institute	
EPI_ISL_2363996, EPI_ISL_2363998, EPI_ISL_2364003, EPI_ISL_2364004, EPI_ISL_2364006	TYKS, Kliininen mikrobiologia	Expert Microbiology, National Institute for Health and Welfare	Carita Savolainen-Kopra; Erika Lindh; Haider al-Hello; Jani Halkilahti; Kirsi Liitsola; Niina Ikonen; Pekka Ellonen; Päivi Laurila; Sari Hannula; Soile Blomqvist; Teemu Smura
EPI_ISL_2341993, EPI_ISL_2341997, EPI_ISL_2342000, EPI_ISL_2342012, EPI_ISL_2342015, EPI_ISL_2342027, EPI_ISL_2342029, EPI_ISL_2342033, EPI_ISL_2342036, EPI_ISL_2342040, EPI_ISL_2342061, EPI_ISL_2342068, EPI_ISL_2342077, EPI_ISL_2342078, EPI_ISL_2342089, EPI_ISL_2342093, EPI_ISL_2342117, EPI_ISL_2342118, EPI_ISL_2342123, EPI_ISL_2342127, EPI_ISL_2342329, EPI_ISL_2342331, EPI_ISL_2342332, EPI_ISL_2342333, EPI_ISL_2342334, EPI_ISL_2342335, EPI_ISL_2342336, EPI_ISL_2342337, EPI_ISL_2342338, EPI_ISL_2342340, EPI_ISL_2342343, EPI_ISL_2342344, EPI_ISL_2342345, EPI_ISL_2342346, EPI_ISL_2342347, EPI_ISL_2342348, EPI_ISL_2342349, EPI_ISL_2342350, EPI_ISL_2342351, EPI_ISL_2342352, EPI_ISL_2342353			
see above	Tata Main Hospital, Jharkhand	Institute of Life Sciences - INSACOG	Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2377736	Texas Department of State Health Services (TXDSHS)	Texas Department of State Health Services (TXDSHS)	Anita Pokharel; Bonnie Oh; Chun Wang; Grace Kubin; Jenny Zhang; Karen Bobier; Lorraine Rodriguez; Maliha Rahman; Mayela Pedrueza; Myong Koag; Rachel Lee; Rashmi Tuladhar
EPI_ISL_2377818, EPI_ISL_2377852	UCK	1. Tricity SARS-CoV-2 sequencing consortium: University of Gdansk, Medical University of Gdansk, Vaxican Ltd., Invicta Ltd. 2. National Institute of Public Health - National Institute of Hygiene, Warsaw, Poland	Celina Cybulska; Karolina Gackowska; Katarzyna Groth; Katarzyna Zacharczuk; Krystyna Bienkowska Szewczyk; Lukasz Rabalski; Maciej Grzybek; Maciej Kosinski; Magdalena Nowakowska; Marcin Lubocki; Małgorzata Sadkowska-Todys; Tomasz Wolkowicz
EPI_ISL_2340230	ULS Litoral Alentejano	Instituto Nacional de Saude (INSA)	Borges et al
EPI_ISL_2376292, EPI_ISL_2376294, EPI_ISL_2376402, EPI_ISL_2376404, EPI_ISL_2376405, EPI_ISL_2376406, EPI_ISL_2376407, EPI_ISL_2376408, EPI_ISL_2376409, EPI_ISL_2376410			
see above	ULSS 2 Marca Trevigiana	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni
EPI_ISL_2376289, EPI_ISL_2376290, EPI_ISL_2376291, EPI_ISL_2376379, EPI_ISL_2376380, EPI_ISL_2392108	ULSS 3 Venezia	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni
EPI_ISL_2376285, EPI_ISL_2376288	ULSS 4 Veneto Orientale	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni
EPI_ISL_2376296, EPI_ISL_2376297	ULSS 8 Berica	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni
EPI_ISL_2399427	UT-Unified State Labs: Public Health Utah DOH	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwanj Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacey; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook; Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Inoaurnmhi
EPI_ISL_2332851, EPI_ISL_2332856, EPI_ISL_2332860, EPI_ISL_2332868, EPI_ISL_2332873, EPI_ISL_2332888, EPI_ISL_2332889, EPI_ISL_2332929, EPI_ISL_2332964, EPI_ISL_2333011, EPI_ISL_2333013, EPI_ISL_2333049, EPI_ISL_2333067, EPI_ISL_2333069, EPI_ISL_2340686			
see above	Uniklinikum Carl Gustav Carus an der TU Dresden; Institut für Virologie	UW Virology Lab	Alexander Greninger; Hong Xie; Keith R Jerome; Lasata Shrestha; Meeli-Li Huang; Michelle Lin; Nathan Breit; Noah R. Baker; Patrick Mathias; Pavitra Roychoudhury; Ricardo Perez; Robert J. Livingston; Sean Ellis; Shah Mohamed Bakhsh; Tien V. Nguyen
EPI_ISL_2355383, EPI_ISL_2355386, EPI_ISL_2355402, EPI_ISL_2355408, EPI_ISL_2355410, EPI_ISL_2355412, EPI_ISL_2355418, EPI_ISL_2355419, EPI_ISL_2355420, EPI_ISL_2355436			
see above	University College London, Great Ormond Street Hospital for Children NHS Foundation Trust, Imperial College Healthcare NHS Trust	COVID-19 Genomics UK (COG-UK) Consortium	Alison Holmes; Charlotte Williams; Helena Tutill; Jacqueline Findlay; James Price; Judith Breuer; Julianne Brown; Kathryn Harris; Leysa Forrest; Mark Kristiansen; Paola Niola; Paola Resende Silva; Patricia Dyal; Paul Randell; Rachel Williams; Samuel Weeks; Sergi Castellano; Sunando Roy; Tony Brooks; Yasmin Panchbhaya
EPI_ISL_2343033, EPI_ISL_2343068, EPI_ISL_2343125, EPI_ISL_2405251, EPI_ISL_2405325	University Hospitals of Geneva, Laboratory of Virology	HUG, Laboratory of Virology and the Health2030 Genome Center	Ana Rita Goncalves; Deborah Penet; Emmanouil Dermitzakis; Henri Pegeot; Ioannis Xenarios; Keith Harshman; Laurent Kaiser; Lorenzo Cerutti; Melyssa Elies; Samuel Cordey
EPI_ISL_2354517, EPI_ISL_2354528	University of Birmingham	COVID-19 Genomics UK (COG-UK) Consortium	Alex Richter; Andrew Bosworth; Andrew Bosworth. Queen Elizabeth Hospital: Anna Casey; Andrew D Beggs PHE Heartlands Lab: Husam Osman; Charlotte Poxon; Institute of Microbiology: Joanne Stockton; Josh Quick; Kasun Wanigasooriya; Mike Kidd; Nicholas Loman. University of Birmingham Testing Laboratory: Celina M Whalley; Oliver Pickles; Radoslaw Poplawski; Samuel Nicholls; University of Birmingham: Claire McMurray; Will Rowe
EPI_ISL_2382848, EPI_ISL_2382863, EPI_ISL_2382870	University of Liège COVID-19 testing center	GIGA Medical Genomics	Bouchra Boujemla; Cécile Meex; Fabrice Bureau; Keith Durkin; Laurent Gillet; Maria Artesi; Marie-Pierre Hayette; Nathalie Renotte; Sébastien Bontems; Vincent Bours; Wouter Coppieters
EPI_ISL_2376038	University of Michigan Clinical Microbiology Laboratory	Lauring Lab, University of Michigan, Department of Microbiology and Immunology	Gilbert
EPI_ISL_2340672, EPI_ISL_2340841	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_2360239	UniversitätsSpital Zürich 009	Institute of Medical Virology	Alexandra Trkola; Annette Audigé; Cyril Shah; Gabriela Ziltener; Guido Bloomberg; Jon Huder; Jürg Böni; Kevin Steiner; Maria Grünberg; Maryam Zaheri; Michael Huber; Riccarda Capaul; Stefan Schmutz; Verena Kufner
EPI_ISL_2390182, EPI_ISL_2390183, EPI_ISL_2390189, EPI_ISL_2390192, EPI_ISL_2390193, EPI_ISL_2390194, EPI_ISL_2390195			

see above	Universitätsklinikum Bonn - Institut für Virologie	Robert Koch Institute	
EPI_ISL_2314081, EPI_ISL_2314169	Universitätsklinikum Frankfurt - Institut für Medizinische Virologie	Robert Koch Institute	
EPI_ISL_2389440	Universitätsklinikum des Saarlandes - Institut für Virologie	Robert Koch Institute	
EPI_ISL_2404815, EPI_ISL_2404816, EPI_ISL_2404820, EPI_ISL_2404824, EPI_ISL_2404828, EPI_ISL_2404838	VMC	Santa Clara County Public Health Laboratory	Santa Clara County Public Health Department
EPI_ISL_2379667 EPI_ISL_2341666	Valais Hospital, Central Institute Veer Surendra Sai Institute of Medical Sciences and Research, Burla, Sambalpur	Valais Hospital, Central Institute Institute of Life Sciences - INSACOG	Alexis Dumoulin; Deborah Penet; Emmanouil Dermitzakis; Henri Pegeot; Ioannis Xenarios; Keith Harshman; Lorenzo Cerutti; Melyssa Elies Ajay Parida; Amol M. Kanampalliwar; Arup Ghosh; Atimukta Jha; INSACOG Consortium; Omprakash Shiriwas; Punit Prasad; Rajeeb Swain; Rupesh Dash; Safal Wallia; Sana Fatma; Shifu Aggarwal; Sunil K. Raghav
EPI_ISL_2375015, EPI_ISL_2375060, EPI_ISL_2375080, EPI_ISL_2375122, EPI_ISL_2375177, EPI_ISL_2375211, EPI_ISL_2375282			
see above	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Andrea Patrignani; Andreia Cabral de Gouvea; Catharine Aquino; Chaoran Chen; Christian Beisel; Christiane Beckmann; Christoph Noppen; Daniel Ehrsam; David Dreifuss; Doris Popovic; Elodie Burcklen; Griffin White; Ina Nissen; Isabel Stürmer; Ivan Topolsky; Jay Tracy; Katharina Jahn; Lara Fuhrmann; Laura Neff; Lennart Opitz; Maria Domenica Moccia; Maurice Redondo; Mirjam Feldkamp; Natascha Santacroce; Niko Beerenwinkel; Noemie Santamaria de Souza; Olivier Kobel; Philipp Jablonski; Ralph Schlapbach; Rebecca Denes; Sarah Nadeau; Simon Grüter; Sophie Seidel; Tanja Stadler; Timothy Sykes
EPI_ISL_2362018, EPI_ISL_2362019, EPI_ISL_2362024, EPI_ISL_2362025, EPI_ISL_2362033	Virginia Division of Consolidated Laboratory Services	Virginia Division of Consolidated Laboratory Services	Virginia DCLS
EPI_ISL_2363818, EPI_ISL_2363821	Vita Laboratoriöt Oy	Expert Microbiology, National Institute for Health and Welfare	Carita Savolainen-Kopra; Erika Lindh; Haider al-Hello; Jani Halkilahti; Kirsi Liitsola; Niina Ikonen; Pekka Ellonen; Päivi Laurila; Sari Hannula; Soile Blomqvist; Teemu Smura
EPI_ISL_2385077, EPI_ISL_2385078, EPI_ISL_2385081, EPI_ISL_2385085, EPI_ISL_2385090, EPI_ISL_2385091, EPI_ISL_2385095, EPI_ISL_2385096, EPI_ISL_2385100, EPI_ISL_2385101, EPI_ISL_2385113, EPI_ISL_2385114, EPI_ISL_2385116, EPI_ISL_2385119, EPI_ISL_2385121, EPI_ISL_2385123, EPI_ISL_2385125, EPI_ISL_2385126, EPI_ISL_2385128, EPI_ISL_2385129, EPI_ISL_2385138, EPI_ISL_2385139, EPI_ISL_2385142, EPI_ISL_2385143, EPI_ISL_2385144, EPI_ISL_2385145, EPI_ISL_2385146, EPI_ISL_2385147, EPI_ISL_2385148, EPI_ISL_2385149, EPI_ISL_2385150, EPI_ISL_2385152, EPI_ISL_2385153, EPI_ISL_2385158, EPI_ISL_2385159, EPI_ISL_2385161, EPI_ISL_2385162, EPI_ISL_2385163, EPI_ISL_2385165, EPI_ISL_2385166, EPI_ISL_2385167, EPI_ISL_2385169, EPI_ISL_2385170, EPI_ISL_2385172, EPI_ISL_2385173, EPI_ISL_2385174, EPI_ISL_2385175, EPI_ISL_2385176, EPI_ISL_2385177, EPI_ISL_2385179, EPI_ISL_2385181, EPI_ISL_2385184, EPI_ISL_2385185, EPI_ISL_2385187, EPI_ISL_2385188, EPI_ISL_2385189, EPI_ISL_2385190, EPI_ISL_2385193, EPI_ISL_2385194, EPI_ISL_2385195, EPI_ISL_2385204, EPI_ISL_2385206, EPI_ISL_2385207, EPI_ISL_2385208, EPI_ISL_2385211, EPI_ISL_2385311, EPI_ISL_2385319, EPI_ISL_2385323, EPI_ISL_2385324, EPI_ISL_2385333, EPI_ISL_2385428			
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EPI_ISL_2377203, EPI_ISL_2377204, EPI_ISL_2377205, EPI_ISL_2377206, EPI_ISL_2377207, EPI_ISL_2377208	WSSE Katowice	1. National Institute of Public Health - National Institute of Hygiene; 2. Eurofins Genomics Europe Sequencing GmbH	ECDC COVID-19 WGS support team; Eurofins Genomics Europe Sequencing Team; Gierczyński Rafał; Sadowska-Todys Małgorzata; Wolkowicz Tomasz; Zacharczuk Katarzyna
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EPI_ISL_2336215, EPI_ISL_2378856, EPI_ISL_2378863	Washington State Department of Health Public Health Laboratories	Washington State Department of Health Public Health Laboratories	Avi Singh; Darren Lucas; Denny Russell; Drew MacKellar; Geoff Melly; Hannah Gray; Joenice Gonzalez; JohnAric Peterson; Philip Dykema; Rebecca Cao; Vanessa De Los Santos
EPI_ISL_2402819	Weill Cornell Medicine	New York Genome Center	Andre Corvelo; Arryn Craney; Chris Mason; Dayna M. Oschwald; Hanna Rennett; Lars F Westblade; Margaret Elizabeth Ross; Melissa Cushing; Michael Zody; Olivier Elemento; Priya Velu; Samantha Fennessey; Tom Maniatis
EPI_ISL_2400233, EPI_ISL_2400235, EPI_ISL_2400239, EPI_ISL_2400240	Wichita State University - Molecular Diagnostics Lab	Kansas Health and Environmental Lab	Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam
EPI_ISL_2383022, EPI_ISL_2383027, EPI_ISL_2383029, EPI_ISL_2383030	Wichita State University- Molecular Diagonstic lab	Kansas Health and Environmental Lab	Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam
EPI_ISL_2350905, EPI_ISL_2350908, EPI_ISL_2350914	Wojewodzka Stacja Sanitarno-Epidemiologiczna w Olsztynie, Laboratorium Badan Epidemiologiczno- Klinicznych	Wojewodzka Stacja Sanitarno-Epidemiologiczna w Olsztynie, Laboratorium Badan Epidemiologiczno- Klinicznych	Aleksandra Kobiatko; Barbara Dolinska; Emilia Tarabasz; Ewa Liszewska; Marta Lukian; Monika Czerminska; Patryk Bielecki; Paulina Rozycka; Sylwia Krzetowska; Tomasz Jakubczak
EPI_ISL_2383132, EPI_ISL_2383133, EPI_ISL_2383134, EPI_ISL_2383136, EPI_ISL_2383148, EPI_ISL_2383151, EPI_ISL_2383152			
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EPI_ISL_2380647, EPI_ISL_2380766, EPI_ISL_2380767, EPI_ISL_2381523, EPI_ISL_2381664, EPI_ISL_2381735, EPI_ISL_2381736			
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