

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](http://www.gisaid.org)

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EPI_ISL_644221, EPI_ISL_644238, EPI_ISL_644270, EPI_ISL_644274, EPI_ISL_644290, EPI_ISL_644295, EPI_ISL_644335			
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EPI_ISL_644676, EPI_ISL_645176, EPI_ISL_645177, EPI_ISL_645178, EPI_ISL_663206, EPI_ISL_663218, EPI_ISL_663220			
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EPI_ISL_641524	CHU de Nice - Hôpital Archet 5	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal; Bruno Lina; Gregory Destras; Gwendolyne Burfin; Géraldine Gonfrier; Hadrien Règue; Laurence Josset; Martine Valette; Quentin Semanas; Valérie Giordanengo
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EPI_ISL_641519, EPI_ISL_641535, EPI_ISL_641539, EPI_ISL_641542, EPI_ISL_645187, EPI_ISL_649944, EPI_ISL_660327, EPI_ISL_660336, EPI_ISL_660340, EPI_ISL_660347, EPI_ISL_660348			
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EPI_ISL_639990, EPI_ISL_639998, EPI_ISL_640002, EPI_ISL_640009	CNR Virus des Infections Respiratoires - France SUD	CNR Virus des Infections Respiratoires - France SUD	Alexandre Gaymand; Antonin Bal; Bruno Lina; Florence Morfin-Sherpa; Gregory Destras; Gwendolyne Burfin; Hadrien Règue; Laurence Josset; Martine Valette; Maude Bouscambert-Duchamp
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EPI_ISL_633030, EPI_ISL_671737	DOHMH Morrisania	New York City Public Health Laboratory	Jade Wang; et al.
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EPI_ISL_636609, EPI_ISL_636638, EPI_ISL_636673, EPI_ISL_636681, EPI_ISL_636684, EPI_ISL_641603, EPI_ISL_644614, EPI_ISL_661206, EPI_ISL_661210, EPI_ISL_661223, EPI_ISL_661233, EPI_ISL_666880, EPI_ISL_678408			
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EPI_ISL_660824, EPI_ISL_660942, EPI_ISL_661021, EPI_ISL_661076, EPI_ISL_661080, EPI_ISL_661095, EPI_ISL_661097, EPI_ISL_661126, EPI_ISL_661146			
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EPI_ISL_653745, EPI_ISL_653747, EPI_ISL_653754, EPI_ISL_653755, EPI_ISL_653756, EPI_ISL_653758, EPI_ISL_653759, EPI_ISL_653761			
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EPI_ISL_632029, EPI_ISL_632953	Jamaica Hospital Medical Center	New York City Public Health Laboratory	Jade Wang; et al.
EPI_ISL_661276, EPI_ISL_661277, EPI_ISL_661303, EPI_ISL_676503	Klinisk mikrobiologi	The Public Health Agency of Sweden	Department of Microbiology; The Public Health Agency of Sweden
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EPI_ISL_634876, EPI_ISL_634890	Lab voor klinische biologie	Onderzoeksgroep Virologie	Bruno Verhasselt; Hans Nauwynck; Laurens Lambrechts; Linos Vandekerckhove; Marthe Pauwels; Nick Vereecke; Sebastiaan Theuns
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EPI_ISL_666655, EPI_ISL_666680	Laboratoire du Centre Hospitalier Annecy Genevois	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal; Bruno Chanzy; Bruno Lina; Gregory Destras; Gwendolyne Burfin; Hadrien Règue; Héléne Petitprez; Laurence Josset; Martine Valette; Quentin Semanas
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EPI_ISL_646155, EPI_ISL_647733, EPI_ISL_649233, EPI_ISL_675242, EPI_ISL_675466	Lighthouse Lab in Alderley Park	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Cordelia Langford; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Ian Johnston; Jacquelyn Wynn; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Mairead Hyland; Roberto Amato; Sonia Goncalves; The Lighthouse Lab in Alderley Park and Alex Alderton
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EPI_ISL_640220, EPI_ISL_640224, EPI_ISL_640239, EPI_ISL_640244, EPI_ISL_640257	MVZ Laborärzte Singen	MVZ Laborärzte Singen	Folker Wenzel; Fritjhof Blessing; Jonas Schmidt; Sandro Berghaus
EPI_ISL_672404 EPI_ISL_666780 EPI_ISL_653857	Madera County Department of Public Health Maryland Public Health Laboratory Maulana Azad Medical College	Chan-Zuckerberg Biohub Maryland Public Health Laboratory National Institute of Biomedical Genomics	CZB Cliahub Consortium Maryland Department of Health Laboratories Administration Arindam Maitra; Oves Siddiqui; Saumitra Das; Sonal Saxena; Vikas Manchanda
EPI_ISL_644347, EPI_ISL_644374, EPI_ISL_666904 EPI_ISL_678281	Michigan Department of Health and Human Services, Bureau of Laboratories  Mikrobiologie, RARI	Michigan Department of Health and Human Services, Bureau of Laboratories  Mikrobiologie, RARI	Blankenship HM; Riner D; Soehnen MK  A.V.; Badanin; D.V.; E.A.; Fedorov; Guseva; Krasnov; Kutyrev; N.A.; N.P.; Naryshkina; Portenko; S.A.; Sharapova; Shcherbakova; Sosodova; V.V.; Y.M.
EPI_ISL_654710, EPI_ISL_654726	Minnesota Department of Health, Public Health Laboratory	Minnesota Department of Health, Public Health Laboratory	Alexandra Lorentz; Jacob Garfin; Matt Plumb; and Xiong Wang
EPI_ISL_653923, EPI_ISL_653928	Molecular diagnostic laboratory of Federal Budget Institution of Science "Central Research Institute of Epidemiology" of The Federal Service on Customers' Rights Protection and Human Well-being Surveillance	Group of Genomics and Postgenomic Technologies of Central Research Institute of Epidemiology	Akimkin VG; Dudorova A.V.; Kaptelova VV; Samoilov AE; Shipulina OY; Speranskaya AS; Tivanova EV
EPI_ISL_631880 EPI_ISL_660169, EPI_ISL_660182	Mount Sinai West NHL5-IALCH	New York City Public Health Laboratory KRISP, KZN Research Innovation and Sequencing Platform	Jade Wang; et al. Cele S; Gazy I; Giandhari J; Karim F; Pillay S; Sigal A; Tegally H; Wilkinson E; de Oliveira T
EPI_ISL_632313 EPI_ISL_636743, EPI_ISL_636779, EPI_ISL_636792, EPI_ISL_636825	NU-sjukvården National Centre for Disease control (NCDC)	Clinical Microbiology, Sahlgrenska University Hospital, NCDC/CSIR-IGIB	Hedvig Engström Jakobsson; Johan Ringlander; Josefien Olausson; Magnus Lindh Ajit Shewale; Anurag Agrawal#; Aparna Swaminathan; Asangla Kamai; Bharathram Uppliz2*; Ishaq Ahmed; Mahesh S. Dhar1*; Manish Kumar; Mohammed Faruq#; Nishu Tyagi; Partha Rakshit#; Pooja Sharma2*; Radhakrishnan VS; Robin Marwal1*; Sandhya Kabra; Saruchi Wadhwa; Shaista Khan; Simmi Tiwari; Sujeet Singh; Tushar Nale; Vivekanand A
EPI_ISL_671342, EPI_ISL_671363 EPI_ISL_631542 EPI_ISL_631544 EPI_ISL_631860	National Virus Reference Laboratory  New York Presbyterian Lower Manhattan New York Presbyterian-Brooklyn Methodist Hospital New York Presbyterian/ Weill Cornell Medical Center	Irish Coronavirus Sequencing Consortium - Teagasc Moorepark  New York City Public Health Laboratory New York City Public Health Laboratory New York City Public Health Laboratory	Calm Walsh; Calum Walsh; Fiona Crispie; Genuity Ireland; John Kenny; Paul Cotter  Jade Wang; et al. Jade Wang; et al. Jade Wang; et al.
EPI_ISL_631758, EPI_ISL_632945 EPI_ISL_667418, EPI_ISL_667518, EPI_ISL_667552	OCME Office Of Chief Medical Examiner  OHSU Lab Services Molecular Microbiology Lab	New York City Public Health Laboratory  Oregon SARS-CoV-2 Genome Sequencing Center	Jade Wang; et al.  Alec J. Hirsch; Andrew C. Adey; Benjamin N. Bimber; Brendan L. O'Connell; Brian J. O'Roak; Daniel N. Streblow; Donna Hansel; Guang Fan; Ruth V. Nichols; Sally Grindstaff; William B. Messer
EPI_ISL_639913, EPI_ISL_639915, EPI_ISL_639916, EPI_ISL_639918, EPI_ISL_639934, EPI_ISL_639941, EPI_ISL_639943, EPI_ISL_639944, EPI_ISL_639947	see above Omsk Research Institute of Natural Focal Infections	WHO National Influenza Centre Russian Federation	
EPI_ISL_648518, EPI_ISL_672485 EPI_ISL_638846, EPI_ISL_652838	Orange County Public Health Lab  Oxford Viromics, NDM, University of Oxford; Oxford University Hospitals; Basingstoke and North Hampshire Hospital	Chan-Zuckerberg Biohub  COVID-19 Genomics UK (COG-UK) Consortium	Aleksei Vasilenko; Andrey Komissarov; Artem Fadeev; Daria Nashatyreva; Ekaterina Gradoboeva; Ekaterina Savkina; Elena Poleshchuk; Valery Yakimenko CZB Cliahub Consortium
EPI_ISL_636972	Pathogen Genomics Lab King Abdullah University of Science and Technology (KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology (KAUST)	Alex Mobbs; Amy Trebes; Anita Justice; Catrin Moore; Christophe Fraser; David Bonsall; David Buck; Emma Wise; George Macintyre; Jessica Lynch; John Todd; Mariateresa de Cesare; Matilde Mori; Monique Andersson; Nathan Moore; Nick Cortes; Robert Shaw; Stephen Kidd; Tanya Golubchik; Timothy Peto Afrah Alsomali; Amanda Ooi; Amit Kumar Subudhi; Anwar Hashem; Arnab Pain; Asim Khogeer; Fadwa Alofi; Fathia Ben Rached; Kahled Alghithami; Luke Esau; Naif Almontashiri; Raecee Naem; Rahul P Salunke; Sara Mfarrej; Sharif Hala
EPI_ISL_636964, EPI_ISL_677908, EPI_ISL_677910, EPI_ISL_677913, EPI_ISL_677914, EPI_ISL_677916, EPI_ISL_677917, EPI_ISL_677921, EPI_ISL_677923, EPI_ISL_677924, EPI_ISL_677925, EPI_ISL_677926, EPI_ISL_677927, EPI_ISL_677929, EPI_ISL_677930, EPI_ISL_677933, EPI_ISL_677936, EPI_ISL_677941, EPI_ISL_677950, EPI_ISL_677956, EPI_ISL_677961, EPI_ISL_677965, EPI_ISL_677969, EPI_ISL_677972, EPI_ISL_677979, EPI_ISL_677984, EPI_ISL_677985, EPI_ISL_677990, EPI_ISL_677996, EPI_ISL_677997, EPI_ISL_678000, EPI_ISL_678002, EPI_ISL_678010, EPI_ISL_678011, EPI_ISL_678012, EPI_ISL_678014, EPI_ISL_678015, EPI_ISL_678018, EPI_ISL_678019, EPI_ISL_678023, EPI_ISL_678034, EPI_ISL_678036, EPI_ISL_678057, EPI_ISL_678062, EPI_ISL_678078, EPI_ISL_678084, EPI_ISL_678089, EPI_ISL_678096, EPI_ISL_678112, EPI_ISL_678125, EPI_ISL_678127, EPI_ISL_678148, EPI_ISL_678157, EPI_ISL_678159, EPI_ISL_678162, EPI_ISL_678164, EPI_ISL_678165, EPI_ISL_678166, EPI_ISL_678170, EPI_ISL_678171, EPI_ISL_678174, EPI_ISL_678178, EPI_ISL_678180, EPI_ISL_678181, EPI_ISL_678182, EPI_ISL_678184, EPI_ISL_678188, EPI_ISL_678189, EPI_ISL_678192, EPI_ISL_678193, EPI_ISL_678194, EPI_ISL_678195, EPI_ISL_678197, EPI_ISL_678198, EPI_ISL_678200, EPI_ISL_678201, EPI_ISL_678202, EPI_ISL_678204, EPI_ISL_678206, EPI_ISL_678209, EPI_ISL_678211, EPI_ISL_678212, EPI_ISL_678213, EPI_ISL_678214, EPI_ISL_678215, EPI_ISL_678216, EPI_ISL_678220, EPI_ISL_678221, EPI_ISL_678222, EPI_ISL_678223, EPI_ISL_678224, EPI_ISL_678225, EPI_ISL_678226, EPI_ISL_678236, EPI_ISL_678237, EPI_ISL_678238, EPI_ISL_678243, EPI_ISL_678244, EPI_ISL_678245	see above Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Pathogen Genomics Lab King Abdullah University of Science and Technology(KAUST)	Abbas Al Mutair; Abdulaziz Alahmadi; Afrah Alsomali; Ahmad Bakur Mahmoud; Amanda Ooi; Amit Kumar Subudhi; Anwar Hashem; Arnab Pain; Asim Khogeer; Awad A-Omari; Awad Al-Omari; Fadwa Alofi; Fathia Ben Rached; Jumana Taha; Kahled Alghithami; Luke Esau; Muhammad Shuaib; Naif Almontashiri; Olga Douvropoulou; Raecee Naem; Rahul P Salunke; Raushan Nugmanova; Samer Salih; Sara Mfarrej; Sharif Hala Alexander J Trotter; Alison E. Mather; Alp Aydin; Ana P. Tedim; Anastasia Kolyva; Andrew Bell; Andrew J. Page; Claire Stuart; Dave J. Baker; Gemma L. Kay; John Wain; Justin O'Grady; Leonardo de Oliveira Martins; Lizzie Meadows; Maria Diaz; Mark Webber; Muhammed Yasir; Nabil-Fareed Alikhan; Ngozi Elumogo; Nicholas M. Thomson; Rachael Stanley; Rachel Gilroy; Reenesh Prakash; Samir Dervisevic; Samuel Bloomfield; Steven Rudder; Thanh Le-Viet
EPI_ISL_664907	Quadram Institute Bioscience	COVID-19 Genomics UK (COG-UK) Consortium	Christopher Moore; Fel Sang; Gemma Clark; Hannah Howson-Wells; Johnny Debebe; Jonathan Bal; Joseph Chappell; Manjinder Khakh; Matthew Carlisle; Matthew Loose; Michelle M Lister; Nadine Holmes; Patrick McClure; Theocharis Toleridis; Vicki M Fleming; Victoria Wright; Wendy Smith
EPI_ISL_637558	Queens Medical Centre, Clinical Microbiology Department / DeepSeq Nottingham	COVID-19 Genomics UK (COG-UK) Consortium	Afiayahati; Audric Kenny Tedja; Dwi AA Nugrahaningsih; Edwin W. Daniwiaya; Eggi Arguni; Eko Darmawan; Endah Supriyati; Gunadi; Havid Setyawan; Hendra Wibawa; Indaryati; Irene; Kristy Iskandar; Ludhang P. Rizki; Marcellus; Maria Patricia Inggriani; Mohamad S. Hakim; Nungki Anggorowati; Siwanto; Titik Nuryastuti; Tri Wibawa
EPI_ISL_632937	RSUD Saptosari Gunung Kidul	Genetics Working Group (Pokja Genetik) Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada (FK-KMK UGM); Disease Investigation Center Wates Ministry of Agriculture Indonesia; Department of Microbiology FK-KMK UGM; Laboratorium Diagnostik Yayasan Tahija World Mosquito Program (WMP) Yogyakarta Center for Tropical Medicine FK-KMK UGM; Integrated Research Center FK-KMK UGM; Department of Computer Science and Electronics FMIPA UGM; Balai Besar Teknik Kesehatan Lingkungan dan Pengendalian Penyakit (BBTKLPP) Yogyakarta	
EPI_ISL_632233 EPI_ISL_640035	Richmond University Medical Center Riversdale Clinic wc RAV	New York City Public Health Laboratory NHL5/UCT	Jade Wang; et al. Arash Iranzadeh; Bruna Galvao; Carolyn Williamson; Deelan Doolabh; Diana Hardie; Innocent Mudau; Kruger Marais; Lynn Tyers; Marvin Hsiao; Stephen Korsman
EPI_ISL_635369, EPI_ISL_635645, EPI_ISL_635677, EPI_ISL_635708, EPI_ISL_635754, EPI_ISL_635763, EPI_ISL_635838, EPI_ISL_635914, EPI_ISL_636040, EPI_ISL_636096, EPI_ISL_636161, EPI_ISL_636223, EPI_ISL_648828, EPI_ISL_648886, EPI_ISL_648899, EPI_ISL_648941, EPI_ISL_666973, EPI_ISL_666985, EPI_ISL_667051	see above San Diego County Public Health Laboratory	Andersen lab at Scripps Research	Brett Austin; Jovan Shephard; SEARCH Alliance San Diego with Tracy Basler
EPI_ISL_648471, EPI_ISL_648480, EPI_ISL_648485, EPI_ISL_672106, EPI_ISL_672108, EPI_ISL_672279, EPI_ISL_672434	see above Santa Clara County Public Health Laboratory	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
EPI_ISL_661182, EPI_ISL_661198 EPI_ISL_654409	Scientific Veterinary Institute Novi Sad  Servicio de Microbiología, Hospital Miguel Servet, Zaragoza	Veterinary Specialized Institute "Kraljevo", Serbia  SeqCOVID-SPAIN consortium/IBV(CSIC)	Afonso, C.; Banovic Djeri, B.; Jankovic, M.; Jovanovic, T.; Knezevic, A.; Petrovic, T.; Sekler, M.; Tesovic, B.; Vidanovic, D.; Volkening, J. Alexander Tristancho Baró; Ana Milagro; Antonio Rezusta López; Nieves Martínez Cameo and SeqCOVID-SPAIN consortium; Yolanda Gracia Grataloup
EPI_ISL_654632, EPI_ISL_654639	Servicio de Microbiología, Hospital Universitario Central de Asturias	SeqCOVID-SPAIN consortium/IBV(CSIC)	Cristián Castelló Abietar; Jose A. Boga; Marta Elena Álvarez-Argüelles; Santiago Melón and SeqCOVID-SPAIN consortium; Susana Rojo-Alba
EPI_ISL_654532, EPI_ISL_660296, EPI_ISL_660306, EPI_ISL_671852, EPI_ISL_671858, EPI_ISL_671859	Servicio de Microbiología, Laboratori Clínic Metropolitana Nord. Hospital Universitari Germans Trias i Pujol. Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol (IGTP)	SeqCOVID-SPAIN consortium/IBV(CSIC)	Adrián Antuori; Anabel Fernández; Anna Not; Antoni E. Bordoy; Cristina Casañ and SeqCOVID-SPAIN consortium; Elisa Marró; Nona Romani; Nona Romani and SeqCOVID-SPAIN consortium; Verónica Saludes
EPI_ISL_654540	Servicio de Microbiología. Hospital Universitario Donostia. OSI Donostialdea. Área de Enfermedades Infecciosas, Grupo de Infección Respiratoria y Resistencia Antimicrobiana. Instituto de Investigación Sanitaria Biodonostia	SeqCOVID-SPAIN consortium/IBV(CSIC)	Ane Sorrarain; Gustavo Cilla Eguiluz; Jose Maria Marimón and SeqCOVID-SPAIN consortium; Luis Piñeiro Vázquez; Milagrosa Montes Ros
EPI_ISL_636115, EPI_ISL_636116 EPI_ISL_634934, EPI_ISL_644173,	Sharp HealthCare Laboratory  Texas Department of State Health Services	Andersen lab at Scripps Research  Texas Department of State Health Services	Cathy Woerie; Jacquelyn Berumen; Liam McGinnis; SEARCH Alliance San Diego with Aaron Harding Anita Pokharel; Bonnie Oh; Chung Wang; Grace Kubin; James Daniel Bonser; Jenny Zhang; Maliha Rahman; Mayela Pedrueza; Myong Koag; Rachel Lee; Rashmi Tuladhar

EPI_ISL_644190, EPI_ISL_648222, EPI_ISL_654774 EPI_ISL_672126 EPI_ISL_636469	The Ashley Laboratory, Stanford University ULSS6 Distretto Padova Terme Colli	Chan-Zuckerberg Biohub Istituto Zooprofilattico Sperimentale delle Venezie	CZB Cliahub Consortium Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Bianca Zecchin; Calogero Terregino; Erika Giorgia Quaranta; Isabella Monne
EPI_ISL_636466	ULSS6 Euganea	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Bianca Zecchin; Calogero Terregino; Erika Giorgia Quaranta; Isabella Monne
EPI_ISL_636473	ULSS6 Piove di Sacco	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Bianca Zecchin; Calogero Terregino; Erika Giorgia Quaranta; Isabella Monne
EPI_ISL_636488	ULSS9 Scaligera	Istituto Zooprofilattico Sperimentale delle Venezie	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Bianca Zecchin; Calogero Terregino; Erika Giorgia Quaranta; Isabella Monne
EPI_ISL_644711, EPI_ISL_645212 EPI_ISL_664352, EPI_ISL_664353 EPI_ISL_664128 EPI_ISL_640173, EPI_ISL_649979, EPI_ISL_650018, EPI_ISL_650094	Unité des Virus Émergents University College London Hospital University of Exeter University of Michigan Clinical Microbiology Laboratory	CNR Virus des Infections Respiratoires - France SUD COVID-19 Genomics UK (COG-UK) Consortium COVID-19 Genomics UK (COG-UK) Consortium Lauring Lab, University of Michigan, Department of Microbiology and Immunology	Antoine Nougairède; Antonin Bal; Bruno Lina; Gregory Destras; Gwendolynne Burfin; Hadrien Règue; Laetitia Ninove; Laurence Josset; Léa Luciani; Martine Valette; Quentin Semanas Catherine Houlihan; Dan Frampton; Judith Heaney; Matthew Byott; Moira Spyer and Eleni Nastouli; Stuart Kirk Aaron Jeffries; Audrey Farbos; Ben Temperton; Jane Masoli; Joanna Warwick-Dugdale; Michelle Michelsen; Robyn Manley; Stephen Michell Valesano
EPI_ISL_632891, EPI_ISL_677321, EPI_ISL_677427, EPI_ISL_677485, EPI_ISL_677492, EPI_ISL_677513, EPI_ISL_677579, EPI_ISL_677589 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_640114	Valkenberg Hospital wc VBH	NHLS/UCT	Arash Iranzadeh; Bruna Galvao; Carolyn Williamson; Deelan Doolabh; Diana Hardie; Innocent Mudau; Kruger Marais; Lynn Tyers; Marvin Hsiao; Stephen Korsman
EPI_ISL_677681 EPI_ISL_640108	Vanda Pharmaceuticals Clinical Site Victoria Hospital wc VHW	Vanda Pharmaceuticals NHLS/UCT	Vanda Pharmaceuticals Arash Iranzadeh; Bruna Galvao; Carolyn Williamson; Deelan Doolabh; Diana Hardie; Innocent Mudau; Kruger Marais; Lynn Tyers; Marvin Hsiao; Stephen Korsman
EPI_ISL_644853, EPI_ISL_644916, EPI_ISL_644920 EPI_ISL_677198, EPI_ISL_677200, EPI_ISL_677218 EPI_ISL_650797	Virginia DCLS Virginia Division of Consolidated Laboratory Services Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh / Institute of Genetics and Molecular Medicine, University of Edinburgh	Virginia DCLS Virginia Division of Consolidated Laboratory Services COVID-19 Genomics UK (COG-UK) Consortium	Virginia DCLS Balcaza C; Colquhoun R; Dewar R; Gallagher M; Hill V; Jackson B; McCrone JT; McHugh M; O'Toole Á; Rambaut A; Rooke S; Scher E; Templeton K; Williams TC; Yu X
EPI_ISL_639008	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	Adri Angyal; Alex Keeley; Benjamin Lindsey; Cariad Evans; Danielle Groves; Dave Partridge; Katie Johnson; Laura Carrilero; Luke Green; Matthew Parker; Matthew Wyles; Mehmet Yavuz; Mohammad Raza; Nikki Smith; Paul Parsons; Rachel Tucker; Rebecca Brown; Thushan de Silva
EPI_ISL_676655, EPI_ISL_676727, EPI_ISL_676752, EPI_ISL_676781, EPI_ISL_676794, EPI_ISL_677099 EPI_ISL_638699	Wadsworth Center, New York State Department of Health Wales Specialist Virology Centre Sequencing lab: Pathogen Genomics Unit	Wadsworth Center, New York State Department of Health COVID-19 Genomics UK (COG-UK) Consortium	Alexis Russel; Daryl M. Lamson; Erasmus Schneider; Erica Lasek-Nesselquist; John Kelly; Jonathan Plitnick; Kirsten St. George; Navjot Singh; Sara Griesemer Alec Birchley; Alexander Adams; Amy Gaskin; Angela Marchbank; Bree Gatica-Wilcox; Catherine Moore; Jason Coombes; Joanne Watkins; Joel Southgate; Johnathan Evans; Laura Gifford; Lauren Gilbert; Lee Graham; Malorie Perry; Matthew Bull; Nicole Pacchiarini; Sally Corden; Sara Kumziene-Summerhayes; Sara Rey; Sarah Taylor; Simon Cottrell; Sophie Jones; Tom Connor
EPI_ISL_651841	West of Scotland Specialist Virology Centre, NHSGGC / MRC- University of Glasgow Centre for Virus Research	COVID-19 Genomics UK (COG-UK) Consortium	Alasdair MacLean; Alice Broos; Ana da Silva Filipe; Antonia Ho; Daniel Mair; David L Robertson; Emma Thomson; Guy Mollett; James Shepherd; Jenna Nichols; Joseph Hughes; Kathy Li; Kathy Smollett; Kyriaki Nomikou; Lily Tong; Matthew Holden; Natasha Johnson; Rachel Blacow; Richard Orton; Rory Gunson; Sarah McDonald; Sharif Shaaban; Sreenu Vattipally; Stephen Carmichael
EPI_ISL_631405	Wisconsin State Laboratory of Hygiene Communicable Disease Division	Wisconsin State Laboratory of Hygiene Communicable Disease Division	Abigail C. Shockey; Kelsey R. Florek