

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)

Authors are sorted alphabetically.

Accession ID	Originating Laboratory	Submitting Laboratory	Authors
EPI_ISL_1166064	24023 PLATEFORME MGI COVID	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal; Bruno Lina; Bruno Simon; Gregory Destras; Gwendolyne Burfin; Hadrien Regue; Laurence Josset; Martine Valette; Quentin Semanas
EPI_ISL_1166382, EPI_ISL_1169090, EPI_ISL_1169467	ASL Napoli 1 Centro	AMES Centro Polidagnostico Strumentale S.r.l.	"Giovanni Savarese; Antonella Di Carlo; Antonio Fico"; Eloisa Evangelista; Luigi D'Amore; Luisa Circelli; Maurizio D'Amora; Monica Ianniello; Nadia Petrillo; Raffaella Ruggiero; Roberto Sirica
EPI_ISL_1168298, EPI_ISL_1168309, EPI_ISL_1168329	Academic Center for Pathomorphological and Genetic-Molecular Diagnostics Ltd, Bialystok, Poland	Academic Center for Pathomorphological and Genetic-Molecular Diagnostics Ltd, Bialystok, Poland	Jacek Nikliński; Joanna Reszeć; Przemyslaw Biecek; Radoslaw Charkiewicz
EPI_ISL_412386	Beijing Ditan Hospital, Capital Medical University	National Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention	Biao Kan; Chuansheng Li; Fangfang Jin; Haijian Zhou; Haofeng Xiong; Hebing Guo; Huizhu Wang; Jianbo Tan; Jie Gong; Jingjing Hao; Jingyuan Liu; Lili Gao; Lin Pu; Ming Zhang; Pan Xiang; Ruihong Li; Xiaoping Chen; Xin Lu; Xinmin Xu; Yajie Wang; Yanwen Xiong; Yao Sun; Yufeng Liu
EPI_ISL_424358	Beijing Institute of Microbiology and Epidemiology	Beijing Institute of Microbiology and Epidemiology	B. and Cui, Y.; Fan, H.; Guo, Y.; Hou, J.; Li, M.; Li, Z.; Mu, J.; Qin, E.; Song, Y.; Teng, Y.; Wu, Y.; Xu, Z.; Yang, R.; Yong, Y.; Zhang, X.
EPI_ISL_424981	Bureau of Laboratories, Michigan Department of Health and Human Services	Michigan Department of Health and Human Services	Blankenship HM; Riner D; Soehnlen MK
EPI_ISL_420041	CH Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Raulin Olivia; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf
EPI_ISL_420044	CH Jean de Navarre Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf
EPI_ISL_416503	CHRU Pontchaillou - Laboratoire de Virologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Gisèle Lagathu; Marion Barbet; Maud Vanpeene; Méline Bizard; Méline Albert; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf
EPI_ISL_416751, EPI_ISL_416752	CHU Gabriel Montpied	CNR Virus des Infections Respiratoires - France SUD	Alexandre; Antonin; Bal; Bouscambert-Duchamp; Brengel-Pesce; Bruno.; Cheynet; Destras; Florence; Gaymard; Gregory; Josset; Karen; Laurence; Lina; Martine; Maude; Morfin-Sherpa; Valette; Valérie
EPI_ISL_418248, EPI_ISL_418249	COMPLEJO ASISTENCIAL UNIVERSITARIO DE BURGOS	Instituto de Salud Carlos III	A. Monzón; F. Casas; I. Jiménez; I. Megias-Lobon G.; Iglesias-Caballero; M. Camarero; M. Cuesta; M. González-Esguevillas; M. Molinero Calamita; M. Zaballos; P. Jiménez; S. Juliá; S. Pozo; S. Varona
EPI_ISL_412981	CR&WISCO GENERAL HOSPITAL	Hubei Provincial Center for Disease Control and Prevention	Bin Fang; Bo Yang; Bo Yu; Faxian Zhan; Guojun Ye; Jing Li; Junqiang Xu; Kun Cai; Linlin Liu; Xiang Li; Xiao Yu; Xixiang Huo; Yongzhong Jiang.
EPI_ISL_428364, EPI_ISL_428367	Cabinet Médical	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf
EPI_ISL_419673	Center for Virology, Medical University of Vienna	Bergthaler laboratory, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences	Alexander Lercher; Alexandra Popa; Andreas Bergthaler; Benedikt Agerer; Christoph Bock; Elisabeth Puchhammer-Stöckl; Henrique Colaco; Jakob-Wendelin Genger; Judith Aberle; Lukas Endler; Mark Smyth; Michael Schuster; Stephan Aberle; Thomas Penz
EPI_ISL_414505, EPI_ISL_414509, EPI_ISL_419542, EPI_ISL_425131, EPI_ISL_425133, EPI_ISL_425139	Center of Medical Microbiology, Virology, and Hospital Hygiene, University of Duesseldorf	Center of Medical Microbiology, Virology, and Hospital Hygiene, University of Duesseldorf	Alexander Dilthey; Andreas Walker; Bjorn-Erik Jensen; Björn-Erik Jensen; Daniel Strelow; Detlef Kindgen-Milles; Jorg Timm; Jörg Timm; Klaus Pfeffer; Malte Kohns Vasconcelos; Marcel Andree; Ortwin Adams; Sandra Hauka; Tina Senff; Tobias Wieneemann; Torsten Feldt; Torsten Houwaart
EPI_ISL_1168672	Centers for Disease Control and Prevention, Dengue Branch	Centers for Disease Control and Prevention, Dengue Branch	Betzabel Flores; Gabriela Paz-Bailey; Gilberto A. Santiago; Glenda Gonzalez; Jorge L. Munoz-Jordan; Keyla Charriez
EPI_ISL_414630, EPI_ISL_416495, EPI_ISL_418225, EPI_ISL_418228, EPI_ISL_418239	Centre Hospitalier Compiègne Laboratoire de Biologie	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Etienne Simon-Lorière; Fabiana Gambaro; Flora Donati; Flora Donati Vincent Enouf; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Méline Albert; Raulin Olivia; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf
EPI_ISL_420617	Centre Hospitalier Saint Joseph Saint Luc	CNR Virus des Infections Respiratoires - France SUD	Alexandre Gaymard; Antonin Bal; Bruno Lina; Carine Moustaud; Florence Morfin-Sherpa; Gregory Destras; Gwendolyne Burfin; Laurence Josset; Martine Valette; Maude Bouscambert-Duchamp; Raphaëlle Lamy; Solenne Brun
EPI_ISL_417338, EPI_ISL_420613	Centre Hospitalier de Macon	CNR Virus des Infections Respiratoires - France SUD	Alexandre Gaymard; Antonin Bal; Bruno Lina; Carine Moustaud; Florence Morfin-Sherpa; Gregory Destras; Gwendolyne Burfin; Laurence Josset; Martine Valette; Maude Bouscambert-Duchamp; Raphaëlle Lamy; Solenne Brun
EPI_ISL_416749	Centre Hospitalier de Valence	CNR Virus des Infections Respiratoires - France SUD	Alexandre; Antonin; Bal; Bouscambert-Duchamp; Brengel-Pesce; Bruno.; Cheynet; Destras; Florence; Gaymard; Gregory; Josset; Karen; Laurence; Lina; Martine; Maude; Morfin-Sherpa; Valette; Valérie
EPI_ISL_1176365, EPI_ISL_1176383	Clinical Microbiology, Infection Prevention and Control	Section for Molecular Diagnostics	Björn Hallström; Jonas Björkman
EPI_ISL_1165842	Clinique N.D de Grâce Gosselies	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_1169694	Colorado Department of Public Health and Environment	Colorado Department of Public Health and Environment	Diana Ir; Emily A. Travanty; Laura Bankers; Molly C. Hetherington-Rauth; Sarah Elizabeth Totten; Shannon Ely; Shannon R. Matzinger
EPI_ISL_417013, EPI_ISL_417016, EPI_ISL_417019, EPI_ISL_417022, EPI_ISL_418624, EPI_ISL_418628, EPI_ISL_418637, EPI_ISL_418641, EPI_ISL_418644, EPI_ISL_418651, EPI_ISL_418654, EPI_ISL_418660, EPI_ISL_418665, EPI_ISL_418666, EPI_ISL_421194, EPI_ISL_421212, EPI_ISL_424628, EPI_ISL_424640, EPI_ISL_424641, EPI_ISL_424652, EPI_ISL_424653, EPI_ISL_427379	Department of Clinical Microbiology	GIGA Medical Genomics	Artesi Maria; Bontems Sébastien; Boreux Raphaël; Bours Vincent.; Cécile Meex; Durkin Keith; Hayette Marie-Pierre; Keith Durkin; Maria Artesi; Marie-Pierre Hayette; Meex Cécile; Melin Pierrette; Pierrette Melin; Raphaël Boreux; Sébastien Bontems; Vincent Bours.
EPI_ISL_1169019, EPI_ISL_1169043	Department of Infectious Diseases, Kobe Institute of Health	Department of Infectious Diseases, Kobe Institute of Health	Kentaro Itokawa; Makoto Kuroda; Masanori Hashino; Noriko Nakanishi; Rina Tanaka; Ryohiei Nomoto; Tomotada Iwamoto; Tsuyoshi Sekizuka
EPI_ISL_425352, EPI_ISL_425371, EPI_ISL_425408	Department of Pathology, University of Cambridge	COVID-19 Genomics UK (COG-UK) Consortium	Aminu S. Jahun; Anna Yakovleva; Charlotte J. Houldcroft; Ian Goodfellow; Luke W Meredith; M. Estee Torok; Martin D. Curran; Myra Hosmillo; Sarah L. Caddy; Theresa Feltwell; William L. Hamilton
EPI_ISL_425117, EPI_ISL_427809	Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Korea Centers for Diseases Control and Prevention	Division of Viral Diseases, Center for Laboratory Control of Infectious Diseases, Korea Centers for Diseases Control and Prevention	Daesang Lee; Dong Hyun Song; Heui Man Kim; Hye-Jun Jo; Jeong-Min Kim; Jun-Sub Kim; Junhyeong Jang; Mi-Seon Kim; Myung Guk Han; Namjoo Lee; Sang Hee Woo; Sehee Park; Seong Tae Jeong; Yoon-Seok Chung
EPI_ISL_414426, EPI_ISL_414467, EPI_ISL_414545, EPI_ISL_415468, EPI_ISL_415475, EPI_ISL_415490, EPI_ISL_415514, EPI_ISL_415527, EPI_ISL_422612, EPI_ISL_422660, EPI_ISL_422725, EPI_ISL_422766	Dutch COVID-19 response team	Erasmus Medical Center	EPI_ISL_422783, EPI_ISL_422804, EPI_ISL_422846, EPI_ISL_422853, EPI_ISL_422865, EPI_ISL_422867, EPI_ISL_422877
EPI_ISL_1165637, EPI_ISL_1165649, EPI_ISL_1165661, EPI_ISL_1165690, EPI_ISL_1165726, EPI_ISL_1165772, EPI_ISL_1165775, EPI_ISL_1165797	Dutch COVID-19 response team	National Institute for Public Health and the Environment (RIVM)	Adam Meijer; AnneMarie van den Brandt; Bas van der Veer; Chantal Reusken; Dennis Schmitz; Dirk Eggink; Florian Zwagemaker; Harry Vennema; Jeroen Cremer; Sharon van den Brink; on behalf of the national COVID-19 response team
EPI_ISL_417010	FUNDACION JIMENEZ DIAZ	Instituto de Salud Carlos III	A. Monzón; F. Casas; I. Fernández Roblas, R.; I. Jiménez; Iglesias-Caballero; M. Camarero; M. Cuesta; M. González-Esguevillas; M. Molinero Calamita; M. Zaballos; P. Jiménez; S. Juliá; S. Pozo; S. Varona
EPI_ISL_413586	Foundation Elisabeth-Tweesteden Ziekenhuis	Erasmus Medical Center	Anne van der Linden; Annemiek van der Eijk; Aura Timen; Bas Oude Munnink; Claudia Schapendonk; Corien Swaan; Corine GeurtsvanKessel; David Nieuwenhuijse; Irina Chestakova; Jeroen van Kampen; Jolanda Voermans; Madelief Mollers; Manon Haverkate; Marion Koopmans; Mark Pronk; Mart Stein; Pascal Lexmond; Reina Sikkema; Richard Molenkamp; Sandra Kengne Kamga Mobou; Stefan van Nieuwook; Theo Bestebroer; on behalf of the Dutch national COVID-19 response team.
EPI_ISL_411060	Fujian Center for Disease Control and Prevention	Fujian Center for Disease Control and Prevention	Chen Wei; He Wenxiang; Weng Yuwei; Zhang Yanhua
EPI_ISL_1182549, EPI_ISL_1182564, EPI_ISL_1182586, EPI_ISL_1182591, EPI_ISL_1182600	Fundação Ezequiel Dias (FUNED)	Coordenação Geral de Laboratórios de Saúde Pública (CGLAB/DAEVS/SVS/MS)	Vagner Fonseca; et al.
EPI_ISL_420141	Furst Medical Laboratory	Norwegian Institute of Public Health, Department of Virology	Hilde Elshaug; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Olav Hungnes
EPI_ISL_1167978	GA Department of Public Health Laboratory	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	; Anna Montmayeur; Anna Uehara; Brian Lynch; Clinton R. Paden; Haibin Wang; Jing Zhang; Krista Queen; Peter W. Cook; Rachel Marine; Suxiang Tong; Yan Li; Ying Tao
EPI_ISL_1169920	Galdakao University Hospital	Cruces University Hospital	Ana Belén de la Oz; Ana Gual-de-Torrella; Mikel Gallego; Pilar Berdonces
EPI_ISL_406800, EPI_ISL_406801	General Hospital of Central Theater Command of People's Liberation Army of China	BGI & Institute of Microbiology, Chinese Academy of Sciences & Shandong First Medical University & Shandong Academy of Medical Sciences & General Hospital of Central Theater Command of People's Liberation Army of China	Weifeng Shi and Zhenhong Hu; Weijun Chen; Yuhai Bi
EPI_ISL_1167699, EPI_ISL_1167711, EPI_ISL_1167770, EPI_ISL_1167773, EPI_ISL_1167781, EPI_ISL_1167784, EPI_ISL_1167785, EPI_ISL_1167786, EPI_ISL_1167813, EPI_ISL_1167845, EPI_ISL_1167862, EPI_ISL_1167929	Genetica Molecular and Subdepartamento de Virologia ISP Chile	Instituto de Salud Publica de Chile	Andres Castillo; Barbara Parra; Gisselle Barra; Jaime Lagos; Javier Tognarelli; Jorge Fernandez; Karen Orostica; Loredana Arata; Patricia Bustos; Rodrigo Fasce
EPI_ISL_427391	Genomic Laboratory (GLAB) (Conjoint lab of Health Directorate of Istanbul and Istanbul Technical University)	Genomic Laboratory (GLAB), Istanbul Technical University	Betsi Köse; Bugra Agaoglu; Eilifnaz Çelik; Gizem Alkurt; Gizem Dinler Doganay; Ilker Karacan; Jale Yildiz; Levent Doganay; Mehtap Aydin; Tugba Kizilboga Akgun
EPI_ISL_403932, EPI_ISL_403934, EPI_ISL_403935	Guangdong Provincial Center for Diseases Control and Prevention; Guangdong Provincial Public Health	Department of Microbiology, Guangdong Provincial Center for Diseases Control and Prevention	Baisheng Li; Changwen Ke; Feng Ruan; Guanhao He; Haojie Zhong; Huihong Deng; Jianfeng He; Jianpeng Xiao; Jianxiang Gong; Jianxiong Hu; Jie Wu; Jing Lu; Lifeng Lin; Lijun Liang; Lirong Zou; Min Kang; Qi Zhu; Shuijiang Mei; Songjian Xiao; Tao Liu; Ting Song; Weilin Zeng; Wenjun Ma; Xing Li; Xiujuan Tang; Xue Zhuang; Xuqiang Chen; Ying Wang; Yingchao Song; Yingtao Zhang; Yuhuang Yang; Zhe Liu
EPI_ISL_428461, EPI_ISL_428463, EPI_ISL_428477	Guangdong Provincial Center for Diseases Control and Prevention;Guangdong Provincial Institute of Public Health	School of Public Health, The University of Hong Kong	Bosheng Li; Hanri Zeng; Haogao Gu; Hui-Ling Yen; Jie Wu; Leo L.M. Poon; Lijun Liang; Tie Song; Yao Hu; Yingchao Song; Zhencui Li
EPI_ISL_413850, EPI_ISL_413851, EPI_ISL_413854, EPI_ISL_413863, EPI_ISL_413864, EPI_ISL_413874, EPI_ISL_413888	Guangdong Provincial Institution of Public Health, Guangdong Provincial Center	Guangdong Provincial Institution of Public Health	Andrew Rambaut; Bo Peng; Changwen Ke; Chuming Liang; Huanying Zheng; Huifang Lin; Jing Lu; Jingju Peng; Jiufeng Sun; Josh Quick; Juan Su; Kang Min; Kuibiao Li; Lilian Zeng; Liu Zhe; Louis du

	for Disease Control and Prevention		
EPI_ISL_418247	HOSPITAL GENERAL DE SEGOVIA	Instituto de Salud Carlos III	
EPI_ISL_407313	Hangzhou Center for Disease Control and Prevention	Hangzhou Center for Disease Control and Prevention	
EPI_ISL_418506	Hangzhou Center for Disease Control and Prevention	Inspection Center of Hangzhou Center for Disease Control and Prevention	
EPI_ISL_418512, EPI_ISL_418513	Hangzhou Center for Disease Control and Prevention	Inspection Center of Hangzhou Center for Disease Control and Prevention	
EPI_ISL_421223, EPI_ISL_421228	Hangzhou Center for Diseases Control and Prevention	Hangzhou Center for Diseases Control and Prevention	
EPI_ISL_418427	Hopital Privé de l'Est Lyonnais	CNR Virus des Infections Respiratoires - France SUD	
EPI_ISL_1180269, EPI_ISL_1180275, EPI_ISL_1180276, EPI_ISL_1180277	Hospital General Universitario Gregorio Marañón	Hospital General Universitario Gregorio Marañón	
EPI_ISL_1169880	Hospital Universitari Arnau de Vilanova	Hospital Universitari Vall d'Hebron - Vall d'Hebron Institut de Recerca	
EPI_ISL_428683, EPI_ISL_428693, EPI_ISL_428698, EPI_ISL_428706	Hospital Universitario 12 de Octubre	Hospital Universitario 12 de Octubre	
EPI_ISL_428674, EPI_ISL_428675, EPI_ISL_428678	Hospital Universitario La Paz	Hospital Universitario 12 de Octubre	
EPI_ISL_417980	Hospital Universitario Ramón y Cajal	Hospital Universitario La Paz	
EPI_ISL_424349	Human Genetic Research Center, Kawsar Biotech Company	Human Genetic Research Center, Kawsar Biotech Company	
EPI_ISL_1171568	I.F.A.C. Hopital Princesse Paola	GIGA Medical Genomics	
EPI_ISL_1171645	IAL Regional de Marília	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	
EPI_ISL_1171653, EPI_ISL_1171658, EPI_ISL_1171663, EPI_ISL_1171666, EPI_ISL_1171668	IAL Regional de Presidente Prudente	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	
EPI_ISL_1171627, EPI_ISL_1171635, EPI_ISL_1171640	IAL Regional de Santos	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	
EPI_ISL_410546	INMI Lazzaro Spallanzani IRCCS	Laboratory of Virology, INMI Lazzaro Spallanzani IRCCS	
EPI_ISL_1169900	Imelda Hospital	Imelda Hospital	
EPI_ISL_413520	Infectious Disease Control Center, Center for Disease Control and Prevention of PLA	Infectious Disease Control Center, Center for Disease Control and Prevention of PLA	
EPI_ISL_428356	Institut Médico légal- Hop R. Poincaré	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	
EPI_ISL_418422, EPI_ISL_418430, EPI_ISL_419173, EPI_ISL_419184, EPI_ISL_420621, EPI_ISL_420623, EPI_ISL_420625 see above	Institut des Agents Infectieux (IAI), Hospices Civils de Lyon	CNR Virus des Infections Respiratoires - France SUD	
EPI_ISL_403928	Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College	Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking Union Medical College	
EPI_ISL_408514	Institute of Viral Disease Control and Prevention, China CDC	Institute of Viral Disease Control and Prevention, China CDC	
EPI_ISL_1171620	Instituto Adolfo Lutz Central	Instituto Adolfo Lutz, Interdisciplinary Procedures Center, Strategic Laboratory	
EPI_ISL_1168637, EPI_ISL_1168644, EPI_ISL_1181715, EPI_ISL_1181717, EPI_ISL_1181719	Instituto Nacional de Medicina Genomica	Instituto Nacional de Medicina Genomica	
EPI_ISL_1168455, EPI_ISL_1168459, EPI_ISL_1168476, EPI_ISL_1168480, EPI_ISL_1168513, EPI_ISL_1168545, EPI_ISL_1168559, EPI_ISL_1168633 see above	Instituto de Diagnostico y Referencia Epidemiologicos INDRE_RNLSP	Instituto de Diagnostico y Referencia Epidemiologicos (INDRE)	
EPI_ISL_416608	Japanese Quarantine Stations	Pathogen Genomics Center, National Institute of Infectious Diseases	
EPI_ISL_421242, EPI_ISL_421243, EPI_ISL_421248, EPI_ISL_421250, EPI_ISL_421252, EPI_ISL_421253, EPI_ISL_421260, EPI_ISL_421261, EPI_ISL_421262 see above	Jiangxi Province Center for Disease Control and Prevention	Jiangxi Province Center for Disease Control and Prevention	
EPI_ISL_412459	Jingzhou Center for Disease Control and Prevention	Hubei Provincial Center for Disease Control and Prevention	
EPI_ISL_416467, EPI_ISL_417429, EPI_ISL_418270, EPI_ISL_418792, EPI_ISL_418863, EPI_ISL_418984, EPI_ISL_418985, EPI_ISL_420320, EPI_ISL_420332, EPI_ISL_420334, EPI_ISL_420360, EPI_ISL_420363, EPI_ISL_420436, EPI_ISL_420437, EPI_ISL_420445 see above	KU Leuven, Clinical and Epidemiological Virology	KU Leuven, Clinical and Epidemiological Virology	
EPI_ISL_1167556	Kansas Health and Environmental Lab	Kansas Health and Environmental Lab	
EPI_ISL_411957	Key Laboratory of Human Diseases, Comparative Medicine, Institute of Laboratory Animal Science	Key Laboratory of Human Diseases, Comparative Medicine, Institute of Laboratory Animal Science	
EPI_ISL_1168043, EPI_ISL_1168084, EPI_ISL_1168141, EPI_ISL_1168148	Klinisk mikrobiologi	The Public Health Agency of Sweden	
EPI_ISL_1166566, EPI_ISL_1166587	Klinisk mikrobiologi, Region Västerbotten	CBRN Defence and Security, Swedish Defence Research Agency	
EPI_ISL_424868	LA Office of Public Health Laboratories	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	
EPI_ISL_418234	LABM GH nord Essonne	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	
EPI_ISL_428361	LABM GH nord Essonne de Longjumeau - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	
EPI_ISL_419259	Lab voor klinische biologie	Onderzoeksgroep Virologie	
EPI_ISL_1182605, EPI_ISL_1182616, EPI_ISL_1182621, EPI_ISL_1182623	Laboratório Central de Saúde Pública do Rio Grande do Sul	Coordenação Geral de Laboratórios de Saúde Pública (CGLAB/DAEVS/SVS/MS)	
EPI_ISL_1182575, EPI_ISL_1182624	Laboratório Central do Estado do Paraná	Coordenação Geral de Laboratórios de Saúde Pública (CGLAB/DAEVS/SVS/MS)	
EPI_ISL_1182552	Laboratório Central do Estado do Rio de Janeiro	Coordenação Geral de Laboratórios de Saúde Pública (CGLAB/DAEVS/SVS/MS)	
EPI_ISL_421508	Le Château de Seine-Port	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	
EPI_ISL_1174802	Lighthouse Lab in Milton Keynes	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	
EPI_ISL_421363, EPI_ISL_421615	MSHS Clinical Microbiology Laboratories	MSHS Pathogen Surveillance Program	
EPI_ISL_1181176	MVZ Dr. Eberhard & Partner Dortmund	Bielefeld University	
EPI_ISL_1181977	Maryland Public Health Laboratory	Maryland Public Health Laboratory	
EPI_ISL_420907, EPI_ISL_420911	Max von Pettenkofer Institute, Virology, National Reference Center for Retroviruses, LMU Munich	Laboratory for Functional Genome Analysis, Dept. Genomics, Gene Center of the LMU Munich	
EPI_ISL_1167189, EPI_ISL_1167193	Medical Ain Shams Research Institute (MASRI), Ain Shams University	Medical Ain Shams Research Institute (MASRI), Ain Shams University	
EPI_ISL_1181748, EPI_ISL_1181758, EPI_ISL_1181777, EPI_ISL_1181782,	Microbiology and Virology Unit,Azienda Ospedale Padova,Padova,Italy	Department of Molecular Medicine,Computational Medicine Group,University of Padova,Padova,Italy	

Plessis; Minfeng Liang; Moritz Kraemer; Nick Loman; Nuno Faria; Oliver Pybus; Pingping Zhou; Qianlin Xiong; Ru bai; Ruilin Sun; Runyu Yuan; Sarah François; Shisong Fang; Song Tie; Tao Liu; Verity Hill; Wei Li; Wenjun Ma; Wenzhe Su; Xi Tang			
A. Monzó; F. Casas; I. Hernandez-Real S.; I. Jiménez; Iglesias-Caballero; M. Camarero; M. Cuesta; M. González-Esguevillas; M. Molinero Calamita; M. Zaballos; P. Jiménez; S. Juliá; S. Pozo; S. Varona			
Haoqiu Wang; Hua Yu; Jun Li; Lingfeng Mao; Qingxin Kong; Shuchang Chen; Xin Qian; Xinfen Yu; Xuchu Wang; Zhou Sun			
Li jun; Pan jingcao; Wang haoqiu; Yu hua; Yu xinfeng			
Li jun; Pan jingcao; Wang haoqiu; Yu hua; Yu xinfeng			
Haoqiu Wang; Hua Yu; Jun Li; Junfang Chen; Lingfeng Mao; Shuchang Chen; Xin Qian; Xinfen Yu; Xuchu Wang; Zhou Sun			
Alexandre Gaymard; Antonin Bal; Bruno Lina; Carine Moustaud; Florence Morfin-Sherpa; Gregory Destras; Gwendolyne Burfin; Laurence Josset; Martine Valette; Maude Bouscambert-Duchamp; Raphaëlle Lamy; Solenne Brun			
Cristina Rodriguez-Grande; Darío García de Viedma"; Laura Pérez-Lago; Patricia Muñoz; Pedro Sola Campoy; Pilar Catalán; "Sergio Buenestado Serrano			
Andrés Antón; Ariadna Rando; Carla Castillo; Cristina Andrés; Damir Garcia-Cehic; Josep F Abril; Josep Quer; Juliana Esperalba; Maria Carmen Martin; Maria Gema Codina; Maria Piñana; Tomàs Pumarola			
Elias Dahdouh; Esther Viedma; Fernando Lázaro; Jesús Mingorance; Juan Carlos Galán; Julio García; Mª Dolores Folgueira; Natalia Stella; Rafael Cantón; Rafael Delgado; Raúl Recio; Sara González			
Elias Dahdouh; Esther Viedma; Fernando Lázaro; Jesús Mingorance; Juan Carlos Galán; Julio García; Mª Dolores Folgueira; Natalia Stella; Rafael Cantón; Rafael Delgado; Raúl Recio; Sara González			
Elias Dahdouh; Esther Viedma; Fernando Lázaro; Jesús Mingorance; Juan Carlos Galán; Julio García; Mª Dolores Folgueira; Natalia Stella; Rafael Cantón; Rafael Delgado; Sara González			
Abbasalipour Bashash, M.; Firooz, M.; Khateri, M.; Khorvati, M.A.; Mostafavi Jabbari, S.; Pourtavakoli, S.; R. and Hoseini, F.; Zeinali; Zeinali, S.			
Bouchra Boujemla; Cécile Meex; Keith Durkin; Maria Artesi; Marie-Pierre Hayette; Nathalie Renotte; Pierrette Melin; Raphaël Boreux; Sébastien Bontems; Vincent Bours			
Caio Vinicius Dias Lopes; Claudia Regina Gonçalves; Claudio Tavares Sacchi; Erica Valesa Ramos Gomes; Karoline Rodrigues Campos			
Caio Vinicius Dias Lopes; Claudia Regina Gonçalves; Claudio Tavares Sacchi; Erica Valesa Ramos Gomes; Karoline Rodrigues Campos			
Caio Vinicius Dias Lopes; Claudia Regina Gonçalves; Claudio Tavares Sacchi; Erica Valesa Ramos Gomes; Karoline Rodrigues Campos			
Barbara Bartolini; Cesare E. M. Gruber; Concetta Castilletti; Eleonora Lalle; Emanuela Giombini; Emanuele Nicastro; Fabrizio Carletti; Francesca Colavita; Francesco Messina; Giuseppe Ippolito.; Maria R. Capobianchi; Martina Rueca			
Dagmar Obbels; Hanne Valgaeren; Johan Frans			
Li; Li, J.; Li, L.; Li, Z.; P. and Li, P.; Qiu, S.; Song, H.			
Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf			
Alexandre Gaymard; Antonin Bal; Bruno Lina; Carine Moustaud; Florence Morfin-Sherpa; Gregory Destras; Gwendolyne Burfin; Laurence Josset; Martine Valette; Maude Bouscambert-Duchamp; Raphaëlle Lamy; Solenne Brun			
Chao Wu; Jianwei Wang; Lili Ren; Qi Jin; Yiwei Liu; Zhiqiang Wu; Zichun Xiang			
Beiwei Ye; Dayan Wang; George F. Gao; Guizhen Wu; Juan Song; Jun Han; Mengjie Yang; Peihua Niu; Peipei Liu; Roujian Lu; Shumei Zou; Wei Zhen; Weifeng Shi; Weimin Zhou; Wenbo Xu; Wenjie Tan; Wenwen Lei; William J. Liu; Xiang Zhao; Yingze Zhao; Yuchao Wu; Xhixiao Chen; Ziqian Xu			
Caio Vinicius Dias Lopes; Claudia Regina Gonçalves; Claudio Tavares Sacchi; Erica Valesa Ramos Gomes; Karoline Rodrigues Campos			
Alcaraz N; Cedro-Tanda A; Cisneros-Villanueva M; Gonzalez-Barrera D; Herrera-Montalvo LA; Hidalgo-Miranda A; Mendoza-Vargas A; Ramirez-Vega O; Rangel-DeLeon D; Reyes-Grajeda JP; Sifuentes-Rojas C			
Abril Rodriguez-Maldonado; Ariadna Medina-Benitez; Claudia Wong-Arambula; David Fragoso-Fonseca; Ernesto Ramirez-Gonzalez.; Gisela Barrera-Badillo; Irma Lopez-Martinez; Joaquín Quiroz-Mercado; Lucia Hernandez-Rivas; Natividad Cruz-Ortiz; Sergio Rangel-Guerrero; Tatiana Nunez-Garcia; Vanessa Rivero-Arredondo			
Hajime Kamiya; Hideki Hasegawa; Ikuyo Takayama; Kentaro Itokawa; Makoto Kuroda; Masanori Hashino; Motoi Suzuki; Rina Tanaka; Shinji Saito; Takaji Wakita; Takuya Yamagishi; Tsutomu Kageyama; Tsuyoshi Sekizuka			
Dajin Xiao; Fang Xiao; Gang Xu; JianXiong Li; Jun Zhou; ShiWen Liu; Tian Gong; XiaoQing Liu; Xin Ran; YanNi Zhang; Ying Xiong; Yong Shi			
Bin Fang; Bo Yang; Bo Yu; Chunlin Mao; Faxian Zhan; Guojun Ye; Jie Hu; Jing Li; Junqiang Xu; Kun Cai; Linlin Liu; Maoyi Chen; Xiang Li; Xiao Yu; Xixiang Huo; Yongzhong Jiang.			
Bert Vanmechelen; Joan Marti-Carreras; Joan Marti-Carreras; Piet Maes; Tony Wawina			
Ben Olsen; Jonathan Barnell; Mike Grose; and Phil Adam			
Conghui, W.; Feifei, Q.; Fengdi, L.; Guanpeng, W.; Hong, G.; J. and Chuan, Q.; Jiangning, L.; Jing, X.; Lan, C.; Li, G.; Lili, R.; Linlin, B.; Mingya, L.; Pin, Y.; Qi, Q.; Li, L.; Qiang, W.; Shunyi, W.; Shuran, G.; Wei, D.; Xinming, W.; Yajin, Q.; Yan, X.; Yanfeng, X.; Ying, W.; Zhiqi, S.			
Anna Risberg; Anna-Malin Linde; Carlo Berg; Karin Tegmark-Wisell; Maria Lind Karlberg; Mattias Haukland; Mia Brytting; Noura Walai; Oskar Karlsson Lindsjö; Petra Edquist; Petra Holmstrom; Reza Advani; Sofia Stamouli			
Andreas Sjödin; Anna-Lena Johansson; Annika Allard; Annika Osterman; Caroline Öhrman; David Sundell; Emelie Näslund Salomonsson; Ingrid Dacklin; Jonas Näslund; Kerstin Myrtennäs; Linda Karlsson; Malin Granberg; Mats Forsman; Stina Bäckman			
Alison S. Lauffer Halpin; Anna Uehara; Christopher A. Elkins; Clinton R. Paden; Haibin Wang; Jing Zhang; Krista Queen; Mary S. Keckler; Rachel Marine; Suxiang Tong; Yan Li; Ying Tao			
Angela Brisebarre; Christine Lambert; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf			
Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf			
Basile Cole; Bruno Verhasselt; Hans Nauwynck; Laurens Lambrechts; Linos Vandekerckhove; Marthe Pauwels; Nick Vereecke; Sebastiaan Theuns			
Vagner Fonseca; et al.			
Vagner Fonseca; et al.			
Vagner Fonseca; et al.			
Angela Brisebarre; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeeene; Mélanie Albert; Méline Bizard; Sylvie Behillili; Sylvie van der Werf; Vincent Enouf			
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; Roberto Amato; Sonia Gonçalves; The Lighthouse Lab in Milton Keynes and Alex Alderton			
Adolfo Garcia-Sarste; Ajay Obla; Alberto Paniz-mondolff; Ana S. Gonzalez-Reiche; Bremy Albuquerque; Emilia Sordillo; Florian Krammer; Gopi Patel; Harm van Bakel; Jayeeta Dutta; Jose Polanco; Juan Soto; Judith Aberg; Lisa Miorin; Matthew Hernandez; Melissa Gitman; Melissa Smith; Mitchell Sullivan; Randy Albrecht; Robert Sebra; Sheldie Fabre; Shwetha Sridhar Hara; Viviana Simon; Wen-chun Liu; Ying-Chih Wang; Zenab Khan			
Alexander Sczyrba; David Brandt; Jörn Kalinowski; Levin-Joe Klages; Marina Simunovic; Markus Haak; Svenja Vinke; Tobias Busche			
Maryland Department of Health Laboratories Administration			
Alexander Graf; Ashok Varadharajan; Helmut Blum; Max Muenchhoff; Oliver Keppler; Stefan Krebs			
Aya Mohamed; Fatma Ebied; Hagar Elshora; Hala Hafez; Hesham Elghazaly; Hoda Ezz Elarab; Iman Foda; Manal Hamdy Elsaid; Mohamed Elhadidi; Osama Mansour.; Reham Kassab; Samia Abdou Girgis; Sara Hassan Agwa; Shimaa Moustafa			
Andrea Crisanti; Claudia Del Vecchio; Elisa Franchini; Enrico Lavezzo; Federico Bianca; Francesco Onelia; Laura Manuto; Marco Grazioli; Stefano Toppo			

EPI_ISL_1181796, EPI_ISL_1181808 EPI_ISL_1168055	Mikrobiologen	The Public Health Agency of Sweden	Anna Risberg; Anna-Malin Linde; Carlo Berg; Karin Tegmark-Wisell; Maria Lind Karlberg; Mattias Haukland; Mia Brytting; Noura Walai; Oskar Karlsson Lindsjö; Petra Edquist; Petra Holmstrom; Reza Advani; Sofia Stamouli
EPI_ISL_428717, EPI_ISL_428720, EPI_ISL_428722, EPI_ISL_1167617, EPI_ISL_1170017, EPI_ISL_1171953, EPI_ISL_1183631, EPI_ISL_1183665, EPI_ISL_1183691	Ministry of Health Turkey	Ministry of Health Turkey	Ayşe Başak Altas; Fatma Bayrakdar; Gulay Korukluoglu; Gülay Korukluoğlu; Selçuk Kiliç; Suleyman Yalcin; Yasemin Cosgun; Yasemin Cosgun
see above	NH Department of Health and Human Services Public Health Labs	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Alison S. Laufer Halpin; Anne Uehara; Christopher A. Elkins; Clinton R. Paden; Haibin Wang; Jasmine Padilla; Jing Zhang; Justin Lee; Krista Queen; Mary S. Keckler; Rachel Marine; Suxiang Tong; Yan Li; Ying Tao
EPI_ISL_420792	NHC Key laboratory of Enteric Pathogenic Microbiology, Institute of Pathogenic Microbiology	Jiangsu Provincial Center for Disease Control & Prevention	Baoli Zhu; Bin Wu; Fengcai Zhu; Kangchen Zhao; Lunbiao Cui; Ming Wu; Tao Wu; Xiaojun Zhang; Yin Chen; Yiyue Ge
EPI_ISL_411952	NYU Langone Health	Department of Pathology and Medicine, New York University School of Medicine	Adriana Heguy; Amy Rapkiewicz; Antonio Serrano; Christian Marier; Dacia Dimartino; Emily Huang; Gael Westby; George Jour; Guomiao Shen; Jared Pinnell; John Cadley; John Chen; Margaret Black; Marie Samanovic-Golden; Mark J. Mulligan; Mattia Snuderi; Matthew T. Maurano; Megan Padilla; Nick Vulpescu; Paolo Cotzia; Paul Zappile; Peter Meyn; Xiaojun Feng
EPI_ISL_418200	NYU Langone Health	Departments of Pathology and Medicine, New York University School of Medicine	Adriana Heguy; Amy Rapkiewicz; Andrew Lytle; Antonio Serrano; Brendan Belovarac; Christian Marier; Dacia Dimartino; Emily Huang; Gael Westby; George Jour; Guomiao Shen; Iman Osman; Jared Pinnell; John Cadley; John Chen; Ludovic Boytard; Margaret Black; Marie Agüero-Rosenfeld; Marie Samanovic-Golden; Mark J. Mulligan; Mattia Snuderi; Matthew T. Maurano; Megan Hogan; Nick Vulpescu; Paolo Cotzia; Paul Zappile; Peter Meyn; Sitharam Ramaswami; Tatyana Gindin; Theodore Vougiouklakis; Xiaojun Feng; Yutong Zhang
EPI_ISL_421705, EPI_ISL_424944	NYU Langone Health	Departments of Pathology and Medicine, New York University School of Medicine	Baoying Huang; Fei Ye; George F. Gao; Guizhen Wu; Huiping Yang; Jlanan Xu; Li Zhao; Peihua Niu; Roujian Lu; Wenbo Xu; Wenjie Tan; Wenling Wang; Xiang Zhao
EPI_ISL_408484	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control & Prevention, CCDC	Wenjie Tan , Xiang Zhao , Wenling Wang , Xuejun Lu , Yongzhong Jiang , Roujian Lu , Ji Wang , Weimin Zhou , Peihua Niu , Peipei Liu , Faxian Zhan , Weifeng Shi , Baoying Huang , Jun Liu , Li Zhao , Yao Meng , Xiaozhou He , Fei Ye , Na Zhu , Yang Li , Jing Chen , Wenbo Xu , George F. Gao , Guizhen Wu
EPI_ISL_402120	National Institute for Viral Disease Control and Prevention, China CDC	National Institute for Viral Disease Control and Prevention, China CDC	; Agustiniingsih; Arie Ardiansyah Nugraha; Fauzul Muna; Hana Aparsi Pawestri; Hartanti Dian Ikawati; Herna; Holy Arif Wibowo; Irene Lorinda Indalao; Kartika Dewi Puspita; Kindi Adam; Krisna Nur
EPI_ISL_1169050, EPI_ISL_1169057	National Institute of Health Research and Development	National Institute of Health Research and Development	Adriana Pangesti; Natalie Laurencia Kipuw; Nelly Puspandari; Ni Ketut Susilarini; Nike Susanti; Nurika Hariastuti; Neri Herman; Rinir Ramadhany; Subangkit; Tati Febriyanti; Triyani Soekoro; Uliy Afli Nkmah; Vivi Setiawaty.; Yuni Rukminiati; risna Nur Andriana Pangesti
EPI_ISL_1169821, EPI_ISL_1169837	Nevada State Public Health Laboratory	Nevada State Public Health Laboratory	Andrew Gorzalski; Mark Pandori
EPI_ISL_427575, EPI_ISL_427579	NewYork-Presbyterian & Mason Lab	Mason Lab	Alon Shaiber; Arryn Craney; Benjamin Young; Cem Meydan; Chandrima Bhattacharya; Christopher E. Mason; Christopher Mozsary; Craig D. Westover; Daniel J. Butler; David Danko; Dmitry Meleshko; Dong Xu; Ebrahim Afshinekoo; Fritz J. Sedlacek; Hanna Rennett; Iman Hajirasoulia; Jenny Xiang; Joel Rosiene; John Siple; Jonathan Fox; Justyna Gowers; Krista Ryon; Lars F. Westblade; Lin Cong; Marcin Imielinski; Maria Sierra; Massimo Loda; Matthew MacKay; Melissa Cushing; Mirella Salvatore; Nikolay A. Ivanov; Phyllis Ruggiero; Priya Velu; Shawn Levy
EPI_ISL_420151	Nordland Hospital - Bodo, Laboratory Department, Molecular Biology Unit	Norwegian Institute of Public Health, Department of Virology	Hilde Elshaug; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Olav Hungnes
EPI_ISL_1170963, EPI_ISL_1170974, EPI_ISL_1171047, EPI_ISL_1171052, EPI_ISL_1171074, EPI_ISL_1171079, EPI_ISL_1171083, EPI_ISL_1171091, EPI_ISL_1171092, EPI_ISL_1171104, EPI_ISL_1171217, EPI_ISL_1171295, EPI_ISL_1171367, EPI_ISL_1171392	OHSU Lab Services Molecular Microbiology Lab	Ginkgo Bioworks Clinical Laboratory	Alec J. Hirsch; Alex Plocik; Amanda Riccardi; Andrew C. Adey; Becky Schilling; Benjamin N. Bimber; Birgitte Simen; Brendan L. O'Connell; Brian J. O'Roak; Daniel N. Streblov; Donna Hansel; Guang Fan; James McGann; Jim Griffin; Kayla Carter; Keith Robison; Malaika McKenzie-Bennett; Martha Pierson; Michelle Spencer; Rebecca Littlefield; Ruth V. Nichols; Sally Grindstaff; William B. Messer; Xuan Qin
EPI_ISL_1178878, EPI_ISL_1179261, EPI_ISL_1179486, EPI_ISL_1179600	Originating lab: Wales Specialist Virology Centre Sequencing lab: Pathogen Genomics Unit	Public Health Wales Microbiology Cardiff Wales Specialist Virology Centre	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 Remy; Sarah Taylor; Simon Cottrell; Sophie Jones; Tom Connor
EPI_ISL_420564	Ospedale Civile Castel Di Sangro	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale"	Ancora M; Cammà C.; Curini V.; Di Domenico M.; Di Pasquale A.; Lorusso A.; Mangone I.; Marcacci M.; Puglia I.; Rinaldi A.; Savini G
EPI_ISL_1172476, EPI_ISL_1172534, EPI_ISL_1172590, EPI_ISL_1172592, EPI_ISL_1172667, EPI_ISL_1172765, EPI_ISL_1172841	Pandemic Response Lab - NYC	Pandemic Response Lab, R&D	Cybill del Castillo; Haiping Hao; Henry Lee; Jon Laurent; Melissa Hopkins; Michael Hammerling; Pradeep Bugga; Shinyoung Clair Kang; William Ward
see above	Queens Medical Centre, Clinical Microbiology Department / DeepSeq Nottingham	COVID-19 Genomics UK (COG-UK) Consortium	Christopher Moore; Fei Sang; Gemma Clark; Hannah Howson-Wells; Johnny Debebe; Jonathan Ball; Joseph Chappell; Manjinder Khakh; Matthew Carlisle; Matthew Loose; Nadine Holmes; Patrick McClure; Theocharis Tsoleridis; Victoria Wright; Wendy Smith
EPI_ISL_415130, EPI_ISL_417237, EPI_ISL_417302, EPI_ISL_417304, EPI_ISL_418689, EPI_ISL_418723, EPI_ISL_418754, EPI_ISL_420461, EPI_ISL_420504, EPI_ISL_420690, EPI_ISL_420709, EPI_ISL_420739, EPI_ISL_423862, EPI_ISL_424003, EPI_ISL_424034, EPI_ISL_424042, EPI_ISL_424047, EPI_ISL_424048, EPI_ISL_424099, EPI_ISL_424117, EPI_ISL_424120, EPI_ISL_424138	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	Angie Lackenby; Joanna Ellis; Jonathan Hubb; Kirstin Edwards; Leena Bhaw; Maria Zambon; Monica Galiano; Omolola Akinbami; Richard Myers; Shahjahan Miah; Steven Platt; Tiina Talts
see above	SC Dept of Health and Env. Control-Bureau of Laboratories	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Alison S. Laufer Halpin; Anna Uehara; Christopher A. Elkins; Clinton R. Paden; Haibin Wang; Jing Zhang; Krista Queen; Mary S. Keckler; Suxiang Tong; Yan Li; Ying Tao
EPI_ISL_424902	SC Dept of Health and Env. Control-Bureau of Laboratories	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Alison S. Laufer Halpin; Anna Uehara; Christopher A. Elkins; Clinton R. Paden; Haibin Wang; Jing Zhang; Krista Queen; Mary S. Keckler; Suxiang Tong; Yan Li; Ying Tao
EPI_ISL_1171549	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_1165839	SYNLAB - Laboratoire J. Collard	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_1181628	San Gallicano Dermatological Institute I.F.O.	San Gallicano Dermatological Institute I.F.O.	Blandino G; Cavallo I; Ciliberto G; Di Domenico EG; Donzelli S; Ensoli F; Fiorentino F; Iannazzo S; Morrone A; Orlandi G; Pimpinelli F; Pontone M; Ricciuto G; Spinella F; Strano S
EPI_ISL_412026	Second Hospital of Anhui Medical University	Second Hospital of Anhui Medical University	Changtai Wang; Mengji Lu; Mengyuan Xu; Tengfei He; Xin Huang; Zhenhua Zhang; Zhongping Liaz; Zixiang Chen
EPI_ISL_420048, EPI_ISL_421501, EPI_ISL_421505	Service de Biologie Médicale - BP 125	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Christine Lambert; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Sylvie Behillil; Sylvie van der Werf; Vincent Enouf
EPI_ISL_421513	Service de Biologie clinique	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Christine Lambert; Etienne Simon-Lorière; Flora Donati; Marion Barbet; Maud Vanpeene; Mélanie Albert; Méline Bizard; Sylvie Behillil; Sylvie van der Werf; Vincent Enouf
EPI_ISL_416485	Servicio de Microbiología. Consorcio Hospital General Universitario de Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group. FISABIO-Public Health	Concepcion Gimeno; Fernando Gonzalez-Candelas; Giuseppe D'Auria; Griselda De Marco; Maria Alma Bracho; Maria Dolores Ocete; Neris Garcia-Gonzalez
EPI_ISL_416483, EPI_ISL_419682, EPI_ISL_425181, EPI_ISL_425196	Servicio de Microbiología. Consorcio Hospital General Universitario de Valencia	Sequencing and Bioinformatics Service and Molecular Epidemiology Research Group. FISABIO-Public Health	Beatriz Beamud; Concepcion Gimeno; David Navarro; Fernando Gonzalez-Candelas; Giuseppe D'Auria; Griselda De Marco; Inma Galán Vendrell; Ivan Ansari; Lidia Ruiz Roldan; Lúcia Martínez-Priego; Loreto Ferrús Abad; Maria Alma Bracho; Maria Dolores Ocete; Mariana Reyes-Prieto; Marta Pla Diaz; Neris Garcia-Gonzalez; Paula Ruiz-Hueso; Sandra Carbo; Vicente Soriano Chirona
EPI_ISL_416321, EPI_ISL_416326, EPI_ISL_416332, EPI_ISL_416337, EPI_ISL_416342, EPI_ISL_416346, EPI_ISL_416347, EPI_ISL_416351, EPI_ISL_416354, EPI_ISL_416360, EPI_ISL_416364, EPI_ISL_416373, EPI_ISL_416377, EPI_ISL_416378, EPI_ISL_416389, EPI_ISL_416396, EPI_ISL_416402, EPI_ISL_416406, EPI_ISL_416408	Shanghai Public Health Clinical Center, Shanghai Medical College, Fudan University	National Research Center for Translational Medicine (Shanghai), Ruijin Hospital affiliated to Shanghai Jiao Tong University School of Medicine & Shanghai Public Health Clinical Center	Gang Lu; Hongzhou Lu; Saijuan Chen; Shengyue Wang; Xiaonan Zhang; Yun Ling; Yun Tan
EPI_ISL_406593, EPI_ISL_406595	Shenzhen Key Laboratory of Pathogen and Immunity, National Clinical Research Center for Infectious Disease, Shenzhen Third People's Hospital	Shenzhen Key Laboratory of Pathogen and Immunity, National Clinical Research Center for Infectious Disease, Shenzhen Third People's Hospital	Chenguang Shen; Haixia Zheng; Li Xing; Yang Yang; Yingxia Lu; Zhixiang Xu
EPI_ISL_1165845	St. Nikolaus-Hospital Eupen	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_416044, EPI_ISL_416047	State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, National Clinical Research Center for Infectious Diseases, First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China 310003	State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, National Clinical Research Center for Infectious Diseases, First Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, China 310003	Changzhong Jin; Chao Jiang; Fumin Liu; Haibo Wu; Hangping Yao; Lanjuan Li; Linfang Cheng; Min Zheng; Nanping Wu; Xiangyun Lu; Zhigang Wu
EPI_ISL_414663, EPI_ISL_414686	State Key Laboratory of Respiratory Disease, National Clinical Research Center for Respiratory Disease, Guangzhou Institute of Respiratory Health, the First Affiliated Hospital of Guangzhou Medical University	The First Affiliated Hospital of Guangzhou Medical University & BGI-Shenzhen	Zhao et al
EPI_ISL_406716, EPI_ISL_406717	State Key Laboratory of Virology, Wuhan University	State Key Laboratory of Virology, Wuhan University	Chen, L.; Chen, Y.; K. and Liu, Y.; Lan; Li, Y.; Liu, F.; Liu, W.; Mei, Y.; Shi, M.; Sun, Z.; Wu, K.; Wu, W.; Xu, K.; Ye, G.; Zhang, Q.; Zhang, W.
EPI_ISL_428907	State Research Center of Virology and Biotechnology VECTOR, Department of Collection of Microorganisms	State Research Center of Virology and Biotechnology VECTOR, Department of Collection of Microorganisms	Alexander N. Shvalov; Elena V. Gavrilova; Oleg V. Pyankov; Rinat A. Maksyutov; Sergey A. Bodnev; Tatyana V. Tregubchak
EPI_ISL_426536	TGen North	TGen North	Darrin Lemmer; Dave Engelthaler; Jolene Bowers; Megan Folkerts
EPI_ISL_412966	Technology Centre, Guangzhou Customs	Technology Centre, Guangzhou Customs	Huang, J. and Zhao, J.; Shi, Y.; Sun, J.; Zheng, K.
EPI_ISL_429076, EPI_ISL_429077, EPI_ISL_429078	The First Affiliated Hospital of Guangzhou Medical University	BGI-shenzhen & The First Affiliated Hospital of Guangzhou Medical University	; Daxi Wang; Lu Zhang; Wanying Sun; Yanqun Wang; Zhaoyong Zhang et al.
EPI_ISL_405839, EPI_ISL_406030	The University of Hong Kong - Shenzhen Hospital	Li Ka Shing Faculty of Medicine, The University of Hong Kong	C.C.-Y.; C.K.-M. and Yuen; Cai; Chan; Chen, H.; Cheng; Chu, H.; H.W.; Hui; Ip, D.; J.F.-W.; J.P.; K.H.; K.K.-W.; K.Y.; Kok; Liu, J.; Lo; Poon; R.W.-S.; S.K.F.-T.; To; Tsai; V.C.-C.; V.K.-M.; W.M.; Xing, F.; Yang, J.; Yip; Yuan, S.
EPI_ISL_429022, EPI_ISL_429024	UCSF Clinical Microbiology Laboratory	Chan-Zuckerberg Biohub	CZB Cliahub Consortium
EPI_ISL_413649, EPI_ISL_416671, EPI_ISL_416673, EPI_ISL_416712, EPI_ISL_416720, EPI_ISL_417343, EPI_ISL_417382, EPI_ISL_418037, EPI_ISL_418039, EPI_ISL_418924, EPI_ISL_422997, EPI_ISL_423016, EPI_ISL_424195, EPI_ISL_424262, EPI_ISL_424305, EPI_ISL_424309, EPI_ISL_426099, EPI_ISL_426102, EPI_ISL_427166, EPI_ISL_427231, EPI_ISL_427232, EPI_ISL_427252, EPI_ISL_427261	UW Virology Lab	UW Virology Lab	Alexander Greninger; Hong Xie; Keith Jerome; Pavitra Roychoudhury
see above	University Hospital of Northern Norway, Department for Microbiology and Infectious Disease Control	Norwegian Institute of Public Health, Department of Virology	Hilde Elshaug; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Olav Hungnes
EPI_ISL_417485, EPI_ISL_420152, EPI_ISL_420153	University Hospitals of Geneva Laboratory of Virology	University Hospitals of Geneva Laboratory of Virology	Laubscher F.
EPI_ISL_415702, EPI_ISL_415705	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_421338, EPI_ISL_428256	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_1173769, EPI_ISL_1173778, EPI_ISL_1173856, EPI_ISL_1173874, EPI_ISL_1173965	Università Federico II - Dipartimento di scienze mediche traslazionali - Napoli	TIGEM	Antonio Grimaldi Patrizia Annunziata Francesco Panariello Michele Cennamo Valentina Bouche Chiara Colantuono Lucio Di Filippo Mariano Fiorenza Anna Manfredi Marcello Salvi Giuseppe Portella Andrea Ballabio Davide Cacchiarelli

EPI_ISL_417971, EPI_ISL_1183745 EPI_ISL_426738, EPI_ISL_426972	Utah Public Health Laboratory Victorian Infectious Diseases Reference Laboratory (VIDRL)	Utah Public Health Laboratory Microbiological Diagnostic Unit Public Health Laboratory and Victorian Infectious Diseases Reference Laboratory, Doherty Institute	Erin L. Young; Erin Young; Kelly F. Oakeson; Kelly Oakeson; Tara Gallagher Caly L.; Druce J.; Sait, M.; Schultz M.; Seemann T.; Sherry, N.
EPI_ISL_419859, EPI_ISL_420036	Victorian Infectious Diseases Reference Laboratory (VIDRL)	Victorian Infectious Diseases Reference Laboratory and Microbiological Diagnostic Unit Public Health Laboratory, Doherty Institute	Caly L.; Druce J.; Sait, M.; Schultz M.; Seemann T.; Sherry, N.
EPI_ISL_425819, EPI_ISL_425870, EPI_ISL_425904, EPI_ISL_425905, EPI_ISL_425983, EPI_ISL_426007	Virology Department, Royal Infirmary of Edinburgh, NHS Lothian / School of Biological Sciences, University of Edinburgh / Institute of Genetics and Molecular Medicine, University of Edinburgh	COVID-19 Genomics UK (COG-UK) Consortium	Balcaza C; Colquhoun R; Dewar R; Gallagher M; Hill V; Jackson B; McCrone JT; McHugh M; O'Toole A; Rambaut A; Rooke S; Scher E; Templeton K; Williams TC; Yu X
EPI_ISL_416734, EPI_ISL_418314, EPI_ISL_420156, EPI_ISL_420177, EPI_ISL_420251, EPI_ISL_420270, EPI_ISL_420289			
see above	Virology Department, Sheffield Teaching Hospitals NHS Foundation Trust	Department of Infection, Immunity and Cardiovascular Disease, The Florey Institute, The Medical School, University of Sheffield	Adri Angyal; Alex Keeley; Benjamin Lindsey; Cariad Evans; Danielle Groves; Dave Partridge; Luke Green; Matthew Parker; Matthew Wyles; Mehmet Yavuz; Mohammad Raza; Paul Parsons; Rachel Tucker; Rebecca Brown; Thushan de Silva
EPI_ISL_427328, EPI_ISL_427329, EPI_ISL_427335	WHO National Influenza Centre Russian Federation	WHO National Influenza Centre Russian Federation	Andrey Komissarov; Anna Ivanova; Artem Fadeev; Daria Danilenko; Mariia Sergeeva
EPI_ISL_415453, EPI_ISL_418152, EPI_ISL_419399, EPI_ISL_419426, EPI_ISL_419476, EPI_ISL_420943, EPI_ISL_420952, EPI_ISL_420970, EPI_ISL_420982			
see above	Wales Specialist Virology Centre	Public Health Wales Microbiology Cardiff	Catherine Moore; Joanne Watkins; Malorie Perry; Matt Bull; Sally Corden; Sara Rey; Simon Cottrell Sara Rey; Tom Connor
EPI_ISL_417082, EPI_ISL_417125, EPI_ISL_417126	Washington State Department of Health	Seattle Flu Study	Chu etl al
EPI_ISL_425655, EPI_ISL_425658, EPI_ISL_425662, EPI_ISL_425686, EPI_ISL_425698, EPI_ISL_425761, EPI_ISL_425769, EPI_ISL_425780			
see above	West of Scotland Specialist Virology Centre, NHSGGC / MRC-University of Glasgow Centre for Virus Research	COVID-19 Genomics UK (COG-UK) Consortium	Alasdair MacLean; Ana da Silva Filipe; Antonia Ho; Daniel Mair; David L Robertson; Emma Thomson; James Shepherd; Jenna Nichols; Joseph Hughes; Kathy Li; Kathy Smollett; Lily Tong; Natasha Jesudason; Natasha Johnson; Rajiv Shah; Richard Orton; Rory Gunson.; Sarah McDonald; Sreenu Vattipally; Stephen Carmichael
EPI_ISL_1167102, EPI_ISL_1171734, EPI_ISL_1171749, EPI_ISL_1182636	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Ashley Norberg; Brian Dominguez; Cari Sloma; Channing Weber; Chayse Rowley; Elliot Thomasson; Jim Mildenberger; Lynette Gumbleton; Marley Goetz; Noah Hull; Taylor Fearing; Wanda Manley; and Rob Christensen
EPI_ISL_428399	Yale COVID-19 Biorepository	Grubaugh Lab - Yale School of Public Health	Adam Moore; Akiko Iwasaki; Albert Ko; Alice Lu; Allison Nelson; Anderson Brito; Anne Wyllie; Arnau Casanovas; Catherine Muenker; Chaney Kalinich; Chantal Vogels; Charles Dela Cruz; Cole Jensen; Isabel Ott; Joseph Fauver; Maria Tokuyama; Mary Petrone; Nathan Grubaugh; Patrick Wong; Peiwen Lu; Richard Martinello; Saad Omer; Shelli Farhadian; Tara Alpert
EPI_ISL_408478	Yongchuan District Center for Disease Control and Prevention	Chongqing Municipal Center for Disease Control and Prevention	Chen Shuang; Li Qing; Ling Hua; Rong Rong; Su Kun; Tan ZhangPing; Tang Wenge; Tang Yun; Ye Sheng; Yu zhen
EPI_ISL_422425	Zhejiang Provincial Center for Disease Control and Prevention	Zhejiang Provincial Center for Disease Control and Prevention	Yanjun Zhang; Yi Sun
EPI_ISL_408479	Zhongxian Center for Disease Control and Prevention	Chongqing Municipal Center for Disease Control and Prevention	Chen Shuang; Li Qin; Ling Hua; Rong Rong; Su Kun; Tan ZhangPing; Tang Wenge; Tang Yun; Ye Sheng; Yu zhen; Zhang Hong
EPI_ISL_1181137, EPI_ISL_1181145, EPI_ISL_1181147, EPI_ISL_1181171	genXone SA, Molecular Diagnostics Laboratory / NZOZ	genXone SA, Research & Development Laboratory	Aleksandra Gidlewicz; Anna Brylak-Blaszkow; Grzegorz Nowicki; Jakub Grabowski; Karol Szeszko; Lukasz Krych; Maciej Sykulski; Michal Kaszuba; Natalia Drweska-Matelska