

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_13334887	Kaiser Permanente Southern California	Helix	Helix; Kaiser Permanente Southern California
EPI_ISL_13371724, EPI_ISL_13371772, EPI_ISL_13371783	Karolinska University Hospital Huddinge	Karolinska University Hospital	Annika Tiveljung Lindell; Henning Onsbring; Jan Albert; Karina Hentrich; Lynda Eneh; Maria Ropat; Martin Ekman; Natalija Gerasimcik; Robert Dyrdak; Sandra Broddesson; Shambhu Ganeshappa Aralaguppe; Tanja Normark; Tobias Allander; Valterri Wirta; Zhibing Yun
EPI_ISL_12864060, EPI_ISL_13131104, EPI_ISL_13313980, EPI_ISL_13314006	Karolinska University Hospital Solna	Karolinska University Hospital	Annika Tiveljung Lindell; Henning Onsbring; Jan Albert; Karina Hentrich; Lynda Eneh; Maria Ropat; Martin Ekman; Natalija Gerasimcik; Robert Dyrdak; Sandra Broddesson; Shambhu Ganeshappa Aralaguppe; Tanja Normark; Tobias Allander; Valterri Wirta; Zhibing Yun
EPI_ISL_13064563	Kuala Lumpur International Airport	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Anasir Ml; G.Adypatti NM; Jamaluddin MS; Kalyanasundram J; Kamel K; MatRahim N; Nawi MH; Suib FA; Suppiah J; Thayan R
EPI_ISL_13342510	LABORATOIRE CREAVALLEE	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; Theophile Boyer
EPI_ISL_13176333	LABORATOIRE d'ANALYSES de BIOLOGIE MEDICALES	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; Theophile Boyer
EPI_ISL_12767816	LATE - Laboratório de Técnicas Especiais - Hospital Israelita Albert Einstein	LATE - Laboratório de Técnicas Especiais - Hospital Israelita Albert Einstein	Alexandre Hideaki Takara; Ana Paula Moreira Salles; Anelisia da Silva Santos; Deyvid Amgarten; Erick Gustavo Dorlass; Fernanda de Mello Malta; João Renato Rebello Pinho; Luiz Vicente Rizzo; Marcio Anunciacao Menezes; Pedro Henrique Sebe Rodrigues; Raquel Riyuzo
EPI_ISL_13183074	Lab voor klinische biologie	Lab voor klinische biologie	Bruno Verhasselt; Hannelore Hamerlinck; May-Linh Truong
EPI_ISL_13363991, EPI_ISL_13364015	Labkesda DKI	National Quality Control Laboratory of Drug and Food	Hana Apsari Pawestri; M. Erdiansyah; Nurul Azizah; Sri Utaminingsih
EPI_ISL_13351624	Labkesda Kabupaten Batang	National Institute of Health Research and Development	Arie Ardiansyah Nugraha; Fajar Nur Sulistiyohadi; Hana Apsari Pawestri; Hartanti Dian Ikawati; IGM Wirabrata; Kartika Dewi Puspa; Nelis Imaningsih; Nur Ika Hariastuti; Putri Widia Astuti; Subangkit
EPI_ISL_13091520, EPI_ISL_13283371, EPI_ISL_13362924, EPI_ISL_13372706, EPI_ISL_13372838	Labo Analyses Med	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebare; Camille Capel; Christophe Malabat; Corinne Maufrais; Etienne Simon-Lorière; Frédéric Lemoine; J.M CORCY; Julien Fumey; Karine MICHEZ; Louise Lefrançois; Marie-Hélène GLAUDON LOUVEAU DE LA GUIGNÉRAYE; Marion Barbet; Maud Vanpeene; Méline Bizard; Slim El Khari; Sylvie Van der Werf; Vincent Enouf
EPI_ISL_13241273	Labor Lübeck bzw. Laborärztliche Gemeinschaftspraxis Lübeck	Robert Koch Institute	
EPI_ISL_13343334	Labor team w AG	Department of Biosystems Science and Engineering, ETH Zürich	Andreas Grutcs; Andreas Lindauer; Chaoran Chen; Christian Beisel; David Dreifuss; Elodie Burcklen; Franziska Singer; Ina Nissen; Ivan Topolsky; Kim Philipp Jablonski; Lara Fuhrmann; Louis du Plessis; Matteo Carrara; Mirjam Feldkamp; Monika Bucher; Natascha Santacroce; Niko Beerenwinkel; Pelin Burcak Icer; Rebecca Denes; Rebekka Pohl; Sarah Nadeau; Shuqing Yu; Tanja Stadler; Tobias Schär
EPI_ISL_13140449, EPI_ISL_13140452	Laboratoire Rodolphe Mérieux (INRB Goma)	Pathogen Genomics Lab, National Institute for Biomedical Research (INRB)	Allison Black; Amuri Aziza; Andrew Rambaut; Catherine Pratt; Daniel Mukadi; Eddy Kinganda-Lusamaki; Edith Nkwembe; Emmanuel Lokilo Lofiko; Francisca Muyembe Mawete; Gradi Luakanda; Hervé Viala; Ian Goodfellow; James Hadfield; Jean Claude Makangara; Jean-Jacques Muyembe Tamfum; Josh Quick; Kristian Andersen; Matthias Pauthner; Michael Wiley; Michel Mbimi; Nick Loman; Placide Mbala-Kingebwe; Steve Ahuka-Mundeke; Trevor Bedford
EPI_ISL_13303541, EPI_ISL_13303746, EPI_ISL_13304033	Laboratoire de santé publique du Québec	Laboratoire de santé publique du Québec	Guillaume Bourque; Ioannis Ragoussis; Jesse Shapiro; Mark Lathrop and Judith Fafard on behalf of the CoVSeQ research group; Sandrine Moreira
EPI_ISL_13282483	Laboratoire national de sante, Microbiology, Virology	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Catherine Ragimbeau; Elodie Solarino; Eric Hugoson; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Sibel Berger; Tamir Abdelrahman; Trung Nguyen Nguyen; Virginie Jover
EPI_ISL_13292140	Laboratoires Reunis	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Bernard Weber; Catherine Ragimbeau; Elodie Solarino; Eric Hugoson; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Sibel Berger; Tamir Abdelrahman; Virginie Jover
EPI_ISL_13292035, EPI_ISL_13292343, EPI_ISL_13292366	Laboratoires d'analyses medicales - KETTERHILL	Laboratoire national de sante, Microbiology, Microbial Genomics Platform	Anke Wienecke-Baldacchino; Caroline Scheiber; Catherine Ragimbeau; Elodie Solarino; Eric Hugoson; Fatu Djabi; Jessica Tapp; Lise Pignon; Raoul Salmon; Serge Vedy; Sibel Berger; Tamir Abdelrahman; Virginie Jover
EPI_ISL_12838778	Laboratorio Central de Saude Publica do Estado do Rio de Janeiro (LACEN/RJ)	Laboratory of Respiratory Viruses and Measles, Oswaldo Cruz Institute, FIOCRUZ	Alice Sampaio Rocha; Andrea Cony Cavalcanti; Bruna Mendonça da Silva; Elisa Cavalcante Pereira; Fernando Motta; Ighor Arantes; Jéssica Graça Macedo de Carvalho; Larissa Macedo Pinto; Luciana Appolinario; Marilda Siqueira on behalf of the Fiocruz COVID-19 Genomic Surveillance Network; Paola Resende; Victor Guimaraes
EPI_ISL_13142047, EPI_ISL_13314030, EPI_ISL_13314041, EPI_ISL_13314213	Laboratorio de Referencia Nacional de Virus Respiratorios. Centro Nacional de Salud Publica. Instituto Nacional de Salud Peru.	Laboratorio de Referencia Nacional de Virus Respiratorios. Centro Nacional de Salud Publica. Instituto Nacional de Salud Peru.	Alicia Nuñez Llanos; Carlos Padilla Rojas; Estela Huaman Angeles; Francisco Ascue Orosco; Gloria Arotinco Garayar.; Henri Bailon Calderon; Iris Silva Molina; Jorge Giraldo Chavez; Joseph Huayra Niquen; Karla Vasquez Cajachahua; Kelly Izarra Rojas; Lely Solari Zerpa; Lilian Huarca Balbin; Lisbet Roxana Inga Angulo; Luis Barcena Flores; Luren Sevilla Castañeda; Marco Galarza Perez; Maria Villar Saavedra; Nancy Rojas Serrano; Omar Caceres Rey; Orson Mestanza Millones; Princesa Medrano Alhuay; Priscila Lope Pario; Steve Acedo Lazo; Veronica Hurtado Vela; Victor Jimenez Vasquez; Wendy Lizarraga Olivares
EPI_ISL_12889805, EPI_ISL_13152605	Laboratory Corporation of America	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Amanda Douglas; Amanda Suchanek; Andrea Throop; Ayla Burns; Benjamin Rambo-Martin; Bobbi Croy; Brian Krueger; Brian Norvell; Christopher Gulvick; Christos Petropoulos; Clinton Paden; Craig Lukasik; Dakota Howard; Debbie Boles; Dhvani Batra; Duncan MacCannell; Eyad Almasri; Goran Stevovic; Howard Engler; Hrushikesh Deshmukh; Jake Humphrey; Jana Schroth; Jason Caravas; Joe Voshell; John Pruitt; Jonathan Meltzer; Jonathan Williams; Kimberly Wagner; Kristine Lacek; Lax Iyer; Lisa Pfeferle; Lyndon Tilson; Manoj Jain; Marcia Eisenberg; Mary Cristobal; Mary Williamson; Matthew Robinson; Matthew Schmerer; Michael Levandoski; Mike Sapeta; Mindy Nye; Minoo Agarwal; Mohan Koll; Nuthawin Charoensri; Oren Cohen; Peter Cook; Prashant Gupta; Qian Zeng; Rama Ghatti; Scott Parker; Scott Ryan; Scott Sammons; Shatavia Morrison; Stanley Letovsky; Steven Ragan; Suresh Selvaraju; Susan Countryman; Susan Hicks; Suzanne Dale; Thomas Urban; Tim Kuphal; Tricia Zwiefelhofer; Tymeckia Kendall; Victoria Caban Figueroa; Vincent Drouillon; Yvette Unoarumhi
EPI_ISL_13013557, EPI_ISL_13229149, EPI_ISL_13229156, EPI_ISL_13229163, EPI_ISL_13229172	Laboratory of Genomics and Bioinformatics, Comenius University Science Park	Laboratory of Genomics and Bioinformatics, Comenius University Science Park	Anna Kaliňáková; Barbora Kotvasová; Diana Rusňáková; Jakub Styk; Jaroslav Budíš; Lucia Ševčíková; Michaela Jakubková Forgáčová; Miroslav Böhmer; Nikola Lipková; Pavol Mišenko; Silvia Bokorová; Tatiana Sedláčková; Terézia Vrabřová; Tomáš Szemes
EPI_ISL_12561210, EPI_ISL_12561211, EPI_ISL_12561212, EPI_ISL_12561213	Landspitäli, Department of Clinical Microbiology	Landspitäli, Department of Clinical Microbiology	Arsalan Amirfallah; Freyja Valsdóttir; Zarko Urosevic
EPI_ISL_12875191, EPI_ISL_12875272, EPI_ISL_13249983, EPI_ISL_13250051	Lifebrain Covid Labor GmbH	Lifebrain Covid Labor GmbH	Alexandra Wagner; Anna Edermayr; Filip Sima; Kristina Bavrka Kolenc; Lucia Castello
EPI_ISL_13157142, EPI_ISL_13185833, EPI_ISL_13231687, EPI_ISL_13311807	Lighthouse Lab in Glasgow	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium	Anna Dominiczak and Alex Alderton; Carol Clugston; Cordelia Langford; David Gray; David K. Jackson; Dominic Kwiatkowski; Ewan Harrison; Harper VanSteenhouse; Ian Johnston; Jeffrey Barrett; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Roberto Amato; Sonia Goncalves; Yumi Kasai
EPI_ISL_13033928	Limbach - MVZ Labor Ravensburg Labor Dr. Gärtner	Robert Koch Institute	
EPI_ISL_13137139, EPI_ISL_13355257	MANILA DOCTORS HOSPITAL	Research Institute for Tropical Medicine	Alexander Sadiasa; Amalea Dulcene D. Nicolasora; Angela Kae T. Chang; Anne Pauline A. Alpino; Ariane Ysabelle M. Dolor; Catalino S. Demetria; Charalyn Babida; Claudette Lee S. Navarro; Criselda T. Bautista; Dodge R. Lim; Francisco Gerardo M. Polotan; Gerald Ivan S. Sotelo; Jefferson Earl J. Halog; Joseph Hughes; Joy Mariette L. Parayray; Katie Hampson; Kirstyn Brunker; Lei Lanna M. Dancel; Ma. Angelica A. Tujan; Ma. Ricci R. Gomez; Mayan Uy-Lumandas; Othoniel Jan T. Onza; Simon Daldry; Timothy John R. Dizon; Vina Lea F. Arguelles; Yao-Tsun Li
EPI_ISL_13247839	MDI Limbach Berlin GmbH, MVZ Labor Berlin	Robert Koch Institute	
EPI_ISL_13332769, EPI_ISL_13332770, EPI_ISL_13332771, EPI_ISL_13332773, EPI_ISL_13332774, EPI_ISL_13332775	MRC/UVRI & LSHTM Uganda Research Unit	MRC/UVRI & LSHTM Uganda Research Unit	Bernard Mpairwe; Joseph Mugisha; Matthew Cotten; My V.T. Phan; Robert Newton
EPI_ISL_13269831	MVZ Dr. Eberhard & Partner Dortmund	Robert Koch Institute	
EPI_ISL_13268448	MVZ Labor Krone GbR	Robert Koch Institute	
EPI_ISL_13359967	Mater Pathology, South Brisbane—Mater Hospital Brisbane	Public Health Virology - Forensic and Scientific Services (PHV-FSS)	Chenwei Wang on behalf of Q-PHIRE Genomics
EPI_ISL_12954406	Mbabane Public Health Unit	National Institute for Communicable Diseases of	Amoako DG; Bhiman JN; Everatt J; Ismail A; Kekana D; Mahlangu B; Maphalala G; Mnguni A; Mohale T; Ntuli N; Scheepers C; Wolter N

EPI_ISL_12954176	Mbabane city council	the National Health Laboratory Service National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG; Bhiman JN; Everatt J; Ismail A; Kekana D; Mahlangu B; Maphalala G; Mnguni A; Mohale T; Ntuli N; Scheepers C; Wolter N
EPI_ISL_13238615	Medizinische Labororien Düsseldorf	Robert Koch Institute	
EPI_ISL_12915494	Microbiology Department, Laboratori Clinic Metropolitana Nord. Hospital Universitari Germans Trias i Pujol	Can Ruti SARS-CoV-2 Sequencing Hub (HUGTIP/irsiCaixa/IGTP)	Alexia Paris; Ana Blanco; Andreu Coello; Antoni E Bordoy; Bonaventura Clotet; David Panisello; Francesc Catala-Moll; Gemma Clara; Ignacio Blanco; Laia Soler; Marc Noguera-Julian; Montserrat Giménez; Pere-Joan Cardona; Pilar Armengol; Roger Paredes; Sara González; Verónica Saludes; and Elisa Martró on behalf of the Can Ruti SARS-CoV-2 Sequencing Hub
EPI_ISL_13229987, EPI_ISL_13230291, EPI_ISL_13312308, EPI_ISL_13312310	Microbiology Department. Complejo Hospitalario Universitario de Vigo	Microbiology Department. Complejo Hospitalario Universitario de Vigo	Cabrera JJ; Cortizo S; Daviña C; Gonzalez-Dominguez M; Martinez L; Pena I; Perez-Castro S; Potel C; Rey S; Vasallo FJ; del-Campo V
EPI_ISL_13113071, EPI_ISL_13113222, EPI_ISL_13176029	Ministry of Health Turkey	Ministry of Health Turkey	Arzu İrvem; Cemal Kazezoğlu; Feride Velaei; Gülay Korukluoğlu; Gültekin Ünal; Meral Kaya; Rabia Can Sarınoğlu; Serap Demir Tekol; Şemsinur Karabela
EPI_ISL_12972929, EPI_ISL_12972930, EPI_ISL_12972931, EPI_ISL_12972932, EPI_ISL_12972933	Molecular Biology and Virology	Molecular Biology and Virology	Dr.Moh'D Borhan Al-Zghoul; Dr.Mustafa Ababneh; Mohammad Alboom
EPI_ISL_13244309	Molecular Genetic Monitoring Group	Molecular Genetic Monitoring Group	Anna S. Gladkikh; Areg A.Totolian; Ekaterina O. Klyuchnikova; Valerya A. Sbarzaglia; Vladimir G. Dedkov
EPI_ISL_13259127, EPI_ISL_13259128	NIH	National Institute of Hygiene	Abderrahman Bimouhen; Fatima El Falaki; Hassan Ihazmade; Hicham Oumzil; Zakia Regragui
EPI_ISL_12837921	Nastavni zavod za javno zdravstvo Splitsko- Dalmatinske županije	Hrvatski zavod za javno zdravstvo	Anita Jurić; Dragan Jurić; Irena Tabain; Ivana Ferenčak; Josipa Kuzle
EPI_ISL_12845590	National Health Laboratory Services	CERI, Centre for Epidemic Response and Innovation, Stellenbosch University and KRISP, KZN Research Innovation and Sequencing Platform, UKZN.	Anyaneji UJ; Giandhari J; Maharaj A; Moir M; Naidoo Y; Nokukhanya Mdlalose; Pillay S; San JE; Sanko TJ; Tegally H; Tshiabula D; Van Wyk S; Wilkinson E; de Oliveira T
EPI_ISL_11763529, EPI_ISL_12097409	National Health Laboratory Services	CERI, Centre for Epidemic Response and Innovation, Stellenbosch University and KRISP, KZN Research Innovation and Sequencing Platform, UKZN.	Anyaneji UJ; Giandhari J; Maharaj A; Mdlalose N; Moir M; Naicker D; Naidoo Y; Nokukhanya Mdlalose; Pillay S; San JE; Tegally H; Tshiabula D; Van Wyk S; Wilkinson E; de Oliveira T
EPI_ISL_12474479	National Health Laboratory Services, Virology	National Health Laboratory Services, Virology	Ashlyn S. C. Davis; Florette K. Treurnicht; Kathleen Subramoney; Nkhensani Mtileni
EPI_ISL_13345427	National Laboratory for Health, Environment and Food, OMM, Maribor	NLZOH (National Laboratory for Health, Environment and Food)	Aleksander Mahnic; Alenka Štorman; Andrej Golle; Kaja Tominc; Leon Marič; Maja Rupnik; Maša Jarčič; Mojca Cimerman; Nika Gobec; Nika Volmajer; Sabina Mlakar; Sandra Janezic; Tanja Vrabčič; Tjaša Žohar Čretnik; Urška Dobovišek
EPI_ISL_13102212	National Platform bis COVID ULB- IBC	National Platform bis COVID ULB-IBC	Arnaud Marchant; Coralie Henin; Lionel Schiavolin; Marie-Luce Delforge; Mathilde Le Garrec
EPI_ISL_12835609	National Platform bis UMONS/jolimont	National Platform bis UMONS/jolimont	Caroline Debecker; Clothilde Claus; Eric Tarantino; Florian Juszcak; Gautier Detry; Laetitia Gheysen; Ruddy Wattiez
EPI_ISL_13094168, EPI_ISL_13150735, EPI_ISL_13150742, EPI_ISL_13259913	National Public Health Laboratory, National Centre for Infectious Diseases	National Public Health Laboratory, National Centre for Infectious Diseases	BeiBei Chen; Benny Yeo; Chen Shi Ling; Grace Ngan; Jesslin Tan; Lin Cui; Raymond Tzer Pin Lin; Royce Ang; Samuel Loo; Yichen Ding; Zhenyang Zhou
EPI_ISL_13186247, EPI_ISL_13186619, EPI_ISL_13186641, EPI_ISL_13252794, EPI_ISL_13252801, EPI_ISL_13298834	National Virus Reference Laboratory	National Virus Reference Laboratory	Charlene Bennett; Cillian F De Gascun; Gabriel Gonzalez; Jonathan Dean; Michael Carr; Zoe Yandle
EPI_ISL_12954169	Nhlango Health Centre	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG; Bhiman JN; Everatt J; Ismail A; Kekana D; Mahlangu B; Maphalala G; Mnguni A; Mohale T; Ntuli N; Scheepers C; Wolter N
EPI_ISL_13066528, EPI_ISL_13298415, EPI_ISL_13326086, EPI_ISL_13326108, EPI_ISL_13362168	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 Rey; Sarah Taylor; Simon Cottrell; Sophie Jones; Tom Connor
EPI_ISL_12851724, EPI_ISL_13140805, EPI_ISL_13140809, EPI_ISL_13331766, EPI_ISL_13331779	Outre Mer	Institut Pasteur	Angela Brisebarre; Camille Capel; Christophe Malabat; Corinne Maufrais; Etienne Simon-Lorière; Frédéric Lemoine; Julien Fumey; Louise Lefrançois; Marie-Hélène GLAUDON LOUVEAU DE LA GUIGNERAYE; Marion Barbet; Maud Vanpeene; Méline Bizard; Slim El Khiaï; Sylvie Behillil; Sylvie Van der Werf; Vincent Enouf
EPI_ISL_13324310	Outre Mer	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Camille Capel; Christophe Malabat; Corinne Maufrais; Etienne Simon-Lorière; Frédéric Lemoine; Julien Fumey; Laurence FAGOUR; Louise Lefrançois; Marion Barbet; Maud Vanpeene; Méline Bizard; Slim El Khiaï; Sylvie Van der Werf; Vincent Enouf
EPI_ISL_13137131	PASIG CITY CHILDREN'S HOSPITAL	Research Institute for Tropical Medicine	Alexander Sadiasa; Amalea Dulcene D. Nicolasora; Angela Kae T. Chang; Anne Pauline A. Alpino; Ariane Ysabelle M. Dolor; Catalino S. Demetria; Charalyn Babida; Claudette Lee S. Navarro; Criselda T. Bautista; Dodge R. Lim; Francisco Gerardo M. Polotan; Gerald Ivan S. Sotelo; Jefferson Earl J. Halog; Joseph Hughes; Joy Mariette L. Pararay; Katie Hampson; Kirstyn Brunker; Lei Lanna M. Dancel; Ma. Angelica A. Tujan; Ma. Ricci R. Gomez; Mayan Uy-Lumandas; Othoniel Jan T. Onza; Simon Daldry; Timothy John R. Dizon; Vina Lea F. Arguelles; Yao-Tsun Li
EPI_ISL_13355613	PCR Laboratory, Divisional Head Quarters Teaching Hospital, Mirpur, AJ&K	Department of Virology, National Institute of Health, Islamabad, Pakistan	Aamer Ikram; Massab Umair; Muhammad Ammar; Muhammad Salman; Nazish Badar; Qasim Ali and Najma Majeed; Syed Adnan Haider; Zaira Rehman
EPI_ISL_13369867	PRENETICS LIMITED	Hong Kong Department of Health	Alan K.L. Tsang; Edman T.K. Lam; Ken H.L. Ng; Patricia K. L. Leung; Rickjason C.W. Chan
EPI_ISL_13198072	PSSE Lowicz	1. Academic Center for Pathomorphological and Genetic-Molecular Diagnostics Ltd, Białystok, Poland 2. National Institute of Public Health - National Institute of Hygiene, Warsaw, Poland	Anetta Sulewska; Jacek Niklinski; Janusz Dzieciol.; Joanna Kisłuk; Katarzyna Zacharczuk; Konrad Raczkowski; MaLgorzata Sadkowska-Todys; Magdalena Nowakowska; Piotr Karabowicz; Piotr Majewski; Przemyslaw Biecek. Joanna Reszeć; Radosław Charkiewicz; Tomasz Wołkowicz
EPI_ISL_13371984	Pardubicka nemocnice	University Hospital Hradec Kralove	Helena Parova; Lenka Rysava; Marketa Gancarcikova; Monika Berankova
EPI_ISL_12871865	Pathcare	CERI, Centre for Epidemic Response and Innovation, Stellenbosch University and KRISP, KZN Research Innovation and Sequencing Platform, UKZN.	Anyaneji UJ; Claassen M; Giandhari J; Maharaj A; Maponga T; Moir M; Naidoo Y; Pillay S; Preiser W; San JE; Sanko TJ; Stander T; Tegally H; Tshiabula D; Van Wyk S; Wilkinson E; Wilson S; de Oliveira T; van Zyl G
EPI_ISL_13231360	Pathologist Lancet Kenya	KEMRI-Wellcome Trust Research Programme,Kilifi	Agoti C.; D.J.Nokes; Githinji G.; Lambisia A.; Makori T.; Mburu M.W.; Mohamed K.S.; Morobe J.; Mukadam R; Munoko A.; Ndwiga L.; Ngari C.; Ochola I.; Ongera E.; de Laurent Z.
EPI_ISL_13107189	Pathology Queensland and Forensic Scientific Services	Public Health Virology - Forensic and Scientific Services (PHV-FSS)	Son Nguyen on behalf of Q-PHIRE Genomics
EPI_ISL_13359899	Plateforme de testing Namuroise	Plateforme de testing Namuroise	Degosserie Jonathan; Denis Olivier; Drugmand Jonathan; Janssens Louise; Laurent Hélène; Maschietto Céline; Mullier François; Otto Gaetan; Renguet Edith
EPI_ISL_13251640	Platform BIS UZA/UAntwerpen	Labo Klinische Biologie, UZA	Basil Britto Xavier; Christine Lammens; Herman Goossens; Ines Verbesselt; Jasmine Coppens; Kathleen Holemans; Marie Le Mercier; Silke Liers; Veerle Matheussen
EPI_ISL_13177706	Public Health Authority of the Slovak Republic	Laboratory of Genomics and Bioinformatics, Comenius University Science Park	Anna Kaliňáková; Barbora Kotvasová; Diana Rusňáková; Elena Tichá; Jaroslav Budiš; Lucia Ševčíková; Miroslav Böhmer; Pavol Mišenko; Terézia Vrabľová; Tomáš Szemes
EPI_ISL_13149262, EPI_ISL_13149283, EPI_ISL_13149290, EPI_ISL_13149292, EPI_ISL_13149299, EPI_ISL_13149302, EPI_ISL_13149306, EPI_ISL_13149324	see above	Public Health Laboratory: COVID-19 Lab	International Livestock Research Institute Collins Muli; Daniel Ouso; Edward Kiritu; Edward O. Abworo; Gilbert Kibet; Gugu Maphalala; Mncedisi Hlophe; Nomcebo Phungwayo; Patrick Amoth; Paul Dobi; Samuel O. Oyola; Shebban Osiany; Sipheshile Langwenya; Sonal P. Henson; Susan Kamalizeni; Vishvanath Nene

EPI_ISL_13053559, EPI_ISL_13053622, EPI_ISL_13135210, EPI_ISL_13270696, EPI_ISL_13270939	Public Health Ontario Laboratory	Public Health Ontario Laboratory	Aimin Li; Alex Marchand-Austin; Andre Villegas; Anna Puzinovic; Ashleigh Sullivan; Brandon Ye; Candice Schreiber; Carla Duncan; Christina Rampertab; Christine Seah; Claudia Chu; Dean Maxwell; Dhiraj Gaglani; Doonia Bajovic; Esther Nagai; Fatemeh Shaeri; Fatima Merza; Grace Jeong; Hadia Hussain; Himeshi Samarsinghe; Jacob Afelskie; Jason Iraheta; Jesse Wang; John Palmer; Karthikeyan Sivaraman; Kirby Conin; Lisa Kim; Lisa McTaggart; Maria Mariscal; Mark Horsman; Narisha Shakuralli; Nataliya Potapova; Natasha Sing; Nobish Varghese; Philip Banh; Rachelle DiTullio; Rebecca Azzaro; Rima Palencia; Samir N Patel; Sarah Teatero; Semra Tibeju; Sophie Yu; Surendra Kumar; Sushma Kavikondala; Vincent Su Bin Cha; Zarah Rajaei
EPI_ISL_13249923, EPI_ISL_13249972	Puskesmas Pasirkaliki	West Java Health Laboratory; School of Life Sciences and Technology, Institut Teknologi Bandung	Azzania Fibriani; Cut Nur Cinthia Alamanda; Ema Rahmawati; Hadiana; Karimatu Khoirunnisa; Miftahul Farid; Rifky Waluyajati Rachman; Rini Robiani; Ryan Bayusantika Ristandi
EPI_ISL_13261955, EPI_ISL_13291443, EPI_ISL_13316310	Quest Diagnostics Incorporated	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	A. Gerasimova; A. Perez; B. Anderson; Benjamin Rambo-Martin; Christopher Gulvick; Clinton Paden; Dakota Howard; Dhvani Batra; Duncan MacCannell; Erisa Sula; F. Lacbawan; I. Shlyakhter; Jason Caravas; K. Livingston; Kristine Lacey; L. Bernstein; M. Hua; Matthew Schmerer; P. Tanpaiboon; Peter Cook; R. Kagan; R. Owen; R. Rolando; S. Rosenthal; Scott Sammons; Shatavia Morrison; Tymeckia Kendali; Victoria Caban Figueroa; Y. Liu; Yvette Unourumhi
EPI_ISL_12704285, EPI_ISL_12704369, EPI_ISL_12810659, EPI_ISL_12810724, EPI_ISL_13157528	Regional Virus Laboratory, Belfast Health and Social Care Trust; and: Genomics Core Technology Unit, Queen's University Belfast.	COVID-19 Genomics UK (COG-UK) Consortium	Alan; Alison Watt; Arun Mahesh; BHSCIT; Conall McCaughey; Ciara Cox; Clara Radulescu; David Simpson; Deborah Lavin; Derek Fairley; Evan Troendle; Fiona Rogan; James McKenna; Jana Gazdova; Julia Miskelly; Mairead Connor; Miao Tang; QUB; Marc Fuchs; Rice; Sarah Sonner; Stephen Bridgett; Susan Feeoney; Syed Umbreen; Tanya Curran; Timofey Skvortsov; Zoltan Molnar; [Genomics Core Technology Unit]; [Regional Virus Laboratory]
EPI_ISL_13298307	Respiratory Virus Unit, Microbiology Services Colindale, Public Health England	COVID-19 Genomics UK (COG-UK) Consortium	PHE Covid Sequencing Team
EPI_ISL_12838667, EPI_ISL_12920374, EPI_ISL_13106591, EPI_ISL_13231623, EPI_ISL_13242371, EPI_ISL_13311352, EPI_ISL_13311641, EPI_ISL_13311704, EPI_ISL_13338284	see above	Rosalind Franklin Laboratory	Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) Consortium
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EPI_ISL_13262714, EPI_ISL_13371523, EPI_ISL_13371628, EPI_ISL_13371646	SALUD DIGNA	Instituto Nacional de Medicina Genomica	Abraham Campos-Romero; Cedro-Tanda A; Escobar-Arazola MA; Garcia-Garcia FE; Garnica-Lopez Dora; Herrera-Montalvo LA.; Hidalgo-Miranda A; Luna-Ruiz Marco; Mendoza-Vargas A; Moreno-Camacho José Luis; Ramirez-Vega O; Rangel-DeLeon D; Reyes-Grajeda JP; Rodriguez-Gallegos Jorge; Sanchez-Xochipa S; Yair Alfaro-Mora
EPI_ISL_13292855, EPI_ISL_13301003	SARS-CoV-2 Sequencing Castilla y Leon-Spain Consortium	SARS-CoV-2 Sequencing Castilla y Leon-Spain Consortium	Antonio Orduña-Domingo; Carlos Fuster Foz; Carmen Aldea-Mansilla; Carmen Gimeno Crespo; David Abad; Gabriel March Rosello; Gregoria Megias Lobón; Jose María Eiros Bouza; M. Isabel Fernandez-Natal; Marta Dominguez-Gil; Marta Hernandez; María Antonia Garcia Castro; Mª Fe Brezmes-Valdivieso; Noelia Arenal Andrés; Silvia Rojo; Sonsoles Garcínuño Pérez
EPI_ISL_13027465, EPI_ISL_13167988, EPI_ISL_13217382, EPI_ISL_13217556, EPI_ISL_13217726, EPI_ISL_13217784	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; Tsuguto Fujimoto; Tsuyoshi Sekizuka
EPI_ISL_13372121	SC (UCO) Igiene e Sanità Pubblica, ASUGI, Trieste	SC (UCO) Igiene e Sanità Pubblica, ASUGI, Trieste	Basaglia G; Busetti M; D'Agaro P; Fontana F; Forciniti G; Koncan R; Pipan C; Piscianz E; Segat L
EPI_ISL_12863427, EPI_ISL_13369107	SESARAM	Instituto Nacional de Saude Doutor Ricardo Jorge (INSA)	Borges et al
EPI_ISL_12903160, EPI_ISL_13076019	SYNLAB	University Hospital Brno, CMGB	Bezdicek Matej; Dolejska Monika; Kristyna Dufkova; Lengerova Martina; Svaton Jan
EPI_ISL_12190609, EPI_ISL_13143504	SYNLAB MVZ Weiden	Robert Koch Institute	
EPI_ISL_13155840	Servicio Virosis Respiratorias-Departamento Virología-INEI	Instituto Nacional Enfermedades Infecciosas C.G.Malbran	Avaro M.; Baumeister E.; Benedetti E.; Campos J.; Cisterna D.; Dattero ME; De Belder D.; Haim MS.; Mallou F.; Molina V.; Perandones C.; Poklepovich T.; Pontoriero A.; Russo M.; Sanchez Loria J.; Tuduri E.
EPI_ISL_13250911	Servicio de Microbiologia Hospital Ramon y Cajal	Servicio de Microbiologia Hospital Ramon y Cajal	Galan JC; Martinez-García L.; Ponce-Alonso M
EPI_ISL_13302920, EPI_ISL_13303076, EPI_ISL_13313392, EPI_ISL_13313420, EPI_ISL_13313628, EPI_ISL_13316622, EPI_ISL_13316807	see above	Shamir Medical Center (Asaf Harofe)	Shamir Medical Center (Asaf Harofe)
EPI_ISL_13208025	Sirindhorn Hospital	Medical Genomic Centre, Medical Life Sciences Institute, Department of Medical Sciences, Ministry of Public Health, Thailand	Archawin Rojananiwat; Jirapha Pakdee; Naphatcha Thawong; Natthakul Bunneang; Nuanjun Wichukhinda; Pilailuk Akkapaiboon Okada; Pundharika Piboonsiri; Surakameth Mahasirimongkol; Waritta Sawaengdee
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EPI_ISL_13273973	SuperCare Medical Services, Inc	Research Institute for Tropical Medicine	Alexander Sadiasa; Amalea Dulcene D. Nicolasora; Angela Kae T. Chang; Anne Pauline A. Alpino; Ardiane Ysabelle M. Dolor; Catalino S. Demetria; Charalyn Babida; Claudette Lee S. Navarro; Criselda T. Bautista; Dodge R. Lim; Francisco Gerardo M. Polotan; Gerald Ivan S. Sotelo; Jefferson Earl J. Halog; Joseph Hughes; Joy Mariette L. Parayray; Katie Hampson; Kirstyn Brunker; Lei Lanna M. Dancel; Ma. Angelica A. Tujan; Ma. Ricci R. Gomez; Mayan Uy-Lumandas; Othoniel Jan T. Onza; Simon Daldry; Timothy John R. Dizon; Vina Lea F. Arguelles; Yao-Tsun Li
EPI_ISL_13184257	Swedish national genomic surveillance program of SARS-CoV-2	The Public Health Agency of Sweden	Alma Brolund; Emmi Andersson; Maria Lind Karlberg; Swedish national genomic surveillance program of SARS-CoV-2
EPI_ISL_13313928	Switch Health	National Microbiology Laboratory (NML)	Adrian Zetner; Anna Majer; Anneliese Landgraff; CanCOGEN's metadata curation team; Carmen Lia Murali; Chanchal Yadav; Connor Chato; Darian Hole; Elsie Grudeski; Emily Haidl; Gary Van Domselaar; Gordon Jolly; Grace Seo; Jeff Tuff; Jennifer Tanner; Katherine Eaton; Kirsten Biggar; Kristyn Burak; Madison Chapel; Morag Graham; Natalie Knox; Nathalie Bastien; Philip Mabon; Public Health Agency of Canada's CCGP and Scientific Informatics Services team; Rhiannon Huzarewicz; Russell Mandes; Shari Tyson; Timothy Booth; Yan Li
EPI_ISL_13029236, EPI_ISL_13029256, EPI_ISL_13066210, EPI_ISL_13133837, EPI_ISL_13133857, EPI_ISL_13133875, EPI_ISL_13133904	see above	Synlab Eesti OÜ	1. Laboratory of Communicable Diseases (Estonia); 2. Eurofins Genomics Europe Sequencing GmbH
EPI_ISL_13369821	Temporary Specimen Collection Centre at the AsiaWorld-Expo	Hong Kong Department of Health	Alan K.L. Tsang; Edman T.K. Lam; Ken H.L. Ng; Patricia K. L. Leung; Rickjason C.W. Chan
EPI_ISL_12954411	The Luke Commission Hospital	National Institute for Communicable Diseases of the National Health Laboratory Service	Amoako DG; Bhiman JN; Everatt J; Ismail A; Kekana D; Mahlangu B; Maphalala G; Mnguni A; Mohale T; Ntuli N; Scheepers C; Wolter N
EPI_ISL_13156680	Tokyo Metropolitan Institute of Public Health	Tokyo Metropolitan Institute of Public Health	Ai Suzuki; Akane Negishi; Arisa Amano; Fumi Kasuya; Hirofumi Miyake; Kenji Sadamasu; Kenshiro Kuroki; Mami Nagashima; Maya Isogai; Ryota Kumagai; Sachiko Harada; Takushi Fujiwara
EPI_ISL_13369104	ULS Castelo Branco	Instituto Nacional de Saude Doutor Ricardo Jorge (INSA)	Borges et al
EPI_ISL_13345811, EPI_ISL_13345825, EPI_ISL_13345829, EPI_ISL_13345841	Unilabs Eskilstuna Laboratorium	Unilabs Eskilstuna Laboratorium	Emma Arvidsson
EPI_ISL_13372013, EPI_ISL_13372032, EPI_ISL_13372036	University Hospital Hradec Kralove	University Hospital Hradec Kralove	Helena Parova; Lenka Rysava; Marketá Gancarcikova; Monika Berankova
EPI_ISL_13202480, EPI_ISL_13202485	University Hospital Ostrava	University Hospital Ostrava	Chorzempa; Matějová; Špulerová
EPI_ISL_13202591	University Hospitals of Geneva, Laboratory of Virology	HUG, Laboratory of Virology and the Health2030 Genome Center	Aline Mamin; Ana Rita Goncalves; Cedric Howald; Deborah Penet; Francisco Perez; Henri Pegeot; Ioannis Xenarios; Keith Harshman; Laurent Kaiser; Lorenzo Cerutti; Melyssa Elies; Samuel Cordey
EPI_ISL_13286168	Utah Public Health Laboratory	Utah Public Health Laboratory	Erin L. Young; John Arnn; Kelly F. Oakeson; Olinto Linares-Perdomo; Pooja Gupta; Tom Iverson
EPI_ISL_13343324, EPI_ISL_13343396, EPI_ISL_13343462	Viollier AG	Department of Biosystems Science and Engineering, ETH Zürich	Andrea Patrizia Salzmann; Chaoran Chen; Christian Beisel; Christiane Beckmann; Christoph Noppen; David Dreifuss; Elodie Burcklen; Franziska Singer; Henriette Kurth; Ina Nissen; Ivan Topolsky; Kim Philipp Jablonski; Lara Fuhrmann; Louis du Plessis; Matteo Carrara; Maurice Redondo; Mirjam Feldkamp; Natascha Santacroce; Niko Beerenwinkel; Olivier Kobel; Pelin Burcak Icer; Rebecca Denes; Sarah Nadeau; Sebastian Kurscheid; Shuqing Yu; Tanja Stadler; Tobias Schär
EPI_ISL_13228472	ZNPPL	CHAZ Laboratory	CHAZ Lab Staff; Chipango. C; Muyombo. A; Sandala. D; Shempela. D; Sikilama. J