

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_2547439, EPI_ISL_2547440, EPI_ISL_2547441, EPI_ISL_2547444, EPI_ISL_2547445, EPI_ISL_2547447, EPI_ISL_2547448, EPI_ISL_2547450, EPI_ISL_2547451, EPI_ISL_2547459, EPI_ISL_2547460, EPI_ISL_2547461, EPI_ISL_2547464, EPI_ISL_2547465, EPI_ISL_2547466, EPI_ISL_2547467, EPI_ISL_2547468, EPI_ISL_2547469, EPI_ISL_2547470, EPI_ISL_2547471, EPI_ISL_2547474, EPI_ISL_2547485, EPI_ISL_2547486, EPI_ISL_2547490, EPI_ISL_2547491, EPI_ISL_2547494, EPI_ISL_2547495, EPI_ISL_2547496, EPI_ISL_2547497, EPI_ISL_2547498, EPI_ISL_2547499, EPI_ISL_2547501, EPI_ISL_2547502, EPI_ISL_2547503, EPI_ISL_2547505, EPI_ISL_2547506, EPI_ISL_2547507, EPI_ISL_2547509, EPI_ISL_2547511, EPI_ISL_2547512, EPI_ISL_2547513, EPI_ISL_2547515, EPI_ISL_2547516, EPI_ISL_2547517,			

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EPI_ISL_2570805, EPI_ISL_2570806	Indrapura Field Hospital Surabaya	Institute of Tropical Disease, Universitas Airlangga	Alidse M Nastri; Febria Rachmanita; Gatot Soegiarto; Herlin Ferliana; Jezzy R Dewantari; Kazufumi Shimizu; Krisnodo Rahardjo; Laksmi Wulandari; Maria I Lusida; Resti Yudhawati; Rima R Prasetya; Soetjipto; Yasuko Mori
EPI_ISL_2557455, EPI_ISL_2557467, EPI_ISL_2557507, EPI_ISL_2557509	Infinity Biologix	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Adrian Paskey; Benjamin Rambo-Martin; Chirayu Goswami; Christian Bixby; Christopher Gulvick; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dhvani Batra; Duncan MacCannell; Jason Caravas; Jonathan Schultz; Kara Moser; Matthew Schmerer; Peter W. Cook; Robin Grimwood; Russ Hager; Scott Sammons; Shatavia Morrison; Yihe Wang; Yvette Unarumhi

EPI_ISL_2557616 EPI_ISL_2535369, EPI_ISL_2535411, EPI_ISL_2535417, EPI_ISL_2535433	Institute of Virology, Medical Center, University of Freiburg, Freiburg, Germany	Institute of Virology, Clinical Virus Genomics, Medical Center, University of Freiburg, Freiburg, Germany	Hajo Grundmann; Jonas Fuchs; Lena Jaki; Lisa Kern; Marcus Panning; Sandra Reuter
EPI_ISL_2536130 EPI_ISL_2536104 EPI_ISL_2550714 EPI_ISL_2550731	Instituto Nacional de Saude (INSA) Joaquim Chaves Saude Johor Bahru Public Health Laboratory	Instituto Nacional de Saude (INSA) Instituto Nacional de Saude (INSA) Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Borges et al Borges et al Aizian MA; Kamel K; Mohd Zawawi Z; Ramly N; Robert F; Suppiah J; Thayan R
EPI_ISL_2544686, EPI_ISL_2544687, EPI_ISL_2544688, EPI_ISL_2544690	Kanagawa Prefectural Institute of Public Health	Kanagawa Prefectural Institute of Public Health	Itsumi Toyokura; Junichi Sakuragi; Kentaro Itokawa; Makiko Kondo; Makoto Kuroda; Masanori Hashino; Rieko Suzuki; Rina Tanaka; Sumi Watanabe; Takako Sano; Takayuki Hishiki; Tomohiko Takasaki; Tsuyoshi Sekizuka
EPI_ISL_2558700, EPI_ISL_2558703, EPI_ISL_2558704	Kansas Health and Environmental Lab	Kansas Health and Environmental Lab	Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam
EPI_ISL_2567490 EPI_ISL_2567491, EPI_ISL_2567492, EPI_ISL_2567493, EPI_ISL_2567494, EPI_ISL_2567495	LABORATOIRE FORTE BIO ST PAUL LES DAX	CNR Virus des Infections Respiratoires - France SUD	Antonin Bal; Bruno Lina; Bruno Simon; Gregory Destras; Gwendolynne Burfin; Hadrien Regue; Laurence Josset; Martine Valette; Quentin Semanas
EPI_ISL_2536122, EPI_ISL_2536123, EPI_ISL_2536124, EPI_ISL_2536125, EPI_ISL_2536126, EPI_ISL_2536127, EPI_ISL_2536128, EPI_ISL_2536129	see above LAC UCoimbra LBM ALPHABIO, Marseille LBM UNIBIO VALENTIN	Instituto Nacional de Saude (INSA) LBM ALPHABIO, Marseille CNR Virus des Infections Respiratoires - France SUD	Borges et al Vincent GARCIA Antonin Bal; Bruno Lina; Bruno Simon; Gregory Destras; Gwendolynne Burfin; Hadrien Regue; Laurence Josset; Martine Valette; Quentin Semanas
EPI_ISL_2545652, EPI_ISL_2545663	LHUB-ULB	Labo Klinische Biologie, UZA	Basil Britto Xavier; Christine Lammens; Herman Goossens; Jasmine Coppens; Marie Le Mercier; Veerle Matheussen
EPI_ISL_2536105, EPI_ISL_2536106, EPI_ISL_2536107	Labeto - CAB - Leiria	Instituto Nacional de Saude (INSA)	Borges et al
EPI_ISL_2535265	Labo Analyses Med	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebare; Camille Cape; Christophe Malabat; Corinne Maufrais; Etienne Simon-Lorière; Frédéric Lemoine; Hugues Leroy; Louise Lefrançois; Marion Barbet; Maud Vanpeene; Méline Bizard; Sylvie Behilli; Sylvie Van der Werf; Vincent Enouf
EPI_ISL_2537480 EPI_ISL_2536199, EPI_ISL_2536207 EPI_ISL_2562268	Laboratori de Referencia de Catalunya Laboratorio HUI -Azienda Ospedaliera Universitaria - AOU - Cagliari Laboratorio de Referencial Nacional de Virus Respiratorios	Laboratori de Referencia de Catalunya Laboratorio SPOKE Biologia Molecolare -Azienda Ospedaliero Universitaria - AOU - Cagliari Laboratorio de Referencial Nacional de Virus Respiratorios	Bellissimo B.; Canal M.; Hernandez JJ.; Padilla E.; Ramirez A.; Vilas A. Alessandra Scano; Ferdinando Coghe; Germano Orrù; Miriam Loddo; Riccardo Cappai; Sara Fais; Valentina Medda Carlos Padilla Rojas; Henri Bailon Calderon; Iris Silva Molina; Joseph Huayra Niquen; Lely Solari Zepa; Luis Barcena Flores; Marco Galarza Perez; Nancy Rojas Serrano; Omar Caceres Rey; Orson Mestanza Millones; Priscilla Lope Pari; Sandra Morales Ruiz; Steve Acedo Lazo; Veronica Hurtado Vela Martinetti Lucchini Gladys; Valeria Spina
EPI_ISL_2544220, EPI_ISL_2544231, EPI_ISL_2544246 EPI_ISL_2566903	Laboratorio di Microbiologia Laboratorium Mikrobiologiczne RSS w Grudziądzu	Laboratorio di Microbiologia 1. National Institute of Public Health - National Institute of Hygiene; 2. Eurofins Genomics Europe Sequencing GmbH	ECDC COVID-19 WGS support team; Eurofins Genomics Europe Sequencing Team; Gierczyński Rafał; Sadkowska-Todys Małgorzata; Wolkowicz Tomasz; Zacharczuk Katarzyna
EPI_ISL_2549741	Labuan Hospital	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Aizian MA; Kamel K; Mohd Zawawi Z; Ramly N; Robert F; Suppiah J; Thayan R
EPI_ISL_2537496, EPI_ISL_2537500, EPI_ISL_2537502, EPI_ISL_2537503, EPI_ISL_2537505, EPI_ISL_2537508, EPI_ISL_2537512, EPI_ISL_2537519, EPI_ISL_2537523, EPI_ISL_2537527, EPI_ISL_2537533, EPI_ISL_2537536, EPI_ISL_2537538, EPI_ISL_2537542, EPI_ISL_2537543, EPI_ISL_2537549, EPI_ISL_2537550, EPI_ISL_2537558, EPI_ISL_2537559, EPI_ISL_2537560, EPI_ISL_2537564, EPI_ISL_2537569, EPI_ISL_2537570, EPI_ISL_2537583, EPI_ISL_2537588, EPI_ISL_2537591, EPI_ISL_2537600, EPI_ISL_2537602, EPI_ISL_2537625, EPI_ISL_2537628, EPI_ISL_2537629, EPI_ISL_2537634, EPI_ISL_2537645, EPI_ISL_2537646, EPI_ISL_2537655, EPI_ISL_2537656, EPI_ISL_2537660, EPI_ISL_2537662, EPI_ISL_2537663, EPI_ISL_2537671, EPI_ISL_2537675, EPI_ISL_2537678, EPI_ISL_2537682, EPI_ISL_2537684, EPI_ISL_2537691, EPI_ISL_2537698, EPI_ISL_2537699, EPI_ISL_2537707, EPI_ISL_2537709, EPI_ISL_2537710, EPI_ISL_2537711, EPI_ISL_2537712, EPI_ISL_2537716, EPI_ISL_2537719, EPI_ISL_2537721, EPI_ISL_2537722, EPI_ISL_2537730, EPI_ISL_2537732, 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[illegible]

see above 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; Jeffrey Barrett; John Sillitoe on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Mairead Hyland; Roberto Amato; Sonia Gonçalves; The J. Ingham Lab in Alderley Park and Alex Almering

see above Lighthouse Lab in Glasgow Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK) 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

see above

Lighthouse Lab in Milton Keynes

Wellcome Sanger Institute for the COVID-19 Genomics UK (COG-UK)

Consortium

Cordelia Langford; David K. Jackson; Dominik Kwiatkowski; Ewan Harrison; Ian Johnston; Jeffrey Barrett; John Silittle on behalf of the Wellcome Sanger Institute COVID-19 Surveillance Team; Roberto Amato; Sonia Gonçalves; The Lighthouse Lab in Milton Keynes and Alex Alderton

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see above	Michigan Department of Health and Human Services, Bureau of Laboratories	Michigan Department of Health and Human Services, Bureau of Laboratories	Blankenship HM; Riner D; Soehnlen MK
EPI_ISL_2565876	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_2537356, EPI_ISL_2537358, EPI_ISL_2537373, EPI_ISL_2537379, EPI_ISL_2537383, EPI_ISL_2537384	Montana Public Health Laboratory	Montana Public Health Laboratory	Carrie Biskupiak; Deborah Gibson; Joy Ritter; Michael Dills; Michelle Mozer
EPI_ISL_2543891, EPI_ISL_2543892, EPI_ISL_2543893, EPI_ISL_2543894, EPI_ISL_2543895, EPI_ISL_2543896, EPI_ISL_2543897, EPI_ISL_2543898, EPI_ISL_2543900, EPI_ISL_2543901, EPI_ISL_2543902, EPI_ISL_2543903, EPI_ISL_2543904, EPI_ISL_2543905, EPI_ISL_2543906, EPI_ISL_2543907, EPI_ISL_2543908, EPI_ISL_2543909, EPI_ISL_2543910, EPI_ISL_2543911, EPI_ISL_2543912, EPI_ISL_2543913, EPI_ISL_2543914, EPI_ISL_2543915, EPI_ISL_2548222			

EPI_ISL_2544374, EPI_ISL_2544422 EPI_ISL_2549198, EPI_ISL_2549199	Virology Department, Central Health Laboratory	The Francis Crick Institute	Bahadoor BS; Crawford M; Daniels RS; Goldstone R; Harvey R; Manraj SS; Nicod J; Patel H; Ramuth M; Sonoo J
EPI_ISL_2521047, EPI_ISL_2521048, EPI_ISL_2521050, EPI_ISL_2521051, EPI_ISL_2521052, EPI_ISL_2521053, EPI_ISL_2521055, EPI_ISL_2521056, EPI_ISL_2521058, EPI_ISL_2521066, EPI_ISL_2521067, EPI_ISL_2521100, EPI_ISL_2521101, EPI_ISL_2521103, EPI_ISL_2521104, EPI_ISL_2521105, EPI_ISL_2521107, EPI_ISL_2521108	see above	Virology Department, Sheffield Teaching Hospitals NHS Foundation Trust/Department of Infection, Immunity and Cardiovascular Disease, The Medical School, University of Sheffield	COVID-19 Genomics UK (COG-UK) Consortium
EPI_ISL_2566734	WSSE Gorzów Wilkp.	1. National Institute of Public Health - National Institute of Hygiene; 2. Eurofins Genomics Europe Sequencing GmbH	ECDC COVID-19 WGS support team; Eurofins Genomics Europe Sequencing Team; Gierczyński Rafał; Sadkowska-Todys Małgorzata; Wołkiewicz Tomasz; Zacharczuk Katarzyna
EPI_ISL_2557049	Washington State Department of Health Public Health Laboratories	Washington State Department of Health Public Health Laboratories	Avi Singh; Darren Lucas; Denny Russell; Drew MacKellar; Geoff Melly; Hannah Gray; Joenice Gonzalez; JohnAric Peterson; Philip Dykema; Rebecca Cao; Vanessa De Los Santos
EPI_ISL_2558695, EPI_ISL_2558696, EPI_ISL_2558698	Wichita State University Molecular Diagnostic Lab	Kansas Health and Environmental Lab	Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam
EPI_ISL_2561913	Willis-Knighton Medical Center Hospital Laboratory	LSUHS Emerging Viral Threat Laboratory	Alexander Mijalis; Andrew D. Yurochko; April N. Johnson; Christopher G. Kevil; Gregory L. Ware; Jennifer L. Carroll; Jeremy P. Kamil; John A. Vanchiere; Joseph A. Bocchini; Lorie M. Atkins; Maarten Van Diest; Rona S. Scott
EPI_ISL_2558139, EPI_ISL_2558195, EPI_ISL_2558352, EPI_ISL_2558380, EPI_ISL_2558570, EPI_ISL_2558595, EPI_ISL_2558639, EPI_ISL_2558644, EPI_ISL_2558667	see above	Wisconsin State Laboratory of Hygiene Communicable Disease Division	Wisconsin State Laboratory of Hygiene Communicable Disease Division
EPI_ISL_2559110, EPI_ISL_2559115, EPI_ISL_2559122, EPI_ISL_2566245	Wyoming Public Health Laboratory	Wyoming Public Health Laboratory	Ashley Norberg; Brian Dominguez; Cari Sloma; Channing Weber; Chayse Rowley; Elliot Thomasson; Jim Mildemberger; Marley Goetz; Robert Petit; Sam Britz; Taylor Fearing; and Rob Christensen
EPI_ISL_2543750	Zakład Mikrobiologii Klinicznej WSZ im dr R. Ostrzyckiego w Koninie	1. National Institute of Public Health - National Institute of Hygiene, Warsaw, Poland 2. Biobank Lab, University of Lodz 3. Laboratory of Respiratory Viruses, Teaching and Clinical Center of the Medical University of Lodz	Dominik Strapagiel; Izabela Dróżdż; Jakub Lach; Katarzyna Zacharczuk; Klaudyna Królikowska; Maciej Borowiec; Magdalena Nowakowska; Magdalena Traczyk-Borszyńska; Marcin Słomka; Marta Sobalska-Kwapis; Małgorzata Sadkowska-Todys; Tomasz Płoszaj; Tomasz Wołkiewicz
EPI_ISL_2561981, EPI_ISL_2561982, EPI_ISL_2561983, EPI_ISL_2561993, EPI_ISL_2561997, EPI_ISL_2561998, EPI_ISL_2561999, EPI_ISL_2562003, EPI_ISL_2562006, EPI_ISL_2562010, EPI_ISL_2562012	see above	cerballiance-IDF	Cerba lab
			Aude Lessenne; Bénédicte Roquebert; Emmanuel Lecorche; Kader Merah; Laura Verdurme; Patrice Herisson; Sabine Trombert-Paolantoni; Stéphanie Haim-Boukobza; Thierry Collin