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

Authors are sorted alphabetically.

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Accession ID	Originating Laboratory	Submitting Laboratory	Authors
EPI_ISL_2689970, EPI_ISL_2689972	"AR Dept. of Health-PHL, Molecular Diagnostics"	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook; Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi
EPI_ISL_2693902	A. Krumbholz, Labor Dr. Krause und Kollegen MVZ GmbH, Kiel	Charité Universitätsmedizin Berlin, Institute of Virology	Barbara Mühlemann; Christian Drosten; Julia Schneider; Julia Tesch; Jörn Beheim-Schwarzbach; Talitha Veith; Terry Jones; Tobias Bleicker; Victor M Corman
EPI_ISL_2721223, EPI_ISL_2721230	A.S.L. CN1	Fondazione del Piemonte per l'Oncologia IRCCS	Antonino Sottile; Giorgio Giardina; Paola Marino; Silvia Brossa
EPI_ISL_2721281, EPI ISL 2721283	A.S.L. CN2	Fondazione del Piemonte per l'Oncologia IRCCS	Antonino Sottile; Giorgio Giardina; Paola Marino; Silvia Brossa
EPI_ISL_2721288	A.S.L. TO4	Fondazione del Piemonte per l'Oncologia IRCCS	Antonino Sottile; Giorgio Giardina; Paola Marino; Silvia Brossa
EPI_ISL_2721182	A.S.L. TO5	Fondazione del Piemonte per l'Oncologia IRCCS	Antonino Sottile; Giorgio Giardina; Paola Marino; Silvia Brossa
EPI_ISL_2695258	ABC Algarve	Instituto Nacional de Saude (INSA)	Borges et al
EPI_ISL_2695225	ABC Algarve	Instituto Nacional de Saude (INSA) and Institute of Biomedicine (iBiMed), Universidade de Aveiro	Borges et al
EPI_ISL_2660721, E EPI_ISL_2660744, E EPI_ISL_2660774, E	P. ISL_2660722, EPI_ISL_2660723, EPI_ISL_2660724, EPI_ISL_2660725, EP PI_ISL_2660745, EPI_ISL_2660746, EPI_ISL_2660748, EPI_ISL_2660749, E PI_ISL_2660775, EPI_ISL_2660776, EPI_ISL_2660777, EPI_ISL_2660778, E	PI_ISL_2660703, EPI_ISL_2660704, EP PI_ISL_2660726, EPI_ISL_2660727, EP PI_ISL_2660750, EPI_ISL_2660751, EP PI_ISL_2660779, EPI_ISL_2660780, EP	ISL_2660706, EPI_ISL_2660707, EPI_ISL_2660708, EPI_ISL_2660719, EPI_ISL_2660710, EPI_ISL_2660711, EPI_ISL_2660712, EPI_ISL_2660714, EPI_ISL_2660715, EPI_ISL_2660716, EPI_ISL_2660717, EPI_ISL_2660717, EPI_ISL_2660713, EPI_ISL_
see above	AP SSO	CSIR-Centre for Cellular and Molecular Biology-INSACOG	; Amareshwar Vodapalli; Ara Sreenivas; Archana Bharadwaj Siva; B Himasri; Divya Tej Sowpati; Karthik Bharadwaj Tallapaka; Lamuk Zaveri; Onkar Kulkarni; Payel Mukherjee; Priya Nurkurthy; Rakesh K Mishra; Shreekant Verma; Sofia Banu; Sumedha Avadhanula; Tulasi Nagabandi; Valli Nagalakshmi Undamatla; Vidhyadhari Methuku
EPI_ISL_2689604, EPI_ISL_2754913	AR Dept. of Health-PHL, Molecular Diagnostics	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Adam Retchless; Anna Kelleher; Anna Uehara; Brian Lynch; Clinton R. Paden; Dhwani Batra; Haibin Wang; Han Jia Justin Ng; Jasmine Padilla; Jing Zhang; Justin Lee; Krista Queen; Mark Burroughs; Mili Sheth; Morgan Davis; Peter Cook; Rachel Marine; Sarah Nobles; Suxiang Tong; Tara Coalter; Yan Li; Ying Tao
EPI_ISL_2695465, E	PI_ISL_2695466, EPI_ISL_2695467, EPI_ISL_2695468, EPI_ISL_2695469, E PI_ISL_2695501, EPI_ISL_2695502, EPI_ISL_2695503	PI_ISL_2695471, EPI_ISL_2695474, EP	I ISL 2695448, EPI ISL 2695450, EPI ISL 2695451, EPI ISL 2695452, EPI ISL 2695453, EPI ISL 2695453, EPI ISL 26954546, EPI ISL 2695455, EPI ISL 2695456, EPI ISL 2695458, EPI ISL 2695460, EPI ISL 2695461, EPI ISL 2695462, EPI ISL 26954646, EPI ISL 26954646, EPI ISL 26954646, EPI ISL 26954646, EPI ISL 2695476, EPI ISL 2695476, EPI ISL 2695490, EPI ISL 2695496, EPI
see above EPI_ISL_2650431	ARS Algarve - Laboratorio Laura Ayres ASL TO5	Instituto Nacional de Saude (INSA) Fondazione del Piemonte per	Borges et al Antonino Sottile; Giorgio Giardina; Paola Marino; Silvia Brossa
EPI_ISL_2676774	ASTRALAB TASSIGNY	l'Oncologia IRCCS CNR Virus des Infections	Antonin Bal; Bruno Lina; Gregory Destras; Gwendolyne Burfin; Hadrien Regue; Laurence Josset; Martine Valette; Quentin Semanas
EPI_ISL_2698321	AULSS 6 Euganea	Respiratoires - France SUD Istituto Zooprofilattico	Adelaide Milani; Alessia Schivo; Alice Fusaro; Ambra Pastori; Annalisa Salviato; Antonia Ricci; Calogero Terregino; Edoardo Giussani; Elisa Palumbo; Erika Giorgia Quaranta; Isabella Monne; Luca Tassoni
EPI_ISL_2676552	AX BIO OCEAN	Sperimentale delle Venezie CNR Virus des Infections	Antonin Bal; Bruno Lina; Bruno Simon; Gregory Destras; Gwendolyne Burfin; Hadrien Regue; Laurence Josset; Martine Valette; Quentin Semanas
EPI_ISL_2652162	AZ Klina	Respiratoires - France SUD AZ Klina	Carl Vael - Lynsey Berckmans
EPI_ISL_2686393	AZ Sint-Jan Brugge-Oostende AV	AZ Sint Jan	Jorn Hellemans; Laurien Hoornaert; Marie Madeleine Chabert-Consen; Marijke Reynders; Patrick Descheemaeker; Thomas Van Landschoot
EPI_ISL_2709603	AZ Sint-Lucas Gent	AZ Sint-Lucas Gent	Charlotte Verfaillie; Elike Vanlaere; Jos Van Acker; Klara De Rauw
EPI_ISL_2727323	AZDelta	AZ Delta Medical Laboratories in Roeselare, Belgium	Dieter De Smet; Geert Martens; Merijn Vanhee; on behalf of AZ Delta COVID-19 Genomics core (member of Genomic surveillance of SARS-CoV-2 in Belgium network)
EPI_ISL_2687023, E EPI_ISL_2687152, E EPI_ISL_2687273, E EPI_ISL_2687371, E EPI_ISL_2687456, E	PI, ISL, 2687025, EPI, ISL, 2687026, EPI, ISL, 2687037, EPI, ISL, 2687056, E PI, ISL, 2687135, EPI, ISL, 2687155, EPI, ISL, 2687151, EPI, ISL, 2687151, EPI, PI, ISL, 2687275, EPI, ISL, 2687294, EPI, ISL, 2687311, EPI, ISL, 2687315, EPI, PI, ISL, 2687375, EPI, ISL, 2687377, EPI, ISL, 2687389, EPI, ISL, 2687385, EPI, PI, ISL, 2687458, EPI, ISL, 2687460, EPI, ISL, 2687467, EPI, ISL, 268746, EPI, ISL, 268746, EPI, ISL, 268746, EPI, ISL, 2687540, EPI,	PI_ISL_2687066, EPI_ISL_2687067, EP PI_ISL_2687164, EPI_ISL_2687166, EP PI_ISL_2687313, EPI_ISL_2687317, EP PI_ISL_2687400, EPI_ISL_2687406, EP PI_ISL_2687470, EPI_ISL_2687471, EP	ISL_2686918, EP  ISL_2686936, EP  ISL_2686946, EP  ISL_2686946, EP  ISL_2686948, EP  ISL_2686952, EP  ISL_2686952, EP  ISL_2686972, EP  ISL_2686977, EP  ISL_2686978, EP  ISL_2686978, EP  ISL_2686978, EP  ISL_2686978, EP  ISL_2687104, EP  ISL_
see above	Aegis Sciences Corporation	Centers for Disease Control and Prevention Division of Viral Diseases, Pathogen Discovery	Adrian Paskey; Alec Vest; Benjamin Rambo-Martin; Christopher Gulvick; Clinton R. Paden; Cyndi Clark; Dakota Howard; Darlene Wagner; Dhwani Batra; Dillon Nall; Duncan MacCannell; Ethan Sanders; Holly Houdeshell; Jason Caravas; Kara Moser; Matthew Hardison; Matthew Schmerer; Ola Kvalvaag; Patrick Campbell; Peter W. Cook; Rob Case; Scott Sammons; Shatavia Morrison; Shatun Westlund; Vikramsinha Ghorpade; Yvette Unoarumhi
EPI_ISL_2694881, EPI_ISL_2694882, EPI_ISL_2694883, EPI_ISL_2694884, EPI_ISL_2694885, EPI_ISL_2694886	Affidea	Instituto Nacional de Saude (INSA)	Borges et al
EPI_ISL_2673752	Akershus University Hospital, Department for Microbiology and Infectious Disease Control	Health, Department of Virology	Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Nevjen; Rasmus Riis Kopperud
EPI_ISL_2534586, EPI_ISL_2534587, EPI_ISL_2695791, EPI_ISL_2695792	Area of Virology, Serology and Virology Division (SAVID), New South Wales Health Pathology Randwick	Virology Research Laboratory; Area of Virology, Serology and Virology Division (SAViD), New South Wales Health Pathology Randwick	Au, J.; Bull, R.; Deveson, I.; Foster, C.; Rawlinson, W.; Ruiz Silva, M.; Van Hal, S.
EPI_ISL_2650134, EPI_ISL_2650143, EPI_ISL_2650146, EPI_ISL_2716404, EPI_ISL_2754296	Arizona State Public Health Laboratory	Arizona State Public Health Laboratory	Jessica Escobar; Katherine Fullerton; Linda Getsinger; Matthew Contursi; Nobuko Fukushima; Stacy White; Trung Huynh; Victor Waddell
EPI_ISL_2690345, EPI_ISL_2690349, EPI_ISL_2690362, EPI_ISL_2690384, EPI_ISL_2690399	Arizona State University	Arizona State University	Efrem S. Lim; Joshua LaBaer; Joy M. Blain; LaRinda A. Holland; Matthew F. Smith; Nicholas J. Mellor; Peter T. Skidmore; Rabia Maqsood; Valerie Harris; Vel Murugan
EPI_ISL_2692454, E EPI_ISL_2736336	PI_ISL_2692468, EPI_ISL_2715015, EPI_ISL_2715020, EPI_ISL_2715046, E	PI_ISL_2715053, EPI_ISL_2715057, EP	1 SL_2715061, EPI_SL_2715062, EPI_SL_2715065, EPI_SL_2715201, EPI_SL_2715212, EPI_SL_2715214, EPI_SL_2736253, EPI_SL_2736259, EPI_SL_2736285, EPI_SL_2736287, EPI_SL_2736301, EPI_SL_2736304, EPI_SL_2736310, EPI_SL_2736320, EPI_SL_2736320, EPI_SL_2736330, EPI_SL_2736320, EPI_SL_2736220,
see above	Atlas Genomics	Seattle Flu Study	Amanda Adler; Barry R. Lutz; Benjamin Pelle; Brian Hiatt; Caitlin R. Wolf; Chris D. Frazar; Deborah A. Nickerson; Elisabeth Brandstetter; Erica Ryke; Geoff Melly; Helen Y. Chu; Janet A. Englund; Jay Shendure; Jover Lee; Kairsten Fay; Kirsten Lacombe; Lea M. Starita; Mark J. Rieder; Matthew Richardson; Matthew Thompson; Melissa Truong; Michael Boeckh; Michael Famulare; Misja Ilcisin; Peter D. Han; Philip Dykema; Romesh Gautom; Scott Lindquist; Thomas R. Sibley; Trevor Bedford
EDI ISI 2657378 E	DI ISI 2657380 EDI ISI 2657383 EDI ISI 2657384 EDI ISI 2657385 E	DI ISI 2657386 EDI ISI 2657388 ED	II SI 267380 EDI SI 2673700 EDI SI 2673703 EDI SI 267304 EDI SI 267304 EDI SI 267307 E

Research Center for Molecular Medicine of the Austrian Academy of Sciences

see above Austrian Agency for Health and Food Safety (AGES) Bergthaler laboratory, CeMM Andreas Bergthaler: Anna Schedl: Bekir Erguner: Benedikt Agerer: Christoph Bock: Fabian Amman; Ian Laine: Lukas Endler: Maelle Le Moing: Martin Senekowitsch: Matthew Thornton: Michael Schuster: Petr Triska: Thomas Penz

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coo ahovo Azienda Sanitaria dell'Alto Adige - Laboratorio Aziendale di Microbiologia — Azienda Sanitaria dell'Alto Adige

Ancora M; Calistri P; Cammà C; Curini V; Delli Compagni E; Di Domenico M; Di Pasquale A; Lorusso A; Mangone I; Marcacci M; Pistoni E; Proietti A; Puglia I; Rinaldi A; Savini G; Scialabba S Istituto Zooprofilattico

Irene Bianconi

Borges et al

Rornes et al

EPI\_ISL\_2686077 Sperimentale dell'Abruzzo e Molise "G. Caporale

Azienda USI Umbria 2

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INSACOG-KA NIMHANS Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Pramada Prasad; Sony Sharma; V Ravi

EPI\_SL\_2655690, EPI\_SL\_26555803, EPI\_SL\_2655803, EPI\_SL\_2655902, EPI\_SL\_2655904, EPI\_SL\_2655904, EPI\_SL\_2655044, EPI\_SL\_2655044, EPI\_SL\_2655044, EPI\_SL\_2655044, EPI\_SL\_265604, EPI\_SL\_265504, EPI\_SL\_265604, EPI\_SL\_265 EPI ISL 2656603, EPI ISL 2656637, EPI ISL 2719043, EPI IS EPI ISL 2719883, EPI ISL 2719897, EPI ISL 2719997, EPI ISL 2719995, EPI ISL 2719995, EPI ISL 2719993, EPI ISL 2719998, EPI IS EPI ISL 2720442, EPI ISL 2720445, EPI ISL 2720445, EPI ISL 2720445, EPI ISL 2720649, EPI ISL 2720639, EPI ISL 2720639, EPI ISL 2720639, EPI ISL 2720639, EPI ISL 2720738, EPI IS EPI ISL 2721428, EPI ISL 2721429, EPI ISL 2721429, EPI ISL 2721448, EPI ISL 2721448, EPI ISL 2721514, EPI ISL 2721514, EPI ISL 2721731, EPI IS

BCCDC Public Health Laboratory BCCDC Public Health Laboratory Ana Pacagnella; Corrinne Ng; Dan Fornika; John Tyson; Kim Macdonald; Kimia Kamelian; Linda Hoang; Loretta Janz; Mel Krajden; Prystajecky Natalie; Robert Azana; Shannon Russell

EPI\_ISL\_2724287, EPI\_ISL\_2724289, EPI\_ISL\_2724290, EPI\_ISL\_2724291, EPI\_ISL\_2724297, EPI\_ISL\_2724307, EPI\_ISL\_2724301, EPI\_ISL\_2724302, EPI\_ISL\_2724303, EPI\_ISL\_2724306, EPI\_ISL\_2724309, EPI\_ISL\_2724311, EPI\_ISL\_2724312, EPI\_ISL\_2724313

inStem NCRS = INSACOG Ilma Ramakrishnan Dasaradhi Palakodeti Aswin SaiNarain see ahove Rangalore Rantist Hospital EPI\_ISL\_2705483, Rarts Health NHS Trust COVID-19 Genomics UK (COG-UK) BROAD; Beatrix; CUTINO-MOGUEL; Claire; David; Dola; HARRINGTON; KELE; KULASEGARAN-SHYLINI; Maria-Teresa; OWOYEMI; Raghavendran EPI\_ISL\_2705485, Consortium

FPI ISI 2705488

FPI ISI 2714776 CENTRUM VOOR MEDISCHE ANALYSE Labo Klinische Biologie, UZA Basil Britto Xavier: Christine Lammens: Herman Goossens: Ines Verbesselt: Jasmine Coppens: Kathleen Holemans: Marie Le Mercier: Veerle Matheeussen FPI ISI 2676565 CNR Virus des Infections CERBALLIANCE - LAMAT Antonin Bal: Bruno Lina: Bruno Simon: Gregory Destras: Gwendolyne Burfin: Hadrien Reque: Laurence Josset: Martine Valette: Quentin Semanas EPI ISL 2676568 Respiratoires - France SUD

EPI ISL 2695260, EPI ISL 2695261, EPI ISL 2695262, EPI ISL 2695263, EPI ISL 2695264, EPI ISL 2695265, EPI ISL 2695266, EPI ISL 2695268

see above CH Porto - H Sto Antonio Instituto Nacional de Saude (INSA) Borges et al FPI ISI 2695159 CH Setubal Instituto Nacional de Saude (INSA) Borges et al EPI ISL 2695160, EPI\_ISL\_2695161

FPI ISI 2695162 EPI ISL 2695163 EPI ISL 2695389 CH Tondela Viseu Instituto Nacional de Saude (INSA) EPI ISI 2695341 CHEDV Instituto Nacional de Saude (INSA)

EPI ISL 2695347 EPI\_ISL\_2695348 EPI ISL 2694927, EPI ISL 2694928, EPI ISL 2694929, EPI ISL 2694940, EPI ISL 2694930, EPI ISL 2694931, EPI ISL 2694934, EPI ISL 2694934, EPI ISL 2694935, EPI ISL 2694935, EPI ISL 2694936, EPI ISL 2694939, EPI ISL 2694940, EPI ISL 2694944, EPI ISL 2694934, EPI ISL 2694935, EPI ISL 2694936, EPI ISL 2694936, EPI ISL 2694940, EPI ISL 2694946, EPI ISL 2694936, EPI ISL 2694936, EPI ISL 2694936, EPI ISL 2694936, EPI ISL 2694940, EPI ISL 2694946, EPI ISL 2694936, EPI IS

CHLC see above Instituto Nacional de Saude (INSA) Borges et al

EPI ISL 2695290, EPI ISL 2695291, EPI ISL 2695293, EPI ISL 2695295, EPI ISL 2695295, EPI ISL 2695296, EPI ISL 2695297, EPI ISL 2695299, EPI ISL 2695300, EPI ISL 2695301, EPI ISL 2695302, EPI ISL 2695303, EPI ISL 2695303, EPI ISL 2695303, EPI ISL 2695305

see above CHTMAD Instituto Nacional de Saude (INSA) Borges et al

EPI ISL 2709249 CHU Pontchaillou CHII Pontchaillor DE TAYRAC Marie: DENOUAL Florent: ETCHEVERRY Amandine: FEBREAU Christine: GALIBERT Marie Dominique: GROLHIER Claire: IAGLINE Steven: PRONIER Charlotte: SASSI Mohamed: THIBAULT Vincent EPI ISL 2709256

EPI ISL 2695093, EPI ISL 2695094, EPI ISL 2695094, EPI ISL 2695096, EPI ISL 2695097, EPI ISL 2695107, EPI IS EPI\_ISL\_2695121, EPI\_ISL\_2695122, EPI\_ISL\_2695123

see ahove CHILLN - H Santa Maria Instituto Nacional de Saude (INSA) Rorges et al EPI ISL 2686838 CHLIV Laboratory of genomics and Claire Bertelli: Damien Iacot: Gilbert Greub: Sébastien Aeby: Trestan Pillonel

FPI ISI 2676628. CNR Virus des Infections Respiratoires - France SUD CNR Virus des Infections

Antonin Bal: Bruno Lina: Gregory Destras: Gwendolyne Burfin: Hadrien Reque: Laurence Josset: Martine Valette: Quentin Semanas

EPI ISL 2676801 Respiratoires - France SUD

EPI\_ISL\_2661097, EPI\_ISL\_2661098, EPI\_ISL\_2661098, EPI\_ISL\_26611099, EPI\_ISL\_2661109, EPI\_ISL\_26611134, EPI\_ISL\_26611165, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661169, EPI\_ISL\_2661174, EPI\_ISL\_2661169, EPI EP ISL 2661173, EP ISL 2661174, EP ISL 2661174, EP ISL 2661175, EP ISL 2661175, EP ISL 2661177, EP ISL 2661177 EP ISL 2661221, EP ISL 2661222, EP ISL 2661222, EP ISL 2661223, EP ISL 2661224, EP ISL 2661225, EP ISL 2661234, EP ISL 2661235, EP ISL 2661235, EP ISL 2661236, EP ISL 2661236 EP ISL 2661294, EP ISL 2661295, EP ISL 2661295, EP ISL 2661300, EP ISL 2661312, EP ISL 2661300, EP ISL 2661300, EP ISL 2661301, EP ISL 2661303, EP ISL 2661313, EP ISL 2661313, EP ISL 2661313, EP ISL 2661313, EP ISL 2661322, EP ISL 2661323, EP ISL 2661323, EP ISL 2661324, EP ISL 2661325, EP ISL 2661325, EP ISL 2661326, EP ISL 2661326, EP ISL 2661327, EP ISL 2661327 EPT SL 2661340, EPT SL 2661341, EPT SL 2661341, EPT SL 2661342, EPT SL 2661342, EPT SL 2661343, EPT SL 2661343, EPT SL 2661344, EPT SL 2661344 EPT ISL 2661362, EPT ISL 2661363, EPT ISL 2661364, EPT ISL 2661365, EPT ISL 2661366, EPT ISL 2661366, EPT ISL 2661366, EPT ISL 2661376, EPT ISL 2661377, EPT IS

CSIR-Centre for Cellular and Molecular Biology CSIR-Centre for Cellular and : Amareshwar Vodapalli: Ara Sreenivas; Archana Bharadwai Siva; B Himasri; Divva Tei Sowpati; Karthik Bharadwai Tallapaka; Lamuk Zaveri; Onkar Kulkarni; Pavel Mukheriee; Priva Nurkurthy; Rakesh K Mishra; Shreekant Verma; Sofia Banu; Sumedha Avadhanula; Tulasi see above Molecular Biology-INSACOG Nagabandi: Valli Nagalakshmi Undamatla: Vidhvadhari Methuku

EPI\_ISL\_2652214, Cantacuzino National Military-Medical Institute, Viral Respiratory Cantacuzino Institute Virology Carmen Cherciu: Luiza Ustea: Mihaela Lazar: Mihaela Oprea: Nicoleta Paraschiv: Sorin Dinu EPI\_ISL\_2652216, Infections Laboratory EPI\_ISL\_2652217

EPI ISL 2727568 EPI ISL 2671456 Center for Laboratory Medicine Center for Laboratory Medicine Yannick Gerth EPI\_ISL\_2671462

FPI ISI 2705575 Centers for Disease Control Ji-Rong Yang; Jung-Jung Mu; Ming-Tsan-Liu: Yu-Chi-Lin Centers for Disease Control, R.O.C. (Taiwan)

EPI ISL 2708145. EPI ISL 2708146. EPI ISL 2708146. EPI ISL 2708147. EPI ISL 2708167. EPI ISL 2708168. EPI ISL 2708169. EPI IS EPI ISL 2708174

Centre for Enzyme Innovation, University of Portsmouth / Translational COVID-19 Genomics UK (COG-UK) Adhyana Mahanama; Allyson Lloyd; Andrew Butt; Angela Beckett; Anibolina Castigador; Anna Mantzaouratou; Anoop Chauhan; Ben Macklin; Benjamin Cogger; Buddhini Samaraweera; Cassandra Malone; Christopher Fearn; Claire Thomas; Dorian Crudgington; Eleri Wilson-Research Laboratory, Portsmouth Hospitals NHS Trust / Hampshire Davies; Emanuela Pelosi; Emily Macnaughton; Helen Umpleby; Helen Umpleby; Helen Wheeler; Jacqui Prieto; Jonnie Seymour; Karen Withell; Kate Cook; Katie Loveson; Kelly Bicknell; Kevin Tucker; Kordo Saeed; Liz Sheridan; Magdalena Barrow; Matthew Harvey; Mohammed Hassan-Ibrahim; Consortium Hospitals NHS Foundation Trust / Bournemouth University / University Nathan Moore; Nick Cortes; Rachael Jeremiah; Robert Impey; Salman Goudarzi; Samirakhon Raupova; Samuel Robson; Sarah Buchan; Sarah Jeremiah; Sarah Wyllie; Scott Elliott; Sharon Glavsher; Siona Silvieri; Stephen Aplin; Stephen Kidd; Thea Sass

NHS Trust / Maidstone and Tunbridge Wells NHS Trust / University Hospital Southampton NHS Foundation Trust Centro de Investigacion Biomedica de Occidente (CIBO) Unidad de Genomica Avanzada

Hospitals Dorset NHS Foundation Trust / Brighton and Sussex University Hospitals NHS Trust / Dartford and Gravesham NHS Trust / Isle of Wight

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: Aleiandra Garcia-Gasca: Aleiandra Hermandez-Teran: Aleiandro Sanchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragon; Andreu Comas-Garcia; Angel Gustavo Salas-Lais; Antonio Loza Roman; Bernardo Martinez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gomez-Gil; Carla Ivon Herrera-Najera; Carlos F. Arias; Celia Boukadida; Celida Duque Molina; Celida Martinez-Rodriguez; Clara Esperanza Santacruz-Tinoco; Concepcion Grajales-Muñiz; Consorcio Mexicano de Vigilancia Genomica (COVIGen-Mex). Authors (in alphabetical order): Julio Elias Alvarado-Yaah; Cristobal Chaidez-Quiroz; Daniel Fregoso-Rueda; Daniel Lira Morales; Eduardo Becerril-Vargas; Fernando Fontove-Herrera; Fidencio Mejia-Nepomuceno; Francisco Pulido; Gloria Elena Espinosa-Ayala; Gloria Maria Molina-Salinas; Gloria Vazquez: Hector Esteban Paz-luarez: Hector Montova-Fuentes: Helen Haydee Fernanda Ramirez-Plascencia; Irvin Gonzalez-Lonez: Jean Pierre Gonzalez: Jesus Hernandez: Joel Armando Vazquez-Perez: Jorge Salas-Hernandez: Jose Antonio Enciso-Moreno: Jose Arturo Martinez-Orozco; Jose Esteban Muñoz-Medina; Jose de Jesus Nuñez-Contreras; Juan Bautista Chale-Dzul; Julissa Enciso-Ibarra; Luis Alberto Ochoa-Carrrera; Margarita Matias-Florentino; Maria Guadalupe Santiago-Mauricio; Maria Guadalupe Ge Jesus Mireles-Rivera; Mario Mujica-Sanchez: Marissa Perez-Garcia: Nelly Selem-Mojica: Payel Isa: Ricardo Ciria Merce: Ricardo Grande: Rosa Maria Gutierrez Rios: Santiago avila-Rios: Selene Zarate: Susana Lopez: Veronica Mata-Haro; Victor Eduardo Garcia-Arias: Victor Hugo Boria-Aburto

EPI_ISL_2671635, EPI_ISL_2671636	Centro de Investigacion Biomedica del Noreste (CIBIN)		; Alejandra Garcia-Gasca; Alejandra Hernandez-Teran; Alejandro Sanchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragon; Andreu Comas-Garcia; Angel Gustavo Salas-Lais; Antonio Loza Roman; Bernardo Martinez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gomez-Gil; Carla Ivon Herrera-Najera; Carlos F. Arias; Celia Boukadida; Celida Duque Molina; Celida Martinez-Rodriguez; Clara Esperanza Santacruz-Tinoco; Concepcion Grajales-Muñiz; Consorcio Mexicano de Vigilancia Genomica (CoViGen-Mex). Authors (in alphabetical order); Julio Elias Alvarado-Yaah; Ciristobal Chaidez-Quiroz; Daniel Fregoso-Rueda; Daniel Lira Morales; Eduardo Becerril-Vargas; Fernando Fontove-Herrera; Fidencio Mejia-Nepomuceno; Francisco Pulido; Gioria Elena Espinosa-Ayala; Gloria Maria Molina-Salinas; Gioria Vazquez-Perez, Jorge Salas-Hernandez; Jose Antonio Enciso-Moreno; Jose Arturo Martinez-Orozco; Jose Esteban Muñoz-Medina; Jose de Jesus Nuñez-Contreras; Juan Bautista Chale-Dzul; Julissa Enciso-Ibarra; Luis Alberto Ochoa-Carrera; Margarita Matias-Florentino; Maria Guadalupe Santiago-Mauricio; Santiago avila-Risso-Senez-Estara, Sela Masta-Haro; Victor Eduardo García, Sivi Carlo Gustay Victor Eduardo García, Sivi Carlo Gustay Victor Martinez-Moreno; Depez; Veronica Mata-Haro; Victor Eduardo García, Sivi Cort Dudos García, Sontiago avila-Risso; Selene Zarate; Susana Lopez; Veronica Mata-Haro; Victor Eduardo García, Sivi Cort Pudo Borja-Aburto
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EPI_ISL_2692859, EPI_ISL_2692860, EPI_ISL_2692863	Child Health Research Foundation	Child Health Research Foundation	CHRF Bangladesh Genomics Team
EPI_ISL_2652215	Clinical Emergency County Hospital, Craiova	Cantacuzino Institute Virology	Carmen Cherciu; Luiza Ustea; Mihaela Lazar; Mihaela Oprea; Nicoleta Paraschiv; Sorin Dinu
EPI_ISL_2652262	Clinical Virology	Clinical Bacteriology	Adrian Egli; Alfredo Mari; Fanny Wegner; Hans Hirsch; Helena MB Seth-Smith; Julia Bielicki; Karoline Leuzinger; Manuel Battegay; Tim Roloff
	ISL_2663319, EPI_ISL_2663320, EPI_ISL_2663321, EPI_ISL_2663322,		
see above	Communicable Disease Laboratory, Public Health Directorate	Communicable Disease Laboratory, Public Health Directorate	AlAbbas, Z.; AlHujairi, Z.; Almoamen, G.; Alwasti, H.; Marhoon, A.
EPI ISI 2755117 EP	ISI 2755122 FPI ISI 2755159 FPI ISI 2755267 FPI ISI 2755317		ISL 2755367, EPI ISL 2755448, EPI ISL 2755449, EPI ISL 2755450, EPI ISL 2755459, EPI ISL 2755459, EPI ISL 2755459.
see above		Curative Labs	Elias L Salfai; Eugenia Khorosheva; George Way; J.Cesar Igazio-Espinoza; Janet Chen; Mikhail Hanewich-Hollatz; Nabjot Sandhu; Sophia Quasem; Vladimir Slepnev; Zhiyi Xie
EPI_ISL_2676407	DC Public Health Lab/ Dept. of Forensic Sciences	DC Public Health Lab/ Dept. of Forensic Sciences	Brittany Hamilton; Connie Maza; David Payne; Elizabeth Zelaya; Janis Doss; Jocelyn Hauser; Monica Mann; Sarah Scott; Scott Nguyen
EPI_ISL_2725072	DNAGYN	Biodiversidade	Alex Honda Bernardes; Amanda Alves de Melo; Aparecido Divino da Cruz; Cintia Pelegrineti Targueta de Azevedo Brito; Daniela de Melo e Silva; Elisangela de Paula Silveira Lacerda; Francyelli Mello Andrade; Juliana Santana de Curcio; Luiz Augusto Pereira; Marc Alexandre Duarte Gigonzac; Mariana Pires de Campos Telles; Ramilla dos Santos Braga; Renata de Oliveira Dias; Rhewter Nunes; Thais Cidália Vieira Gigonzac; Thais Guimarães Castro; Thays Millena Alves Pedroso
EPI_ISL_2662730, EPI_ISL_2662752, EPI_ISL_2662759, EPI_ISL_2662801	DPHL	Delaware Public Health Lab	Rebecca Savage
EPI_ISL_2612300	DSMRC	DSMRC	Khine Zaw Oo; Ko Ko Lwin; Ko Ko Win; Kyee Myint; Nay Myo Aung; Pai Khant Kyaw; Phyo Kyaw Aung; Thet Wai Oo; Zaw Win Htun
EPI_ISL_2728343, EPI_ISL_2728344, EPI_ISL_2728345, EPI_ISL_2728346, EPI_ISL_2728347	DSU DAVANAGERE	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Sony Sharma; V Ravi
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see above	DSU HASSAN	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Sony Sharma; V Ravi
EPI_ISL_2728330, EP	_ISL_2728331, EPI_ISL_2728332, EPI_ISL_2728333, EPI_ISL_2728334,	EPI_ISL_2728335, EPI_ISL_2728336, EPI	JSL_2728337, EPI_JSL_2728338, EPI_JSL_2728339, EPI_JSL_2728340, EPI_JSL_2728341
see above	DSU KALABURAGI	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Sony Sharma; V Ravi
EPI_ISL_2728375, EP	ISL_2728376, EPI_ISL_2728377, EPI_ISL_2728378, EPI_ISL_2728379,	EPI_ISL_2728380, EPI_ISL_2728383, EPI	ISL 2728357, EPI   ISL 2728359, EPI   ISL 2728360, EPI   ISL 2728360, EPI   ISL 2728362, EPI   ISL 2728363, EPI   ISL 2728363, EPI   ISL 2728363, EPI   ISL 2728371, EPI   ISL 2728372, EPI   ISL 2728372
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see above	Department of Bacteria, Parasites and Fungi, Statens Serum Institut, Copenhagen, Denmark	Statens Serum Institut Bioinformatics and Microbial Genomics	Danish Covid-19 Genome Consortium
EPI_ISL_2685889	Department of Clinical Microbiology	GIGA Medical Genomics	Bouchra Boujemla; Cécile Meex; Keith Durkin; Maria Artesi; Marie-Pierre Hayette; Nathalie Renotte; Pierrette Melin; Raphaël Boreux; Sébastien Bontems; Vincent Bours
	epartment of Clinical Microbiology, Odense University Hospital, Odens Denmark		Danish Covid-19 Genome Consortium
EPI_ISL_2724975	Department of Medical Microbiology - section Molde, Molde Hospital	Norwegian Institute of Public Health, Department of Virology	Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Nevjen; Rasmus Riis Kopperud
EP, ISL_2704704, EP EP, ISL_2704730, EP EP, ISL_2722122, EP EP, ISL_2722145, EP EP, ISL_2722171, EP EP, ISL_2722197, EP EP, ISL_2722226, EP EP, ISL_2722226, EP EP, ISL_2722226, EP EP, ISL_27222366, EP EP, ISL_27222366, EP	ISL 2704705, EPI ISL 2704707, EPI ISL 2704708, EPI ISL 2704710, EPI ISL 2704710, EPI ISL 2704710, EPI ISL 2704714, EPI ISL 2704734, EPI ISL 270474, EPI ISL 2704734, EPI ISL 270474, EPI ISL 270474, EPI ISL 2704746, EPI ISL 270474, EPI ISL 2704746, EPI ISL 270474, EPI ISL 2704747, EPI ISL 2704774, EPI ISL 27047744, EPI ISL 2704774, EPI ISL 27047744, EPI ISL 2704774, EPI ISL 27047744, EPI ISL 2704774, EPI ISL 2704774, EPI ISL 2704774, EPI ISL 27047744, EPI	EPI JSL 2704711, EPI JSL 2704712, EPI EPI JSL 2704735, EPI JSL 2704736, EPI EPI JSL 2722127, EPI JSL 2722128, EPI EPI JSL 27221215, EPI JSL 2722151, EPI EPI JSL 2722178, EPI JSL 2722179, EPI EPI JSL 2722204, EPI JSL 2722205, EPI EPI JSL 2722225, EPI JSL 27222253, EPI EPI JSL 2722253, EPI JSL 2722275, EPI EPI JSL 2722275, EPI JSL 2722276, EPI EPI JSL 2722273, EPI JSL 2722373, EPI EPI JSL 2722373, EPI JSL 2722373, EPI JSL 2722373, EPI EPI JSL 2722373, EPI JSL 2722373, EPI JSL 2722373, EPI LSL 272373, EPI LSL 2722373, EPI LSL 272373, EPI LSL 272373	SL 2704686, EPI   SL 2704688, EPI   SL 2704688, EPI   SL 2704689, EPI   SL 2704689, EPI   SL 2704698, EPI   SL 270476, EPI   SL 2704772, EPI   SL 2704716,
see above	Department of Pathology, University of Cambridge	COVID-19 Genomics UK (COG-UK) Consortium	Aminu S. Jahun; Ian Goodfellow; Iliana Georgana; Martin D. Curran; Myra Hosmillo; Rhys Izuagbe; Surendra Parmar; William L. Hamilton; Yasmin Chaudhry
EPI_ISL_2687994, EPI_ISL_2687997	Department of Public Health Bucharest	National Institute of Infectious Diseases-Prof. Dr. Matei Bals Molecular Diagnostics Laboratory	Corina Casangiu; Dan Otelea; Leontina Banica; Marius Surleac; Petre Milu; Robert Hohan; Simona Paraschiv
EPI_ISL_2694759, EPI_ISL_2694775, EPI_ISL_2694787	Diagnostyka. Laboratoria Medyczne.	<ol> <li>ViroGenetics - BSL3 Laboratory of Virology, Małopolska Centre of Biotechnology, Jagiellonian University; 2. Diagtron Laboratoria Łukasz Rąbalski</li> </ol>	Gromowski, T.; Kowalski, M.; Labaj; Maciej Kosinski; Mazur-Panasiuk, N.; Natalia Derewonko; P.P.; Pyrc, K.; Rabalski L.; Rogalska-Kupiec M.; Swadzba J.; Sylwia Januszczak; Szulc, P.; Wydmanski, W.
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EPI ISL 2686396. EPI ISL 2686396. EPI ISL 2686397. EPI ISL 2686397. EPI ISL 2686492. EPI ISL 2686432. EPI ISL 2686433. EPI ISL 2686433. EPI ISL 2686434. EPI ISL 2686434. EPI ISL 2686435. EPI ISL 2686437. EPI IS ISL 2686438, EPI ISL 2686440, EPI ISL 2686440, EPI ISL 2686446, EPI ISL 2686446, EPI ISL 26864467, EPI ISL 2686458, EPI ISL 2686547, EPI ISL 2686548, EPI ISL 2 EPI\_SL\_2686556, EPI\_SL\_2686556, EPI\_SL\_26865650, EPI\_SL\_2686556, EPI\_SL\_2686556, EPI\_SL\_2686570, EPI\_SL\_2686570, EPI\_SL\_2686577, EPI\_SL\_2686570, EPI\_SL\_268657 EPI ISL 2686599, EPI ISL 2686600, EPI ISL 2686600, EPI ISL 2686601, EPI ISL 2686601, EPI ISL 2686603, EPI ISL 268603, EPI ISL 2686641, EPI ISL 2686642, EPI ISL 2686642, EPI ISL 2686643, EPI ISL 2686643, EPI ISL 2686654, EPI ISL 2686657, EPI IS EPI ISL 2686693, EPI ISL 2686705, EPI ISL 2686705, EPI ISL 2686693, EPI IS EPI ISL 2686746, EPI ISL 2686749, EPI ISL 2686753, EPI ISL 2686755, EPI ISL 2686756, EPI ISL 2686759, EPI ISL 2686759, EPI ISL 2686808, EPI IS see above Fulgent Genetics Centers for Disease Control and Adrian Paskey; Becky Tsai; Benafsh Sapra; Benjamin Rambo-Martin; Christopher Gulvick; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dhwani Batra; Doreen Ng; Duncan MacCannell; Harry Gao; James Xie; Jason Caravas; John Gao; Joseph Fierro; Kara Moser; Matthew Prevention Division of Viral Schmerer; Mickey Li; Peter W. Cook; Scott Sammons; Shatavia Morrison; Yan Meng; Yvette Unoarumhi Diseases, Pathogen Discovery EPI ISL 2658433, EPI ISL 2673713, EPI ISL 2673713, EPI ISL 2673714, EPI ISL 2673714, EPI ISL 2673764, EPI IS Furst Medical Laboratory Norwegian Institute of Public Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte see above Health, Department of Virology Nevien: Rasmus Riis Kopperud EPI\_ISL\_2690031 GA Department of Public Health Laboratory Centers for Disease Control and Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook; Prevention Division of Viral Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi Diseases, Pathogen Discovery EPI\_ISL\_2692535 GA Department of Public Health Laboratory Genomics and Discovery, Adam Retchless; Anna Kelleher; Anna Uehara; Brian Lynch; Clinton R. Paden; Dhwani Batra; Haibin Wang; Han Jia Justin Ng; Jasmine Padilla; Jing Zhang; Justin Lee; Krista Queen; Mark Burroughs; Mili Sheth; Morgan Davis; Peter Cook; Rachel Marine; Sarah Nobles; Suxiang EPI ISL 2754911 Respiratory Viruses Branch Tong: Tara Coalter: Yan Li: Ying Tao Division of Viral Diseases, Centers for Disease Control and Prevention EPI ISL 2726782 GenXOne SA 1. National Institute of Public Dominik Strapagiel: Izabela Dróżdź; Iakub Lach: Katarzyna Zacharczuk: Klaudyna Królikowska: Maciei Borowiec: Magdalena Nowakowska: Magdalena Traczyk-Borszyńska: Marcin Słomka: Marta Sobalska-Kwapis: Małgorzata Sadkowska-Todys: Tomasz Płoszai: Tomasz Health - National Institute of Wołkowicz Hygiene, Warsaw, Poland 2 Biobank Lab. University of Lodz 3 Laboratory of Respiratory Viruses Teaching and Clinical Center of the Medical University of Lodz EPI ISL 2756159 Genetica Molecular and Subdepartamento de Virologia ISP Chile Instituto de Salud Publica de Chile Andres Castillo: Barbara Parra: Constanza Campano: Gisselle Barra: Javier Tognarelli: Jorge Fernandez: Karen Orostica: Loredana Arata: Patricia Bustos: Rodrigo Fasce: Soledad Ulloa EPI ISL 2695271, H Braga Instituto Nacional de Saude (INSA) Borges et al FPI\_ISI\_2695289 EPI ISL 2695287 EPI ISL 2695015, H Divino Espirito Santo - Ponta Delgada Instituto Nacional de Saude (INSA) Borges et al EPI ISL 2695057 EPI ISL 2695068 EPI ISL 2695071 EPI ISL 2695072 EPI ISL 2694947. EPI ISL 2694948. EPI ISL 2694948. EPI ISL 2694949. EPI ISL 2694950. EPI ISL 2694950. EPI ISL 2694958. EPI ISL 2694965. EPI ISL 2694958. EPI ISL 2694960. EPI ISL 2694961. EPI ISL 2694960. EPI ISL 2694964. EPI ISL 2694964. EPI ISL 2694965. 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see above	HealthPartners Central Lab	Minnesota Department of Health, Public Health Laboratory	Alexandra Lorentz; Jacob Garfin; Matt Plumb; and Xiong Wang
EPI_ISL_2709259	Hospital	National Reference Center for Viruses of Respiratory Infections, Institut Pasteur, Paris	Angela Brisebarre; Camille Capel; Christophe Malabat; Corinne Maufrais; Damien Mornico; Etienne Simon-Lorière; Frédéric Lemoine; Laurent Bret; Louise Lefrançois; Marion Barbet; Maud Vanpeene; Méline Bizard; Sylvie Behilli; Sylvie Van der Werf; Vincent Enouf
EPI_ISL_2727836	Hospital Angkatan Tentera Kota Kinabalu	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Azizan MA; Kamel K; Mohd Zawawi Z; Ramly N; Robert F; Supplah J; Thayan R
EPI_ISL_2727837	Hospital Angkatan Tentera Wilayah Kota Kinabalu	Institute for Medical Research, Infectious Disease Research Centre, National Institutes of Health, Ministry of Health Malaysia	Azizan MA; Kamel K; Mohd Zawawi Z; Ramly N; Robert F; Supplah J; Thayan R
EPI_ISL_2680929	Hospital Fátima S.A. de C.V.	Laboratorio nacional-LANIIA-CIAD	; Alejandra García-Gasca; Alejandra Hernández-Terán; Alejandro Sánchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragón; Andreu Comas-García; Angel Gustavo Salas-Lais; Antonio Loza Román; Bernardo Martínez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gómez-Gil; Carla Ivón Herrera-Najera; Carlos F. Arias; Celia Boukadida; Clara Esperanza Santarcuz-Tinoco; Concepción Grajales-Muñiz; Consorció Mexicano de Vigilanica Genómica (CoViGen-Mex). Authors (in alphabetical order): Julio Elias Alvaracuz-Tinoco; Concepción Grajales-Muñiz; Consorció Mexicano de Vigilanica Genómica (CoViGen-Mex). Authors (in alphabetical order): Julio Elias Alvaracuz-Tinoco; Concepción Grajales-Muñiz; Consorció Mexicano de Vigilanica Genómica (CoViGen-Mex). Authors (in alphabetical order): Julio Elias Alvaracuz-Tinoco; Concepción Grajales-Muñiz; Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales-Muñiz; Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales-Muñiz; Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales-Muñiz Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales Alvaracuz-Tinoco; Concepción Grajales-Muñiz Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales-Muñiz Consorción Mexicano Gravacuz-Tinoco; Concepción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Concepción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales Alvaracuz-Tinoco; Concepción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales Alvaracuz-Tinoco; Concepción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales-Muñiz Consorción Grajales Alvaracuz-Tinoco; Concepción Grajales-Muñ

EPI\_SL\_2680931, Hospital Margarita Maza de Juárez Microbial Genomics Laboratory ; Alejandra García-Gasca; Alejandra Hernández-Terán; Alejandra Sánchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragón; Andreu Comas-García; Angel Gustavo Salas-Lais; Antonio Loza Román; Bernardo Martínez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gómez-Gil; Carla Wón Herrera-Najera; Carlos F. Arias; Celia Boukadida; Clara Esperanza Santacruz-Tinoco; Concepción Grajales-Muñz; Consorció Mexicano de Noi Mexicano de Nexicano de Nexicano de Nexicano de Nexicano de Noi Mexicano de Nexicano de Nexicano de Nexicano de Nexicano de Noi Mexicano de Nexicano de Nexicano de Nexicano de Nexicano de Noi Mexicano de Nexicano de Nexicano de Nexicano de Nexicano de Noi Albado (Clara Elena Espinos-Avado-Yaah; Cristóbal Antínez-Porace), Gloria Elena Espinos-Auguez; Dela Gloria Martínez-Rodifiquez, Daniel Fereposo-Rueda; Daniel Lira Morales; Eduardo Bacerrilla/Vargas, Ferenanda Fontove-Herrera; Fidencio Martínez-Polascencia; Irvin González-López; Jean Pierre González; Jesús Hermández; José Antonio Enciso-Moreno; José Antonio Enciso-Moreno; José Antonio Enciso-Moreno; José Esteban Muñoz-Medina; José de Jesús Miniez-Contreras; Juan Bautista; Cluida Dupe de Jesús Miniez-Contreras; Juan Bautista; Cluida Puez-Polascencia; Irvin González-López; Jean Pierre González; Jesús Herrenández; José Selmenta, Puez-Polascencia; Maria Guadalupe Santiago-Municio; Maria Guadalupe de Jesús Miniez-Sonteras; Nelly Selement-Mojica; Pavel Harve, Nelico Selement-Mojica; Pavel Har

Carla Martín: Clara Benavent: Cristina Gutiérrez: Ester Picó: Gemma Recio: Margarida Terrón: Natalia Bastón

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Humboldt County Public Health Laboratory

Alejandra González-Sánchez: Andrés Antón: Ariadna Rando: Carla Castillo: Cristina Andrés: Damir Garcia-Cehic: Josep Quer: Juliana Esperalha: Maria Carmen Martin: Maria Gema Codina: Maria Piñana: Tomàs Pumaroli

Ieremy Corrigan

Aldo Morrone; Alessia Lauretti; Alice Massacci; Andrea Cazzani; Antonio Federico; Arianna Mastrofrancesco; Carla Mottini; Eleonora Sperandio; Elisabetta Trento; Fabrizio Ensoli; Francesca De Nicola; Francesca Maione; Francesca Sivori; Francisco Obregon; Frauke Goeman; Fulvia Fraticelli; Fulvia Pimpinelli; Gennaro Ciliberto; Giovanna D'agosto; Giovanni Blandino; Giulia Orlandi; Grazia Prignano; Ilaria Cavallo; Ilaria Celesti; Lorenzo Furzi; Ludovica Ciuffreda; Martina Diano; Martina Pontone; Matteo Pallocca; Maurizio Fanciulli; Sabrina Strano;

Cristina Rodriguez-Grande; Darío García de Viedma; Julia Suárez; Laura Pérez-Lago; Marta Herranz Martin; Patricia Muñoz; Pedro Sola Campoy; Pilar Catalán; Sergio Buenestado Serrano; Victor Manuel de la Cueva

- Vall d'Hebron Institut de Recerca

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Adolpho Lara; Pamela Brown; Ryker Penn; Yanlai Lai

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 Hôpital Jacques Monod
 Centre Hospitalier Universitaire de Rouen Laboratoire de Virologie

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 IA State Hygienic Laboratory
 Centers for Disease Control and

Centers for Disease Control and Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi Diseases, Pathoqen Discovery

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EP, IS., 2675893, EP, IS., 2675934, EP, IS., 267

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Sara Donzelli; Sara Petrolo; Serena Salvo; Silvia Paluzzi; Valentina Ricca; di Domenico Enea Gino

EPI\_ISL\_2660332, Infectious Disease Program, Broad Institute of Harvard and MIT

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Institute for Urban Disease Control and Prevention COVID-19 Network Investigations Amorpmas Kongklieng: Angkana Huang: Anthony R. Jones: Argorn Wangwiwatsin: Bhakbhoom Panthan: Chonticha Klungtong: Duangkamon Loeshanluechai: Fkawat Pasomsub: Flizabeth Batty: Insee Sensorn: Janiira Thaipadungpanit: Kamolthin Atsawawaranunt: Khaiphn EPI ISL 2678096 (CONI) Alliance Joonlasak; Kingkan Rakmanee; Krittikorn Kumpornsin; Namfon Kotanan, Prayuth Kaewmalang; Pukkaporn Parnwijitkul; Stefan Fernandez; Thanat Chookajorn; Theerarat Kochakarn; Treewat Watthanachockchai; Vichan Pawun; Wasun Chantratita; Wudtichai Manasatienkij EPI\_ISL\_2678097 EPI ISL 2657324 Institute of Virology, Biomedical Research Center of the Slovak Academy Eaculty of Natural Sciences Boris Klempa: Brona Brejova: Jozef Nosek: Jurai Kopacek: Kristina Borsova: Lubomira Lukacikova: Martina Lickova: Martina Nebohacova: Monika Slavikova: Sabina Fumacova Havlikova: Tomas Vinar: Viktoria Cabanova: Viktoria Hodorova of Sciences, Bratislava Comenius University, Bratislava FPI ISI 2714949 Seattle Flu Study Amanda Adler; Barry R. Lutz; Benjamin Pelle; Brian Hiatt; Caitlin R. Wolf; Chris D. Frazar; Deborah A. Nickerson; Elisabeth Brandstetter; Erica Ryke; Geoff Melly; Helen Y. Chu; Janet A. Englund; Jay Shendure; Jover Lee; Kairsten Fay; Kirsten Lacombe; Lea M. Starita; Mark J. Rieder; Matthew Richardson; Matthew Thompson; Melissa Truong; Michael Boeckh; Michael Famulare; Misja Ilcisin; Peter D. Han; Philip Dykema; Romesh Gautom; Scott Lindquist; Thomas R. Sibley; Trevor Bedford FPI ISI 2722320 FPI ISI 2722322 FPI ISI 2722324 FPI ISI 2722326 FPI ISI 2722328 FPI ISI 2722331 FPI ISI 2722337 FPI ISI 2722341 FPI ISI 2722342 FPI ISI 2722344 FPI ISI 2722346 FPI ISI 272234 Intibios Karawang Indonesian Institute of Sciences Andri Wardiana; Anggia Prasetyoputri; Anik. B. Dharmayanthi; Erwin Fajar Hasrianda; Gita Syahputra; Idris; Indriawati; Isa Nuryana; Masrukhin; Puspita Lisdiyanti; Ratih A. Ningrum; Subangkit; Sugiyono Saputra; Syaiful Rizal; Syam B. Iryanto; Vivi Setiawaty; Wien Kusharyoto; see above (LIPI)/National Agency of Research Yayuk Sri Rahayu and Innovation (BRIN) and National Institute of Health Research and Development (NIHRD) EPI ISL 2641756, EPI ISL 2641756, EPI ISL 2641758, EPI ISL 2641758, EPI ISL 2641779, EPI ISL 2641879, EPI IS EPI ISL 2641883, EPI ISL 2641887, EPI ISL 2641887, EPI ISL 2641888, EPI ISL 2641888, EPI ISL 2641899, EPI ISL 2641899, EPI ISL 2641899, EPI ISL 2641899, EPI ISL 2641909, EPI IS EPI ISL 2641975, EPI ISL 2641977, EPI ISL 2641977, EPI ISL 2641996, EPI ISL 2641981, EPI ISL 2641988, EPI ISL 2641990, EPI IS see above Istituto Zooprofilattico Sperimentale del Mezzogiorno Telephon Institute of Genetics and Antonio Grimaldi Patrizia Annunziata Francesco Panariello Riancamaria Pierri Claudia Tiberio Teresa Giuliano Valentina Bouche Chiara Colantuono Maria Concetta Cuomo Denise Di Concilio Lucio Di Filippo Anna Manfredi Marcello Salvi Antonio Limone Luigi Atripaldi Pellegrino Medicine (TIGEM Cerino Andrea Ballabio Davide Cacchiarelli FPI ISI 2723817 IIPMER Asia / India / Puducherry / Puducherry inStem NCBS - INSACOG Uma Ramakrishnan Dasaradhi Palakodeti Aswin SaiNarain FPI ISI 2723819 FPI ISI 2723820 EPI ISL 2723822 EPI\_ISL\_2691905 Johns Hopkins Hospital Department of Pathology Johns Hopkins Hospital Adannava Amadi: C. Paul Morris: Chun Huai Luo: Heba H. Mostafa: Matthew Schwartz: Nicholas Gallaghei EPI\_ISL\_2691910 EPI ISL 2690048 Centers for Disease Control and Alison Laufer Halpin: Ben L. Rambo-Martin: Clinton R. Paden: Dakota Howard: Darlene Wagner: Dave Wentworth: Dhwari Batra: Jasmine Padilla: Justin Lee: Katie Dillon: Krista Queen: Kristen Knine: Kristine Lacek: Mark Burroughs: Matthew Schmerer: Mili Sheth: Peter Cook KS Health and Environmental Laboratories EPI ISL 2690049 Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumh FPI\_ISI\_2690050 Diseases, Pathogen Discovery FPI\_ISI\_2690052 EPI\_SL\_2725597, EPI\_SL\_27255611, EPI\_SL\_27255611, EPI\_SL\_2725612, EPI\_SL\_2725613, EPI\_SL\_2725663, EPI\_SL\_2725663, EPI\_SL\_2725664, EPI\_SL\_27256 EPI SL 2726502, EPI SL 2726503, EPI SL 2726504, EPI SL 2726516, EPI SL 2726517, EPI SL 2726517, EPI SL 2726518, EPI SL 2726519, EPI SL 2726520, EPI SL 2726527, EPI SL 2726527 see above KU Leuven. 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FPI ISI 2676752 I BM UNIBIO VAI ENTIN CNR Virus des Infections Antonin Bal; Bruno Lina; Gregory Destras; Gwendolyne Burfin; Hadrien Reque; Laurence Josset; Martine Valette; Quentin Semanas EPI ISI 2676754 EPI ISL 2676757 EPI\_ISL\_2674901, LESP Ciudad de Mexico Instituto de Diagnostico v Abril Rodriguez-Maldonado: Ariadna Medina-Benitez: Claudia Wong-Arambula: Ernesto Ramirez-Gonzalez.; Gisela Barrera-Badillo: Irma Lopez-Martinez; loaguin Ouiroz-Mercado: Lucia Hernandez-Rivas: Natividad Cruz-Ortiz: Sergio Rangel-Guerrero: Tatiana Nunez-Garcia: EPI ISL 2674902 Referencia Epidemiologicos EPI ISL 2674904 (INDRE) EPI ISL 2736787 LESP Guanaiuato Instituto de Diagnostico v Abril Rodriguez-Maldonado: Ariadna Medina-Benitez: Claudia Wong-Arambula: Ernesto Ramirez-Gonzalez.: Gisela Barrera-Badillo: Irma Lopez-Martinez: loaguin Ouiroz-Mercado: Lucia Hernandez-Rivas: Natividad Cruz-Ortiz: Sergio Rangel-Guerrero: Tatiana Nunez-Garcia: Referencia Epidemiologicos (INDRE) EPI ISL 2674903 LESP Ialisco Instituto de Diagnostico v Abril Rodriguez-Maldonado: Ariadna Medina-Benitez: Claudia Wong-Arambula: Ernesto Ramirez-Gonzalez.: Gisela Barrera-Badillo: Irma Lopez-Martinez: loaguin Ouiroz-Mercado: Lucia Hernandez-Rivas; Natividad Cruz-Ortiz: Sergio Rangel-Guerrero: Tatiana Nunez-Garcia: Referencia Epidemiologicos (INDRF) EPI ISL 2736784 LESP Michoacan Instituto de Diagnostico y Abril Rodriquez-Maldonado; Ariadna Medina-Benitez; Claudia Wonq-Arambula; Ernesto Ramirez-Gonzalez.; Gisela Barrera-Badillo; Irma Lopez-Martinez; Joaquin Quiroz-Mercado; Lucia Hernandez-Rivas; Natividad Cruz-Ortiz; Sergio Rangel-Guerrero; Tatiana Nunez-Garcia; Referencia Epidemiologicos (INDRF) FPI ISI 2736785 LESP Puebla Instituto de Diagnostico y Abril Rodriguez-Maldonado: Ariadna Medina-Benitez: Claudia Wong-Arambula: Ernesto Ramirez-Gonzalez: Gisela Barrera-Badillo: Irma Lopez-Martinez: Joaquin Quiroz-Mercado: Lucia Hernandez-Rivas: Natividad Cruz-Ortiz: Sergio Rangel-Guerrero: Tatiana Nunez-Garcia: Referencia Epidemiologicos Vanessa Rivero-Arredondo

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EPI_ISL_2686054, EPI_ISL_2686055, EPI_ISL_2686070, EPI_ISL_2686071, EPI_ISL_2686072, EPI_ISL_2686073	Laboratorio Analisi Osp. Città di Castello - Azienda USL Umbria1	Istituto Zooprofilattico Sperimentale dell'Abruzzo e Molise "G. Caporale"	Ancora M; Calistri P; Cammà C; Curini V; Delli Compagni E; Di Domenico M; Di Pasquale A; Lorusso A; Malagigi V; Mangone I; Marcacci M; Puglia I; Rinaldi A; Savini G; Scialabba S; Taccani P
EPI_ISL_2671488, EPI_ISL_2671539, EPI_ISL_2671563, EPI_ISL_2671649	Laboratorio Central de Epidemiologia (LCE)	Unidad de Genomica Avanzada	; Alejandra Garcia-Gasca; Alejandra Hernandez-Teran; Alejandro Sanchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragon; Andreu Comas-Garcia; Angel Gustavo Salas-Lais; Antonio Loza Roman; Bernardo Martinez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gomez-Gil; Carla Ivon Herrera-Najera; Carlos F. Arias; Celida Boukadida; Celida Duque Molina; Celida Martinez-Rodriguez; Clara Esperanza Santacruz-Tinnoc; Conception Grajales-Muñiz; Consorcio Mexicano de Vigilando Genomica (CoViGen-Mex). Authors (in alphabetical order); Julio Bias Alvarado-Yaah; Ciristobal Chaidez-Quiroz; Daniel Fregos-Aupela; Gloria Maria Molina-Salinas; Gloria Vazquez; Hector Esteban Paz-Juarez; Hector Montoya-Fuentes; Helen Haydee Fernanda Ramirez-Plascencia; Irvin Gonzalez-Lopez; Jean Pierre Gonzalez; Jesus Hernandez; Joel Armando Vazquez-Perez; Jorge Salas-Hernandez; Jose A control Moria-Control Rodriga, Juan Bertor Gonzalez; Jesus Hernandez; Joel Armando Vazquez-Perez; Jorge Geles Miniez-Gontroras; Juan Baudista-Gonzalez-Lopez; Jean Bertor Gonzalez; Jesus Hernandez; Joel Armando Vazquez-Perez; Jorge Geles Miniez-Gontroras; Juan Baudista-Gonzalez-Lopez; Jesus Hernandez Joel Armando Vazquez-Perez; Jorge Geles Miniez-Gontroras; Juan Baudista-Gonzalez-Miniez-Gontroras (Jesus Miniez-Gontroras) (Jesus Miniez-Gontr

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see above	Laboratorio Central de Epidemiología (LCE)	Instituto de Biotecnología de la UNAM	; Alejandra García-Gasca; Alejandra Hernández-Terán; Alejandro Sánchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragón; Andreu Comas-García; Angel Gustavo Salas-Lais; Antonio Loza Román; Bernardo Martínez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gómez-Gil; Carla Jón Herrera-Najera; Carlos F. Arias; Cella Boukadida; Calía Esperanza Santacruz-Tinoco; Concepción Grajales-Muñiz; Consorcio Mexicano de Vigilancia Genómica (CoViGen-Mex). Authors (Inalphabetical order); Julio Elias Alvarado-Yaah; Cristóba Gháidez-Quiricz, Célida Duque, Molina; Célida Martínez- Rodríguez; Daniel Eregoso-Rueda; Daniel Lira Morales; Eduardo Becerni-Vargas; Fernando Fontove-Herrera; Fidencio Mejía-Nepomuceno; Francisco Pulidio; Gloria Elena Espinosa-Ayala; Gloria Maria Molina-Salinas; Gloria Vazquez; Hector Esteban Paz-Juárez; Hector Montoya-Fuentes; Helen Haydee Fernanda Ramírez-Plascencia; Irvin González-López; Jean Pierre González; Jesús Hernández; Joel Armando Vázquez-Pérez; Jorge Salas-Hernández; José Antonio Enciso-Moreno; José Arturo Martínez-Orozco; José Esteban Muñoz-Medina; José de Jesús Nuñez-Conteras; Juan Bautista Chale-Dzul; Julissa Enciso-Ibarra; Luis Alberto Ochoa-Carrera; Margarita Matás-Florentino; Mario Mújica-Sánchez; Marisa Guadalupe Santiago-Mauricio; Maria Guadalupe de Jesús Mireles-Rivera; Nelly Selem-Mojica; Pavel Isa; Ricardo Ciria Merce; Ricardo Grande; Rosa Maria Gutiérrez Ros; Santiago Alvia-Ríos; Selene Zárate; Susana Lopez; Verónica Mata-Haro; Victor Eduardo García-Arias; Victor Hugo Borja-Aburto	
EPI_ISL_2652249	Laboratorio de Referencial Nacional de Virus Respiratorios	Laboratorio de Referencial Nacional de Virus Respiratorios	Carlos Padilla Rojas; Henri Bailon Calderon; Iris Silva Molina; Joseph Huayra Niquen; Lely Solari Zerpa; Luis Barcena Flores; Marco Galarza Perez; Nancy Rojas Serrano; Omar Caceres Rey; Orson Mestanza Millones; Priscila Lope Pari; Sandra Morales Ruiz; Steve Acedo Lazo; Veronica Hurtado Vela	
EPI_ISL_2708963	Laboratorio di Microbiologia	Laboratorio di Microbiologia	Martinetti Lucchini Gladys; Valeria Spina	

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EPI_ISL_2680919, EPI_ISL_2680921, EPI_ISL_2680926	Laboratorios Delia Barraza	Laboratorio nacional-LANIIA-CIAD	; Alejandra García-Gasca; Alejandra Hernández-Terán; Alejandro Sánchez-Flores; Alfredo Herrera-Estrella; Alicia Ozaña-Mondragón; Andreu Comas-García; Angel Gustavo Salas-Lais; Antonio Loza Román; Bernardo Martínez-Miguel; Blanca Taboada; Brenda Irasema Maldonado-Meza; Bruno Gómez-Gil; Carla Vón Herrera-Najer; Carlas F. Arias; Celia Boukadida; Clara Esperanza Santacruz-Tinoco; Claudia Soto Félix; Concepción Grajales-Muñiz; Consorción Mexicano de Vigilancia Genómica (CoVigen-Mexo, Authors (in alphabetical order); Julio Elias Alvarado-Yaah; Cristóbal Cháldez-Quiroz; Célida Duque Molina; Célida Martínez-Rodríguez; Daniel Fregos-Rueda; Daniel Lira Morales; Eduardo Becerril-Vargas; Fernando Fontove-Herrera; Fidencio Mejia-Nepómucno; Francios Alvarado (Najara) (Soria Maria Molina-Salinas; Gloria Vozquez; Hector Esteba Paz-Juárez; Helctor Montoya-Fuentes; Helen Haydee Fernanda Ramírez-Plascencia; Irvin González-Logez, Jean Fierrer González; Jesús Hernández; Joel Armando Vázquez-Pérez. Laboratorios Delia Barrazas. María González de Conscience; José Arturo Martínez-Orozco; José Artu
EPI_ISL_2726789	Laboratorium Diagnostyczno-Analityczne Ośrodek Profilaktyki i Epidemiologii Nowotworów im. A. Pieńkowskiej	National Institute of Public     Health - National Institute of	Dominik Strapagiel; Izabela Dróżdz; Jakub Lach; Katarzyna Zacharczuk; Klaudyna Królikowska; Maciej Borowiec; Magdalena Nowakowska; Magdalena Traczyk-Borszyńska; Marcin Słomka; Marta Sobalska-Kwapis; Małgorzata Sadkowska-Todys; Tomasz Płoszaj; Tomasz Wolkowicz

Teaching and Clinical Center of the Medical University of Lodz

EPI\_ISL\_2696720, Laboratory, Gravity Diagnostics Laboratory, Gravity Diagnostics Diagnostics, G EPI ISL 2696880

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Hygiene, Warsaw, Poland 2. Biobank Lab, University of Lodz 3. Laboratory of Respiratory Viruses,

EPI ISL 2638661, EPI ISL 2638663, EPI ISL 2638664, EPI ISL 2638664, EPI ISL 2638669, EPI ISL 2638671, EPI ISL 2638677, EPI ISL 2638677, EPI ISL 2638697, EPI ISL 2638700, EPI IS EPI ISL 2638736, EPI ISL 2638738, EPI ISL 2638738, EPI ISL 2638739, EPI ISL 2638739, EPI ISL 2638749, EPI ISL 2638744, EPI ISL 2638746, EPI ISL 2638746, EPI ISL 2638746, EPI ISL 2638754, EPI ISL 2638754, EPI ISL 2638764, EPI ISL 2638746, EPI ISL 2638746, EPI ISL 2638746, EPI ISL 2638754, EPI ISL 2638754, EPI ISL 2638764, EPI IS FPI ISI 2638788 FPI ISI 2638787 FPI ISI 2638788 FPI ISI 2638788 FPI ISI 2638789 FPI ISI 263878 FPI EPI SL 2638797, EPI SL 2638797, EPI SL 2638799, EPI SL 2638800, EPI SL 2638800, EPI SL 2638800, EPI SL 2638803, EPI SL 2638803, EPI SL 2638803, EPI SL 2638803, EPI SL 2638804, EPI SL 26388040, EPI SL 2638804, EPI SL 26388040, E EPĪ ISL 2638845, EPĪ ISL 2638846, EPĪ ISL 2638846, EPĪ ISL 2638847, EPĪ ISL 2638847, EPĪ ISL 26388847, EPT ISL 2638895, EPT ISL 2638895, EPT ISL 2638896, EPT ISL 2638997, EPT ISL 2638997, EPT ISL 2638990, EPT ISL 2638990, EPT ISL 263990, EPT ISL

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Wellcome Sanger Institute for the 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 COVID-19 Genomics UK (COG-UK) Consortium Team: Roberto Amato: Sonia Goncalves: Yumi Kasai

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EPI ISI 2659676 MEPHI Aix Marseille University Anthony LEVASSELIA MEPHL Aix Marseille University

FPI ISI 2659752 EPI ISL 2645337, MI - Michigan Department of Health and Human Services - Bureau of Centers for Disease Control and Alison Laufer Halpin: Ben L. Rambo-Martin: Clinton R. Paden: Dakota Howard: Darlene Wagner: Dave Wentworth: Dhwani Batra: Jasmine Padilla: Justin Lee: Katie Dillon: Krista Queen: Kristen Knine: Kristine Lacek: Mark Burroughs: Matthew Schmerer: Mill Sheth: Peter Cook EPI ISL 2689941 Prevention Division of Viral Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumh

FPI ISI 2689944 Diseases, Pathogen Discovery EPI ISL 2676766, MIRIALIS CLUSES BECHET CNR Virus des Infections Antonin Bal: Bruno Lina: Gregory Destras: Gwendolyne Burfin: Hadrien Reque: Laurence Josset: Martine Valette: Quentin Semanas EPI\_ISL\_2676767 Respiratoires - France SUD FPI ISI 2676768

EPI\_ISL\_2689637 MLD Szpital Św. Elżbiety National Institute of Public Health Gierczyńki Rafał; Sadkowska-Todys Małgorzata; Wołkowicz Tomasz; Zacharczuk Katarzyna National Institute of Hygiene EPI ISL 2689867 MO State Public Health Laboratory Centers for Disease Control and Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R, Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Iasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook

Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi

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EPI\_ISL\_2676781 EPI ISL 2676782 EPI ISL 2676784

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Ashley C. Johnson; D. Ashley Robinson; Ithiel J. Frame; Krishna K. Ayyalasomayajula; Michael R. Garrett; Wenjie Wu Center, Molecular and Genomics Core Facility

EPI ISL 2690124 MT Public Health Laboratory Centers for Disease Control and Alison Laufer Halpin: Ben L. Rambo-Martin: Clinton R, Paden; Dakota Howard: Darlene Wagner; Dave Wentworth: Dhwani Batra: lasmine Padilla: Justin Lee: Katie Dillon: Krista Oueen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth: Peter Cook EPI ISL 2690125 Prevention Division of Viral Sam Shepard: Sarah Nobles: Shoshona Le: Suxiang Tong: Vivien Dugan: Yvette Unoarumh Diseases, Pathogen Discovery

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Prevention Division of Viral

University of Mississippi Medical

Diseases, Pathogen Discovery

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EPI ISL 2647930, EPI ISL 2647934, EPI ISL 2647974, EPI ISL 2647977, EPI ISL 2647982, EPI ISL 2647988 Centers for Disease Control and Adrian Paskey: Reniamin Rambo, Martin: Christopher Gulvick: Clinton R. Paden: Dakota Howard: Darlene Wagner: Dhwani Ratra: Duncan MacCannell: Jason Caravas: Kara Moser: Lauren Moon: Matthew Schmerer: Matthew Turwell: Peter W. Cook: Scott Sammons: Shatavis see ahove Mako Medical Prevention Division of Viral Morrison: Yvette Unoarumh

EPI ISL 2663199 Manle Grove Hospital Minnesota Department of Health Alexandra Lorentz: Jacob Garfin: Matt Plumb: and Xiong Wang Public Health Laboratory

EPI ISL 2661102, EPI ISL 2661105, EPI ISL 2661107, EPI ISL 2661112, EPI ISL 2661117, EPI ISL 2661117, EPI ISL 2661121, EPI ISL 2661127, EPI ISL 2661127, EPI ISL 2661128, EPI ISL 2661130, EPI ISL 2661131, EPI ISL 2661134, EPI ISL 2661134

CSIR-Centre for Cellular and ; Amareshwar Vodapalli; Ara Sreenivas; Archana Bharadwaj Siva; B Himasri; Divya Tej Sowpati; Karthik Bharadwaj Tallapaka; Lamuk Zaveri; Onkar Kulkarni; Payel Mukherjee; Priya Nurkurthy; Rakesh K Mishra; Shreekant Verma; Sofia Banu; Sumedha Avadhanula; Tulasi see above Molecular Biology-INSACOG Nagabandi: Valli Nagalakshmi Undamatla: Vidhyadhari Methuku

EPI\_ISL\_2688806, Massachusetts State Public Health Laboratory Massachusetts State Public Health Andrew Lang: Glen Gallagher: Sandra Smole: Timelia Fink EPI\_ISL\_2688812 Laboratory EPI ISL 2688813

EPI\_ISL\_2673739 Norwegian Institute of Public Ativa R Ali: Debech Nadia: Engehretsen Serina Beate: Garcia Llorente Ignacio: Hilde Fishaug: Hil Medical Microbiology Unit, Department for Laboratory Medicine. Drammen Hospital, Vestre Viken Health Trust, Health, Department of Virology Nevjen; Rasmus Riis Kopperud

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Hub (HUGTiP/IrsiCaixa/IGTP) Armengol; Roger Paredes; Verónica Saludes; and Elisa Martró on behalf of the Can Ruti SARS-CoV-2 Sequencing Hub EPI ISL 2659051 Microbiological Diagnostic Unit - Public Health Laboratory (MDU-PHL) Microbiological Diagnostics Unit M.L.; N.L.; Sait; Seemann T.; Sherry Public Health Laboratory

EPI ISL 2650197, EPI ISL 2650201, EPI ISL 2650201, EPI ISL 26502008, EPI ISL 2650207, EPI ISL 2650227, EPI ISL 2650230, EPI ISL 2650303, EPI ISL 2650303, EPI ISL 2650308, EPI ISL 2650308, EPI ISL 2650303, EPI ISL 2650303, EPI ISL 2650308, EPI ISL 2650309, EPI I EPĪ SL 2671391, EPĪ SL 2671405, EPĪ SL 2671405, EPĪ SL 2681637, EPĪ SL 2681552, EPĪ SL 2681556, EPĪ SL 2681578, EPĪ SL 2718572, EPĪ SL 2718572, EPĪ SL 2718573, EPĪ SL 2718572, EPĪ SL 2718572, EPĪ SL 2718573, EPĪ SL 2718573, EPĪ SL 2718573, EPĪ SL 2718574, EPĪ SL 2718574

Microbiology Department, Laboratori Clínic Metropolitana Nord. Hospital Can Ruti SARS-CoV-2 Sequencing Alba Sánchez: Anna Not: Antoni E Bordov; Bonaventura Clotet: Cristina Casañ: Cristina Esteban: Francesc Catala-Moll: Gemma Clara: Ignacio Blanco: Marc Noguera-Iulian: Maria Casadellà: Mariona Parera; Mercedes Guerrero; Montserrat Giménez; Pere-Ioan Cardona; Pilar Universitari Germans Trias i Puiol Hub (HUGTiP/IrsiCaixa/IGTP Armengol: Roger Paredes; Verónica Saludes; and Elisa Martró on behalf of the Can Ruti SARS-CoV-2 Seguencing Hub EPI ISL 2680986 Ministry of Health, Jaber Al-Ahmad Hospital Virology Unit, Department of Anfal Al-Adwani: Ebaa Al-Awadhi: Hussain Safar: Nada Madi

		Microbiology, Faculty of Medicine, Kuwait University	
EPI_ISL_2652484, EPI_ISL_2652485, EPI_ISL_2663197,	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_2753650, EF EPI_ISL_2753674, EF EPI_ISL_2753723, EF EPI_ISL_2753748, EF	PLISL 2753651, EPLISL 2753652, EPLISL 2753653, EPLISL 2753654, EPLISL 2753654, EPLISL 2753678. EPLISL 2755678. EPLISL 2755678. EPLISL 2755678. EPLISL 275678. EPLISL 275678. EPLISL 275678. EPLISL 275678. EPLISL 275678. EPLISL 275678. EPLIS	PI_ISL_2753655, EPI_ISL_2753656, EPI PI_ISL_2753679, EPI_ISL_2753680, EPI PI_ISL_2753730, EPI_ISL_2753731, EPI PI_ISL_2753754, EPI_ISL_2753755, EPI	LSL 2753630, EPI_SL 2753632, EPI_SL 2753632, EPI_SL 2753633, EPI_SL 2753634, EPI_SL 2753634, EPI_SL 2753634, EPI_SL 2753634, EPI_SL 2753644, EPI_SL 2753644, EPI_SL 2753644, EPI_SL 2753644, EPI_SL 2753644, EPI_SL 2753657, EPI_SL 2753657, EPI_SL 2753658, EPI_SL 2753659, EPI_SL 2753669, EPI_SL 2753664, EPI_SL 2753664, EPI_SL 2753667, EPI_SL 2753767, E
see above	Missouri State Public Health Laboratory	Missouri State Public Health Laboratory	Ashley New; Joshua Barry; Matthew Sinn
EPI_ISL_2693671	Mitra Keluarga Hospital Waru	Institute of Tropical Disease, Universitas Airlangga	Aldise M Nastri; Febria Rachmanita; Gatot Soegiarto; Herlin Ferliana; Jezzy R Dewantari; Kazufumi Shimizu; Krisnoadi Rahardjo; Laksmi Wulandari; Maria I Lusida; Resti Yudhawati; Rima R Prasetya; Soetjipto; Yasuko Mori
EPI_ISL_2724009	Molecular Biology Laboratory, Infectious Diseases Department, Instituto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran		Arturo Galindo; Eric Ochoa; Fernando Ledesma Barrientos; Guillermo Ruiz-Palacios y Santos; Patricia Leal; Pilar Ramos Cervantes; Violeta Ibarra Gonzalez
EPI_ISL_2666813, EPI_ISL_2667495	Molekylær Medicinsk Afdeling, Aarhus University Hospital, Aarhus, Denmark	Statens Serum Institut Bioinformatics and Microbial Genomics	Danish Covid-19 Genome Consortium
EPI_ISL_2692155	Montana Public Health Laboratory	Montana Public Health Laboratory	Carrie Biskupiak; Deborah Gibson; Joy Ritter; Michael Dills; Michelle Mozer
EPI_ISL_2688325, EPI_ISL_2688357, EPI_ISL_2688365	Multiplex DX	Multiplex DX	Diana Drobna; Jakub Kovac; Pavol Cekan; Veronika Mancikova
EPI_ISL_2663027, EF EPI_ISL_2663053, EF EPI_ISL_2663079, EF EPI_ISL_2663105, EF	P. ISL 2663028, EPI ISL 2663029, EPI ISL 2663030, EPI ISL 2663031, EI PISL 2663055, EPI ISL 2663056, EPI ISL 2663057, EPI ISL 2663059, PI ISL 2663081, EPI ISL 2663082, EPI ISL 2663083, EPI ISL 2663084, EI	PI_ISL_2663032, EPI_ISL_2663033, EPI PI_ISL_2663060, EPI_ISL_2663061, EPI PI_ISL_2663085, EPI_ISL_2663086, EPI	_ISL_2663010, EPI_ISL_2663012, EPI_ISL_2663012, EPI_ISL_2663012, EPI_ISL_2663015, EPI_ISL_2663016, EPI_ISL_2663016, EPI_ISL_2663016, EPI_ISL_2663018, EPI_ISL_2663018, EPI_ISL_2663003, EPI_ISL_2663003, EPI_ISL_2663036, EPI_ISL_2663038, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663061, EPI_ISL_2663073, EPI_ISL_2663073, EPI_ISL_2663073, EPI_ISL_2663073, EPI_ISL_2663074, EPI_ISL_2663104, EPI_ISL_2
see above	N.F. Gamaleya Research Center for Epidemiology and Microbiology	WHO National Influenza Centre Russian Federation	Alexander Gintsburg; Alexey Shchetinin; Alina Odintsova; Andrei Botikov; Andrei Pochtovyi; Andrei Siniavin; Andrey Komissarov; Anna Kovyrshina; Artem Fadeev; Artem Tkachuk; Daria Danilenko; Denis Kleymenov; Denis Logunov; Dmitry Lioznov; Dmitry Shcheblyakov; Elen Mazunina; Elena Nabieva; Elena Shidlovskaya; Elizaveta Divisenko; Evgeniia Bykonia; Georgii Bazykin; Inna Dolzhikova; Kirill Varchenko; Ksenia Safina; Kseniya Komissarova; Liubov Popova; Ludmila Vasilchenko; Maria Nikiforova; Maria Pisareva; Maria Timofeeva; Mikita Yolshin; Oula Mansour; Tamila Musaeva; Veronika Eder; Vladimir Gushchin
EPI_ISL_2651298, EF EPI_ISL_2728511, EF	P_ISL_2651314, EPI_ISL_2651350, EPI_ISL_2728232, EPI_ISL_2728249, EI PI_ISL_2728512, EPI_ISL_2728513, EPI_ISL_2728514, EPI_ISL_2728515, EI	PI_ISL_2728516, EPI_ISL_2728517, EPI	_ISL_2728312, EPI_ISL_2728444, EPI_ISL_2728455, EPI_ISL_2728455, EPI_ISL_2728484, EPI_ISL_2728484, EPI_ISL_2728455, EPI_ISL_2728509, EPI_ISL_2728509, EPI_ISL_2728510, EPI_ISL_2728510, EPI_ISL_2728520, EPI_ISL_2728520, EPI_ISL_2728522, EPI_ISL_2728522, EPI_ISL_2728529
see above	NIMHANS	INSACOG-KA, NIMHANS	Ananthapadmanabha Kotambali; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Pramada Prasad; Sony Sharma; V Ravi
EPI_ISL_2689936	NJ Public Health and Environmental Laboratories	Prevention Division of Viral Diseases, Pathogen Discovery	Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee; Katie Dillon; Krista Queen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook; Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumhi
EPI_ISL_2754914	NJ Public Health and Environmental Laboratories	Genomics and Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Adam Retchless; Anna Kelleher; Anna Uehara; Brian Lynch; Clinton R. Paden; Dhwani Batra; Haibin Wang; Han Jia Justin Ng; Jasmine Padilia; Jing Zhang; Justin Lee; Krista Queen; Mark Burroughs; Mili Sheth; Morgan Davis; Peter Cook; Rachel Marine; Sarah Nobles; Suxiang Tong; Tara Coalter; Yan Li; Ying Tao
	PI_ISL_2727571, EPI_ISL_2727574, EPI_ISL_2727575, EPI_ISL_2727581, EI		
see above	NJDOH, Public Health and Environmental Laboratories	NJ_PHEL Genomics and Discovery,	Allison Roder; Bysong Jenney Barthers, Anna Vellahara, Brian Lunchs (Linter B. Barden, Dharris Barther), Linking Manna Handing Sarah Wellahara, Brian Lunchs (Linter B. Barden, Dharris Barther), Linking Manna Handing Sarah Mahler, Suriana
EPI_ISL_2689602	NM Dept. Health, Scientific Laboratory Division	Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Adam Retchless; Anna Kelleher; Anna Uehara; Brian Lynch; Clinton R. Paden; Dhwani Batra; Haibin Wang; Han Jia Justin Ng; Jasmine Padilia; Jing Zhang; Justin Lee; Krista Queen; Mark Burroughs; Mili Sheth; Morgan Davis; Peter Cook; Rachel Marine; Sarah Nobles; Suxiang Tong; Tara Coalter; Yan Li; Ying Tao
EPI_ISL_2663544, EPI_ISL_2663546, EPI_ISL_2663553, EPI_ISL_2753940, EPI_ISL_2753951	NYU Langone Health	Departments of Pathology and Medicine, New York University School of Medicine	Adriana Heguy; Christian Marier; Dacia Dimartino; Emily Guzman; Gael Westby; Guiqing Wang; Paolo Cotzia; Paul Zappile; Peter Meyn; Sitharam Ramaswami; Yutong Zhang
EPI_ISL_2694580, EPI_ISL_2694581	Nacionalinis maisto ir veterinarijos rizikos vertinimo institutas	National Public Health Surveillance Laboratory	Ana Steponkiene; Danas Baksa; Jelena Razmuk; Lukas Vasionis; Lukas Zemaitis; Migle Gabrielaite; Svajune Muralyte
EPI_ISL_2673831, EPI_ISL_2673842	Nastavni zavod za javno zdravstvo Splitsko- Dalmatinske Županije	Hrvatski zavod za javno zdravstvo	Irena Tabain; Ivana Ferenčak
EPI_ISL_2687995, EPI_ISL_2687996	National Institute of Infectious Diseases-Prof. Dr. Matei Bals Molecular Diagnostics Laboratory	National Institute of Infectious Diseases-Prof. Dr. Matei Bals Molecular Diagnostics Laboratory	Corina Casangiu; Dan Otelea; Leontina Banica; Marius Surleac; Petre Milu; Robert Hohan; Simona Paraschiv
EPI_ISL_2687993	National Institute of Public Health	National Institute of Infectious Diseases-Prof. Dr. Matei Bals Molecular Diagnostics Laboratory	Corina Casangiu; Dan Otelea; Leontina Banica; Marius Surleac; Petre Milu; Robert Hohan; Simona Paraschiv
EPI_ISL_2687944, EF see above	PLISL_2687960, EPI_ISL_2687968, EPI_ISL_2687977, EPI_ISL_2756210, EI National Platform bis UMONS/Jolimont	PI_ISL_2756215, EPI_ISL_2756216, EPI National Platform bis UMONS/Jolimont	_ISL_2756217, EPI_ISL_2756218  Eric Tarantino; Florian Juszczak; François Dufrasne; Gautier Detry; Guillaume Bayon-Vicente; Ruddy Wattiez
EPI_ISL_2674091, EF	PI_ISL_2674094, EPI_ISL_2674095, EPI_ISL_2674097, EPI_ISL_2674099, EI		_ISL_2674103
see above	National Public Health Laboratory	National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team
EPI_ISL_2674074	National Public Health Laboratory/B.P Koirala Institute of Health Science	National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team /B.P Koirala Institute of Health Science COVID 19 PCR Team
EPI_ISL_2674079	National Public Health Laboratory/B.P Koirala Memorial Cancer Hospital	National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team /B.P Koirala Memorial Cancer Hospital COVID 19 PCR Team
EPI_ISL_2674081	National Public Health Laboratory/B.P Koirala Memorial Cancer Hospital COVID 19 PCR Lab	National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team /B.P Koirala Memorial Cancer Hospital COVID 19 PCR Lab Team
EPI_ISL_2674077, EPI_ISL_2674078	National Public Health Laboratory/Lumbini Provincial Hospital COVID 19 PCR Lab	Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team /Lumbini Provincial Hospital COVID 19 PCR Lab Team; National Public Health Laboratory Team /Lumbini Provincial Hospital COVID 19 PCR Lab Team
	National Public Health Laboratory/Nepal Medical College & Teaching Hospital	National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology	National Public Health Laboratory Team/Nepal Medical College & Teaching Hospital COVID 19 PCR Team
FPI ISI 2674085.	National Public Health Laboratory/Provincial Public Health Laboratory -2	National Public Health	National Public Health Laboratory Team /Provincial Public Health Laboratory -2 Team

National Public Health Laboratory Team /Provincial Public Health Laboratory -2 Team

National Public Health Laboratory Team /Provincial Public Health Laboratory -Gandaki Team

EPI\_ISL\_2674085, National Public Health Laboratory/Provincial Public Health Laboratory -2 EPI\_ISL\_2674086, EPI\_ISL\_2674087

National Public Health Laboratory/CSIR-Institute of

Genomics and Integrative Biology National Public Health Laboratory/CSIR-Institute of Genomics and Integrative Biology

EPI ISL 2674107 EPI ISL 2674108. National Public Health Laboratory/Provincial Public Health Laboratory -National Public Health National Public Health Laboratory Team /Provincial Public Health Laboratory -Lumbini Team Laboratory/CSIR-Institute of EPI\_ISL\_2674109 Lumbin Genomics and Integrative Biology EPI ISL 2674082, National Public Health Laboratory/Trisbuli Hospital COVID 19 PCR Lab National Public Health National Public Health Laboratory Team /Trishuli Hospital COVID 19 PCR Lab Team EDI ISI 2674083 Laboratory/CSIR-Institute of FPI ISI 2674084 Genomics and Integrative Biology EPI ISL 2674106 EPI ISL 2710625, EPI ISL 2710640, EPI ISL 2710644, EPI ISL 2710652, EPI ISL 2710707, EPI ISL 2710708, EPI ISL 2710709, EPI ISL 2710711, EPI ISL 2710712, EPI ISL 2710713 see above National Virus Reference Laboratory National Virus Reference Charlene Bennett: Cillian F De Gascun: Gabriel Gonzalez: Jonathan Dean: Michael Carr: Zoe Yandle Laboratory EPI\_ISL\_2689669, EPI\_ISL\_2689671, EPI\_ISL\_2689681, EPI\_ISL\_2689685, EPI\_ISL\_2754086, EPI\_ISL\_2754872, EPI\_ISL\_2754887, EPI\_ISL\_2754895 see above Nebraska Public Health Laboratory NPHL COVID-19 Response Team NPHI\_COVID-19 Response Team FPLISI 2690271 Nevada State Public Health Laboratory Nevada State Public Health Andrew Gorzalski: Mark Pandori EPI\_ISL\_2690285 Laboratory EPI ISL 2690286 EPI\_ISL\_2690287 EPI\_ISL\_2690288 EPI\_ISL 2652017 New Mexico Department of Health Scientific Laboratory New Mexico Department of Health Anastacia Griego-Fisher: D'eldra Malone: Ellie Johnson: Jennifer Benoit: Keila Gutierrez: Linda Salazar: Ratheesh Raian EPI ISL 2652024 Scientific Laboratory EPI\_ISL\_2652040 FPI\_ISI\_2652088 EPI ISL 2652089 EPI ISL 2652091 FPI ISI 2696274 New South Wales Health Pathology Royal Prince Alfred Hospital Microbiology RPAH Au. L.: Bull. R.: Deveson, L.: Foster, C.: Rawlinson, W.: Buiz Silva, M.: Van Hal, S. EPI ISL 2705930, EPI ISL 2705931, EPI ISL 2705931, EPI ISL 2705932, EPI ISL 2705932, EPI ISL 2705933, EPI ISL 2705934, EPI IS EPI ISL 2705954, EPI ISL 2705955, EPI ISL 2705955, EPI ISL 2705956, EPI ISL 2705966, EPI IS EPI ISL. 2706003, EPI ISL. 270 EPISL 2706030, EPISL 2706031, EPISL 2706031, EPISL 2706032, EPISL 2706033, EPISL 2706033, EPISL 2706034, EPISL 2706035, EPISL EPĪSL\_2706076, EPĪSL\_2706077, EPĪSL\_2706077, EPĪSL\_2706077, EPĪSL\_2706078, EPĪSL\_2706078, EPĪSL\_2706080, EPĪSL\_2706080, EPĪSL\_2706081, EPĪSL\_ EP ISC 2706100, EP ISC 2706101, EP ISC 2706101, EP ISC 2706101, EP ISC 2706102, EP ISC 2706103, EP ISC 2706103, EP ISC 2706104, EP ISC 2706104, EP ISC 2706104, EP ISC 2706104, EP ISC 2706103, EP ISC 2706104, EP ISC 2706104 EPI ISL 2706150, EPI ISL 2706151, EPI ISL 2706151, EPI ISL 27061515, EPI ISL 2706165, EPI ISL 2706165, EPI ISL 2706165, EPI ISL 2706166, EPI ISL 2706169, EPI I EPI ISL\_2706196, EPI ISL\_2706197, EPI ISL\_2706197, EPI ISL\_2706197, EPI ISL\_2706199, EPI ISL\_2706209, EPI ISL\_2706209, EPI ISL\_2706203, EPI ISL\_2706203, EPI ISL\_2706203, EPI ISL\_2706203, EPI ISL\_2706203, EPI ISL\_2706204, EPI ISL\_2706204, EPI ISL\_2706204, EPI ISL\_2706204, EPI ISL\_2706204, EPI ISL\_2706207, EPI IS FPI ISI 2706218. 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Lutz; Benjamin Pelle; Brian Hiatt; Caitlin R. Wolf; Chris D. Frazar; Deborah A. Nickerson; Elisabeth Brandstetter; Erica Ryke; Geoff Melly; Helen Y. Chu; Janet A. Englund; Jay Shendure; Jover Lee; Kairsten Fay; Kirsten Lacombe; Lea M. Starita; Mark J. FPI ISI 2715137 Rieder: Matthew Richardson: Matthew Thompson: Melissa Truong: Michael Boeckh: Michael Famulare: Misia Ilcisin: Peter D. Han: Philip Dykema: Romesh Gautom: Scott Lindquist: Thomas R. Sibley: Trevor Bedford EPI ISL 2736196 Adam Retchless: Anna Kelleher: Anna Uehara: Brian Lynch: Clinton R. Paden: Dhwani Batra: Haibin Wang: Han lia Justin Ng: Jasmine Padilla: Jing Zhang: Justin Lee: Krista Queen: Mark Burroughs: Mili Sheth: Morgan Davis: Peter Cook: Rachel Marine: Sarah Nobles: Suxiang OK Public Health Laboratory, Oklahoma State DOH Genomics and Discovery. Respiratory Viruses Branch Tong: Tara Coalter: Yan Li: Ying Tao Division of Viral Diseases Centers for Disease Control and EPI\_ISL\_2673676, EPI\_ISL\_2673677, OSPEDALE CIVILE TERAMO - CENTRO TRASFUSIONALE Istituto Zooprofilattico Ancora M: Calistri P: Cammà C: Caporale M: Curini V: Delli Compagni E: Di Domenico M: Di Lollo Valeria: Di Pasquale A: Lorusso A: Mangone I: Marcacci M: Puglia I: Rinaldi A: Savini G: Scialabba S Sperimentale dell'Abruzzo e EPI\_ISL\_2673678 Molise "G. Caporale" EPI\_ISL\_2663131 Ochsner Health Bioinfoexperts, LLC Amy Feehan; David J. Nolan; Judy Crabtree; Julia-Garcia-Diaz; Lucio Miele; Rebecca Rose; Susanna L. Lamers; Tessa LaFleur EPI\_ISL\_2752169 Ohio Department of Health Allison Black: Brent Lee: Caitlin McDonnell: Fric Brandt: Frica Leasure: Glen McGillivary: Heather Blankenship: Holmes: lade Mowery: Jennifer: Kelsey Florek: Keoni Omura: Kirtana Ramadugu: Quanta Brown: Stephanje Mccracken: Tyler Payne: and Tammy Bannerman Ohio Department of Health Laboratory Laboratory

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EPI\_ISL\_2693033, EPI\_ISL\_2713066, Oregon State Public Health Laboratory Oregon State Public Health Eugene Yeboah; John Fontana and Shane Sevey; Laura Tsaknaridis; Rafia Razzaque; Vanda Makris Laboratory EPI\_ISL\_2727474

EPI ISL 2707368, EPI ISL 2707449, EPI ISL 2707447, EPI ISL 2707477, EPI ISL 2707555, EPI ISL 2707555, EPI ISL 2707555, EPI ISL 2707659, EPI ISL 2707891, EPI ISL 2707997, EPI ISL 2707997, EPI ISL 2707098, EPI ISL 2708031, EPI I EPI ISL 2708125, EPI ISL 2708126, EPI ISL 2708127, EPI ISL 2708128, EPI ISL 2708133, EPI ISL 2708134, EPI ISL 2708135, EPI ISL 2708140, EPI ISL 2708142

Originating lab: Wales Specialist Virology Centre Sequencing lab: Public Health Wales Microbiology 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 see above Pathogen Genomics Unit Cardiff Wales Specialist Virology Corden; Sara Kumziene-Summerhayes; Sara Rey; Sarah Taylor; Simon Cottrell; Sophie Jones; Tom Connor

Health, Department of Virology

CSIR-Centre for Cellular and

Centre EPI ISL 2724999. Ostfold Hospital Trust - Kalnes, Centre for Laboratory Medicine, Section Norwegian Institute of Public Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte

Nevien: Rasmus Riis Kopperud

Amareshwar Vodapalli; Ara Sreenivas; Archana Bharadwaj Siva; B Himasri; Divya Tej Sowpati; E Marak; E Shadap; Karthik Bharadwaj Tallapaka; Lamuk Zaveri; Onkar Kulkarni; Payel Mukherjee; Priya Nurkurthy; R. Lyngdoh; Rakesh K Mishra; Shreekant Verma; Sofia Banu

EPI ISL 2707312, EPI ISL 2707317, EPI ISL 2707317, EPI ISL 2707318, EPI ISL 2707328, EPI ISL 2707320, EPI ISL 2707325, EPI ISL 2707325, EPI ISL 2707325, EPI ISL 2707335, EPI ISL 2707335, EPI ISL 2707337, EPI ISL 2707347, EPI ISL 2707347, EPI ISL 2707347, EPI ISL 2707355, EPI ISL 2707356, EPI IS

Oxford Viromics, NDM, University of Oxford; Oxford University Hospitals; COVID-19 Genomics UK (COG-UK) Alex Mobbs: Amy Trebes: Anita Justice: Catrin Moore: Christophe Fraser: David Bonsall: David Buck: Emma Wise: George Macintyre: Jessica Lynch: John Todd: Mariateresa de Cesare: Matilde Mori: Monigue Andersson: Nathan Moore: Nick Cortes: Robert Shaw: Stephen Kidd: see above Basingstoke and North Hampshire Hospital Consortium Tanva Golubchik: Timothy Peto

EPI ISI 2753984 PAMF Palo Alto Santa Clara County Public Health Santa Clara County Public Health Department

EPI ISL 2753985 Laboratory EPI\_ISL\_2753986 FPI ISI 2753987

EP | ISL 2660816, EP | ISL 2660821, EP | ISL 2660821, EP | ISL 2660822, EP | ISL 2660825, EP | ISL 2660825, EP | ISL 2660826, EP | ISL 2660838, EP | ISL 2660838, EP | ISL 2660837, EP | ISL 266084, EP | ISL 266084, EP | ISL 2660837, EP | ISL 266084, EP | ISL 266084, EP | ISL 266084, EP | ISL 266084, EP | ISL 266085, EP | ISL 266086, EP | ISL 266087, EP | ISL 266 EPIJSL\_2660899, EPIJSL\_2660900, EPIJSL\_2660901, EPIJSL\_2660902, EPIJSL\_2660903, EPIJSL\_2660904, EPIJSL\_2660905, EPIJSL\_2660906, EPIJSL\_2660907, EPIJSL\_2660908, EPIJSL\_2660908, EPIJSL\_2660909

Molecular Biology-INSACOG Sumedha Avadhanula: Tulasi Nagabandi: Valli Nagalakshmi Undamatla: Vidhvadhari Methuki

for gene technology and infection serology

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B.L.; Batra, D.; Burroughs, M.; C.R.; Cook, P.; Dillon, K.; Dugan, V.; Halpin; Howard, D.; Knipe, K.; Lacek, K.; Le, S.; Lee, J.; Nobles, S.; Paden; Padilla, J.; Queen, K.; Rambo-Martin; Schmerer, M.; Shepard, S.; Sheth, M.; Tong, S.; Unoarumhi, Y.; Wagner, D.; Wentworth, D. Centers for Disease Control and FPI ISI 2691947 Rush University Medical Center RIPHL at Rush University Medical Diane Springer: Felix Araujo Perez: Joyce Houliban: Kevin Kunstman: Laura Furtado: Marieta Hyde: Mary Hayden: Max Kolton: Stefan Green Center EPI ISL 2728293 SANJAY GANDHI INSTITUTE OF TRAUMA AND ORTHOPAEDICS INSACOG-KA, NIMHANS Ananthapadmanabha Kotambail; Anita S Desai; Anson Kunjumon George; Chetan G K; Chitra Pattabiraman; Darshan Sreenivas; Ellango Ramasamy; Gautham Arunachal Udupi; Mahesh Kumar.C.S; Sony Sharma; V Rav EPI ISL 2728314 EPI ISL 2674807, SARS-CoV-2 testing team. National Institute of Infectious Diseases Pathogen Genomics Center. Hazuka Y Furihata: Hiromizu Takahashi: Kentaro Itokawa: Makoto Kuroda: Masanori Hashino: Masumichi Saito: Naomi Noiiri: Nozomu Hanaoka: Rina Tanaka: Tsuguto Fujimoto: Tsuyoshi Sekizuka FPI\_ISI\_2674808 National Institute of Infectious EPI ISL 2674810 Diceases FPI ISI 2723589 SC (UCO) Igiene e Sanità Pubblica, ASUGI, Trieste Barbone F: Braida C: Busetti M: D'Agaro P: Dal Monego S: Degasperi M: Fontana F: Licastro D: Marcello A: Piscianz F: Segat L ARGO Laboratorio Genomica ed Epigenomica EPI\_ISL\_2645281 SD Public Health Laboratory Centers for Disease Control and Alison Laufer Halpin; Ben L. Rambo-Martin; Clinton R. Paden; Dakota Howard; Darlene Wagner; Dave Wentworth; Dhwani Batra; Jasmine Padilla; Justin Lee: Katie Dillon; Krista Oueen; Kristen Knipe; Kristine Lacek; Mark Burroughs; Matthew Schmerer; Mili Sheth; Peter Cook Prevention Division of Viral Sam Shepard: Sarah Nobles: Shoshona Le: Suxiang Tong: Vivien Dugan: Yvette Unoarumh Diseases, Pathogen Discovery EPI ISL 2686086 SELAS LABOSLID Inovie AS GenRic VERCRITYSSEN Florian I ALIRENT Pauline EPI\_ISL\_2695234, EPI\_ISL\_2695238, EPI\_ISL\_2695239, EPI\_ISL\_2695241, EPI\_ISL\_2695243, EPI\_ISL\_2695247, EPI\_ISL\_2695257 SESARAM Instituto Nacional de Saude (INSA) see above Borges et al EPI ISL 2673654 SIESP CHIETI - DRIVE IN VASTO Istituto Zooprofilattico Ancora M: Calistri P: Cammà C: Caporale M: Curini V: Delli Compagni E: Di Domenico M: Di Lollo Valeria: Di Pasquale A: Lorusso A: Mangone I: Marcacci M: Puglia I: Rinaldi A: Savini G: Scialabba S EPI\_ISL\_2673660 Sperimentale dell'Abruzzo e Molise "G. 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NIMHANS Ananthanadmanahha Kotambail: Anita S Desai: Anson Kunjumon George: Chetan G K: Chitra Pattahiraman: Darshan Sreeniyas: Filango Ramasamy: Gautham Arunachal Uduni: Mahesh Kumar C S: Sony Sharma: V Ravi EPI\_ISL\_2728270 FPI ISI 2728271 EPI ISL 2728471 EPI ISL 2685852, EPI ISL 2685856, EPI ISL 2685858, EPI ISL 2685859, EPI ISL 2685879, EPI ISL 2685870, EPI ISL 2685873, EPI ISL 2728633, EPI ISL 2728633 Bouchra Bouiemla: Claire Gourzonès: Cécile Meex: Keith Durkin: Laurent Gillet: Maria Artesi: Marie-Pierre Havette: Nadine Cambisano: Nathalie Renotte: Olivier Ek: Pierrette Melin: Raphaël Boreux: Sébastien Bontems: Vincent Bours see above SYNI AR GIGA Medical Genomics EPI ISL 26927592, EPI ISL 26927642, EPI ISL 26927042, EPI ISL 2692704, EPI ISL 26927070, EPI ISL 26927708, EPI ISL 26927736, EPI ISL 26927746, EPI ISL 26927746, EPI ISL 26927746, EPI ISL 26927754, EPI ISL 26927754, EPI ISL 26927746, EPI ISL 26927746, EPI ISL 26927746, EPI ISL 26927746, EPI ISL 26927754, EPI ISL 26927 EPI\_ISL\_2692791, EPI\_ISL\_2692826, EPI\_ISL\_2692827, EPI\_ISL\_2692829, EPI\_ISL\_2692832 Salud Digna Instituto Nacional de Medicina Abraham Campos-Romero: Cedro-Tanda A; Escobar-Arrazola; Gonzalez-Barrera D; Herrera-Montalyo LA; Hidalgo-Miranda A; Luna-Ruiz Marco: M; Mendoza-Vargas A; Moreno-Camacho losé Luis; Munguia-Garza P; Ramirez-Vega O; Rangel-DeLeon D; Reves-Graieda IP Rodriguez-Gallegos Jorge Genomica EPI\_ISL\_2658598 Santa Clara County Public Health Laboratory CZB Cliahub Consortium Chan-Zuckerberg Biohub EPI\_ISL\_2658987, EPI\_ISL\_2658993, EPI\_ISL\_2658999, EPI\_ISL\_2659011, EPI\_ISL\_2659011, EPI\_ISL\_2659027, EPI\_ISL\_2659027, EPI\_ISL\_2659048, EPI\_ISL\_2659048, EPI\_ISL\_2659011, EPI\_ISL\_26591232, EPI\_ISL\_2691232, EPI\_ISL\_2691249, EPI\_ISL\_2691268, EPI\_ISL\_2691273, EPI\_ISL\_2691282, EPI\_ISL\_26912130, EPI\_ISL\_26912130, EPI\_ISL\_2691232, EPI\_ISL\_2691249, EPI\_ISL\_2691268, EPI\_ISL\_2691268, EPI\_ISL\_2691273, EPI see above Santa Clara Valley Medical Center Santa Clara County Public Health Santa Clara County Public Health Department Laboratory EPI\_ISL\_2692230, EPI\_ISL\_2735897, EPI\_ISL\_2735929, EPI\_ISL\_2735940, EPI\_ISL\_2735941, EPI\_ISL\_2735943, EPI\_ISL\_2736012, EPI\_ISL\_2736461, EPI\_ISL\_2736470 see above Seattle Flu Study Seattle Flu Study Amanda Adler; Barry R. Lutz; Benjamin Pelle; Caitlin R. Wolf; Chris D. Frazar; Deborah A. Nickerson; Elisabeth Brandstetter; Erica Ryke; Helen Y. Chu; Janet A. Englund; Jay Shendure; Jeff Duchin; Jover Lee; Kairsten Fay; Karen Cowgill; Kirsten Lacombe; Lea M. Starita; Mark J. Rieder: Matthew Richardson: Matthew Thompson: Melissa Truong: Michael Boeckh: Michael Famulare: Misja Ilcisin: Peter D. Han: Stephanie Schrag: Thomas R. Sibley: Trevor Bedford EPI\_ISL\_2689692, Servicio de Microbiologia Hospital Ramon y Cajal Servicio de Microbiologia Hospital Galan IC: Martinez I. Abreu M: Ponce M: v Gonzalez-Alba IN EPI\_ISL\_2689695 Ramon y Cajal FPI ISI 2689701 EPI ISL 2689708 EPI ISL 2689730 EPI\_ISL\_2689734 EPI ISL 2658186, EPI ISL 2658187, EPI ISL 2658190, EPI ISL 2658190, EPI ISL 2658191, EPI ISL 2658219, EPI ISL 2658219, EPI ISL 2658223, EPI ISL 2658224, EPI ISL 26582447, EPI ISL 2658249, EPI ISL 2658254, EPI ISL 2658254, EPI ISL 2658256, EPI ISL 2658260, EPI I see above Servicio de Microbiología, Consorcio Hospital General Universitario de SenCOVID-SPAIN Begoña Fuster Escrivá: Carme Salvador García: Concepción Gimeno Cardona and SegCOVID-SPAIN consortium: María Dolores Ocete: Rafael Medina González Valencia consortium/IBV(CSIC) EPI ISL 2712544 Sharp HealthCare Laboratory Andersen lab at Scripps Research Art Mendoza: Cathy Woerle: Jacquelyn Berumen: Liam McGinnis: Omid Bakhtar: SEARCH Alliance San Diego with Aaron Harding EPI\_ISL\_2712545 EPI ISL 2712546 EPI\_ISL\_2712548 EPI ISL 2712551 EPI ISL 2675216, South Dakota Public Health Laboratory South Dakota Public Health Jacob Garfin and Chris Carlson EPI ISL 2675217 EPI\_ISL\_2650454, EPI\_ISL\_2650455, EPI\_ISL\_2650456, EPI\_ISL\_2650460, EPI\_ISL\_2650464, EPI\_ISL\_2650465, EPI\_ISL\_2650466 see above South Eastern Area Laboratory Services (SEALS) NSW Health Pathology - Institute CIDM-PH et al. of Clinical Pathology and Medical Research; Westmead Hospital University of Sydney EPI ISL 2716892, EPI ISL 2716897, EPI ISL 2716997, EPI IS

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Laboratoriumsmedizin EPI ISL 2678464 EDI ISI 2678466 EPI ISL 2678469 EPI\_ISL\_2693669, Institute of Tropical Disease, Surabava Health Office Aldise M Nastri: Febria Rachmanita: Gatot Soegiarto: Herlin Ferliana: Jezzy R Dewantari: Kazufumi Shimizu; Krisnoadi Rahardio: Laksmi Wulandari: Maria I Lusida: Resti Yudhawati: Rima R Prasetva: Soetiipto: Yasuko Mori EPI\_ISL\_2693670 Universitas Airlangga EPI\_ISL\_2650469 Sydney South West Pathology Service (SSWPS) - Royal Prince Alfred NSW Health Pathology - Institute CIDM-PH et al. 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UHTL. University Hospitals UHTL. University Hospitals Alouani, D.: Sadri, N.: Song, X. EPI ISL 2661540 EPI ISL 2661541 FPI ISI 2695410 ULS Alto Minho Instituto Nacional de Saude (INSA) Borges et al EPI ISL 2695124, EPI ISL 2695125, EPI ISL 2695125, EPI ISL 2695126, EPI ISL 2695127, EPI ISL 2695137, EPI ISL 2695137, EPI ISL 2695140, EPI ISL 2695141, EPI ISL 2695141, EPI ISL 2695143, EPI ISL 2695144, EPI ISL 2695144, EPI ISL 2695144, EPI ISL 2695145, EPI ISL 2695145, EPI ISL 2695147, EPI IS EPI ISL 2695146, EPI ISL 2695147, EPI ISL 2695148, EPI ISL 2695149, EPI ISL 2695150, EPI ISL 2695151, EPI ISL 2695152, EPI ISL 2695153, EPI ISL 2695154, EPI ISL 2695155, EPI ISL 2695156, EPI ISL 2695157, EPI ISL 2695158 see above ULS Castelo Branco Instituto Nacional de Saude (INSA) Borges et al EPI\_ISL\_2695306, EPI\_ISL\_2695307, EPI\_ISL\_2695308, EPI\_ISL\_2695309, EPI\_ISL\_2695310, EPI\_ISL\_2695311, EPI\_ISL\_2695312 Instituto Nacional de Saude (INSA) Borges et a EPI ISL 2695164, EPI ISL 2695165, EPI ISL 2695165, EPI ISL 2695166, EPI ISL 2695167, EPI ISL 2695167, EPI ISL 2695176, EPI ISL 2695181, EPI IS EP IS, 2695186 EP IS, 2695187 EP IS, 2695197 EP IS, 2695198 EP IS, 2695198 EP IS, 2695199 EP IS, 2695199 EP IS, 2695207 EP IS, 2695208 EP IS, EPI ISL 2695209, EPI ISL 2695210, EPI ISL 2695211, EPI ISL 2695212, EPI ISL 2695212, EPI ISL 2695212, EPI ISL 2695213, EPI ISL 2695213, EPI ISL 2695214, EPI ISL 2695215, EPI ISL 2695215, EPI ISL 2695215, EPI ISL 2695216, EPI ISL 2695216, EPI ISL 2695216, EPI ISL 2695216, EPI ISL 2695217, EPI ISL 2695217, EPI ISL 2695218, EPI ISL 2695219, EPI IS ULS Litoral Alenteiano Instituto Nacional de Saude (INSA) see above Borges et al and Institute of Biomedicine (iBiMed). Universidade de Aveiro EPI\_ISL\_2695322, EPI\_ISL\_2695330, EPI\_ISL\_2695331, EPI\_ISL\_2695332, EPI\_ISL\_2695333, EPI\_ISL\_2695334, EPI\_ISL\_2695337, EPI\_ISL\_2695338 III SM - Matosinhos Instituto Nacional de Saude (INSA) Borges et al EPI ISL 2726793 UM im. Karola Marcinkowskiego w Poznaniu Laboratorium UCA Covid-19 1. National Institute of Public Dominik Strapagiel: Izabela Dróżdź: lakub Lach: Katarzyna Zacharczuk; Klaudyna Królikowska: Maciei Borowiec; Magdalena Nowakowska; Magdalena Traczyk-Borszyńska; Marcin Słomka; Marta Sobalska-Kwapis; Małgorzata Sadkowska-Todys; Tomasz Płoszai; Tomasz Centrum Biologii Medycznej 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 1. Tricity SARS-CoV-2 sequencing EPI ISL 2681042 UM im. Karola Marcinkowskiego w Poznaniu Laboratorium UCA Covid-19 Celina Cybulska; Karolina Gackowska; Katarzyna Groth; Katarzyna Zacharczuk; Krystyna Bienkowska Szewczyk; Lukasz Rabalski; Maciej Grzybek; Maciej Kosinski; Magdalena Nowakowska; Marcin Lubocki; Malgorzata Sadkowska-Todys; Tomasz Wołkowicz Centrum Biologii Medycznei consortium: University of Gdansk Medical University of Gdansk, Vavican Ltd. 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Centers for Disease Control and Alison Laufer Halpin: Ben L. Rambo-Martin: Clinton R. Paden: Dakota Howard: Darlene Wagner: Dave Wentworth: Dhwani Batra: Jasmine Padilla: Justin Lee: Katie Dillon: Krista Queen: Kristen Knine: Kristine Lacek: Mark Burroughs: Matthew Schmerer: Mili Sheth: Peter Cook UT-Unified State Labs: Public Health Utah DOH Prevention Division of Viral Sam Shepard; Sarah Nobles; Shoshona Le; Suxiang Tong; Vivien Dugan; Yvette Unoarumh

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EPI\_ISL\_2681130, Unidad de Investigación Médica de Yucatán (UIMY) ; Alejandra García-Gasca; Alejandra Hernández-Terán; Alejandro Sánchez-Flores; Alfredo Herrera-Estrella; Alicia Ocaña-Mondragón; Andreu Comas-García; Angel Gustavo Salas-Lais; Antonio Loza Román; Bernardo Martínez-Miguel; Blanca Taboada; Brenda Irasema Instituto de Biotecnología de la EPI ISL 2681218 UNAM Maldonado-Meza; Bruno Gómez-Gil; Carla Ivón Herrera-Najera; Carlos F. Arias; Celia Boukadida; Clara Esperanza Santacruz-Tinoco; Concepción Grajales-Muñiz; Consorcio Mexicano de Vigilancia Genómica (CoViGen-Mex). Authors (in alphabetical order): Julio Elias Alvarado EPI ISL 2681326 Yaah: Cristóbal Cháidez-Ouiróz: Célida Duque Molina: Célida Martínez- Rodríguez: Daniel Fregoso-Rueda: Daniel Lira Morales: Eduardo Becerril-Vargas: Fernando Fontove-Herrera: Fidencio Meiía-Nepomuceno: Francisco Pulido: Gloria Elena Espinosa-Avala: Gloria María Molina-Salinas: Gloria Vazquez: Hector Esteban Paz-Juárez; Hector Montova-Fuentes: Helen Haydee Fernanda Ramírez-Plascencia; Irvin González-López; Jean Pierre González; Jesús Hernández; Joel Armando Vázquez-Pérez.; Jorge Salas-Hernández; José Antonio Enciso-Moreno; José Arturo Martínez-Orozco; José Esteban Muñoz-Medina; José de Jesús Nuñez-Contreras; Juan Bautista Chale-Dzul; Julissa Enciso-Ibarra; Luis Alberto Ochoa-Carrera; Margarita Matías-Florentino; Mario Mújica-Sánchez; Marissa Perez-Garcia; María Guadalupe Santiago-Maurício; María Guadalune de Jesús Mireles-Rivera: Nelly Sélem-Mojica: Pavel Isa: Ricardo Ciria Merce: Ricardo Grande: Rosa María Gutiérrez Rios: Santiago Ávila-Ríos: Selene Zárate: Susana Lopez: Verónica Mata-Haro: Victor Eduardo García-Arias: Víctor Hugo Boria-Aburto EPI\_ISL\_2678452 Uniklinikum Carl Gustav Carus an der TU Dresden; Institut für Virologie Robert Koch Institute

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EPI\_ISL\_2675078. Vestfold Hospital, Toensberg Department of Microbiology Morwegian Institute of Public Atiya R Ali; Debech Nadia; Engebretsen Serina Beate; Garcia Llorente Ignacio; Hilde Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elphaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elphaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elphaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Olav Hungnes; Pedersen Benedikte Elshaug; Hilde Vollan; Jon Bråte; Kamilla Heddeland Instefjord; Karoline Bragstad; Kathrine Stene-Johansen; Line Victoria Moen; Marie Paulsen Madsen; Paulsen Madsen; Paulsen Marie Paulsen Madsen; Paulsen

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Andrea Patrizia Salzmann; Chaoran Chen; Christiane Beckmann; Christoph Noppen; Elodie Burcklen; Henriette Kurth; Ina Nissen; Ivan Topolsky; Kim Philipp Jablonski; Lara Fuhrmann; Maurice Redondo; Mirjam Feldkamp; Natascha Santacroce; Niko Beerenwinkel; Olivier Kobel; Rebecca Denes; Sarah Nadeau; Tanja Stadler

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Sam Shepard, Sarah Nobles; Shoshona Let, Suxlang Tong; Vivien Dugan; Yvette Unoarumhi

see above WHO National Influenza Centre Russian Federation WHO National Influenza Centre Russian Federation WHO National Influenza Centre Russian Federation Safina; Kseniya Komissarova; Maria Pisareva; Mikhail Bakaev; Nikita Yolshin; Oula Mansour; Tamila Musaeva; Veronika Eder Russian Federation

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Università degli Studi di Perugia

s Washington State Department of Avi Singh; Darren Lucas; Denny Russell; Drew MacKellar; Geoff Melly; Hannah Gray; Joenice Gonzalez; JohnAric Peterson; Philip Dykema; Rebecca Cao; Vanessa De Los Santos Health Public Health Laboratories

Ancora M; Biagetti M; Calistri P; Camilloni B; Cammà C; Curini V; Delli Compagni E; Di Domenico M; Di Pasquale A; Giammarioli M; Lorusso A; Mangone I; Marcacci M; Mencacci A; Puglia I; Rinaldi A; Savini G; Scialabba S

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 EPI\_SL\_2657689,
 Wexner Medical Center
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 Koenig, S.; Seminetta, J

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Epidemiologiczno-Klinicznych

see above Wichita State University - Molecular Diagnostics Lab Kansas Health and Environmental Ben Olsen; Jonathan Barnell; Katherine Wiggins; Mike Grose; and Phil Adam Lab

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see above Wisconsin State Laboratory of Hygiene Communicable Disease Division Wisconsin State Laboratory of Hygiene Communicable Disease Division Abigail C. Shockey; Alicia J. Mooney; Erika M. Hanson; Kelsey R. Florek; Richard Griesser; Sara Wagner; Tonya Danz Hygiene Communicable Disease Division

EPI\_ISL\_2692924, Wojewodzka Stacja Sanitarno-Epidemiologiczna w Olsztynie, EPI\_ISL\_2692925, Laboratorium Badan Epidemiologiczna w Olsztynie, Epi\_ISL\_2692956, Epi\_ISL\_2692956, Laboratorium Badan Epidemiologiczna w Olsztynie, Epi\_ISL\_2692956, Epi\_ISL\_269

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see above Wyoming Public Health Laboratory Wyoming Public Health Laboratory Ashley Norberg; Brian Dominguez; Cari Sloma; Channing Weber; Chayse Rowley; Elliot Thomasson; Jim Mildenberger; Marley Goetz; Robert Petit; Sam Britz; Taylor Fearing; and Rob Christensen

EPI\_ISL\_2716234 Yale Clinical Virology Lab Grubaugh Lab - Yale School of Anderson Brito; Annie Watkins; Chaney Kalinich; Chantal Vogels; Isabel Ott; Jessica Rothman; Joseph Fauver; Mallery Breban; Marie L. Landry; Mary Petrone; Nathan Grubaugh; Tara Alpert

Public Health

Irena Tabain: Ivana Ferenčak

Zavod za javno zdravstvo Međimurske Županije Hrvatski zavod za javno zdravstvo

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see above Zavod za javno zdravstvo Šibensko- Kninske Županije Hrvatski zavod za javno zdravstvo Irena Tabain; Ivana Ferenčak