

We gratefully acknowledge the following Authors from the Originating laboratories responsible for obtaining the specimens, as well as the Submitting laboratories where the genome data were generated and shared via GISAID, on which this research is based.

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EPI_ISL_2094412, EPI_ISL_2094413, EPI_ISL_2094414, EPI_ISL_2094415, EPI_ISL_2094416	Max von Pettenkofer Institute, Virology, National Reference Center for Retroviruses, LMU Munich	Laboratory for Functional Genome Analysis; Dept. Genomics; Gene Center of the LMU Munich	Alexander Graf; Helmut Blum; Max Muenchhoff; Oliver Keppler; Stefan Krebs
EPI_ISL_1093052, EPI_ISL_1093144	Maya Juarez, Div. of Pulmonary, Critical Care and Sleep Medicine, UC Davis Medical Center	Díaz-Muñoz Lab, Department of Microbiology and Molecular Genetics, University of California, Davis	A.J. Campbell; Alexandre Tremereau-Bravard; Ana M. M. Stoian; Angela Haczk; Brandt A Robinson; Christian Sandrock; Daniel G Tompkins; David A. Coll; Greg Brennan; Ivy R. Jose; Jonathan A. Eisen; Maya Juarez; Samuel L Díaz-Muñoz; Satya Dandekar; Shefali Banerjee; Stefan Rothenburg; Stuart H. Cohen; Timothy Albertson; Tracey Goldstein
EPI_ISL_540430	Microbial Genomics Laboratory, Institut Pasteur de Montevideo, Montevideo, Uruguay	Microbial Genomics Laboratory, Institut Pasteur de Montevideo, Montevideo, Uruguay	Cecilia Salazar; Gonzalo Moratorio; Gregorio Iraola; Marianoel Pereira; Pilar Moreno
EPI_ISL_429874	Microbiology, Virology and Biemergency Laboratory-ASST FBF Sacco	Microbiology, Virology and Biemergency Laboratory-ASST FBF Sacco	Rimoldi SG; Stefani F
EPI_ISL_499042	National Institute for Biological Standards and Control (NIBSC)	National Institute for Biological Standards and Control (NIBSC)	Dimitra Klapsa; Javier Martin; Thomas Wilton
EPI_ISL_469256, EPI_ISL_591272, EPI_ISL_591273, EPI_ISL_591274, EPI_ISL_591275, EPI_ISL_591276, EPI_ISL_591277, EPI_ISL_591278, EPI_ISL_591279, EPI_ISL_591280, EPI_ISL_2170885, EPI_ISL_2170886, EPI_ISL_2170892, EPI_ISL_2170893, EPI_ISL_2170894	see above	National Institute for Viral Disease Control and Prevention, China CDC	; 10; 4&; 7; Baoying Huang3; Cao Chen; Cao Chen3&; Chun Huang; Dayan Wang; Dayan Wang3; Dongyan Wang3; Fengqin Li6; George F. Gao; George F. Gao; George Fu Gao1; Guizhen Wu; Haibo Sun5; Hong Wang; Hong Wang3; Huilai Ma; Huilai Ma1&; Ji Wang; Ji Wang3&; Jian Cai1; Jianqun Zhang2&; Jianxing Yu1; Jingdong Song; Jun Han; Jun Meng2; Li Bai6; Li Zhao3; Liang Wang1; Lingling Mao5; Mingchun Luan2; Naiying Mao3; Ning Li6; Peihua Niu3; Qian Yang3; Ruqin Gao; Shaofeng Jiang9; Shihong Yang2; Shiwen Wang; Shuangli Zhu3; Tao Ma1; Tianjiao Ji3; Wei Yao2*; Weifeng Shi; Wenbo Xu; Wenbo Xu3*; Wenjie Tan3; Wenqing Yao5*; William J. Liu; Xiang Ren1; Xiang Zhao; Xiang Zhao3; Xiang Zhao ; Lijuan Chen; Yan Zhang3; Yang Song3&; Yanhai Wang; Yanhai Wang3; Yao Meng; Yao Meng ; Zhixiao Chen , Yuchao Wu; Yecheng Yao11; Ying Qin1&; Yingwei Sun5; Yong Zhang; Yong Zhang3; Yuchao Wu; Yunting Xia&; Zhaoguo Wang; Zhen Zhu3; Zhijian Bo2; Zhixiao Chen; Zhongjie Li1; Zijian Feng1*
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EPI_ISL_2250234, EPI_ISL_2250235	One Health Research Division, Center for Molecular Dynamics Nepal	One Health Research Division, Center for Molecular Dynamics Nepal	Manandhar; Napit, R.; P. and Karmacharya, D.
EPI_ISL_412425, EPI_ISL_412426	Shandong Provincial Center for Disease Control and Prevention	Beijing Institute of Microbiology and Epidemiology	Dian-Ming Kang; Li-Jun Duan; Lin-Yao; Mai-Juan Ma; Wen-Kui Sun; Xiang-Na Zhao; Xiao Wei; Xiao-Lin Jiang; Yang Hang; Zeng-Qiang Kou
EPI_ISL_1036658	Tyler Radniecki	Center for Genome Research and Biocomputing	Oregon State University TRACE Project
EPI_ISL_455682	University of Florida	University of Florida	C.-Y.; J.A.; J.G.; Lauzardo; Lednický; M. and Morris; Wu
EPI_ISL_510160	Utah Public Health Laboratory	Pathogen Discovery, Respiratory Viruses Branch, Division of Viral Diseases, Centers for Disease Control and Prevention	Anna Uehara; Clinton R. Paden; Haibin Wang; Jing Zhang; Kerrie Franzen; Krista Queen; Mary L. Killian; Suxiang Tong; Yan Li; Ying Tao