

**Table S1.** GISAID's EpiFlu™ Database acknowledgment table.

We gratefully acknowledge the authors, originating and submitting laboratories of the sequences from GISAID's EpiFlu™ Database on which this research is based in part. The list is detailed below.								
<a href="http://www.gisaid.org">All submitters of data may be contacted directly via www.gisaid.org</a>								
Segment ID	Segment	Country	Collection date	Isolate-ID	Isolate_name	Originating Lab	Submitting Lab	Authors
<a href="#">EPI1942914</a>	HA	Belgium	2020-Dec-26	<a href="#">EPI_ISL_7622862</a>	A/Anser_brachyrhynchus/Belgium/151/2020	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Vandenbussche, Frank; Roupie, Virginie; Lambrecht, Benedicte; Steensels, Mieke
<a href="#">EPI1848934</a>	HA	United Kingdom	2021-Feb-10	<a href="#">EPI_ISL_1123361</a>	A/pheasant/Scotland/000348/2021	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1849453</a>	HA	Netherlands	2020-Nov-10	<a href="#">EPI_ISL_1139102</a>	A/swan/Netherlands/20017772-002/2020	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1924123</a>	HA	United Kingdom	2021-Oct-24	<a href="#">EPI_ISL_5804708</a>	A/mute_swan/England/053054/2021	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1938828</a>	HA	Sweden	2021-Nov-08	<a href="#">EPI_ISL_7050532</a>	A/western_jackdaw/Sweden/SVA2111115 Z0376/FB004483/2021	National Veterinary Institute, SVA	National Veterinary Institute	
<a href="#">EPI1807259</a>	HA	Netherlands	2020-Oct-16	<a href="#">EPI_ISL_603135</a>	A/Eurasian_Wigeon/Netherlands/5/2020	Erasmus Medical Center	Erasmus Medical Center	
<a href="#">EPI1933031</a>	HA	Egypt	2020-Dec-23	<a href="#">EPI_ISL_6816054</a>	A/chicken/Egypt/CAI11/2020		Import from public-domain	Khalil,H.S.; Abd El-Hamid,H.S.; Ellakany,H.F.; Elbestawy,A.R.; Mohamed,A.S.A.
<a href="#">EPI1933029</a>	HA	Egypt	2020-Oct-08	<a href="#">EPI_ISL_6816052</a>	A/chicken/Egypt/MEN6/2020		Import from public-domain	Khalil,H.S.; Abd El-Hamid,H.S.; Ellakany,H.F.; Elbestawy,A.R.; Mohamed,A.S.A.
<a href="#">EPI1933028</a>	HA	Egypt	2020-Feb-14	<a href="#">EPI_ISL_6816051</a>	A/chicken/Egypt/GIZ4/2020		Import from public-domain	Khalil,H.S.; Abd El-Hamid,H.S.; Ellakany,H.F.; Elbestawy,A.R.; Mohamed,A.S.A.
<a href="#">EPI1904329</a>	HA	Egypt	2020-Sep-01	<a href="#">EPI_ISL_4072778</a>	A/chicken/Egypt/v1526/2020		Import from public-domain	El-Hoseny,M.M.; Hagag,N.M.; Adel,A.; EL-Zanaty,A.; Seleem,K.; Arafa,A.; Shahien,M.
<a href="#">EPI1848838</a>	HA	United Kingdom	2020-Dec-16	<a href="#">EPI_ISL_1123263</a>	A/chicken/Scotland/043405/2020	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1846305</a>	HA	United Kingdom	2021-Jan-05	<a href="#">EPI_ISL_996003</a>	A/chicken/Northern_Ireland/2021-000067_21VIR114-19/2021	AFBI - Agri-Food & Bioscience Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	McMenamy, MJ.; Harkin, V.; Lemon, K.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Pastori, A.; Monne, I.; Terregino, C.

<a href="#">EPI1933027</a>	HA	Egypt	2020-Jan-15	<a href="#">EPI ISL 6816050</a>	A/Duck/Egypt/BEH2/2020		Import from public-domain	Khalil,H.S.; Abd El-Hamid,H.S.; Ellakany,H.F.; Elbestawy,A.R.; Mohamed,A.S.A.
<a href="#">EPI1850269</a>	HA	Netherlands	2021-Feb-01	<a href="#">EPI ISL 1224989</a>	A/common_buzzard/Netherlands/21022834-002/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1945522</a>	HA	Finland	2021-May-01	<a href="#">EPI ISL 7778773</a>	A/barnacle_goose/Finland/6247_21VIR7689-6/2021	Finnish Food Authority	Istituto Zooprofilattico Sperimentale Delle Venezie	Tammiranta, N.; Kantala, T.; Laamanen, I.; Gadd, T.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Milani, A.; Giussani, E.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1945485</a>	HA	Finland	2021-Aug-01	<a href="#">EPI ISL 7778768</a>	A/Eurasian_eagle-owl/Finland/10617_21VIR7689-15/2021	Finnish Food Authority	Istituto Zooprofilattico Sperimentale Delle Venezie	Tammiranta, N.; Kantala, T.; Laamanen, I.; Gadd, T.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Milani, A.; Giussani, E.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1945469</a>	HA	Finland	2021-Aug-01	<a href="#">EPI ISL 7778766</a>	A/European_herring_gull/Finland/9722_21VIR7689-13/2021	Finnish Food Authority	Istituto Zooprofilattico Sperimentale Delle Venezie	Tammiranta, N.; Kantala, T.; Laamanen, I.; Gadd, T.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Milani, A.; Giussani, E.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1945381</a>	HA	Estonia	2021-May-16	<a href="#">EPI ISL 7778755</a>	A/white-tailed_eagle/Estonia/TA2111864-2_21VIR7512-6/2021	Estonian Veterinary and Food Laboratory	Istituto Zooprofilattico Sperimentale Delle Venezie	Nurmoja, I.; Vilem, A.; Juurik, T.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Milani, A.; Giussani, E.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1883621</a>	HA	Romania	2021-Apr-08	<a href="#">EPI ISL 3102081</a>	A/mute_swan/Romania/11981-1_21VIR3163-5/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Onita, I.; Neicut, A.; Raluca, B.; Razvan, M.; Florica, B.; Zecchin, B.; Fusaro, A.; Giussani, E.; Schivo, A.; Salviato, A.; Monne, I.; Terregino, C.
<a href="#">EPI1812367</a>	HA	Netherlands	2020-Oct-28	<a href="#">EPI ISL 632314</a>	A/greylag_goose/Netherlands/20016582-004/2020	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Verschuren-Pritz, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1848910</a>	HA	United Kingdom	2020-Nov-12	<a href="#">EPI ISL 1123358</a>	A/brent_goose/England/095684/2020	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	

<a href="#">EPI1848902</a>	HA	United Kingdom	2020-Nov-08	<a href="#">EPI ISL 1123357</a>	A/brent_goose/England/233339/2020	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1850253</a>	HA	Netherlands	2021-Jan-31	<a href="#">EPI ISL 1224946</a>	A/barnacle_goose/Netherlands/21022611-001/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1811572</a>	HA	Germany	2020-Oct-28	<a href="#">EPI ISL 614400</a>	A/barnacle_goose/Germany-SH/AI02167/2020	Landeslabor Schleswig-Holstein	Friedrich-Loeffler-Institut	
<a href="#">EPI1848662</a>	HA	Russian Federation	2020-Oct-17	<a href="#">EPI ISL 1114745</a>	A/chicken/Kostroma/304-10/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1848654</a>	HA	Russian Federation	2020-Oct-17	<a href="#">EPI ISL 1114742</a>	A/chicken/Kostroma/304-08/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1848646</a>	HA	Russian Federation	2020-Oct-17	<a href="#">EPI ISL 1114741</a>	A/chicken/Kostroma/304-06/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1848614</a>	HA	Russian Federation	2020-Sep-26	<a href="#">EPI ISL 1114736</a>	A/chicken/Tyumen/302-02/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov

<a href="#">EPI1848606</a>	HA	Russian Federation	2020-Sep-26	<a href="#">EPI ISL 1114735</a>	A/chicken/Tyumen/302-01/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1813145</a>	HA	Russian Federation	2020-Aug-17	<a href="#">EPI ISL 644125</a>	A/goose/Omsk/0111/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1813297</a>	HA	Russian Federation	2020-Aug-17	<a href="#">EPI ISL 644144</a>	A/duck/Omsk/0077/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1813281</a>	HA	Russian Federation	2020-Aug-17	<a href="#">EPI ISL 644142</a>	A/duck/Omsk/0075/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1812375</a>	HA	Netherlands	2020-Nov-02	<a href="#">EPI ISL 632315</a>	A/eurasian_teal/Netherlands/20016896-013/2020	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Verschuren-Pritz, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1813129</a>	HA	Russian Federation	2020-Aug-13	<a href="#">EPI ISL 644123</a>	A/turkey/Omsk/0003/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia,Goncharova; Ivan,Susloparov; Natalia,Kolosova; Alexey,Danilenko; Juliya,Bulanovich; Vasiliy,Marchenko; Alexander,Ryzhikov
<a href="#">EPI1843642</a>	HA	Italy	2020-Nov-23	<a href="#">EPI ISL 956412</a>	A/greater_white-fronted_goose/Italy/20VIR8073-4/2020	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO	Istituto Zooprofilattico Sperimentale Delle Venezie	Zecchin, B.; Fusaro, A.; Milani, A.; Schivo, A.; Salviato, A.; Pastori, A.; Zamperin, G.; Monne, I.; Terregino, C.

						Reference Centre for AI and ND		
<a href="#">EPI1858284</a>	HA	Slovakia	2021-Jan-29	<a href="#">EPI ISL 1665261</a>	A/mute_swan/Slovakia/Pah15_21VIR1086-3/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirb?kov?, Z.; Tin?k, M.; Zecchin, B.; Fusaro, A.; Pastori, A.; Schivo, A.; Salviato, A.; Monne, I.; Terregino, C.
<a href="#">EPI1858260</a>	HA	Austria	2021-Feb-10	<a href="#">EPI ISL 1665258</a>	A/mute_swan/Austria/21013162_21VIR1085-5/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Wodak, E.; Revilla Fern?ndez, S.; Schmoll, F.; Zecchin, B.; Fusaro, A.; Pastori, A.; Schivo, A.; Salviato, A.; Monne, I.; Terregino, C.
<a href="#">EPI1930936</a>	HA	Egypt	2021-Nov-01	<a href="#">EPI ISL 6781491</a>	A/Turkey/Egypt/A2/2021		Import from public-domain	Hagag,N.; ElHusseiny,M.; Selim,A.; Zanaty,A.; Arafa,A.
<a href="#">EPI1837949</a>	HA	United Kingdom	2020-Dec-02	<a href="#">EPI ISL 710505</a>	A/turkey/England/038115/2020	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1995204</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007545</a>	A/quail/Niger/22VIR1409-30/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1995196</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007544</a>	A/quail/Niger/22VIR1409-28/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1859803</a>	HA	Netherlands	2021-Mar-17	<a href="#">EPI ISL 2174084</a>	A/common_murre/Netherlands/21025491-002/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1877873</a>	HA	Poland	2021-Apr-20	<a href="#">EPI ISL 2681045</a>	A/white_stork/Poland/MB391/2021	National Veterinary Research Institut Poland, PIWet-PIB	National Veterinary Research Institut Poland, PIWet-PIB	Edyta, Swieton; Kamila, Dziadek; Krzysztof, Smietanka

<a href="#">EPI1995220</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007547</a>	A/chicken/Niger/22VIR1409-9/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1995212</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007546</a>	A/chicken/Niger/22VIR1409-5/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1995188</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007543</a>	A/chicken/Niger/22VIR1409-23/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1995180</a>	HA	Niger	2022-Jan-01	<a href="#">EPI ISL 11007542</a>	A/chicken/Niger/22VIR1409-13/2022	Beijing Genomics Institute (BGI)	Istituto Zooprofilattico Sperimentale delle Venezie	Souley, M.M.; Yaou, B.; Amadou, H.; Haido, A.M.; Issiako, A.; Alassane, A.; Barbierato, G.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Palumbo, E.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1896085</a>	HA	Nigeria	2021-Feb-12	<a href="#">EPI ISL 4061491</a>	A/chicken/Nigeria/VRD21-98_21VIR2288-6/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1898064</a>	HA	Nigeria	2021-Feb-25	<a href="#">EPI ISL 4061490</a>	A/chicken/Nigeria/VRD21-88_21VIR2288-8/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896077</a>	HA	Nigeria	2021-Feb-11	<a href="#">EPI ISL 4061488</a>	A/chicken/Nigeria/VRD21-53B_21VIR2288-5/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.

<a href="#">EPI1896075</a>	HA	Nigeria	2021-Feb-05	<a href="#">EPI ISL 4061486</a>	A/chicken/Nigeria/VRD21-37_21VIR2288-2/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896066</a>	HA	Nigeria	2021-Mar-01	<a href="#">EPI ISL 4061485</a>	A/chicken/Nigeria/VRD21-109_21VIR2370-425/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896058</a>	HA	Nigeria	2021-Mar-01	<a href="#">EPI ISL 4061484</a>	A/chicken/Nigeria/VRD21-102_21VIR2370-424/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896050</a>	HA	Nigeria	2021-Mar-01	<a href="#">EPI ISL 4061483</a>	A/chicken/Nigeria/VRD21-100_21VIR2370-423/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896042</a>	HA	Nigeria	2021-Feb-05	<a href="#">EPI ISL 4061482</a>	A/chicken/Nigeria/VRD21-035B_21VIR2288-1/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1896034</a>	HA	Nigeria	2021-Feb-10	<a href="#">EPI ISL 4061481</a>	A/chicken/Nigeria/VRD21-43_21VIR2288-4/2021		Import from public-domain	Shittu,I.; Meseko,C.; Nwosuh,C.; Muhammad,M.; Alabi,O.; Tassoni,L.; Schivo,A.; Salviato,A.; Edoardo,G.; Zecchin,B.; Fusaro,A.; Monne,I.
<a href="#">EPI1866465</a>	HA	Senegal	2020-Dec-23	<a href="#">EPI ISL 2276070</a>	A/chicken/Senegal/21VIR1084-5/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Lo, F.T.; Diallo, A.A.; Ba, R.O.; Diouf, M.; Diop, A.; Samb, Y.N.; Diouf, M.; Diop, M.; Lo, M.M.; Diouf, M.N.; Zecchin, B.; Tassoni, L.; Fusaro, A.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1866457</a>	HA	Senegal	2020-Dec-23	<a href="#">EPI ISL 2276069</a>	A/chicken/Senegal/21VIR1084-4/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Lo, F.T.; Diallo, A.A.; Ba, R.O.; Diouf, M.; Diop, A.; Samb, Y.N.; Diouf, M.; Diop, M.; Lo, M.M.; Diouf, M.N.; Zecchin, B.; Tassoni, L.; Fusaro, A.; Pastori, A.; Monne, I.; Terregino, C.

<a href="#">EPI1866449</a>	HA	Senegal	2020-Dec-23	<a href="#">EPI ISL 2276068</a>	A/chicken/Senegal/21VIR1084-3/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Lo, F.T.; Diallo, A.A.; Ba, R.O.; Diouf, M.; Diop, A.; Samb, Y.N.; Diouf, M.; Diop, M.; Lo, M.M.; Diouf, M.N.; Zecchin, B.; Tassoni, L.; Fusaro, A.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1858204</a>	HA	Slovakia	2021-Jan-22	<a href="#">EPI ISL 1665250</a>	A/chicken/Slovakia/Pah10_21VIR1086-5/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Dirb?kov?, Z.; Tin?k, M.; Zecchin, B.; Fusaro, A.; Pastori, A.; Schivo, A.; Salviato, A.; Monne, I.; Terregino, C.
<a href="#">EPI1858196</a>	HA	Romania	2021-Feb-23	<a href="#">EPI ISL 1665249</a>	A/chicken/Romania/10101_21VIR2044-1/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Onita, I.; Neicut, A.; Raluca, B.; Razvan, M.; Florica, B.; Zecchin, B.; Fusaro, A.; Pastori, A.; Schivo, A.; Salviato, A.; Monne, I.; Terregino, C.
<a href="#">EPI1838673</a>	HA	Netherlands	2020-Dec-14	<a href="#">EPI ISL 711055</a>	A/chicken/Netherlands/20019879-001005/2020	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1837899</a>	HA	United Kingdom	2020-Nov-19	<a href="#">EPI ISL 710512</a>	A/whistling_duck/England/035643/2020	Animal and Plant Health Agency (APHA)	Animal and Plant Health Agency (APHA)	
<a href="#">EPI1866473</a>	HA	Senegal	2021-Jan-23	<a href="#">EPI ISL 2276071</a>	A/great-white_pelican/Senegal/21-67_21VIR1084-8/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Lo, F.T.; Diallo, A.A.; Ba, R.O.; Diouf, M.; Diop, A.; Samb, Y.N.; Diouf, M.; Diop, M.; Lo, M.M.; Diouf, M.N.; Zecchin, B.; Tassoni, L.; Fusaro, A.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1860087</a>	HA	Spain	2020-Nov-20	<a href="#">EPI ISL 2234814</a>	A/peregrine_falcon/Spain/3365-1_21VIR1230-1/2020	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Ruano Ramos, M.J.; S?nchez S?nchez, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Giussani, E.; Monne, I.; Terregino, C.
<a href="#">EPI1860071</a>	HA	Spain	2021-Jan-27	<a href="#">EPI ISL 2234812</a>	A/anser_anser/Spain/297-1_21VIR1230-5/2021	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO	Istituto Zooprofilattico Sperimentale Delle Venezie	Ruano Ramos, M.J.; S?nchez S?nchez, A.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Giussani, E.; Monne, I.; Terregino, C.



						Reference Centre for AI and ND		
<a href="#">EPI1942402</a>	HA	Belgium	2020-Nov-13	<a href="#">EPI ISL 7596571</a>	A/Pica_pica/Belgium/12100_005/2020	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Vandenbussche, Frank; Roupie, Virginie; Lambrecht, Benedicte; Steensels, Mieke
<a href="#">EPI1922851</a>	HA	Denmark	2021-Mar-01	<a href="#">EPI ISL 5449305</a>	A/barnacle_goose/Denmark/17572-1.01/2021-03-01	Statens Serum Institute	Statens Serum Institute	Hjulsager, C
<a href="#">EPI1862722</a>	HA	Netherlands	2021-May-13	<a href="#">EPI ISL 2227277</a>	A/barnacle_goose/Netherlands/21028534-002/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1859739</a>	HA	Netherlands	2021-Feb-22	<a href="#">EPI ISL 2172528</a>	A/barnacle_goose/Netherlands/21024066-001/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1814675</a>	HA	Belgium	2020-Nov-07	<a href="#">EPI ISL 661313</a>	A/Anser_albifrons/Belgium/11956_005/2020	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Mathijs, Elisabeth; Vandenbussche, Frank; van den Berg, Thierry; Lambrecht, Bénédicte; Steensels, Mieke
<a href="#">EPI1882551</a>	HA	Kazakhstan	2020-Sep-22	<a href="#">EPI ISL 2932612</a>	A/goose/Kazakhstan/7-20-B-Talg-12/2020	National Veterinary Reference Center	National Center of Biotechnology Republic of Kazakhstan	Asylulan, Amirgazin; Alexandr, Shevtsov; Karibayev, Talgat; Tashkenbayev, Arman; Suraganova, Fariza; Kozhakhmetova, Tamila
<a href="#">EPI1942903</a>	HA	Belgium	2020-Dec-03	<a href="#">EPI ISL 7622619</a>	A/Anser_Brachyrhynchus_Anser_Anser/Belgium/13846/2020	Sciensano - Animal Infectious Diseases	Sciensano, Department of Animal Infectious Diseases	Van Borm, Steven; Vandenbussche, Frank; Roupie, Virginie; Lambrecht, Benedicte; Steensels, Mieke
<a href="#">EPI1938836</a>	HA	Sweden	2021-Nov-09	<a href="#">EPI ISL 7053000</a>	A/common_buzzard/Sweden/SVA2111115 Z0376/FB004484/2021	National Veterinary Institute, SVA	National Veterinary Institute	
<a href="#">EPI1846297</a>	HA	United Kingdom	2020-Dec-31	<a href="#">EPI ISL 995172</a>	A/chicken/Northern_Ireland/2020-17671_21VIR113-11/2020	AFBI - Agri-Food & Bioscience Institute	Istituto Zooprofilattico Sperimentale Delle Venezie	McMenamy, MJ.; Harkin, V.; Lemon, K.; Zecchin, B.; Fusaro, A.; Schivo, A.; Salviato, A.; Pastori, A.; Monne, I.; Terregino, C.
<a href="#">EPI1882548</a>	HA	Kazakhstan	2020-Sep-15	<a href="#">EPI ISL 2932609</a>	A/duck/Kazakhstan/12-20-B-Talg-11/2020	National Veterinary Reference Center	National Center of Biotechnology Republic of Kazakhstan	Asylulan, Amirgazin; Alexandr, Shevtsov; Karibayev, Talgat; Tashkenbayev, Arman;

								Suraganova, Fariza; Kozhakhmetova, Tamila
<a href="#">EPI1847700</a>	HA	Netherlands	2021-Jan-09	<a href="#">EPI_ISL_1048240</a>	A/common_buzzard/Netherlands/210213-96-002/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1815142</a>	HA	Italy	2020-Nov-21	<a href="#">EPI_ISL_683592</a>	A/Eurasian_wigeon/Italy/20VIR7301-206/2020	Istituto Zooprofilattico Sperimentale delle Venezie, EU/OIE/Reference Laboratory and FAO Reference Centre for AI and ND	Istituto Zooprofilattico Sperimentale Delle Venezie	Zecchin, B.; Fusaro, A.; Pastori, A.; Milani, A.; Salviato, A.; Schivo, A.; Monne, I.; Terregino, C.
<a href="#">EPI1859811</a>	HA	Netherlands	2021-Mar-22	<a href="#">EPI_ISL_2174728</a>	A/barnacle_goose/Netherlands/21025769-002/2021	Wageningen Bioveterinary Research	Wageningen Bioveterinary Research	Beerens, Nancy; Harders, Frank; Pritz-Verschuren, Sylvia; Roose, Marit; Germeraad, Evelien; Engelsma, Marc; Bossers, Alex; Heutink, Rene
<a href="#">EPI1882563</a>	HA	Kazakhstan	2020-Oct-09	<a href="#">EPI_ISL_2932683</a>	A/chicken/Kazakhstan/1-20-B-Talg-67/2020	National Veterinary Reference Center	National Center of Biotechnology Republic of Kazakhstan	Asylulan, Amirgazin; Alexandr, Shevtsov; Karibayev, Talgat; Tashkenbayev, Arman; Suraganova, Fariza; Kozhakhmetova, Tamila
<a href="#">EPI1814337</a>	HA	Russian Federation	2020-Sep-08	<a href="#">EPI_ISL_654833</a>	A/chicken/Chelyabinsk/201/2020	State Research Center of Virology and Biotechnology (VECTOR)	State Research Center of Virology and Biotechnology (VECTOR)	Natalia, Goncharova; Ivan, Susloparov; Natalia, Kolosova; Alexey, Danilenko; Juliya, Bulanovich; Vasilii, Marchenko; Alexander, Ryzhikov