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Supplementary Material

Investigating substitutions in antibody-antigen complexes using molecular dynamics: a case study with broad-spectrum, influenza A antibodies

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Table S1 - List of H1 and H3 strains including the N19 and F45 substitutions

Subtype	Substitution	Strains
H1	I45F	A/Shenzhen/1089/2010 A/Hangzhou/A76/2011 A/Taiwan/90110/2010 A/Guangdong/sz1/2011 A/Guangdong/032/2011 A/Shenzhen/lg63/2011 A/Mexico/InDRE2424/2011 A/Shenzhen/1095/2010 A/Guangdong/147/2011 A/Guangdong/501/2010 A/Mexico/InDRE2425/2011 A/Mexico/InDRE2194/2011 A/Guangdong/379/2010 A/Shenzhen/lg111/2011 A/Hangzhou/3/2009

		A/Qingdao/F166/2011 A/HuZhou/01/2010 A/Taiwan/65854/2010 A/Shenzhen/lg2/2011 A/Guangdong/378/2010 A/Hangzhou/A44/2011 A/Zhejiang/NB143/2011 A/Taiwan/3096/2010 A/New Mexico/06/2011 A/Guangdong/4220/2010 A/New Mexico/05/2011 A/Tianjinjinnan/SWL41/2011 A/Hangzhou/B40/2011 A/Shenzhen/ft36/2011 A/Sydney/DD3-27/2010(H1N1) A/Guangdong/102/2011 A/New Mexico/04/2011 A/California/21/2010 A/Thailand/CU-B4656/2011 A/Mexico/InDRE2419/2011 A/Guangdong/50/2011 A/Guangdong/006/2011 A/Shenzhen/970/2010 A/Guangdong/371/2010 A/Taiwan/90149/2010
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		A/Tianjinhedong/SWL44/2011 A/Shenzhen/lg3/2011 A/Shenzhen/lg120/2011 A/Hangzhou/A50/2011 A/Guangdong/353/2010 A/Shenzhen/1023/2010 A/New Mexico/07/2011 A/Shandong- Lixia/SWL131/2011 A/Guangdong/067/2011 A/Hangzhou/A61/2011 A/Shenzhen/lg19/2011 A/Guangdong/465/2010 A/Singapore/TT58/2011 A/Guangdong/052/2011 A/Amazonas/129967-IEC/2014 A/Shenzhen/ns06/2011 A/Guangdong/033/2011 A/Guangdong/5303/2010 A/Guangzhou/GIRD74/2010 A/Hangzhou/975/2010 A/Guangdong/379/2010 A/Shenzhen/lg26/2011 A/Hangzhou/B47/2011
	D19N	A/New Caledonia/09/2004 A/Auckland/30/2006

		A/New Caledonia/9/2004 A/Malaysia/643/2003 A/New Caledonia/9/2004 A/Malaysia/687/2003 A/Sydney/65/2005 A/Singapore/GP3667/2010 A/Malaysia/643/2003 A/Sydney/65/2005 A/Malaysia/687/2003 A/Auckland/30/2006 A/Madrid/RC11/2009(H1N1) A/Taiwan/90236/2011 A/Sri Lanka/21386/2010
H3	D19N	A/Waikato/1/2004 A/Pavia/07/2014 A/New York/427/1999 A/California/NHRC395507/2013 A/Beijing/353/89
	N49D	A/New York/752/1993 A/New York/704/1994 A/New York/742/1994 A/New York/743/1994 A/New York/734/1994
	E325R	A/Yamagata/K74/2006 A/Yamagata/K32/2006 A/Miyagi/S793/2006

		A/Fukuoka/F316/2006 A/Miyagi/S709/2006
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