BIOINFORMATION

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Supplementary material:

Table 1: siRNA result for Haemagglutinin for Asia

S#	SiRNA target sites + 2 Nucleotides overhang	% conservation
1	CAGCAACTGTTACCCTTATGAtg	82.9 (834/1006)
2	AAGCATCTATTGGACAATAGTaa	81.6 (821/1006)
3	TACGGTTTCAGGCATCAAAATtc	81.2 (817/1006)
4	ACGGTTTCAGGCATCAAAATTct	81.2(817/1006)
5	ATGGAAGCATTCCCAATGACAaa	80.8 (813/1006)
6	TGGAAGCATTCCCAATGACAAac	80.8 (813/1006)
7	CAGCAACTGTTACCCTTATGAtg	72.2 (86/119)
8	TACGGTTTCAGGCATCAAAATtc	72.2 (86/119)
9	ACGGTTTCAGGCATCAAAATTct	72.2 (86/119)
10	GGCAACATTAGGTGCAACATTtg	69.7 (83/119)
11	AGGTGCAACATTTGCATTTGAgt	68 (81/119)
12	ATGGAAGCATTCCCAATGACAaa	67.2 (80/119)
13	TGGAAGCATTCCCAATGACAAac	67.2 (80/119)

Table 2: siRNA result for Neuraminidase for Asia

S#	SiRNA target sites + 2 Nucleotides overhang	% conservation
1	TAGCATGGTCCAGCTCAAGTTgt	85 (1112/1307)
2	CTCAAGTTGTCACGATGGAAAag	84.1 (1100/1307)
3	TGCAACTGCTAGCTTCATTTAtg	83.3 (1090/1307)
4	ATGCAACTGCTAGCTTCATTTat	83.3 (1089/1307)
5	GTGCTTTTATGTGGAGTTGATaa	82 (1073/1307)
6	ATCCAAATCAAAAGATAATAAca	81.4 (1064/1307)
7	ATGAATCCAAATCAAAAGATAat	74 (120/162)
8	ATCCAAATCAAAAGATAATAAca	74 (120/162)
9	TAGCATGGTCCAGCTCAAGTTgt	72.8 (118/162)
10	CTCAAGTTGTCACGATGGAAAag	72.2 (117/162)
11	TGCAACTGCTAGCTTCATTTAtg	71.6 (116/162)
12	ATGCAACTGCTAGCTTCATTTat	70.9 (115/162)
13	TTGCACCTTTTTCTAAGGACAat	70.3 (114/162)

Table 3: Haemagglutinin sequences used for BLAST and multiple sequence alignment.

S#	Influenza A	Accession Number	Country of Origin
1	H1	33622380	Beijing
2	H1	33622384	Shenzhen
3	H1	221340	A/Suita/ Japan
4	H1	554652	USSR
5	H2	305115	Japan
6	H2	408525	Krasnodar
7	H3	49339089	Hong kong
8	H3	77861715	Hong Kong
9	H3	18615859	Udorn
10	H3	71558927	Moscow
11	H5	71013498	Hong Kong
12	H5	2865380	Hong Kong
13	H5	2833657	Hong Kong
14	H5	3421252	Hong Kong
15	H9	8894694	Hong Kong

Table 4: Neuraminidase sequences used for BLAST and multiple sequence alignment.

S#	Influenza A	Accession Number	Country of Origin
1	N1	31096405	China
2	N1	31096413	Hong Kong
3	N1	31096415	Hong Kong
4	N1	2833659	Hong Kong
5	N1	3335423	Hong Kong
6	N1	47834892	Hong Kong
7	N1	47834894	Hong Kong
8	N1	324578	Russia
9	N2	38524538	Japan
10	N2	49473497	Japan
11	N2	418078	China
12	N2	8894698	Hong Kong
13	N2	21632606	China
14	N2	21632610	China
15	N2	81174818	Hong Kong
16	N2	8250669	Russia
17	N2	71553740	Russia