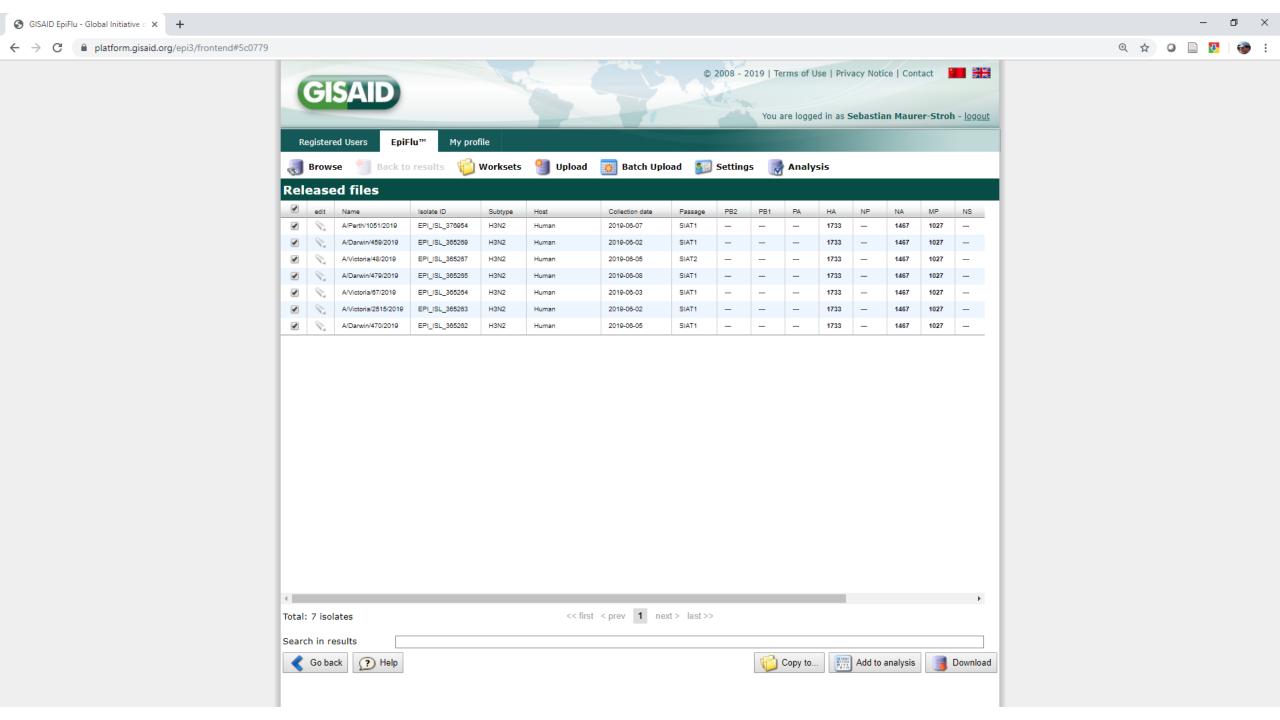
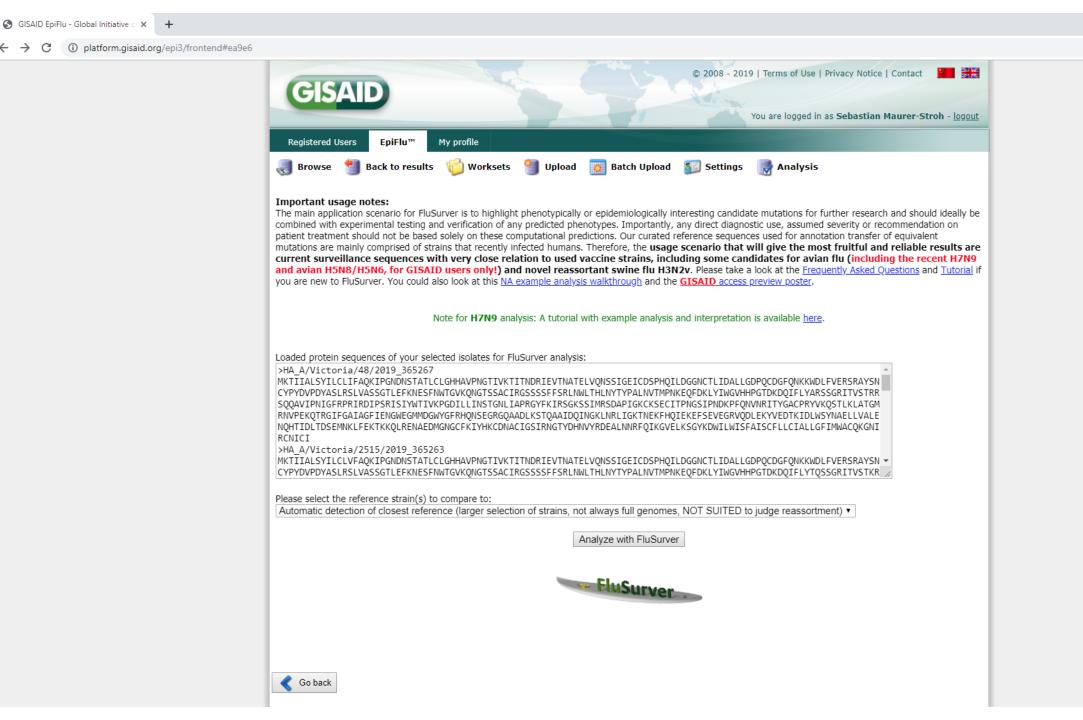
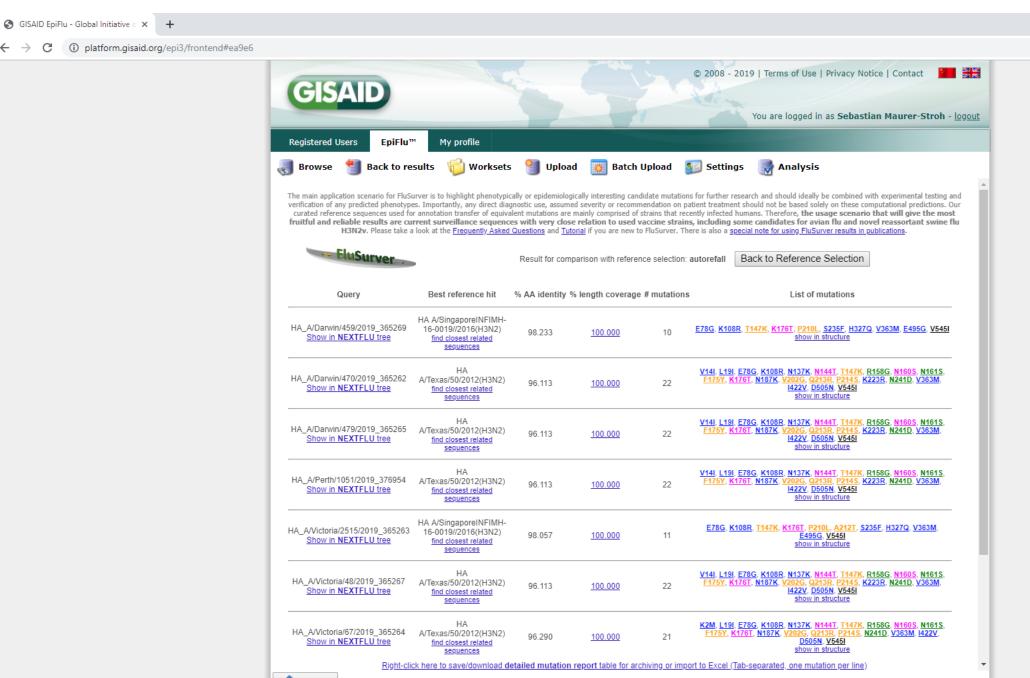


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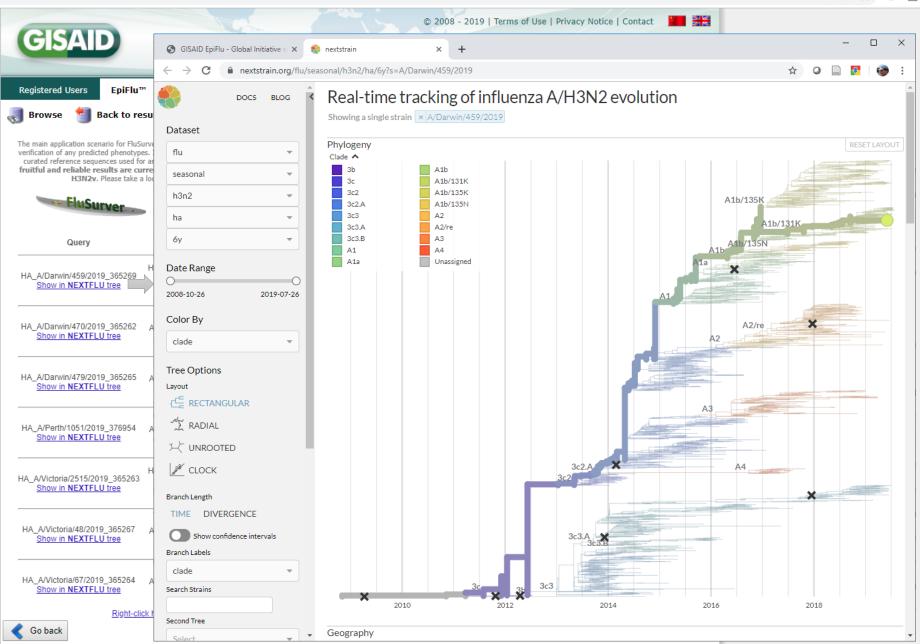


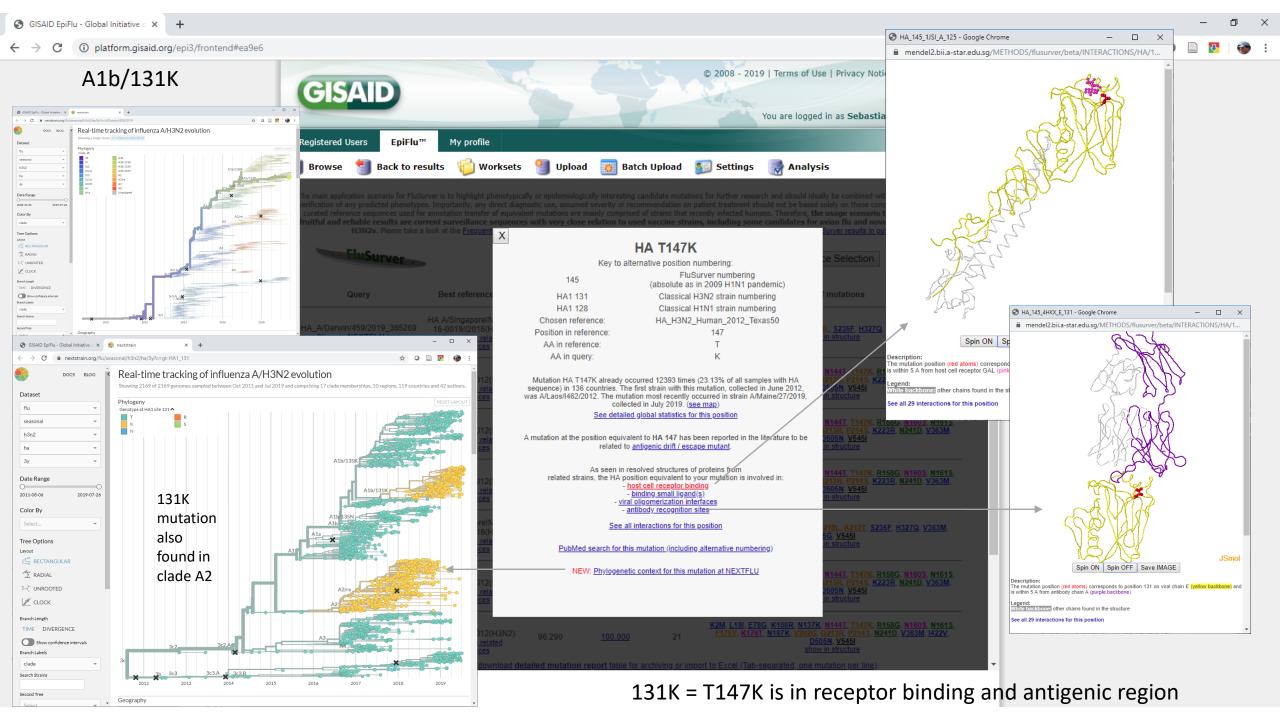
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New strain belongs to clade A1b/131K

Closest to earlier Singapore/2016 vaccine reference











i platform.gisaid.org/epi3/frontend#ea9e6







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SN RR GM

uding the recent H7N9

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Important usage notes:

Registered Users

The main application scenario for FluSurver is to highlight phenotypically or epidemiologically interesting candidate mutations for further research and should ideally be combined with experimental testing and verification of any predicted phenotypes. Importantly, any direct diagnostic use, assumed severity or recommendation on patient treatment should not be based solely on these computational predictions. Our curated reference sequences used for annotation transfer of equivalent mutations are mainly comprised of strains that recently infected humans. Therefore, the usage scenario that will give the most fruitful, and reliable results are

A/HongKong/1/1968(H3N2) - 1968/69 pandemic - Hong Kong flu

A/Wisconsin/67/2005(H3N2) - seasonal - old H3 vaccine A/Brisbane/10/2007(H3N2) - seasonal - old H3 vaccine

A/Perth/16/2009(H3N2) - seasonal - old H3 vaccine

A/Victoria/361/2011(H3N2) - seasonal - old H3 vaccine

A/Texas/50/2012(H3N2) - seasonal - old H3 vaccine - egg-derived (E5)

A/Texas/50/2012(H3N2) - seasonal - old H3 vaccine - cell-derived (M1/C2)

A/Switzerland/9715293/2013(H3N2) - seasonal - old H3 vaccine - egg-derived (E4/E2)

A/Switzerland/9715293/2013(H3N2) - seasonal - old H3 vaccine - cell-derived (S1S2/S2)

A/HongKong/4801/2014(H3N2) - seasonal - old H3 vaccine - egg-derived (E5/E2)

A/HongKong/4801/2014(H3N2) - seasonal - old H3 vaccine - cell-derived (C4/S2)

A/SingaporeINFIMH-16-0019//2016(H3N2) - seasonal - old H3 vaccine - egg-derived (E5/E1)

A/SingaporeINFIMH-16-0019//2016(H3N2) - seasonal - old H3 vaccine - cell-derived (C1S3/S1)

A/Switzerland/8060/2017(H3N2) - seasonal - old H3 vaccine - egg-derived (E5/E1)

A/Switzerland/8060/2017(H3N2) - seasonal - old H3 vaccine - cell-derived (S2/S1)

A/Kansas/14/2017(H3N2) - seasonal - current H3 vaccine - egg-derived (E5)

A/Kansas/14/2017(H3N2) - seasonal - current H3 vaccine - cell-derived (S1)

A/Indiana/10/2011(H3N2v) - swine-origin H3N2 with M segment from human H1N1pdm - vaccine candidate

A/Equine/Miami/1/1963(H3N8)

A/Equipa/Succey/1/1000/H3N0\

Automatic detection of closest reference (larger selection of strains, not always full genomes, NOT SUITED to judge reassortment) ▼

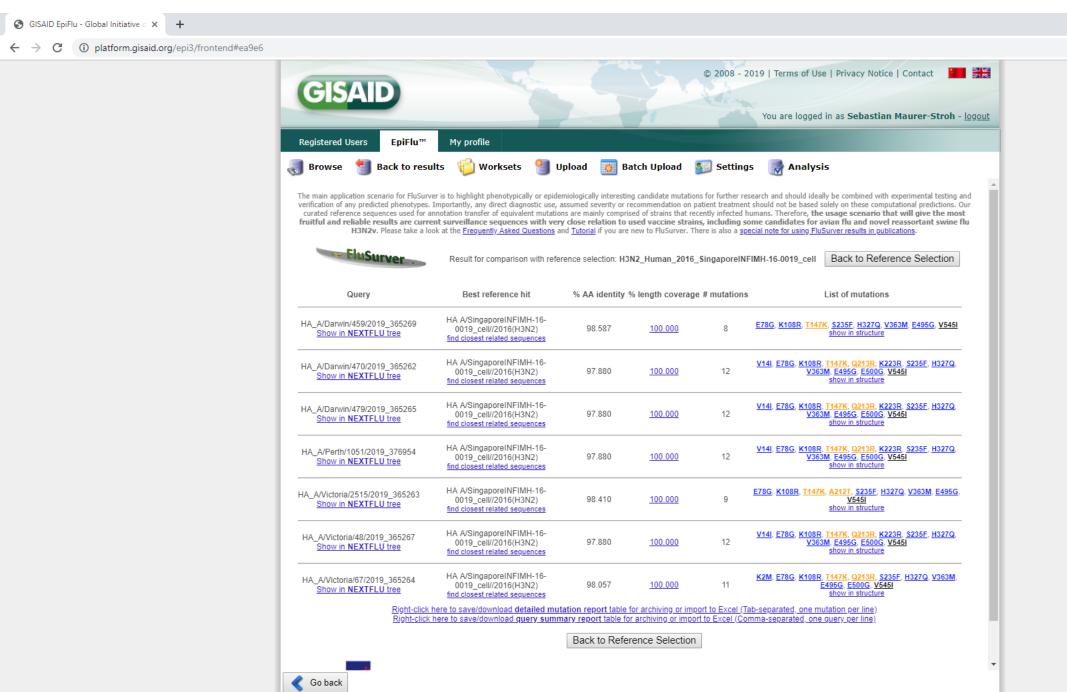
Analyze with FluSurver

FluSurver

Could 131K/T147K be an egg adaptation mutation?

Check against cell-derived reference and compare to egg-derived version





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sequences

98.233 100.000

10

E78G, K108R, T147K, K176T, P210L, S235F, H327Q, V363M, E495G, V545I show in structure

egg

HA_A/Darwin/459/2019_365269 Show in **NEXTFLU** tree

HA_A/Darwin/459/2019_365269

Show in **NEXTFLU** tree

HA A/SingaporeINFIMH-16-0019_cell/2016(H3N2) find closest related sequences

98.587 <u>100.000</u>

E78G, K108R, T147K, S235F, H327Q, V363M, E495G, V545I show in structure

cell

