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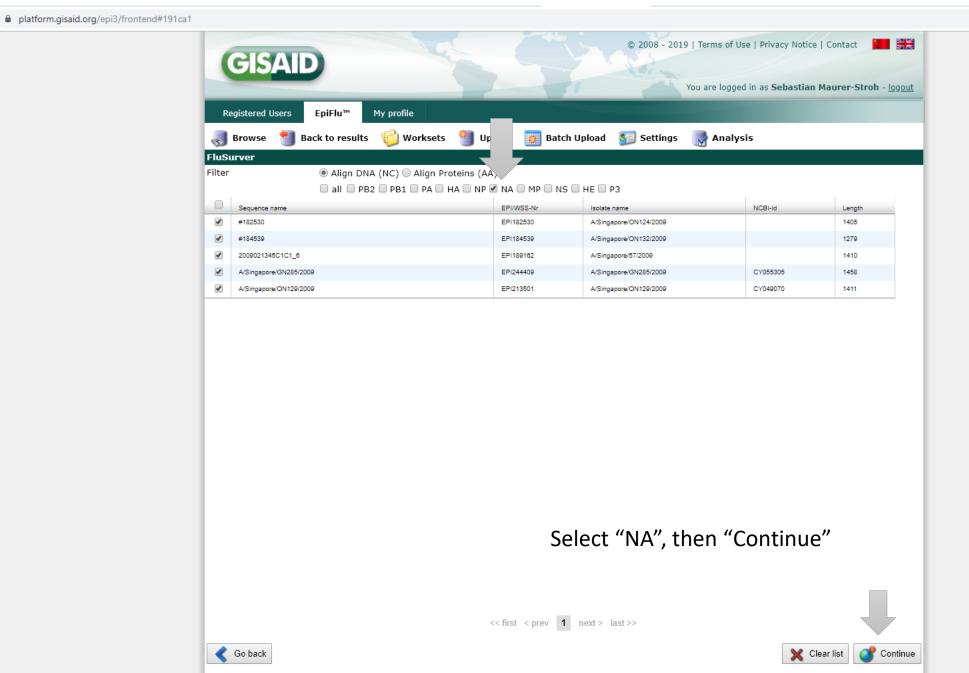


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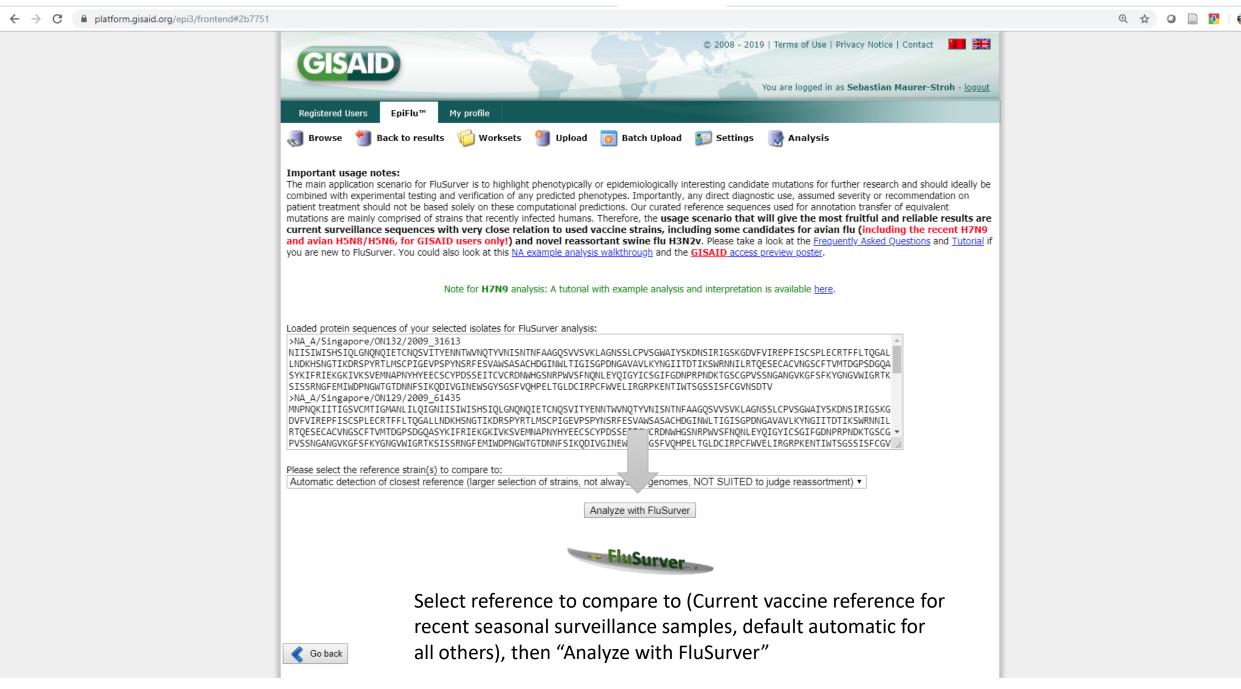
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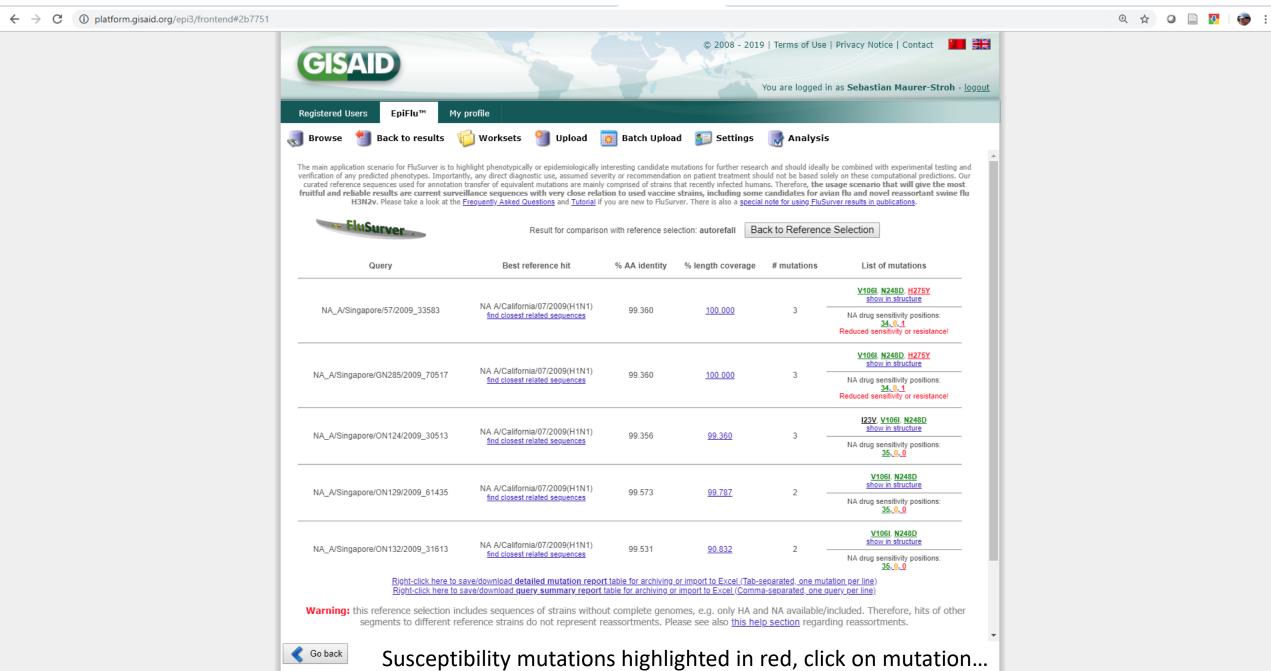
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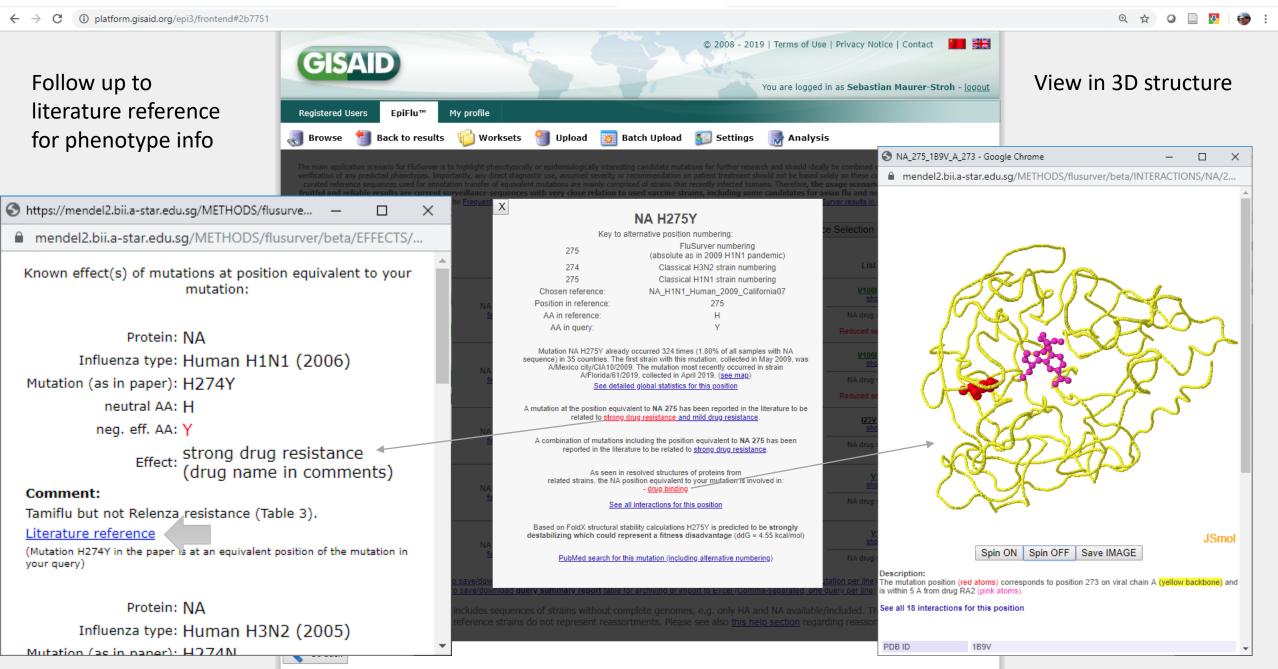
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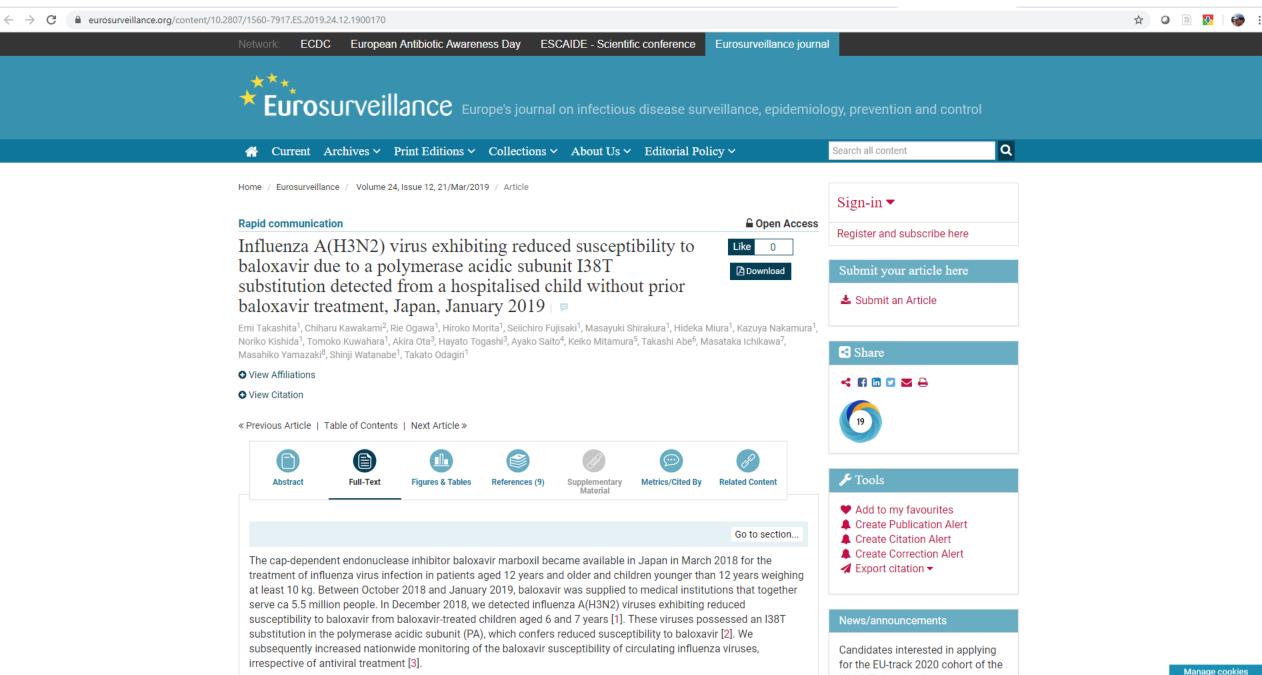


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Detection of polymerase acidic subunit I38T mutant influenza A(H3N2) viruses from hospitalised children

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In January 2019, we isolated two influenza A(H3N2) viruses, A/YOKOHAMA/87/2019 and A/YOKOHAMA/88/2019, from two hospitalised children (Table 1). Prior to hospitalisation and virus isolation, both children had received antiviral treatment against influenza. The primary-school child aged 6 years who was infected with A/YOKOHAMA/87/2019 had been treated with a single oral dose of baloxavir on the day of symptom onset and fever resolved within one day of baloxavir administration. Face oedema had developed 2 days after baloxavir administration, although this patient had no underlying diseases. The child was diagnosed with nephritis and hospitalised. The preschool child aged 5 years who was infected with A/YOKOHAMA/88/2019 had received oseltamivir 3 days after onset of illness, although its clinical benefit is greatest when administered within 48 hours of illness onset. Fever tended to resolve after oseltamivir administration. This child had no underlying diseases but was subsequently hospitalised for pneumothorax and subcutaneous emphysema. No epidemiological link was identified between these patients.

GISAID isolate		Age	Onset of	Antiviral	Day of	Specimen	PA substitution ^a		
ID	Isolate name	in years	symptoms	treatment	hospitalisation	collection	Clinical specimen	Virus isolate	
EPI_ISL_341452	A/YOKOHAMA/87/2019	6	19 Jan 2019	19 Jan 2019 baloxavir	21 Jan 2019	25 Jan 2019	I38T/I mix (T: 28%)	138T	
EPI_ISL_341454	A/YOKOHAMA/88/2019	5	25 Jan 2019	28–30 Jan 2019	31 Jan 2019	31 Jan 2019	(1. 2070) I38T	I38T	
				oseltamivir					

GISAID: Global Initiative on Sharing All Influenza Data; ID: identity; PA: polymerase acidic subunit.

^a For deep sequencing analysis, the mean sequencing depth, threshold used and limit of quantitation used were 14,200, 5% and 2, respectively.

Deep sequencing analysis of the isolates using MiSeq (Illumina, San Diego, California, United States) revealed that A/YOKOHAMA/87/2019 and A/YOKOHAMA/88/2019 possessed the PA I38T substitution. These PA I38T mutant viruses possessed different PA sequences and therefore originated from different sources of infection. PA I38 is highly conserved in influenza A and B viruses [1,2]. The I38T substitution was not detected in the Influenza Research Database (www.fludb.org) including 17,227 PA sequences from A(H3N2) viruses until December 2018 [1] or during surveillance studies of baloxavir susceptibility of influenza viruses in Japan (2017/18 influenza season) and the United States prior to the introduction of baloxavir (2016/17 and 2017/18 seasons) [3,4]. Therefore, previous studies concluded that the PA I38T substitution was a baloxavir treatment substitution [1,2]. The patient infected

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EPI_ISL_341454

A/YOKOHAMA/88/2019



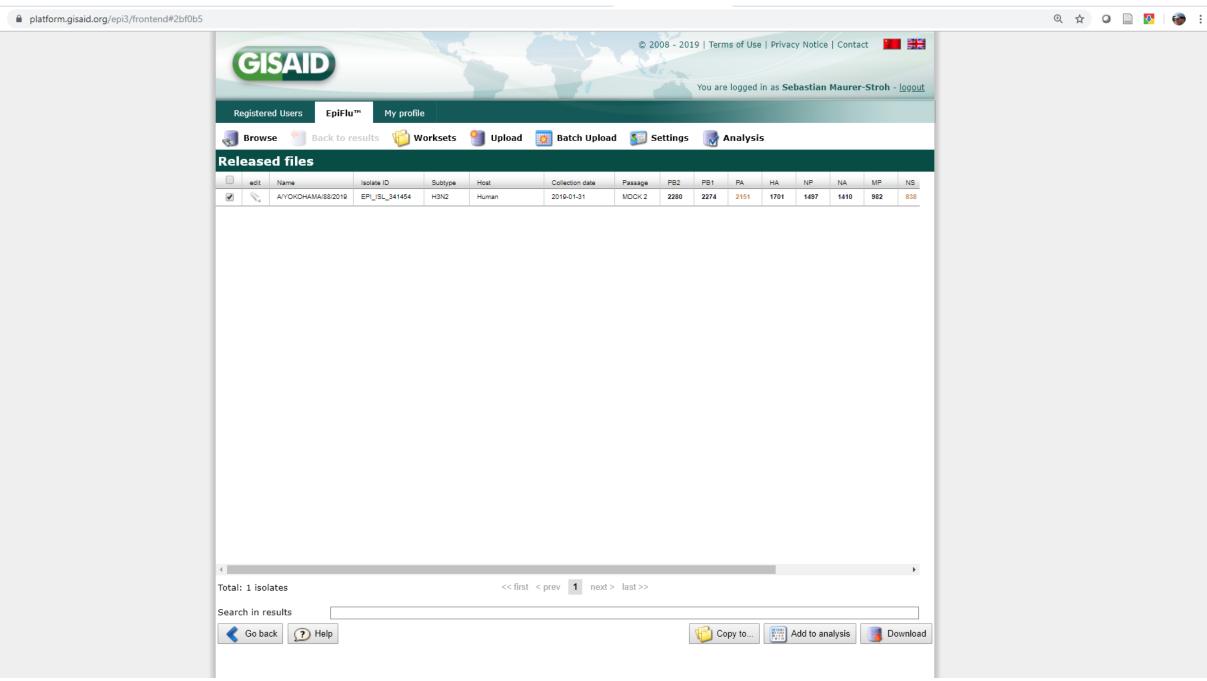
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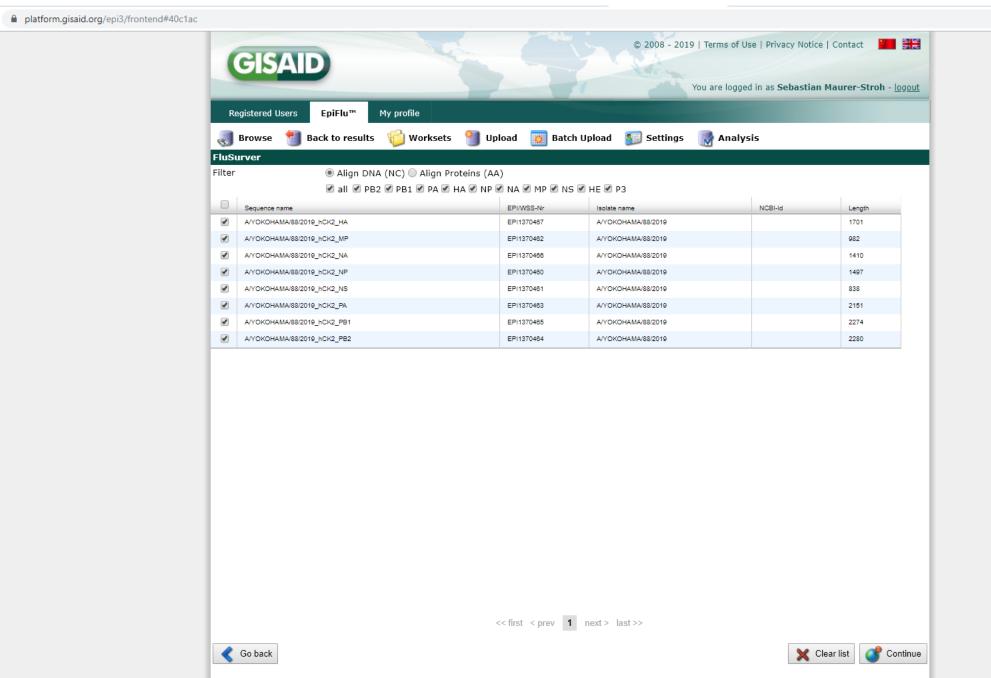
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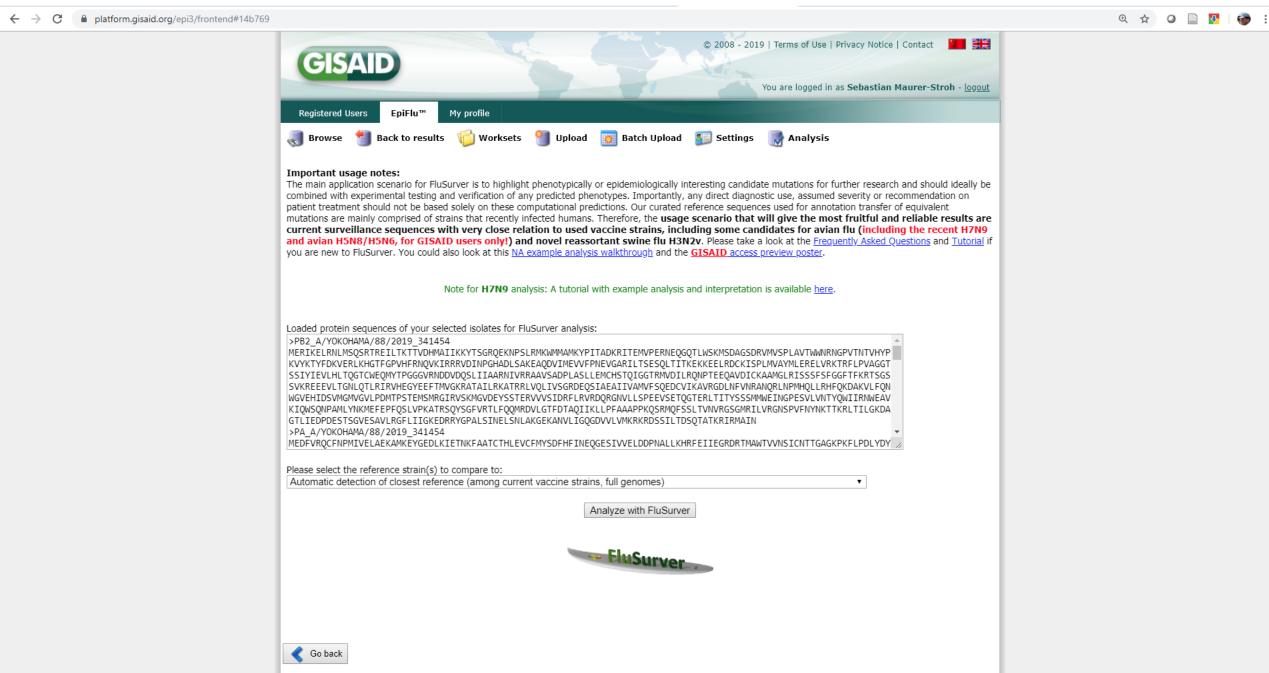
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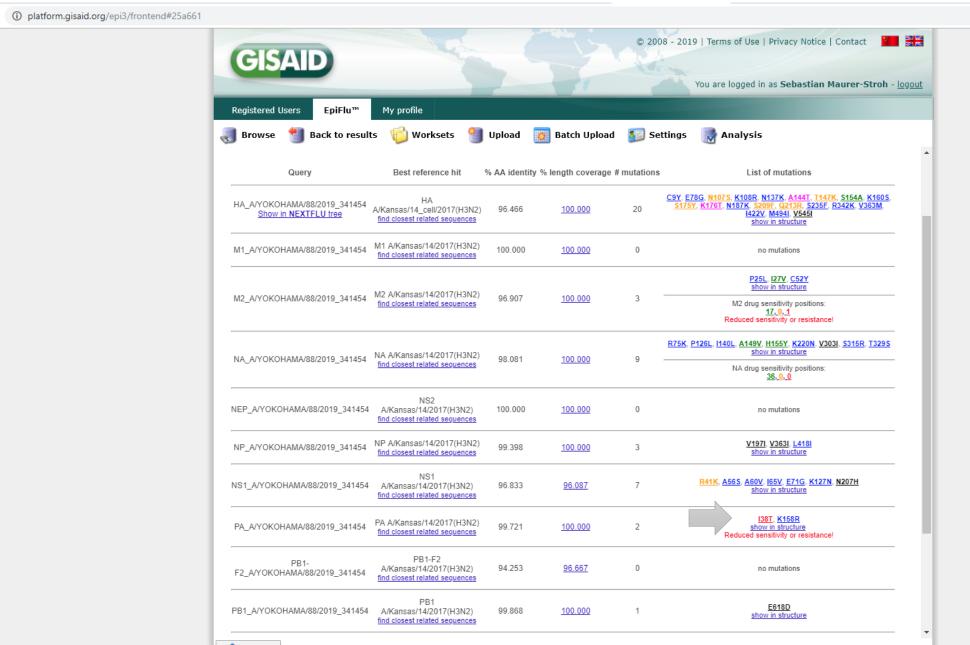
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