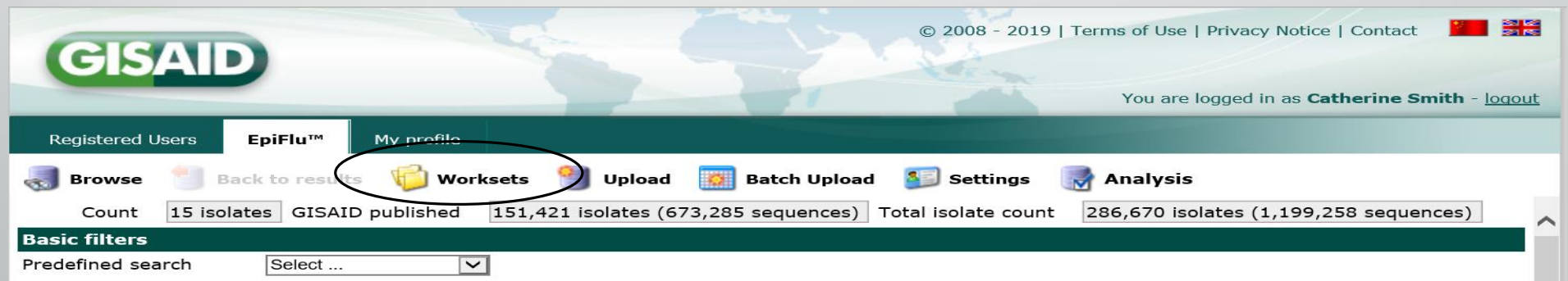




GISAID WORKSETS



Worksets

- Allow you to store sequence segments in a directory-based filing system
 - Sequences can be either from the EpiFlu database and uploaded new sequences
- Stored on the server until they are deleted by the user
- Each sequence in a workset gets its own accession number WSSXXXX.
 - This WSS-ID is unique in the system, similar to the EPIXXXX accession number in the EpiFlu database
- Provides for both personal query storage and collaboration
 - Users can invite others to participate in their worksets
- Edits performed on worksets do not affect the corresponding database entry



The screenshot displays the GISAID website interface. At the top left is the GISAID logo. The top right corner shows the copyright notice '© 2008 - 2019 | Terms of Use | Privacy Notice | Contact' and flags for China and the United Kingdom. Below the header, a navigation bar includes 'Registered Users', 'EpiFlu™', and 'My profile'. The main navigation menu features icons and labels for 'Browse', 'Back to results', 'Worksets' (circled in black), 'Upload', 'Batch Upload', 'Settings', and 'Analysis'. Below the navigation bar, a summary row shows: 'Count 15 isolates', 'GISAID published 151,421 isolates (673,285 sequences)', and 'Total isolate count 286,670 isolates (1,199,258 sequences)'. At the bottom, a 'Basic filters' section includes a 'Predefined search' dropdown menu.

Creating a Workset

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You are logged in as **Catherine Smith** - [logout](#)

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Workset list

<input type="checkbox"/>	Workset name	Owner	# Segments	Created	Last modified
No worksets created yet...					




Quota: 0 of 10000 EpiFlu sequences
0 of 300 Uploaded sequences

<< first < prev next > last >>

[Go back](#) [Help](#) [Delete](#) [Create workset](#)

- Limitations – across all worksets
 - 10,000 EpiFlu Sequences
 - 300 Uploaded Sequences

Creating a New Workset

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Create new workset

Name*

Description

Owner

Add participant

Name*
This should be the name you want to call this workgroup
Example: North American H1pdm_SH2019

Description
This is for your purpose only. Especially useful if you are creating multiple worksets that are similar

Owner
This will automatically default to the user of this account

Add Participant
For collaborating with other **GISAID** users only
Email address
Name

[Go back](#) | [Help](#) | [Remove participants](#) | [Create workset](#)

Workset Listing

- This listing of worksets shows all worksets that you have created yourself or that you are participating in.
- There are five parameters in the listing, all of which can be used to sort the worksets.
 - By left-clicking on one of the parameters in the top row, worksets will be sorted according to this parameter.
 - If you click on the same parameter again, the list will be sorted in reverse order.
 - The five parameters:
 - *Workset name*
 - *Owner*
 - *#Segments*
 - *Created*
 - *Last modified*
 - The maximal number of segments allowed in all worksets of a user is restricted to 10,000 segments. The quota of segments currently contained in all of your worksets of yours and maximal number of allowed segments is shown in the bottom left corner under the listing of worksets.

Adding A Collaborator

The screenshot displays the GISAID EpiFlu™ web interface. At the top, the GISAID logo is on the left, and the copyright notice '© 2008 - 2019 | Terms of Use | Privacy Notice | Contact' and flags for China and the United Kingdom are on the right. Below this, a navigation bar shows 'Registered Users', 'EpiFlu™', and 'My profile'. A secondary header repeats the GISAID logo and copyright information, along with the user login 'Catherine Smith - logout'. A main navigation bar contains icons for 'Browse', 'Back to results', 'Worksets', 'Upload', 'Batch Upload', 'Settings', and 'Analysis'. The central section is titled 'Create new workset' and contains a form with the following fields:

- Name***: North American H1_SH2019
- Description**: North American H1 viruses for preparing SH2019 VCM Package
- Owner**: Catherine Smith
- Add participant**: Rebecca G. (highlighted in yellow), with a dropdown menu showing 'Rebecca Garten (Centers for Disease Control and Prevention)'. A small 'x' icon is visible on the right side of the dropdown.

At the bottom of the page, there are two buttons: 'Go back' and 'Help'. On the right side, there are two buttons: 'Remove participant' and 'Create workset'. The 'Create workset' button is circled in black.

Registered Users

EpiFlu™

My profile



Browse



Back to results



Worksets



Upload



Batch Upload



Settings



Analysis

Create new workset

Name*	<input type="text" value="North American H1_SH2019"/>
Description	<input type="text" value="North American H1 viruses for preparing SH2019 VCM Package"/>
Owner	<input type="text" value="Catherine Smith"/>

Workset participants

<input type="checkbox"/> Name	Organisation	last access	can modify
<input type="checkbox"/> Garten, Rebecca	Centers for Disease Control and Prevention	never	<input type="checkbox"/>
Add participant	<input type="text"/>		

Invitation message to workset participants

Subject*

[GISAID] Invitation to a new workset 'North American H1_SH2019'

Message*

Dear [PARTICIPANTS_NAME],

Catherine Smith invites you to share a new GISAID-workset called 'North American H1_SH2019'.

North American H1 viruses for preparing SH2019 VCM Package

Owner

Work

Na

Ga

Add p

Go back

Help

Create workset without invitation

Send message to participants

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Workset list

<input type="checkbox"/>	Workset name	Owner	# Segments	Created	Last modified
<input type="checkbox"/>	North American H1_SH2019	Catherine Smith	0	12-08-2019	12-08-2019

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Edit workset

Name*	<input type="text" value="North American H1_SH2019"/>
Description	<input type="text" value="North American H1 viruses for preparing SH2019 VCM Package"/>
Owner	<input type="text" value="Catherine Smith"/>

Workset participants

<input type="checkbox"/> Name	Organisation	last access	can modify
<input type="checkbox"/> Catherine Smith	Centers for Disease Control and Prevention	12-08-2019	<input checked="" type="checkbox"/>
<input type="checkbox"/> Rebecca Garten	Centers for Disease Control and Prevention	never	<input checked="" type="checkbox"/>
<input type="checkbox"/> Catherine Smith	Centers for Disease Control and Prevention	never	<input checked="" type="checkbox"/>
Add participant	<input type="text"/>		

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Workset list

<input type="checkbox"/>	Workset name	Owner	# Segments	Created	Last modified
<input type="checkbox"/>	North American H1_SH2019	Catherine Smith	22	12-08-2019	12-08-2019

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 Count GISAID published Total isolate count

Basic filters

 Predefined search

 Search in Released files Worksets

 Search patterns

Type	H	N	Lineage	Host	Location
A	1	1	unknown	-all-	Asia
B	2	2	pdm09	Human	Europe
C	3	3	seasonal	Animal	North America
	4	4		Avian	Oceania
	5	5		Chicken	South America

Saint Vincent and the Grenadines
Trinidad and Tobago
Turks and Caicos Islands
United States
Virgin Islands

Additional filters

 Collection date (YYYY-MM-DD) From To

 Submission date (YYYY-MM-DD) From To

 Originating Laboratory

 Submitting Laboratory

 Required Segments PB2 PB1 PA HA NP NA MP NS HE P3

 only complete Min Length
 Direct submissions to GISAID Import from public-domain (INSDC)

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Released files

<input checked="" type="checkbox"/>	edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
<input checked="" type="checkbox"/>		A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/76/2019	EPI_ISL_368160	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Arizona/30/2019	EPI_ISL_368159	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Maryland/29/2019	EPI_ISL_368158	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/158/2019	EPI_ISL_366023	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/District Of Columbia/36/2019	EPI_ISL_365910	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/75/2019	EPI_ISL_365909	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/74/2019	EPI_ISL_365908	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Minnesota/43/2019	EPI_ISL_365907	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/154/2019	EPI_ISL_365905	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/157/2019	EPI_ISL_365904	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/153/2019	EPI_ISL_365903	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/156/2019	EPI_ISL_365902	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/155/2019	EPI_ISL_365901	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/147/2019	EPI_ISL_364568	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--


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Released files

<input type="checkbox"/>	edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
<input checked="" type="checkbox"/>		A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/76/2019											865	--	--
<input checked="" type="checkbox"/>		A/Arizona/30/2019											865	--	--
<input checked="" type="checkbox"/>		A/Maryland/29/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/158/2019											865	--	--
<input checked="" type="checkbox"/>		A/District Of Columbia/36/2019											865	--	--
<input checked="" type="checkbox"/>		A/Florida/75/2019											865	--	--
<input checked="" type="checkbox"/>		A/Florida/74/2019											865	--	--
<input checked="" type="checkbox"/>		A/Minnesota/43/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/154/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/157/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/153/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/156/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/155/2019											865	--	--
<input checked="" type="checkbox"/>		A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/147/2019	EPI_ISL_364568	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--

Add segments of isolates to workset

Workset*

Segments

-
- all
-
- PB2
-
- PB1
-
- PA
-
-
- HA
-
- NP
-
- NA
-
- MP
-
-
- NS
-
- HE
-
- P3


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Released files

<input type="checkbox"/>	edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
<input checked="" type="checkbox"/>		A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/76/2019											865	--	--
<input checked="" type="checkbox"/>		A/Arizona/30/2019											865	--	--
<input checked="" type="checkbox"/>		A/Maryland/29/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/158/2019											865	--	--
<input checked="" type="checkbox"/>		A/District Of Columbia/36/2019											865	--	--
<input checked="" type="checkbox"/>		A/Florida/75/2019											865	--	--
<input checked="" type="checkbox"/>		A/Florida/74/2019											865	--	--
<input checked="" type="checkbox"/>		A/Minnesota/43/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/154/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/157/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/153/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/156/2019											865	--	--
<input checked="" type="checkbox"/>		A/California/155/2019											865	--	--
<input checked="" type="checkbox"/>		A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/147/2019	EPI_ISL_364568	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--

Add segments of isolates to workset

Workset*

Segments

- all
 PB2
 PB1
 PA
 HA
 NP
 NA
 MP
 NS
 HE
 P3

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Add segments

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Workset list

<input type="checkbox"/>	Workset name	Owner	# Segments	Created	Last modified
<input type="checkbox"/>	North American H1_SH2019	Catherine Smith	438	12-08-2019	12-08-2019

Uploading Data to Worksets



- Additional sequences can be added to a workset by uploading a fasta file with sequences.
- You can only upload data to worksets that are not shared
- The system automatically determines the type and subtype of influenza virus segments while the fasta file is being uploaded.


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Workset 'North American H1_SH2019'

<input type="checkbox"/>	edit	WSS-ID	EPI-Segment-ID	Seg	Seg identifier	Length	Type	Copied from
<input type="checkbox"/>		WSS1976162	EPI1478538	NA	A/Manitoba/RV2027/2019 NA.seq	1410	A / N1	EPI_ISL_362017: A/Manitoba/RV2027/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976163	EPI1478539	HA	A/Manitoba/RV2027/2019 HA.seq	1650	A / H1	EPI_ISL_362017: A/Manitoba/RV2027/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976174	EPI1492514	NA	A/Saskatchewan/RV2230/2019 NA	1410	A / N1	EPI_ISL_365175: A/Saskatchewan/RV2230/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976175	EPI1492515	HA	A/Saskatchewan/RV2230/2019 HA	1650	A / H1	EPI_ISL_365175: A/Saskatchewan/RV2230/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976236	EPI1480447	NP	3026052183_ZZYUMAWN_v1_5	1540	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976237	EPI1480448	NS	3026052183_ZZYUMAWN_v1_8	865	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976238	EPI1480449	MP	3026052183_ZZYUMAWN_v1_7	1002	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976263	EPI1487914	NS	3026052241_ZZYUMBCN_v1_8	865	A	EPI_ISL_364057: A/California/143/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976264						A/H1N1 pdm09
<input type="checkbox"/>		WSS1976265						A/H1N1 pdm09
<input type="checkbox"/>		WSS1976266						A/H1N1 pdm09
<input type="checkbox"/>		WSS1976267						A/H1N1 pdm09
<input type="checkbox"/>		WSS1976268	EPI1490691	PB1	3026052243_ZZYUMBEI_v1_2	2316	A	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976269	EPI1490692	HA	3026052243_ZZYUMBEI_v1_4	1752	A / H1	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976270	EPI1487919	NP	3026052243_ZZYUMBEI_v1_5	1540	A	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976275	EPI1487924	NA	3026052243_ZZYUMBEI_v1_6	1433	A / N1	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976276	EPI1490716	PA	3026052284_ZZYUMBKI_v1_3	2208	A	EPI_ISL_364059: A/California/144/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976277	EPI1490717	PB1	3026052284_ZZYUMBKI_v1_2	2316	A	EPI_ISL_364059: A/California/144/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976165	EPI1484611	HA	A/Ontario/RV2035/2019 HA.seq	1650	A / H1	EPI_ISL_363374: A/Ontario/RV2035/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976164	EPI1484610	NA	A/Ontario/RV2035/2019 NA.seq	1410	A / N1	EPI_ISL_363374: A/Ontario/RV2035/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976176	EPI1493328	HA	A/Ontario/RV2232/2019 HA.seq	1650	A / H1	EPI_ISL_365292: A/Ontario/RV2232/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976177	EPI1493327	NA	A/Ontario/RV2232/2019 NA.seq	1410	A / N1	EPI_ISL_365292: A/Ontario/RV2232/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976242	EPI1480453	NA	3026052183_ZZYUMAWN_v1_6	1433	A / N1	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976243	EPI1480454	HA	3026052183_ZZYUMAWN_v1_4	1752	A / H1	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)

Message

This workset is shared with other EpiFlu users and therefore you cannot add private segments.


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Released files

<input type="checkbox"/>	edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
<input checked="" type="checkbox"/>		A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/76/2019	EPI_ISL_368160	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Arizona/30/2019	EPI_ISL_368158	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Maryland/29/2019	EPI_ISL_368156	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/158/2019	EPI_ISL_368154	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/District Of Columbia/36/2019	EPI_ISL_368152	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/75/2019	EPI_ISL_368150	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Florida/74/2019	EPI_ISL_368148	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Minnesota/43/2019	EPI_ISL_368146	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/154/2019	EPI_ISL_368144	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/157/2019	EPI_ISL_368142	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/153/2019	EPI_ISL_368140	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/156/2019	EPI_ISL_368138	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/155/2019	EPI_ISL_368136	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	--	--
<input checked="" type="checkbox"/>		A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--
<input checked="" type="checkbox"/>		A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	--	--
<input checked="" type="checkbox"/>		A/California/147/2019	EPI_ISL_364568	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	--	--

Add segments of isolates

Workset* [?](#)

Segments

- Select...
- North American H1_SH2019
 - North American H1_SH2019_private

- all
 PB2
 PB1
 PA
 HA
 NP
 NA
 MP
 NS
 HE
 P3

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Add segments

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Workset list

<input type="checkbox"/>	Workset name	Owner	# Segments	Created	Last modified
<input type="checkbox"/>	North American H1_SH2019_private	Catherine Smith	416	12-08-2019	12-08-2019
<input type="checkbox"/>	North American H1_SH2019	Catherine Smith	438	12-08-2019	12-08-2019

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Enter your sequence as FASTA:

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Upload sequence

Enter your sequence as FASTA:

```
>A/Nevada/326405/2019 | NP
gtagataatcactcaatgagtgacatcgaagccatggcgtctcaaggcaccaaaacgatca
tatgaacaaatggagactgggtggggagcgccaggataccacagaaatcagagcatctgtt
ggaagaatgattggtggaatcgggagattctacatccaaatgtgcaactgaaactc
agtgattatgatggacgactaatccagaatagcataacaatagagaggatgggtgctttct
gcttttgatgagagaagaaataaatacctagaagagcatccaagtgtgggaaggaccct
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agcgcaaagccagaggatttgccttccagggggggggagtcttcgagctctcggaacgaa
aaggcaacgaacccgatcgtgccttcttttgacatgagtaatgaagggtcttatttcttc
```

Upload FASTA from your local computer:

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Transferring data...



Work

Please wait while the data is being processed...



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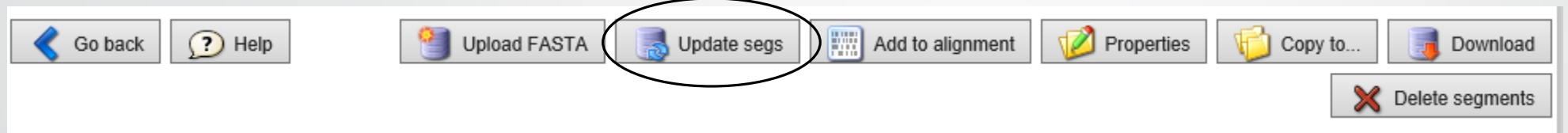
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Workset 'North American H1_SH2019_private'

<input type="checkbox"/>	edit	WSS-ID	EPI-Segment-ID	Seg	Seg identifier	Length	Type	Copied from
<input type="checkbox"/>		WSS1976957	EPI1507822	PB2	3026052691_ZZYUMCOW_v1_1	2316	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976958	EPI1507823	PB1	3026052691_ZZYUMCOW_v1_2	2316	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976898	EPI1498709	NA	3026052611_ZZYUMCI5_v1_8	1433	A / N1	EPI_ISL_365903: A/California/153/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976899	EPI1498710	HA	3026052611_ZZYUMCI5_v1_4	1752	A / H1	EPI_ISL_365903: A/California/153/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976900	EPI1498713	PB1	3026052612_ZZYUMCI7_v1_2	2316	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976901	EPI1498711	PA	3026052612_ZZYUMCI7_v1_3	2208	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976902	EPI1498712	PB2	3026052612_ZZYUMCI7_v1_1	2316	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976959	EPI1507818	NP	3026052691_ZZYUMCOW_v1_5	1540	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976960	EPI1507819	NS	3026052691_ZZYUMCOW_v1_8	865	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976961	EPI1507820	MP	3026052691_ZZYUMCOW_v1_7	1002	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976903	EPI1497703	NP	3026052612_ZZYUMCI7_v1_5	1540	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976904	EPI1497704	NS	3026052612_ZZYUMCI7_v1_8	865	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976905	EPI1497705	MP	3026052612_ZZYUMCI7_v1_7	1002	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976962	EPI1507824	NA	3026052691_ZZYUMCOW_v1_8	1433	A / N1	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976963	EPI1507825	HA	3026052691_ZZYUMCOW_v1_4	1752	A / H1	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976964	EPI1507829	PA	3026052693_ZZYUMCQE_v1_3	2208	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976965	EPI1507830	PB2	3026052693_ZZYUMCQE_v1_1	2316	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976966	EPI1507831	PB1	3026052693_ZZYUMCQE_v1_2	2316	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976906	EPI1497706	NA	3026052612_ZZYUMCI7_v1_8	1433	A / N1	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976907	EPI1497707	HA	3026052612_ZZYUMCI7_v1_4	1752	A / H1	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976967	EPI1507826	NP	3026052693_ZZYUMCQE_v1_5	1540	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976968	EPI1507827	NS	3026052693_ZZYUMCQE_v1_8	865	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
<input type="checkbox"/>		WSS1976969	EPI1507828	MP	3026052693_ZZYUMCQE_v1_7	1002	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)

Data Updates in Worksets



- This button in the workset dialog allows for updating sequences in the workset, if they have been changed in the EpiFlu database after they have been copied to the workset.
- Since submitters may submit data to GISAID that may need to be edited/changed, this tool will allow you to update your workset to reflect the changes

BLAST

- Blast analysis can be performed with all sequences in the workset.
- You can blast sequences against sequences in worksets.
- In the Blast dialog the user can choose the Blast database he or she wants to use
 - One can choose between worksets and the entire EpiFlu database and databases even can be combined:

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Segment	Type	Lineage	Identifier	Length	Accession #			
HA	A / H3		A/Singapore/GP0008/2019.4	1701	EPI1388253			
0001	atgaagacta	tcattgcttt	gagctacatt	ctatgtcttg	ttttcactca	aaaaattcct	ggaaatgaca	atagcacggc
0081	aacgctgtgc	cttggacacc	atgcagtacc	aaacggaacg	atagtgaaaa	caatcacaaa	tgaccgaatt	gaagttacta
0161	atgctactga	gttggttcag	aattcctcaa	taggtgaaat	atgcgacagt	cctcatcaga	tccttgatgg	agggaaactgc
0241	acactaatag	atgctctatt	gggggacct	cagtgtgacg	gctttcaaaa	taagaaatgg	gaccttttgg	ttgaacgaag
0321	cagagcctac	agcaactgtt	acccttatga	tgtgcccggat	tatgcctccc	ttaggtcact	agttgctca	tccggcacac
0401	tggagttaa	aaatgaaagc	ttcaattggg	ctggagtcac	tcaaaacgga	aaaagttttt	cttgcataag	gggatctagt
0481	agtagtttct	ttagtagatt	aaattggttg	accattttaa	actacacata	tccagcactg	aacgtgacta	tgccaaacaa
0561	ggaacaattt	gacaaattgt	acatttgggg	ggttcaccac	ccgggtacgg	acaaggacca	aatctctctg	tatgctcaat
0641	catcaggaag	aatcacagta	tctaccaaaa	gaagccaaca	agctgtaatc	cctaatatcg	gatctagacc	cagaataagg
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0881	agtctgaatg	catcactcca	aatggaagca	ttcccaatga	caaaccattc	caaaatgtga	acaggatcac	atagggggcc
0961	tgtcccagat	atgttaagca	aagcactctg	aaattggcaa	caggaatgcg	aaatgtacca	gagaaacaaa	ctagaggcat
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1121	ctgaggggaag	aggacaagca	gcagatctca	aaagcactca	agcagcaatc	gatcaaatca	atgggaagct	gaatcgattg
1201	atcggaaaaa	ccaacgagaa	attccatcag	attgaaaaag	aattctcaga	agtagaagga	agagttcaag	accttgagaa
1281	atagtgtgag	gacactaaaa	tagatctctg	gtcatacaac	gcggagcttc	ttgttgcctt	ggagaaccaa	catacaattg
1361	atctaactga	cgagaaaatg	aacaaaactgt	ttgaaaaaac	aaagaagcaa	ctgagggaaa	atgctgagga	tatgggaaat
1441	ggttggttca	aaatatacca	caaatgtgac	aatgcctgca	taggatagca	aagaaatgaa	acttatgacc	acaatgtgta
1521	cagggatgaa	gcattaaaca	accggttcca	gatcaagga	gttgagctga	agtcagggta	caaagattgg	atcctatgga
1601	tttcctttgc	catatcatgt	ttttgctttt	gtgttgcttt	gttgggggtc	atcatgtggg	cctgccaaaa	gggcaacatt
1681	agatgcaaca	tctgcatttg	a					

Blast HA
 Copy HA to...
 To clipboard...

BLAST

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- You can blast sequences against sequences in worksets.
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```
atgaagactatcattgcttgagctacattctatgtctggttttctactcaaaaaattcctggaatgacaatagcacggcaacgctgtgcttggacaccatgcagt
accaaacggaacgatagtgaaaacaatcacaaatgaccgaattgaagttaactaatgctactgagttgggttcagaattcctcaataggtgaaatgcgacagtcctc
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```

Upload FASTA from your local computer:

Select type of query and database or BLAST-program

Query: Program: Database: MegaBlast

Select BLAST options

Expect: Filter: Alignments:

Blast database

Blast database:
Workset 'North American H1_SH2019'
Workset 'Something Wrong'
Workset 'Test Workset'
Workset 'temp'



?

Workset Exercise

- From the browse page, select the Workset Tab
- Create a workset that you will save your search
 - **Workset**
 - **Create Workset**
 - Create a workset by entering **TEST** in the name field and then select **Create Workset**
 - You will then see an empty workset with the name 'TEST' you just created
- Go back to **Browse**
- Search for the following data to add to a workset 'TEST' you just made
 - Search for human H₃N₂ viruses, from Singapore, collected since January 1, 2019 – all gene segments
- From the **Search Results** select all of the sequences to add to the workset
 - At the bottom of the search results page, select **Copy To**
 - You will then see the Workset page with a drop-down of the existing Worksets in your account
 - Choose the **TEST** workset
 - Choose **All** (segments) and then **Add Segments**
 - You will now see a populated **TEST** workset
- You can then continue to add relevant data to that workset in the same manner, except that you would not have to create the workset again, you would just search for additional data and then, from the **Search Results**, you would **Copy To** the **TEST** workset just like above.