

Search

Search our comprehensive database for:

[Sequences & Strains](#)
[Animal Surveillance](#)
[Sequence Feature Variant Types](#)
[Immune epitope data](#)
[3D protein structures](#)
[Host Factor Data](#)

[Browse All Search Types](#)

Analyze

Analyze data online:

[Sequence Alignment](#)
[Phylogenetic Tree](#)
[Sequence Variation \(SNP\)](#)
[Metadata-driven Comparative Analysis](#)
[HPAI H5N1 Clade Classification](#)
[BLAST](#)

[Browse All Tools](#)

Save to Workbench

Sign up for a workbench to:

[Store and share data](#)
[Combine working sets](#)
[Integrate your data with IRD data](#)
[Store and share analyses](#)
[Custom search alert](#)

[Sign Up!](#)
[Sign In](#)

Highlights

IRD Workbench

The IRD Workbench allows users to save 'working sets' of sequences, searches and analysis results between web sessions in their own private workspace. Users can share working sets or analysis results with collaborators.

Key Highlights:

Save and organize working sets of sequences, analysis results and search criteria
 Visualize saved analysis results
 Share working sets and analysis results with others
 Upload personal sequences and combine with existing working sets

[Go to Workbench](#)

[Video Tutorial](#)

[Static Tutorial](#)

Announcements

Erasmus University, Rotterdam, Netherlands, part of the **Mt. Sinai School of Medicine CEIRS** project, submitted **69** influenza sequences to GenBank using the IRD sequence submission tool during month of June 2014.

St.Jude Children's Research Hospital CEIRS submitted **745** influenza sequences to GenBank using the IRD sequence submission tool between March 1 and June 30, 2014.

The **Ohio State University**, part of the former **University of Minnesota CEIRS** project, submitted **1,233** influenza sequences to GenBank using the IRD sequence submission tool during month of March 2014.

USDA Swine Influenza Surveillance Consortium submitted a total of **1,223** influenza sequences to GenBank using the IRD sequence submission tool during first six months of 2014.

St.Jude Children's Research Hospital CEIRS deposited **60,650** surveillance samples into IRD during month of March 2014.

Community Spotlight

[View Archive](#)

A recent article published in [Influenza and Other Respiratory Viruses](#) reported the identification of artifacts in influenza sequence records, including the inclusion of primer sequences, vector sequences, and poly(A) tails as part of the influenza sequence. David Suarez and his co-authors chose to use the Influenza Research Database (IRD) as the primary public database to support their analysis because of its comprehensive influenza sequence data, various sequence filtering options, and private and shared workbenches for data storage and sharing. To avoid these artifacts, IRD also provides a GenBank sequence submission tool that identifies the presence of primer/vector sequences and assists sequence submitters with their removal before submission. (Posted on March 14, 2014)

What's New with Flu

A novel method for improved phylogenetic inferencing has been reported recently in [Nature](#). By allowing the use of host-specific local clock models within the popular BEAST algorithm, the method provides better resolution of evolutionary patterns and has helped decipher the flow of influenza virus genes between different host species. IRD is currently collaborating with the CIPRES resource to provide direct access to BEAST and other advanced phylogenetic algorithm through the IRD portal (coming this summer) (Posted on March 14, 2014).

[Previous Scientific Reports](#)

Quick Search

IRD will search in data fields associated with genomic sequence, protein, strain and surveillance data. ([Details](#) including wildcard usage)

Keyword:

[Go](#)

Ex: CY042246, China, H3N2...

Connect with Us



Influenza Research Database (IRD)

Like 197



IRD videos on youtube

[Follow @IRD_DB](#)

Data Summary

Updated August 8, 2014

GenBank data downloaded daily.

Data Aggregated by IRD (Source)

Strains (GenBank)	81,404
Sequences (GenBank)	341,509
Proteins (GenBank and UniProt)	459,461
3D Protein Structures (PDB)	503
Experimentally Determined Epitopes (IEDB)	5,968