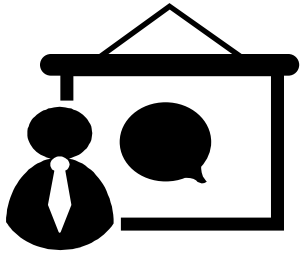
Welcome to the

2023 IEDB Virtual User Workshop Day 2

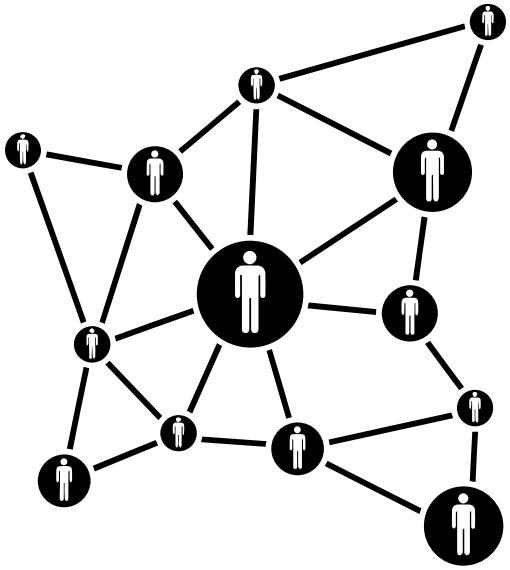
Thursday, November 2, 2023

Annual IEDB User Workshop – Why?

3 Day Event

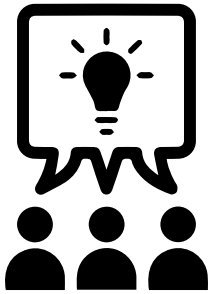


IEDB and tools overview with research examples and specialized topics

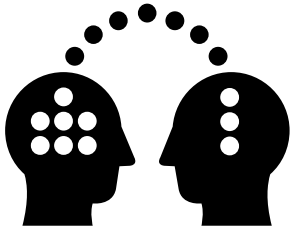


Engage with global user community

Answer user questions to facilitate learning



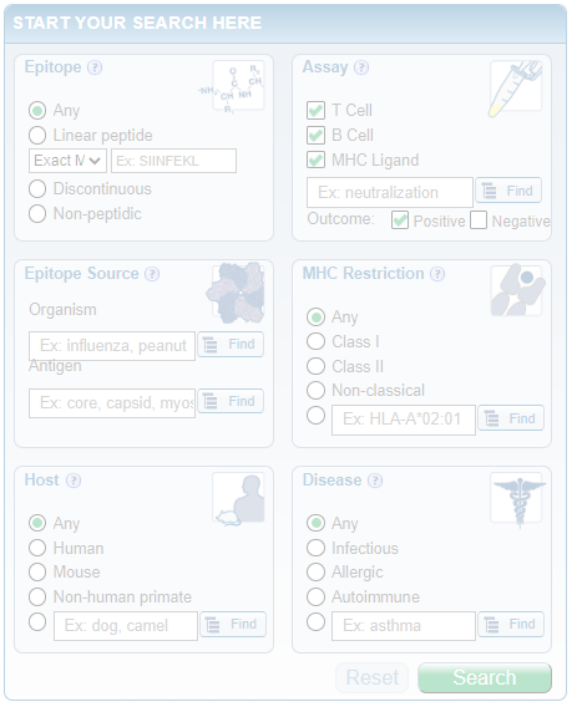
Improve our resources through user feedback



Share ideas to further scientific research

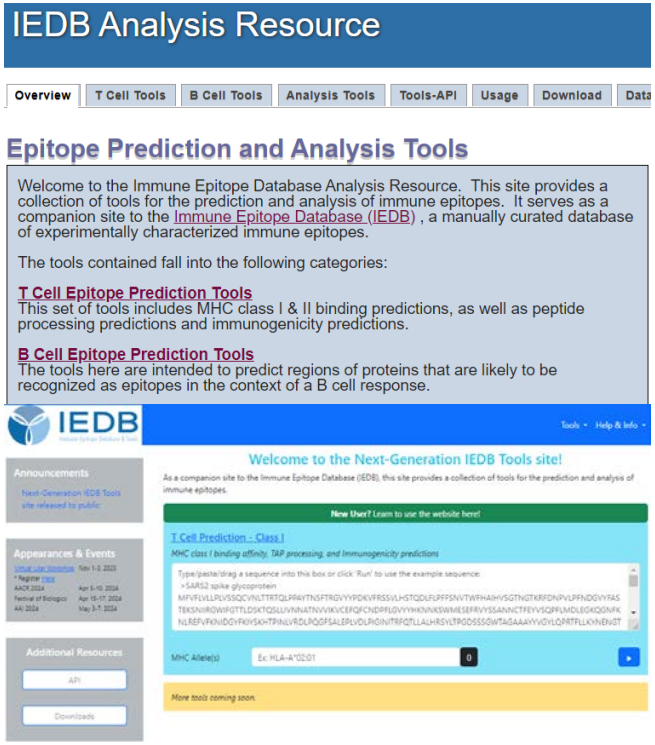
User Workshop Structure

Day 1



Process Overview and Database

Day 2



Next-Generation Tools & Analysis Resource

Day 3

CEDAR
Cancer Epitope Database and Analysis Resource

Los Alamos
NATIONAL LABORATORY

Specialized Topics – 3D Structures, Cancer, HIV

Who You'll Hear From

Dr. Jason Greenbaum
Bioinformatics Core Director

Dr. Bjoern Peters
Co-Principal Investigator

Dr. Eve Richardson
Bioinformatics Postdoctoral Researcher

Dr. Raphael Trevizani
Bioinformatics Postdoctoral Researcher

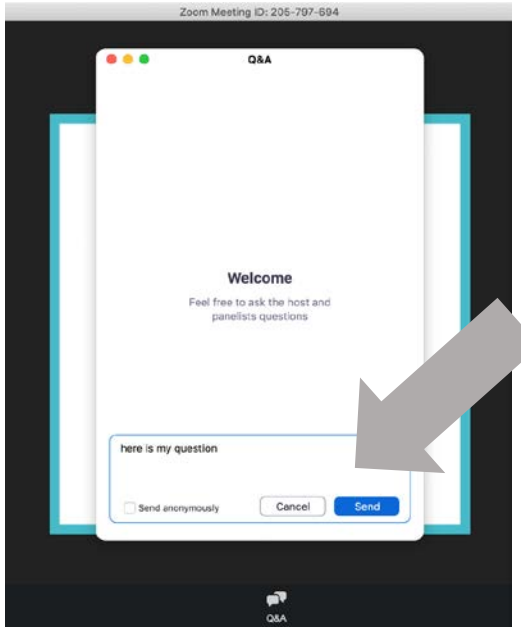
Dr. Mahita Jarjapu
Bioinformatics Postdoctoral Researcher

User Workshop Structure

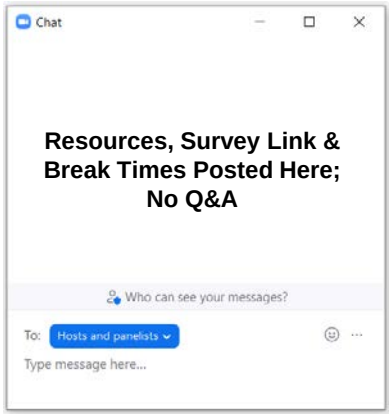
Presentation(s)

Respond to Questions in Multiple Q&As

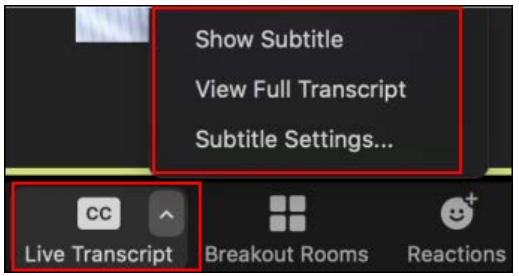
1 Break



Q&A



Chat



Subtitles

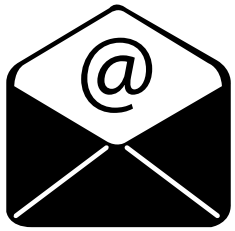
Agenda – Day 2

Start Time	End Time	Topic	Speaker
08:00	**08:15**	Welcome & Analysis Resource Overview	Nina Blazeska *IEDB Senior Project Manager*
08:15	**08:30**	IEDB Next-Generation Tools Introduction	Jason Greenbaum *Bioinformatics Core Director*
08:30	**09:00**	T Cell Class I Tools (Binding, Processing, Immunogenicity)	Jason Greenbaum *Bioinformatics Core Director*
09:00	**09:15**	Next Generation Tool Pipelines - Cluster & PEPMatch	Bjoern Peters *IEDB Co-Principal Investigator*
09:15	**10:00**	T Cell Class II Tools (Binding, Processing, Immunogenicity)	Bjoern Peters *IEDB Co-Principal Investigator*
10:00	**10:20**	Section 1: Q&A with Drs. Greenbaum and Peters	
10:20	**10:35**	**Break**	

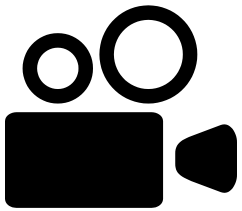
Agenda – Day 2

Start Time	End Time	Topic	Speaker
10:35	**11:05**	B Cell Epitope Prediction	Eve Richardson *Bioinformatics Postdoctoral Researcher*
11:05	**11:35**	Receptor Tools - TCRMatch	Raphael Trevizani *Bioinformatics Postdoctoral Researcher* Mahita Jarjapu *Bioinformatics Postdoctoral Researcher*
11:35	**11:50**	Section 2: Q&A with Drs. Richardson, Trevizani and Jarjapu	
11:50	**12:00**	Closing Remarks & Feedback Survey	Nina Blazeska *IEDB Senior Project Manager*
	12:00	**End of Session**	

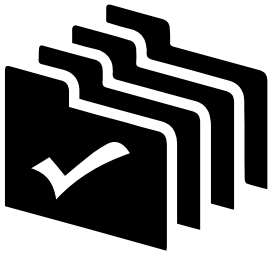
Other Event Logistics



You will receive a post-event email next week



Workshop recording will be shared with you

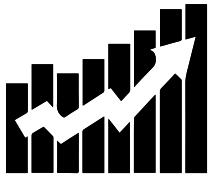


All presentations will be shared with you

Participation certificates will be provided upon request

SurveyMonkey

Daily and post-event feedback survey



Be aware of IEDB slowness due to increased traffic

#iedbuw2023

Follow us @iedb_

IEDB
Immune Epitope Database & Tools

Brief Tools Overview

tools.iedb.org
nextgen-tools.iedb.org

IEDB Tools

Analysis Resource & Next-Generation Tools

Epitope Prediction and Analysis Tools

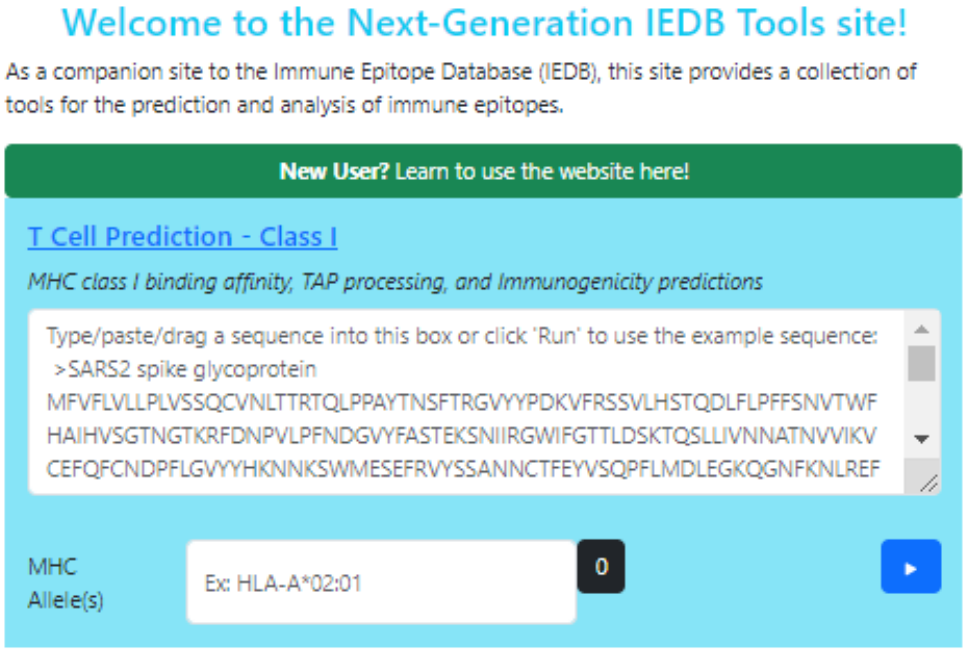
Welcome to the Immune Epitope Database Analysis Resource. This site provides a collection of tools for the prediction and analysis of immune epitopes. It serves as a companion site to the Immune Epitope Database (IEDB) , a manually curated database of experimentally characterized immune epitopes.

The tools contained fall into the following categories:

T Cell Epitope Prediction Tools
This set of tools includes MHC class I & II binding predictions, as well as peptide processing predictions and immunogenicity predictions.

B Cell Epitope Prediction Tools
The tools here are intended to predict regions of proteins that are likely to be recognized as epitopes in the context of a B cell response.

Analysis Tools
The epitope analysis tools are intended for the detailed analysis of a known epitope sequence or group of sequences.



Analysis Resource:

- T cell epitope prediction
- B cell epitope prediction
- Analysis tools

tools.iedb.org

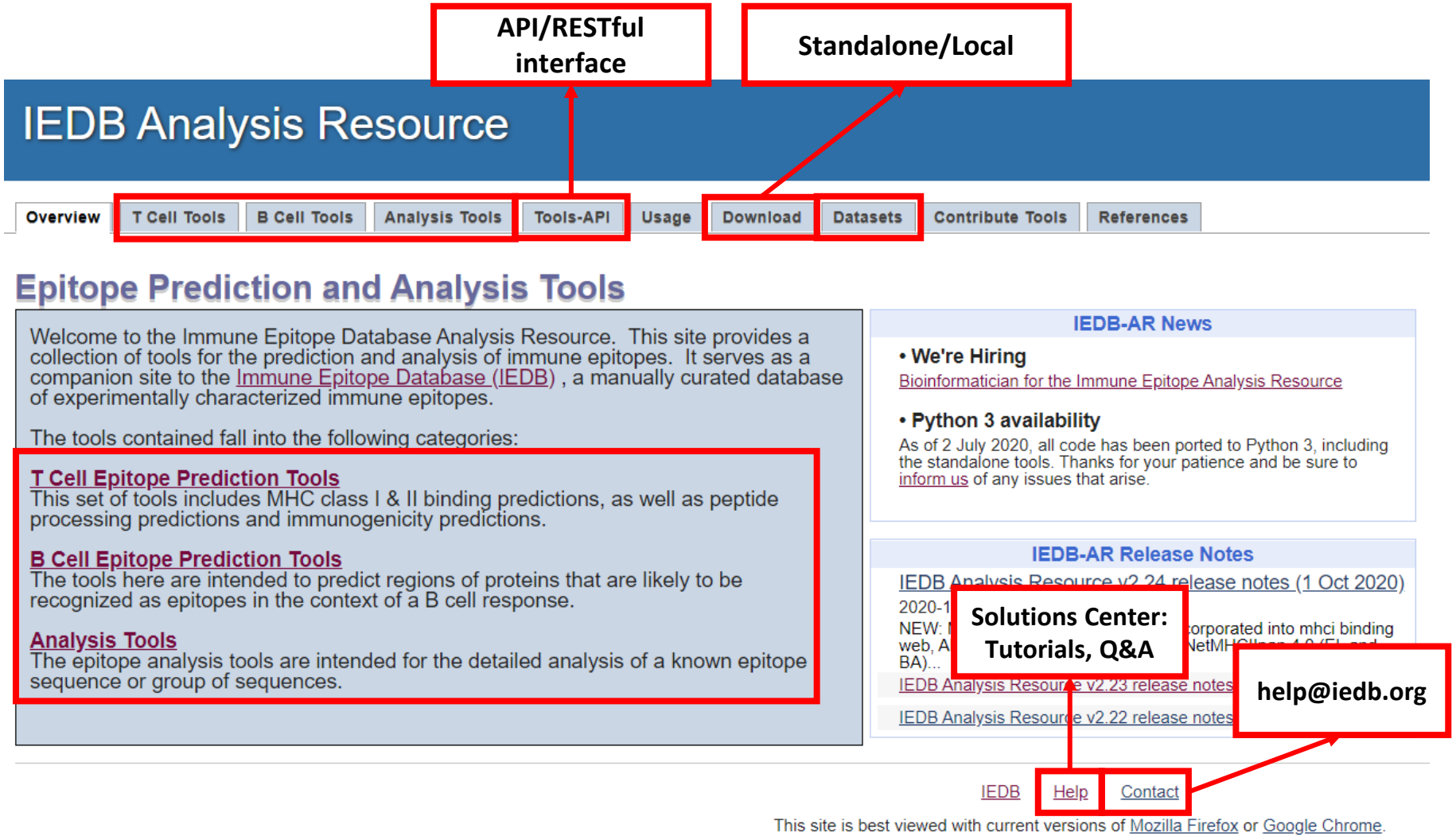
Next-Generation Tools:

- Re-implementing existing tools with a focus on improving usability and function
- Launched in 2023
- More tools to be added

nextgen-tools.iedb.org

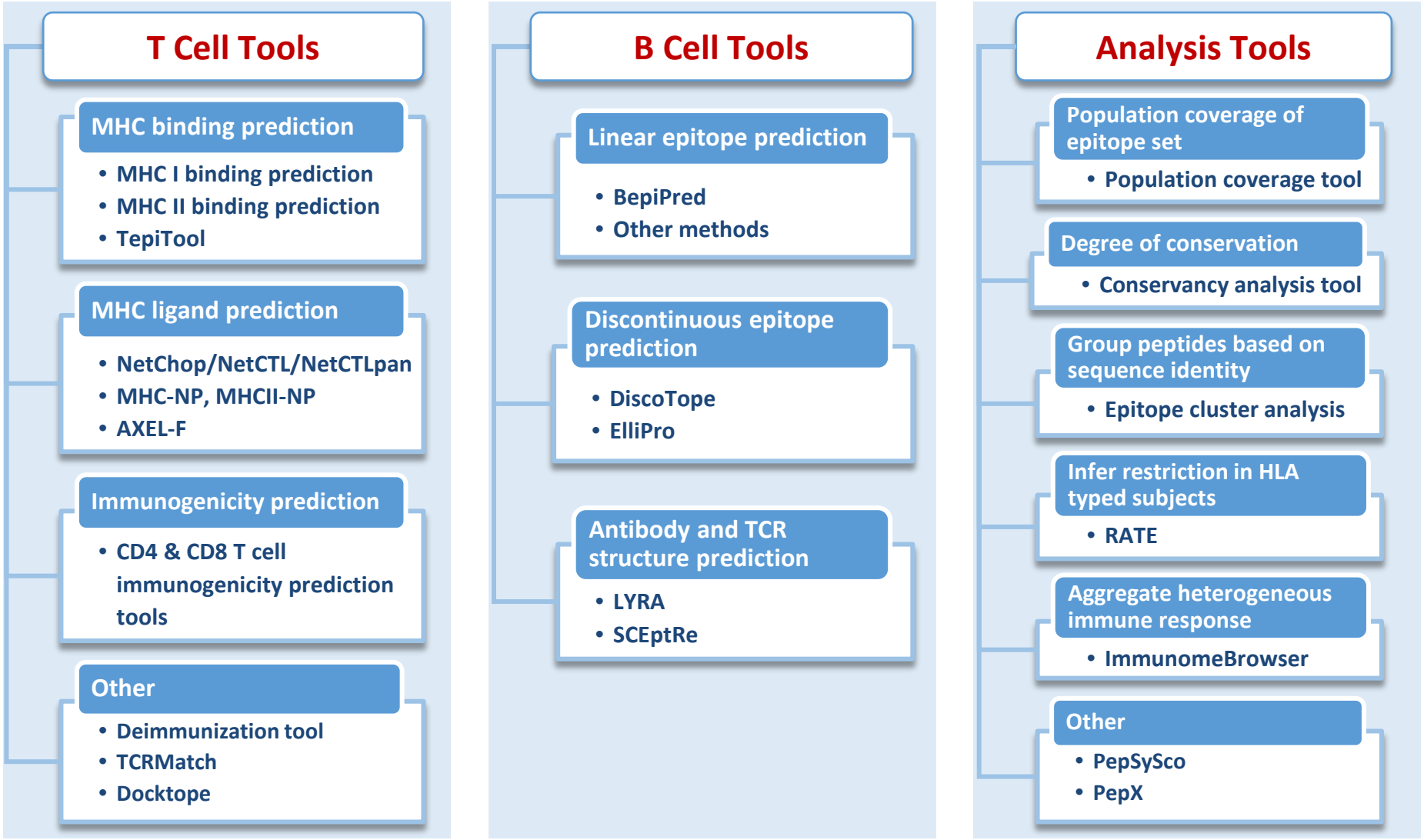
Accessing the Analysis Resource

Available Resources



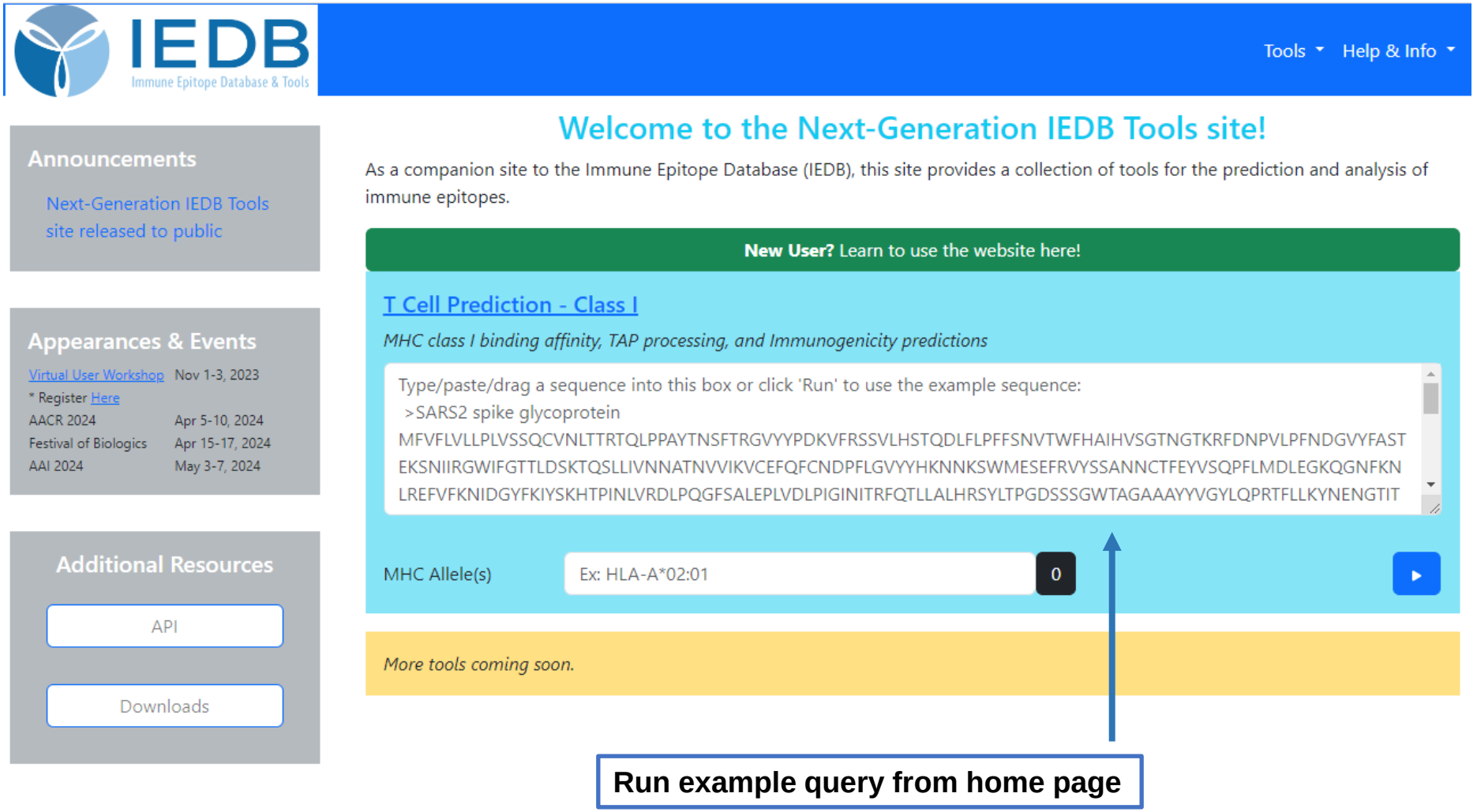
IEDB Analysis Resource

tools.iedb.org



Next-Generation Tools

https://nextgen-tools.iedb.org/



Without further ado…

Dr. Jason Greenbaum
Bioinformatics Core Director

IEDB Next-Generation Tools Introduction