AZTEC

NIH BD2K Center of Excellence at UCLA

BD2K BD2K CCC | NIH National Institutes of Health

What is BD2K AZTEC?

- A new global resource discovery index and metadatabase for all forms of biomedical software
- A to Z TEChnology

- Aztec will serve the community by:
- enhancing the findability of online resources
- improving citability of the software tools
- facilitating the reproducibility of experiments

- Aztec will interact with the nationwide BD2K programs and serve as one of the primary means to link the BD2K resource ecosystem together

BD2K AZTEC

Sources of BD2K Aztec Resources

NIH BD2K ADDS NIH

- 11 Centers of Excellence for Big Data Computing
- 9 Data Discovery Index Programs
- 22 Enhancing Training Programs
- 15 Targeted Software Development Programs
- All other relevant NIH Programs

Scientific Literature

- PubMed
- Europe PubMed Central
- Google Scholar
- ISI Web of Science
- ...

Author Submissions

- Author-Initiated Submissions
- Aztec-Invited Submissions

Federated Global Resources

- Cytoscape
- BioGPS
- Elixir Tools and Data Services Registry
- OMICtools
- Galaxy
- GalaxyP
- BioJS
- Bioconductor
- Biopython
- Biositemaps
- BioPerl
- MATLAB Bioinformatics Toolkit
- Bioportal
- ...

Overall Architecture and Workflow

Identifiers and Ontologies

Operations, Data, and Topics

EDAM Ontology

- Rigorously defines bioinformatics topics, operations, data types and data formats.
- Can be extended to more broadly encompass biomedical software.
- Incorporated into Aztec's Function, Biological Domain, and Input/Output Format metadata fields.

Authors and Researchers

ORCID

- Uniquely identifies individual tool and publication authors.
- Incorporated into Aztec's Author and PI metadata fields.

Publications

crossref

- Uniquely identifies journal publications with DOIs.
- Incorporated into Aztec's Primary Publication and Other Publication metadata fields.

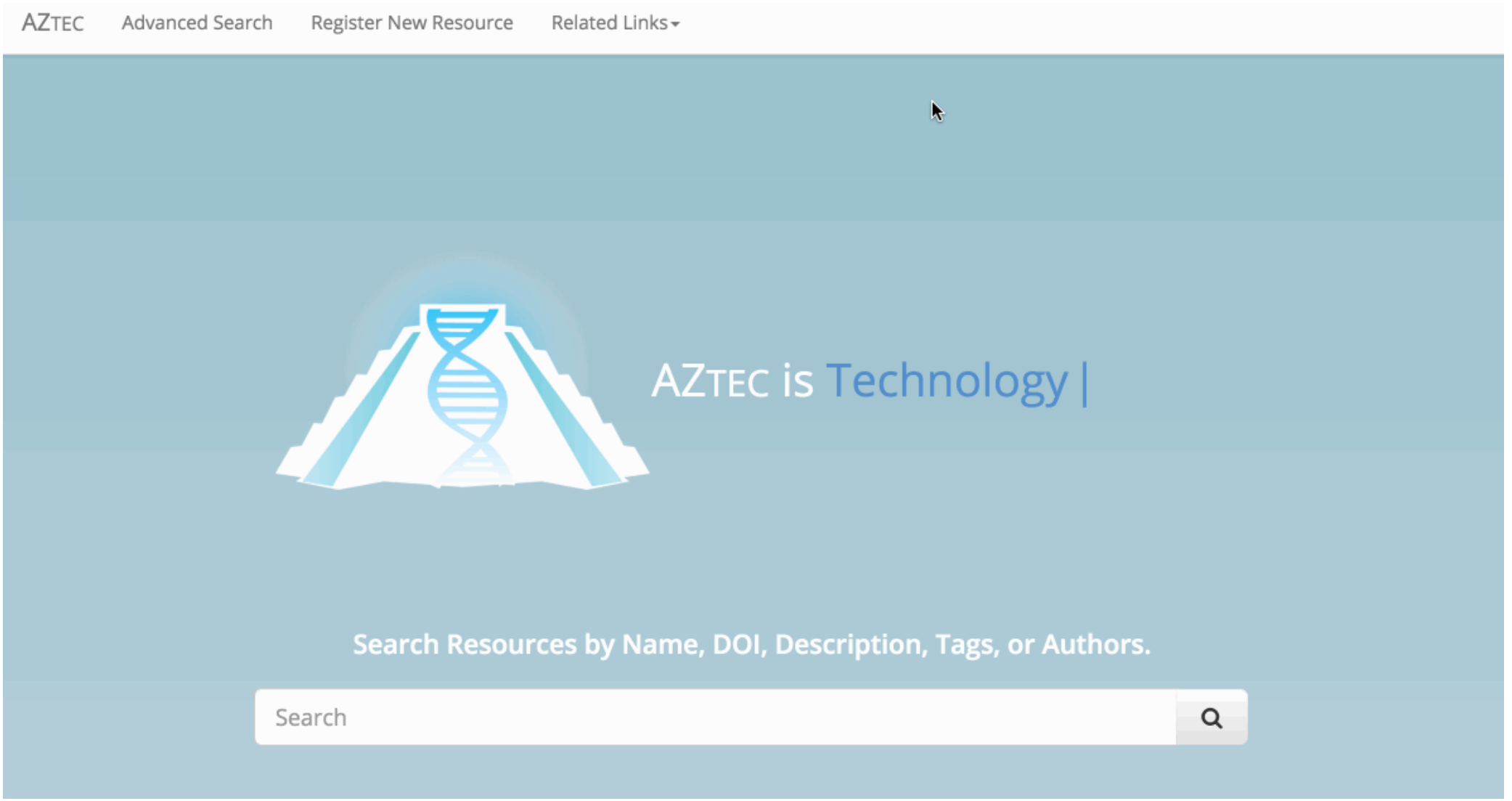
Software Tools

University of California CDL California Digital Library

zenodo

- Uniquely identifies software programs and tools with DOIs.
- Pre-existing DOIs issued by Zenodo or other services will be tracked by Aztec. Tools without DOIs can have new DOIs minted by Aztec through our partnership with the California Digital Library.
- Incorporated into Aztec's DOI metadata field.

Front page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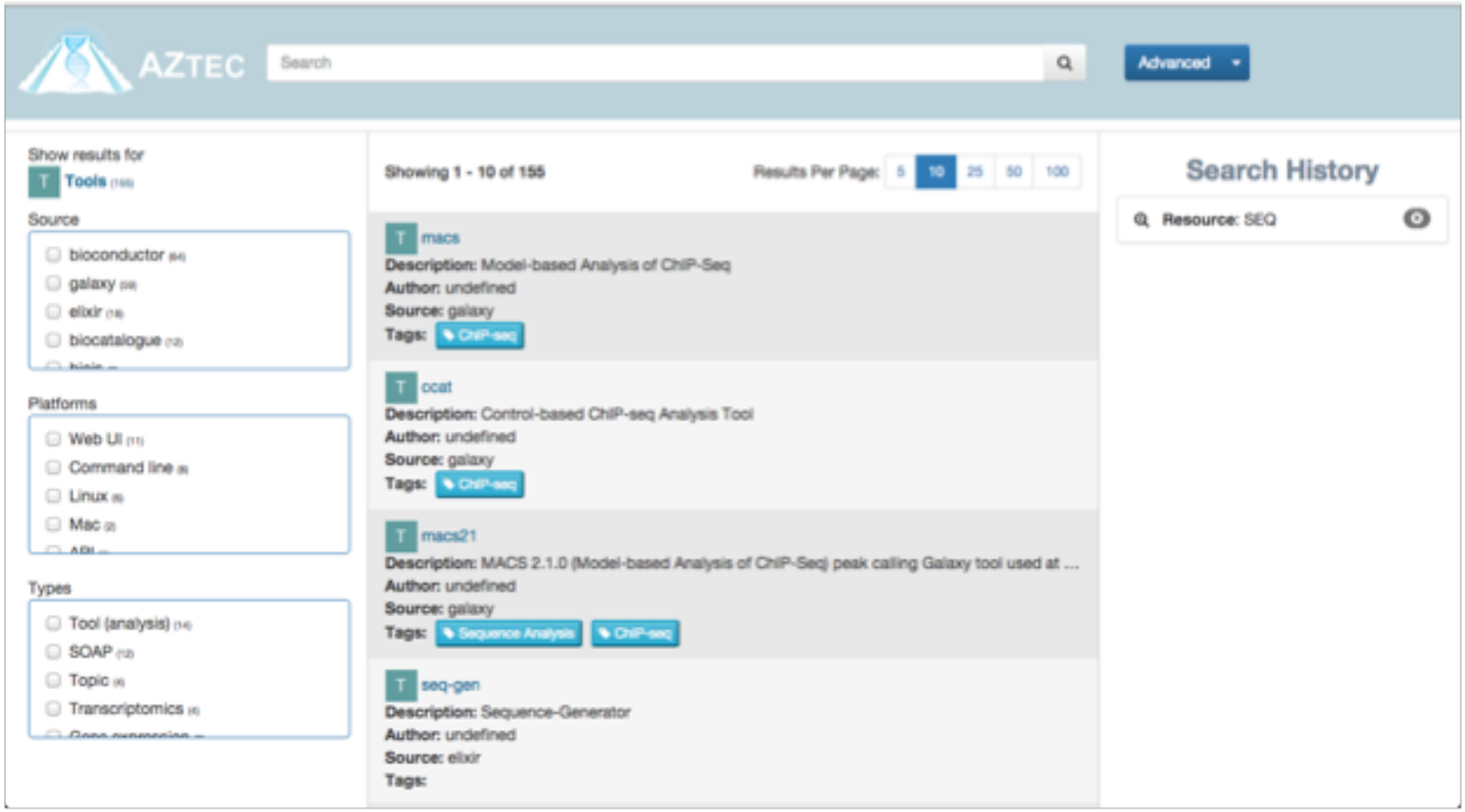
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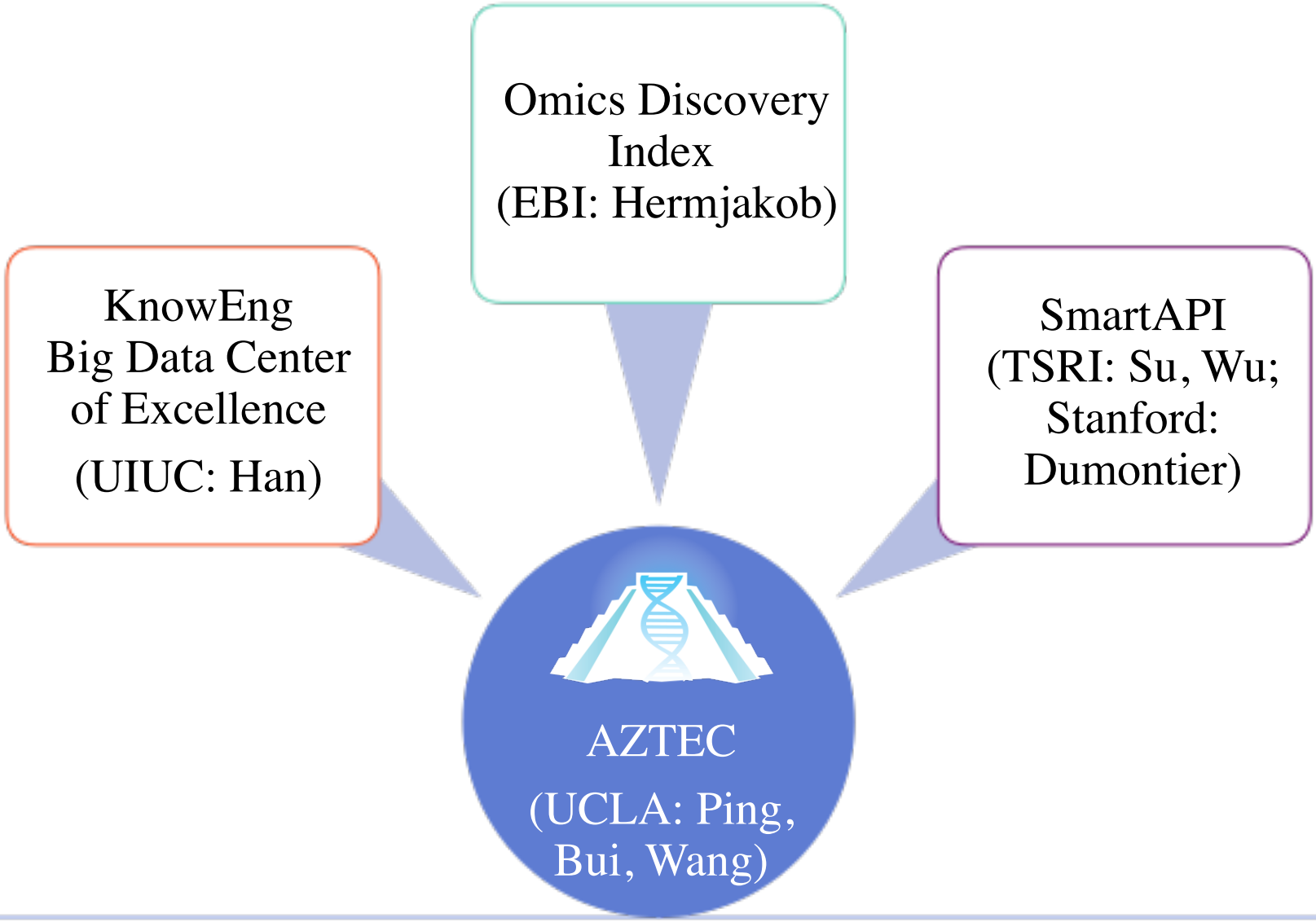
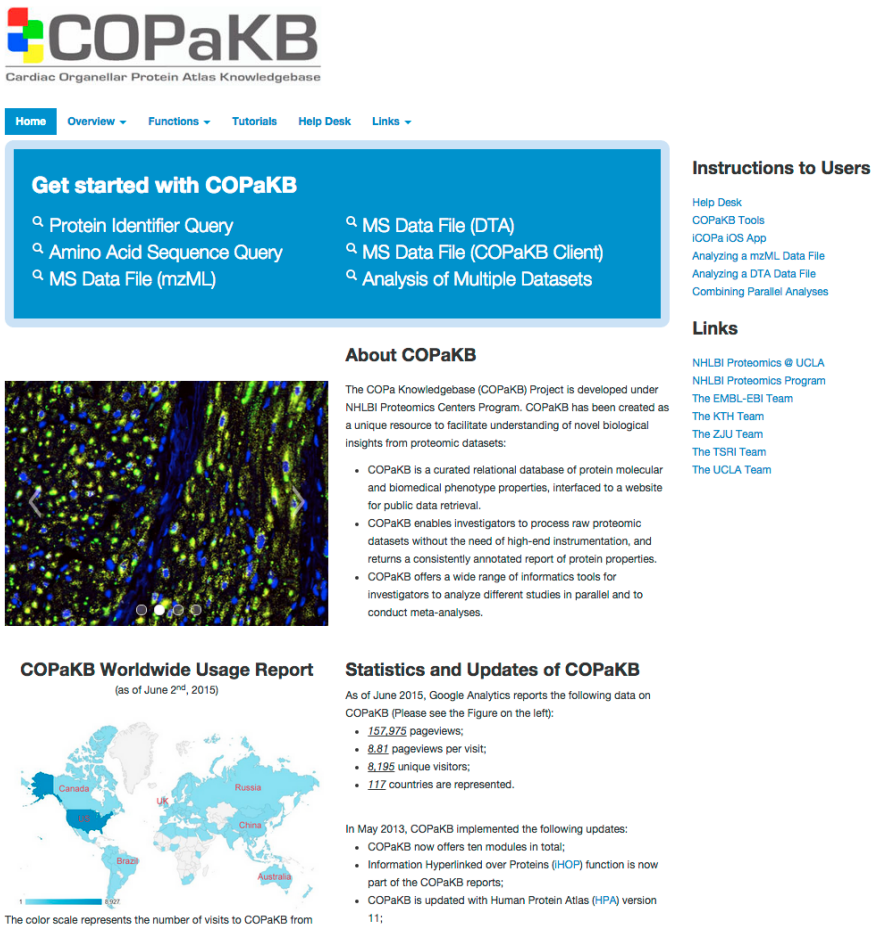
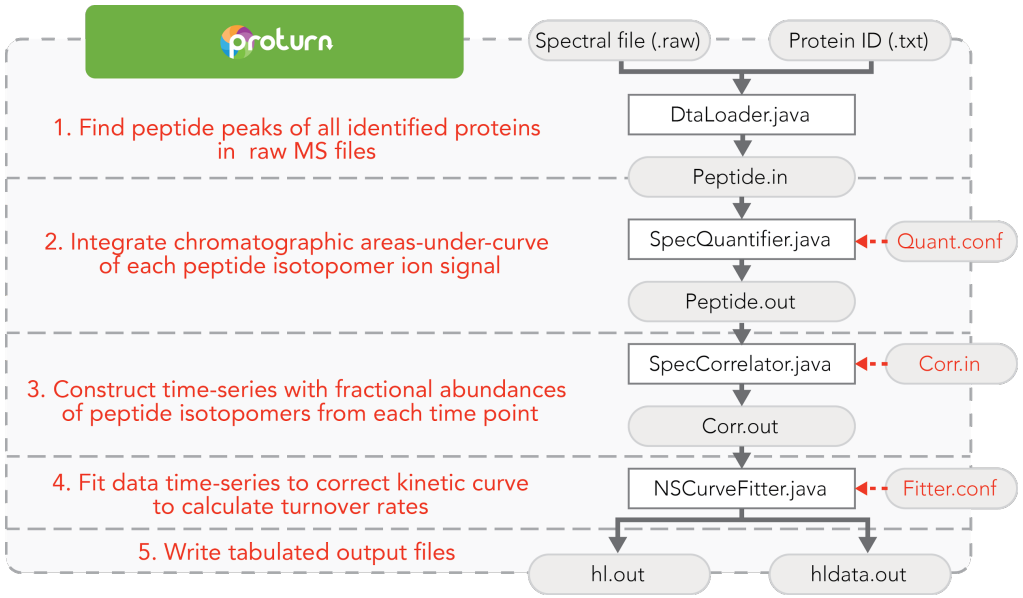
Current and Future Collaborations



Other UCLA Center Tools