EUROPEAN CHEMICAL BIOLOGY DATABASE

The mission of ECBD is to provide a platform for the integration, annotation, standardization, organization and analysis of data/metadata produced within the EU-OPENSCREEN network.

- **data upload to ECBD**
- **automatic and manual data curation**
- **browse, filter, analyze, visualize, export and share**
- **backup, security, user support, documentation**

CZ-OPENSCREEN & CESNET

CZ-OPENSCREEN will be developed and maintained as a joint effort of CZ-OPENSCREEN (IMG) and CESNET.

CZ-OPENSCREEN is a state-of-the-art infrastructure for chemical biology and genomics with a strong background in cheminformatics and software development (LIMS ScreenX, Probes & Drugs, Zebrabase).

cesnet is an association of universities of the Czech Republic and the Czech Academy of Sciences.

Operates and develops the national e-infrastructure for science, research and education.

DATA

Processed and quality controlled bioactivity data upload through user-friendly interface.

Automatic and manual curation.

Organization through standardized identifiers and ontologies.

Browse and detail view of main data entities (compounds, targets, assays etc.).

Search with prioritized autocomplete and filtering system enhanced with Boolean logic.

Filtering system enhanced with Boolean operators.

VISUALIZE AND EXPORT

Specialized visualizations

Sandwich

Pie chart

Cluster heatmap

Distribution plot

Save, export and share

- Export currently filtered data at any time
- Database dump for each new version
- REST API
- Queries embedded as a part of URL
- Easy to share with anyone
- Can be saved and ready for an instant use

PUBLICATIONS