



an official partner site of



IMG



CZ-OPENSREEN

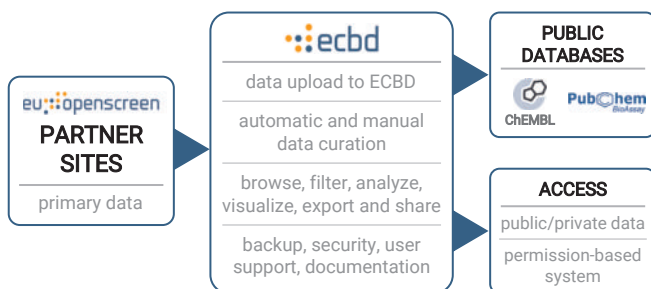


THE PEOPLE

Petr Bartůněk, PhD., bartunek@img.cas.cz
 Daniel Svozil, PhD., daniel.svozil@img.cas.cz
 Jindřich Jindřich, PhD., jindrich.jindrich@img.cas.cz
 Ctibor Škuta, PhD., ctibor.skuta@img.cas.cz
 Tomáš Müller, MSc., tomas.muller@img.cas.cz
 Milan Voršilák, MSc., milan.vorsilak@img.cas.cz

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-OPENSREEN network



CZ-OPENSREEN & CESNET

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

eu openscreen is a state-of-the-art infrastructure for chemical biology and genetics with a strong background in cheminformatics and software development (LIMS ScreenX, Probes & Drugs, Zebrafish)

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

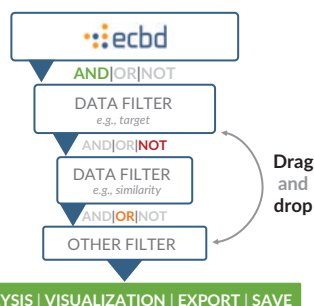
Automatic and manual curation

Organization through standardized identifiers and ontologies

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

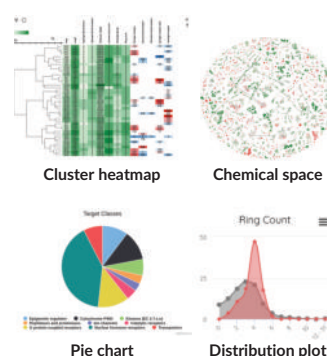
Search with prioritized autocomplete and filtering system enhanced with Boolean logic

Filtering system enhanced with Boolean operators



VISUALIZE AND EXPORT

Specialized visualizations



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

- Skuta, C., Popr, M., Muller, T., Jindrich, J., Kahle, M., Sedlak, D., Svozil, D., Bartunek, P., Probes & Drugs Portal: an interactive, open data resource for chemical biology. *Nat Methods*. 2017 Jul 28;14(8):759-760.
- Oltova, J., Jindrich, J., Skuta, C., Svoboda, O., Machonova, O., Bartunek, P., Zebrafish: An intuitive tracking solution for aquatic model organisms. *Zebrafish*. 2018. In press.
- Cech, P., Hoksza, D., Svozil, D., MultiSETTER: web server for multiple RNA structure comparison. *BMC Bioinformatics* 2015, 16, 253.
- Skuta, C., Bartunek, P., Svozil, D., InChIlib - interactive cluster heatmap for web applications. *J Cheminform* 2014, 6 (1), 44.
- Hoksza, D., Skoda, P., Vorsilak, M., Svozil, D., Molpher: a software framework for systematic chemical space exploration. *J Cheminform* 2014, 6 (1), 7.

RELEASED SOFTWARE



Probes & Drugs
probes-drugs.org



Zebrafish
zebrafish.org



InChIlib
openscreen.cz/software/inchlib



ChemSpace.js
openscreen.cz/software/chemspace

