**European Chemical Biology Database**

Voršilák M.1,2, Müller T.1, Škuta C.1, Bartůněk P.1

*1 CZ-OPENSCREEN National Infrastructure for Chemical Biology, Institute of Molecular Genetics of the ASCR v. v. i., Vídeňská 1083, 142 20, Prague 4, Czech Republic*

*2 Department of Informatics and Chemistry, Faculty of Chemical Technology, University of Chemistry and Technology Prague, Technická 5, 166 28, Prague, Czech Republic*

The European Chemical Biology Database (ECBD, https://ecbd.eu) serves as the central repository for data generated by the EU-OPENSCREEN (EU-OS) research infrastructure consortium, European research infrastructure for chemical biology founded in 2018 to support chemical probe and drug discovery projects. ECBD is developed according to FAIR principles, which emphasize findability, accessibility, interoperability and reusability of data. These data are made available to the scientific community following open access principles. The ECBD stores both positive and negative results from the entire chemical biology project pipeline, including data from primary or counter-screening assays. The assays utilize a defined and diverse library of over 108 000 compounds, the annotations are continuously enriched by external user supported screening projects and by internal EU-OS bioprofiling efforts. As of May 2025, these compounds were screened in 115 currently deposited datasets (assays), with 71 already being publicly accessible, while the remaining will be published after a publication embargo period of up to 3 years. Together these datasets encompass ∼4.7 million experimental data points. All public data within ECBD can be accessed through its user interface, API or by database dump under the CC-BY 4.0 license.