



## Academic Compound Library Initiative (EACL) - New opportunities for the chemistry community -



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### EU-OPENSSCREEN COMPOUND LIBRARIES



EU-OPENSSCREEN is a research infrastructure for chemical biology working with a large network of screening facilities and medicinal chemistry laboratories all over Europe. Our aim is to develop chemical probes for basic and applied research. We support scientists by providing the EU-OPENSSCREEN compound collection which consists of mainly 2 parts: the structurally diverse compound library (ECBL) and an academic library made of up to 40,000 compounds collected from academic chemists (EACL).

We invite chemists to include their compounds into this library to gain more extensive information about biological activities of their compounds through diverse screening campaigns.

### BENEFIT FROM ADDING YOUR COMPOUNDS TO THE ACADEMIC LIBRARY

1

#### BIOPROFILING

Your submitted compounds will be characterized for physical and chemical properties: light quenching/autofluorescence, solubility, bioluminescence reporters, reactive oxygen species, cell viability/toxicity (eg. anti-cancer), anti-bacterial/fungal activity.

2

#### VALUABLE SCREENING DATA

Your bioprofiled compounds are continuously screened in a wide range of biological assays in user projects. If your compound is identified as a hit, you will be promptly informed in a transparent process. You will be asked to be involved in the follow-up research projects.

3

#### REGULATED ACCESS TO SUBMITTED COMPOUNDS

Submitted compounds can be screened by external scientists at EU-OPENSSCREEN partner laboratories. Your intellectual property rights are transparently regulated by a Material Transfer Agreement. Embargo periods ensure time for patent generation before data publication.

### PROCESS OF SUBMITTING COMPOUNDS FOR THE EU-OPENSSCREEN ACADEMIC LIBRARY



Submit an Expression of Interest on our website and get further information and documents by email.



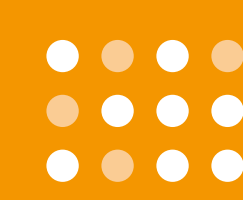
Sign the Material Transfer Agreement, a legal document that explains the framework to support the process of collecting the compounds from academic chemistry groups.



Submit your compounds via our web application with login details provided by us.



Ship your compounds in 24 rack tubes (ideally 5-10 mg each and 90% minimum purity).



We transfer the compounds to 384-well plates and distribute them to our partner sites for the screening and bioprofiling.



Your compound structures and related screening data will be included in the European Chemical Biology Database (ECBD).



We will closely monitor your compounds properties like reactive groups, frequent hitter analysis, PAINS compounds, duplicates in comparison to the existing commercial library, diversity pattern.



Once a compound is identified as a validated hit, EU-OPENSSCREEN supports the collaboration between the screening users and chemists, with the possibility to generate a patent.



EU-OPENSSCREEN is carefully storing and analysing more than 100,000 compounds in its lab on Campus Buch in Berlin, Germany.

### FURTHER INFORMATION ON THIS TOPIC



Please find more details on our corresponding website section - use button left or link below:

<https://www.eu-openscreen.eu/participate/access-for-chemists-compound-providers/compound-providers-overview.html>

### TRAINING ACTIVITIES



EU-OPENSSCREEN offers courses and webinars like "Tool compound & Probe evaluation", "Introduction to High-Throughput Screening" and other topics about our services in Chemical Biology:

<https://www.eu-openscreen.eu/services/training.html>

Visit our websites for more information, updates on our activities and to subscribe to our newsletter

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