



# Latvijas Organiskās sintēzes institūts

Eiropas ķīmiskās bioloģijas un zālvielu  
atklāšanas infrastruktūras konsorcijs

eu:openscreen

**Aigars Jirgensons, RSU zinātnieku brokastis**

Rīga, 06.12.2023.

# Eiropas infrastruktūras konsorcijs

- izveidots 2018. gada aprīlī
- 33 partnerorganizācijas
- 10 valstis Norvēģija, Zviedrija, Somija, Latvija, Polija, Vācija, Čehija, Dānija, Spānija, Portugāle
- Centrālais birojs: *Campus Buch* Berlinē

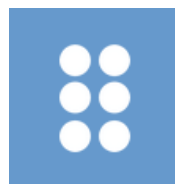
## Misija

Eiropas vadošais ķīmiskās bioloģijas pētnieciskās infrastruktūras konsorcijs



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# Partnerorganizāciju kategorijas



20

Augstas caurlaidības skrīnings



11

Medicīnas ķīmija



1

Datu bāzes

Kemoproteomika – Q3 2023



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# Integrēta ķīmiskās bioloģijas platforma



## Savienojumu bibliotēkas

Diversity: ~100 tūkst.

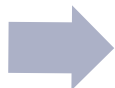
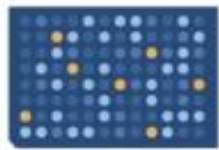
Bioactives: ~2,5 tūkst.

Fragments: ~1 tūkst.

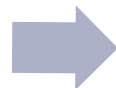
Academic: ~10 tūkst.

# Integrēta ķīmiskās bioloģijas platforma

Testu sistēma



**Skrīnings**



**Medicīnas ķīmija**



**ECBD datu bāze**



**Lietotājs**



**Lietotājs**

**Savienojumu bibliotēkas**

Diversity: ~100 tūkst.

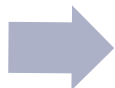
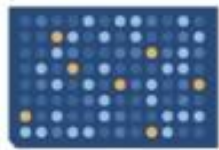
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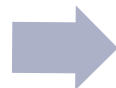
Academic: ~6 tūkst.

# Integrēta ķīmiskās bioloģijas platforma

Testu sistēma



**Skrīnings**



**Medicīnas ķīmija**



**ECBD datu bāze**



**Lietotājs**



**Lietotājs**

**Savienojumu bibliotēkas**

Diversity: ~100 tūkst.

Bioactives: ~2,5 tūkst.

Fragments: ~1 tūkst.

Academic: ~6 tūkst.

**88**

**Lietotāju projekti**

# Izglītošana

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Webinar series 2023

Webinar topic

Phenotypic neuronal-like models for drug screening in neuropathic pain

Antón Leandro Martínez Rodríguez  
(University of Santiago de Compostela)

October 24th 2023 10:00 AM CEST



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Webinar series 2023

Webinar topic

How blending chemistry and biology can enable systems pharmacology

Patrick Aloy (Institute for Research in Biomedicine, Barcelona)

June 27th 2023 10:00 AM CEST



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Webinar series 2023

Webinar topic

High throughput and high content fluorescent imaging tools and technologies

Jacek Kolanowski (Polish Academy of Sciences, Institute of Bioorganic Chemistry)

April 27th 2023 10:00 AM CEST



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Webinar series 2023

Webinar topic

Mitochondria as a druggable target: the history of mitochondriotropic antioxidants

Fernanda Borges (University of Porto)

February 28th 2023 10:00 AM CEST



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Webinar series 2023

Webinar topic

Demystifying Data Science for Image-Based Phenotypic Screening

Victor Wong (Core Life Analytics, Netherlands)

March 28th 2023 10:00 AM CEST



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Webinar series 2023

Webinar topic

Strategies in Antimalarial Drug Discovery

Rui Moreira (EFMC / University of Lisbon)

January 31st 2023 10:00 AM CEST



# H2020 un HE projekti

7

Pieteikti projekti ar OSI, 4 piešķirti

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I S I D O R e

**IMPULSE**



# H2020 un HE projekti

## Ensuring long-term sustainability of excellence in chemical biology within Europe and beyond

2019-2023

ERIC kapacitātes celšana  
33 partneri

**OSI:** WP3 – MedChem **TNA**  
WP4 vadība – **FBLD**

## Transnational access calls (TNA)

- Medicinal Chemistry Call 2021 (internal)
- Chemoproteomics and Mass Spectrometry Imaging Call 2021
- Small molecule screening Call 2019
- Chemoproteomics Call 2019

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I S I D O R e 

IMPULSE

# H2020 un HE projekti

**From fragments to high affinity binders interfacing integrated structural biology, medicinal chemistry and artificial intelligence**

2023-2025

**EU\_OS + Instruct**

Konsorcijs: 25 partneri

**OSI:** WP6 daļība – **FBLD**

Sadarbība ar IBM (**AI**)

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I S I D O R e 

IMPULSE

# H2020 un HE projekti

## Integrated Services for Infectious Disease Outbreak Research

2022-2025

17 ERIC konsorcijs  
150 partneri

**OSI:** WP10 – MedChem **TNA**

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ISIDORE 

IMPULSE

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here:

[https://isidore-project.eu/services  
/diagnostic-therapeutic-development/](https://isidore-project.eu/services/diagnostic-therapeutic-development/)

### HOW TO ACCESS OUR SERVICES FOR APPLICATIONS TO ALL CALLS

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1. Browse our catalogue and identify the service that you need
2. Fill out the pre-application form at the bottom of the page and hit the 'SUBMIT' button
3. After receiving an email with your ISIDORE ID number, follow the instructions to complete your application

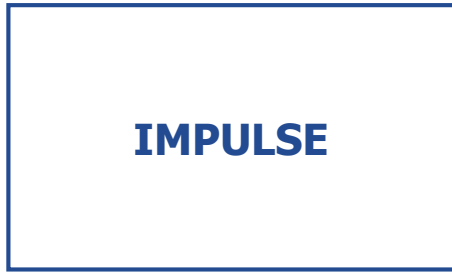
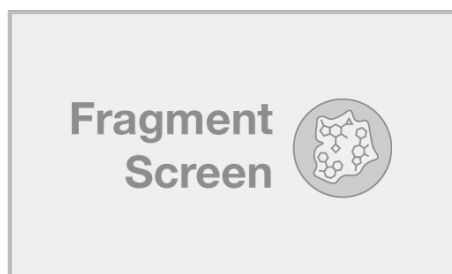
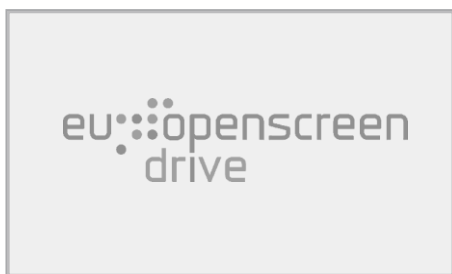
# H2020 un HE projekti

## Improving User Experience, Long term sustainability and services of EU-OPENSSCREEN 2024-2026

Konsorcijs: 25 partneri

**OSI:** WP4 daļība –

*Photoprobes and Ribotacs*





[www.eu-openscreen.eu](http://www.eu-openscreen.eu)

## Video

<https://www.eu-openscreen.eu/newsroom/video-content/services-for-biological-applications.html>

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