

EDUC-WIDE



Co-funded by
the European Union

Agenda

- 1. Introduction to the access call and RIs of MUNI participating in the access call (Ondřej Hradil)**
- 2. OpenUp: Landing page & How to Apply (Adéla Šafaříková)**
- 3. RIs of PNU participating in the access call (Iryna Hryhoruk)**
- 4. RIs of University of Pécs participating in the access call (Zsolt Bedö & Antonio Carrizo)**
- 5. Access call project from user perspectives (Silvio Ferrero & Camille Rossignol)**



EDUC-WIDE consortium



Introduction to the access call and research infrastructures of MUNI participating in the access call

Ondřej Hradil

Basic information

TIMELINE

- Opened from **31st July till 31st October 2024**
- Applicants will be informed about the outcome of the call by 30th November 2024
- All projects must be implemented by 30th September 2025.

APPLICANTS/USERS

- Researchers working at EDUC member institutions
- Ph.D. candidates of EDUC member institutions

UNIVERSITIES PROVIDING EQUIPMENT AND SERVICES

- Masaryk University
- University of Pécs
- Vasyl Stefanyk Precarpathian National University

ELIGIBLE EDUC MEMBER INSTITUTIONS

- Masaryk University,
- University of Cagliari
- University of Pécs
- University of Rennes
- University of Potsdam,
- University Paris Nanterre
- University of South-Eastern Norway,
- University Jaume I
- Vasyl Stefanyk Precarpathian National University

Timeline of the call

**31st July
2024:** call is
open

**12th September
2024:** webinar (from
the University of
Cagliari)

**19th September
2024:** webinar (from
the University of
Pécs)

**31st October
2024:** call is
closed

**30th November
2024:** outcome of
the call to be
published

**30th September
2025:** all projects
must be
implemented

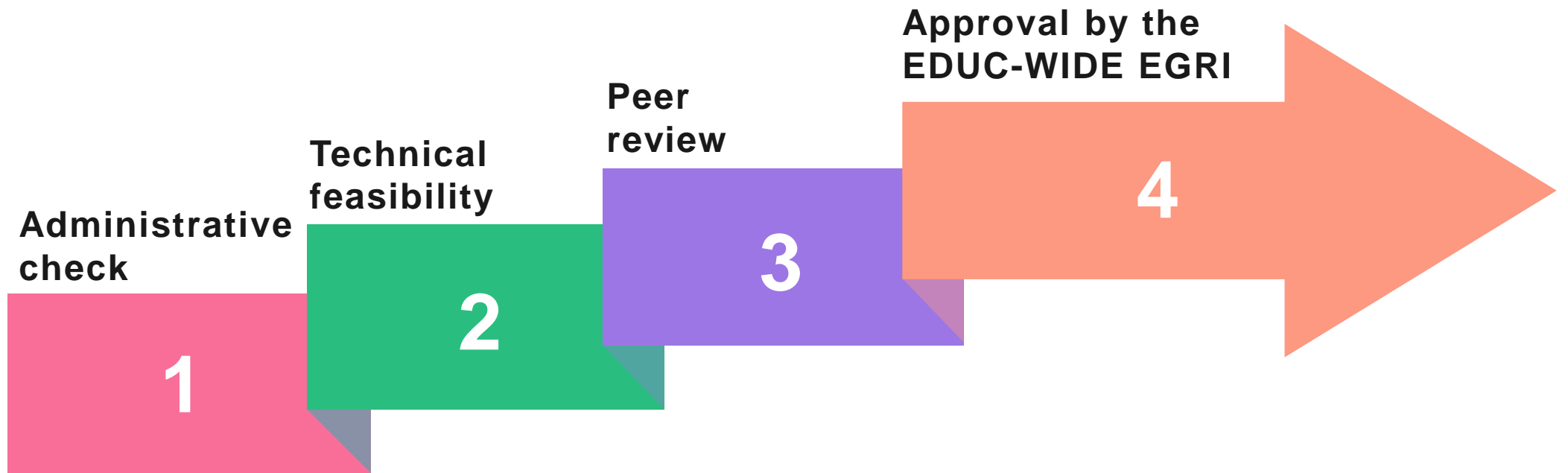
Eligibility for funding

- Total allocation of funding: **76.000 EUR**

University	User Access Budget	Travel Expenses Budget
University Paris Nanterre University Rennes	✓	X
University of Pécs University of Potsdam University of Cagliari Jaume I University University of Southern-Eastern Norway Masaryk University Vasyl Stefanyk Precarpathian National University	✓	

Selection process

1. **Administrative check:** Verification of the application and applicant's status.
2. **Technical feasibility:** Evaluation by core facility heads, leading to a YES/NO decision (upon the agreed methodology of cost claims) and a preliminary budget if approved.
3. **Peer review:** Assessment by a scientific reviewer nominated by the facility who may recommend full funding, partial funding (with changes), or rejection.
4. Final list of projects to be funded will be discussed and **approved by the EDUC-WIDE Expert Group on Research Infrastructures (EGRI)** according to the **set criteria** (At least one project funded per partner university (if there is an application), projects pursuing one of the 11 research topics of the EDUC research agenda (see research topics below), project proposals submitted by early-stage researchers)



Ethics

Shall the projects involve research on humans or any other ethics-related issues, applicants shall mention this in their application, and projects will be subject to an appropriate ethical review.



Core Facilities participating in the call

MASARYK
UNIVERSITY

10



9



PÉCSI TUDOMÁNYEGYETEM
UNIVERSITY OF PÉCS

4

Research Infrastructures Database

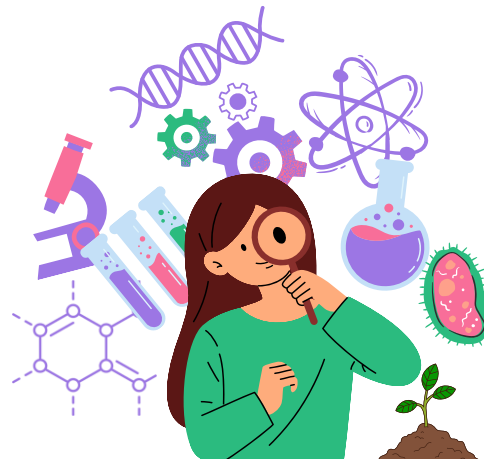
- <https://educ.openup.education/facilities/?skip=0&ascending=false>

The screenshot displays the 'Core facilities' section of the Research Infrastructures Database. On the left is a sidebar menu with icons and labels for: Feed, Members, Mentoring, Courses, Jobs, News, Core facilities (highlighted), Projects, Seed projects, Groups, Events, Podcasts, and Admin. The main content area is titled 'Core facilities' and includes tabs for 'All', 'My core facilities', and 'My applications', along with a '+ Create' button. Below the tabs, it shows '151 result found' and a 'sort by' dropdown. Two facility cards are visible: 'UJI- Inductively Coupled Plasma Mass Spectrometry (ICP-MS)' and 'UJI- Elemental analysis'. The 'UJI- Inductively Coupled Plasma Mass Spectrometry (ICP-MS)' card features a colorful bar chart and a description: 'ICP-MS: Inductively Coupled Plasma Mass Spectrometry for elemental analysis.' The 'UJI- Elemental analysis' card also features a colorful bar chart and a description: 'Elemental analysis: C, H, N, O, and S in materials of various origins, generally organic.' On the right side, there is a 'FILTERS' section with a 'Global search' input field, two dropdown menus for 'Universities' and 'Scientific fields', and a 'Clear filter' button. At the bottom of the main content area, there is a row of small colored bars corresponding to the facility cards.

Research Infrastructure Database: Numbers

University	Core Facilities
UNICA	22
UJI	15
MU	25
Nanterre	14
Pécs	11
Potsdam	6
Rennes	48
USN	1
PNU	9
Overall	151

Scientific field	Distribution
Energy	6
Environment	29
Health & Food	62
Physical Science & Engineering	40
Social & Cultural innovation	29
Data, Computing & Digital RIs	18



Research Infrastructures of the Masaryk University participating in the call



Social and Cultural Innovation

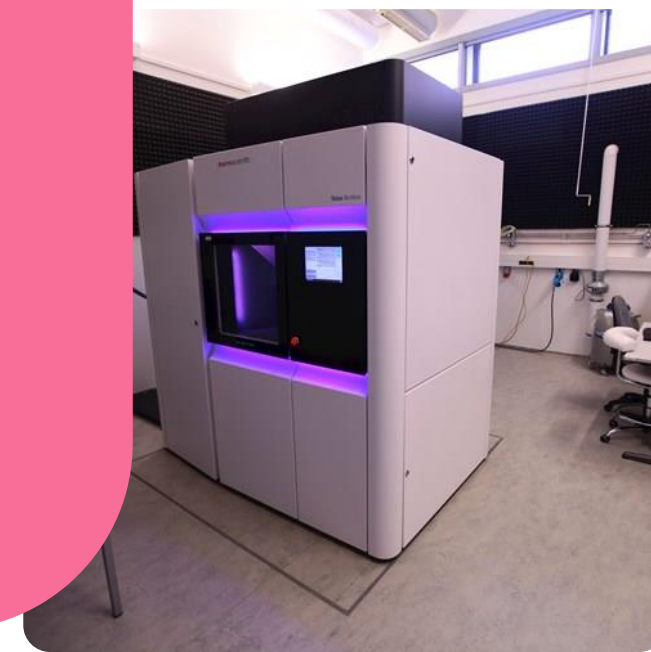
- Generations and Gender Programme (GGP-CZ)
- Experimental Economics Laboratory (MUEEL)
- Experimental Humanities Laboratory (HUME Lab)

Health and Food

- Centre for Biomedical Image Analysis (CBIA)
- Multimodal and Functional Imaging Laboratory (MAFIL)
- Genomics Core Facility
- Biomolecular Interactions and Crystallography (BIC)
- Josef Dadok National NMR Centre
- Cryo-electron microscopy and tomography core facility (CEMCOF)

Physical Sciences and Engineering

- Centre for plasma and nanotechnology surface modifications (CEPLANT)





Social & Cultural Innovation





Masaryk University Research Infrastructures

Generations and Gender Programme (GGP-CZ)

Short description

The GGP is a social science research infrastructure. It collects, processes **data** and provides **internationally harmonized data on family and population behavior** in the open-access mode.

Main equipment services

- Collection, harmonization and dissemination of various types of family data
- Micro-data: questionnaire survey, panel design, 30 countries
- Macro-data: contextual database (demographic, social, political and economic indicators at regional and state level)
- Shared archive in open access mode





Masaryk University Research Infrastructures

Experimental Economics Laboratory (MUEEL)

Short description

MUEEL provides the infrastructure for conducting **experimental research in economics/social sciences**. The facility consists of two state-of-the-art laboratories, a rich subject pool, necessary software solutions, and experience-based know-how to conduct experimental research.

Main equipment and services

- 2 state-of-art research laboratories
- 24 + 20 cubicles/stations with movable dividers
- 3+1 admin computers - ceiling speakers and cctv - dedicated servers for subject pool, oTree,...
- expertise in conducting economic experiments
- infrastructure tailored for lab or lab-in-field studies
- independent RAs proficient in coding and experiments execution - strong administrative support by MUNI ECON





Masaryk University Research Infrastructures

Experimental Humanities Laboratory (HUME Lab)

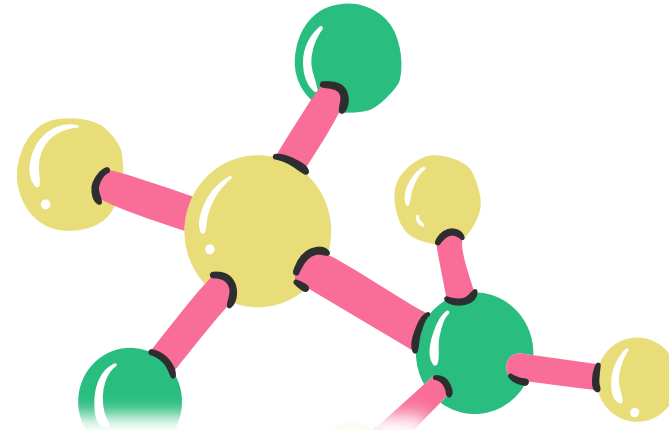
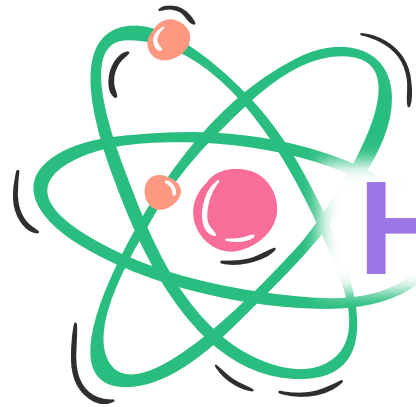
Short description

It is a multifunctional facility with adjustable spaces equipped for diverse types of **experimental research** and research designs in **social sciences and humanities**. There are several cutting-edge systems, software solutions, and a range of technical equipment.

Main equipment and services

- EEG
- fNIRS
- Motion Capture System
- Virtual Reality headset
- Blood Pressure Monitor
- Alcometer
- Sociometric badges
- Hormonal levels measurement sets
- Metabolic activity monitors
- Heart rate monitors
- Thermocamera (FLIR)
- Eye Tracking
- Glasses with Augmented Reality
- 3D Projection and Presentation sets





Health & Food



Centre for Biomedical Image Analysis (CBIA)

Short description

CBIA provides open access to a wide range of **biomedical image analysis** resources and services. It is well equipped with **state-of-the-art big data computational and data storage equipment**. The staff have broad experience in the field. It is part of the EU level RI – EuroBioImaging.

Main equipment and services

- Computational and File Servers (ALFA, BETA, MELETE, ALFEIOS, GRYP)
- Microscopes (Inverted Olympus IX83, Inverted Zeiss Axiovert 200M,
- Installed software packages (MATLAB, Imaris, SVI Huygens, Fiji)





Multimodal and Functional Imaging Laboratory

- **Expertise:**

- Custom imaging services, particularly neuroimaging, human brain mapping, and other body parts' imaging;
- Expert assistance with project preparation for measurement and data processing;
- Trainings and courses on methods, laboratory work, data processing etc.

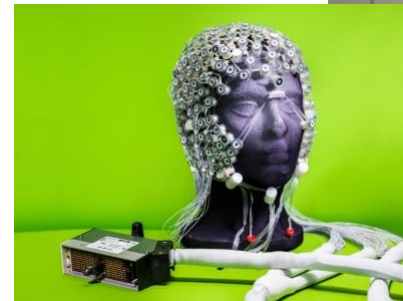
- **Key Equipment:**

- Two whole body MR scanners with 3T magnetic field induction;
- Equipment for functional studies (visual and auditory stimulation,...);
- Electrophysiological systems for use in Elektroencefalogram (EEG) laboratory or with MR.

- **Mode: full service, partial service**

- **Web:** Multimodal and Functional Imaging Laboratory

- **Contact:** mafil@ceitec.muni.cz





Genomics

- **Expertise:**

- Complete experimental workflow from advanced sample preparation (cell sorting, microdissection) to complex genome analysis (massive parallel sequencing, microarrays, quantitative PCR);
- NGS library preparation and quality control.

- **Key Equipment:**

- Massive parallel sequencers Illumina NextSeq and MiSeq;
 - Microarray system Agilent SureScan;
 - qPCR & digitalPCR;
 - Flow cytometers;
 - Single-cell Fluidigm C1.
- **Mode: user (after training – preferred) and service modes**
 - **Web: [Core facility Genomics](#)**
 - **Contact: genomics@ceitec.muni.cz**

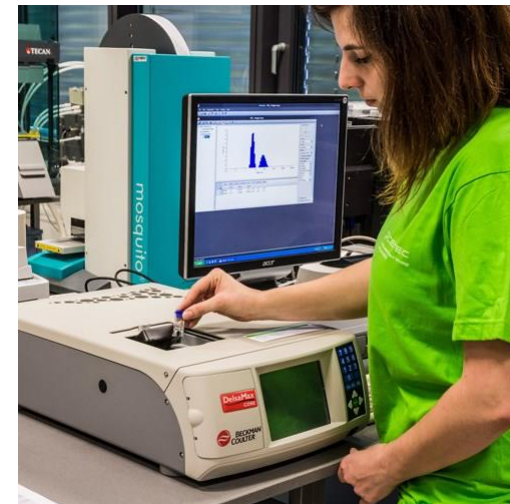




Biomolecular Interactions and Crystallography I

- **Expertise:**

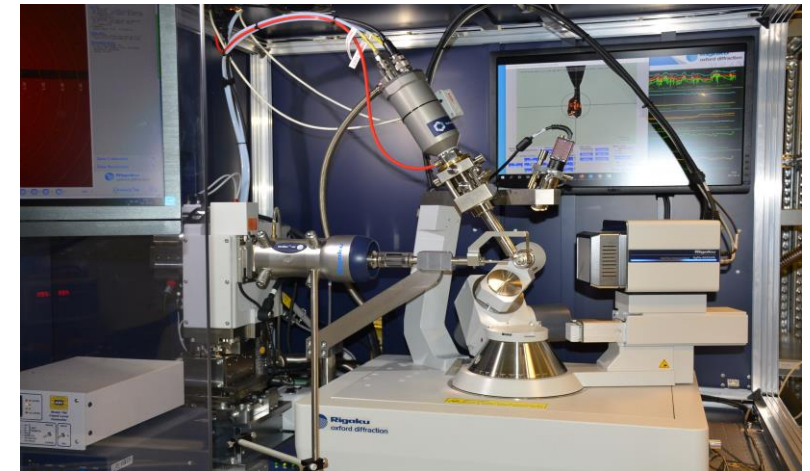
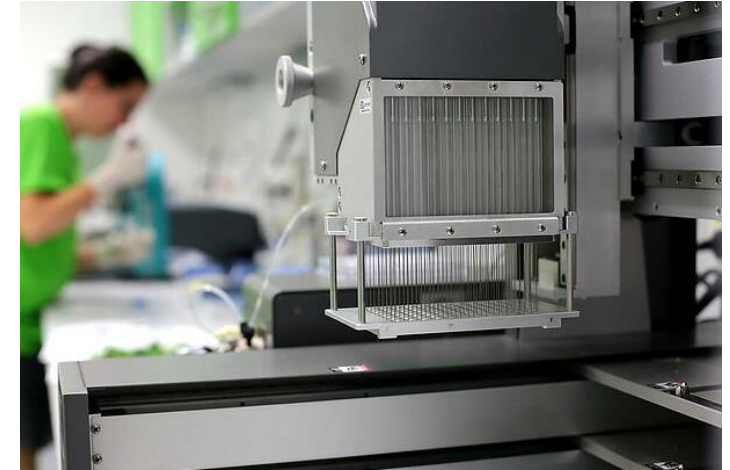
- High-throughput crystallization screening and optimization of conditions for a crystal growth;
- Studies of physical properties of the molecules, e.g. size distribution, homogeneity, stability, structural content;
- Characterization of (bio)molecular interactions including thermodynamics and/or kinetics parameters;
- Diffraction experiments with single crystal samples focused on the determination of the 3-D structure of (macro)molecules down to atomic resolution;
- SAXS (Small Angle X-ray Scattering) experiments with isotropically scattering samples focused on determination of the shape and size of macromolecules or nanoparticles;
- Including diffraction/SAXS data collection, analysis and structure determination.
- Consultation and assistance.





Biomolecular Interactions and Crystallography II

- **Key equipment:**
 - Crystallization robotics + plate storage and inspection;
 - Analytical ultracentrifuge;
 - SPR, BLI, MST, Auto-ITC, VP-ITC;
 - SEC-MALS, Auto-DSC, VP-DSC, CD, DLS, DSF.
 - Rigaku OD XtaLAB Synergy Custom, robotized macromolecular diffraction system with ACTOR sample changer
 - Rigaku OD XtaLAB Synergy-DW, universal, dual wavelength diffractometer
 - Rigaku BioSAXS-2000, SAXS camera for small angle X-ray scattering
- **Mode: user and service mode**
- **Web:** [Core Facility Biomolecular Interaction and Crystallography](#)
- **Contact:** bic@ceitec.muni.cz





Josef Dadok National NMR Centre

- **Expertise:**

- High-resolution NMR of proteins, nucleic acids, and their complexes in liquids and bio-macromolecular dynamics;
- Instrumentation is flexible enough to cover various research needs in material science, organic and inorganic chemistry, biochemistry, biology and biophysics;
- Training, quality control, data analysis and other services.

- **Key Equipment:**

- High Field NMR Spectrometers of proton frequencies from 500 MHz to 950 MHz;
- EPR Spectrometer Bruker EMX nano;
- Bioreactor system for NMR studies of proteins/nucleic acids in living mammalian cells.

- **Mode: user and service modes**

- **Web:** [CF NMR CEITEC](#)

- **Contact:** nmr@ceitec.muni.cz





Cryo-Electron Microscopy and Tomography

- **Expertise:**

- Acquisition of cryo-electron microscopy images for both single particle and cryo-electron tomography applications;
- Support in sample preparation, data acquisition, and data processing.

- **Key Equipment:**

- three transmission electron cryo-microscopes (Titan Krios, Talos Arctica, Talos F200C);
- two FIB-SEM microscopes (Versa 3D, Helios Hydra V);
- a wide-field cryo-fluorescence microscope (Leica EM CryoCLEM);
- a variety of instruments for sample preparation.

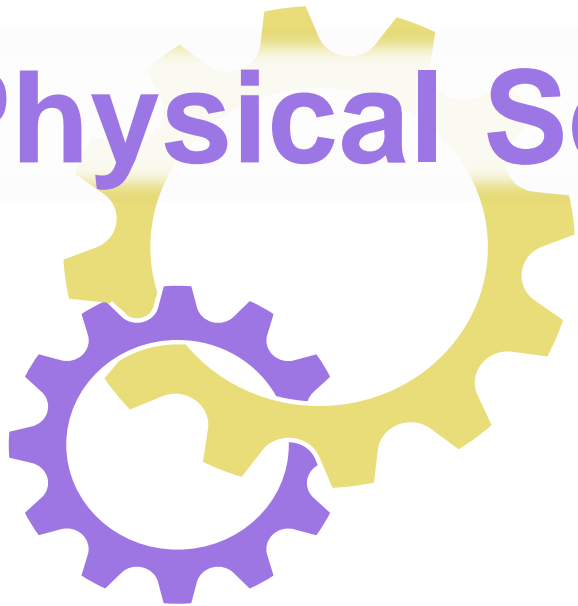
- **Mode: user and service modes**

- **Web:** [CF Cryo-Electron Microscopy and Tomography](#)

- **Contact:** cemcof@ceitec.muni.cz



Physical Sciences & Engineering



Centre for plasma and nanotechnology surface modifications (CEPLANT)

Short description

CEPLANT provides for research in the field of **plasma nanosurface science** with a focus on **plasma-enabled scalable nanofabrication**. Its activities have already resulted in industrial applications with eco-friendly and cost-effective solutions for preparing **new advanced materials and the surface treatment of traditional materials**.

Main equipment and services

- Low-cost plasma equipment
- Commercial plasma equipment
- Thin film deposition
- Plasma diagnostic
- Surface analytics



OpenUp: Landing page & How to apply

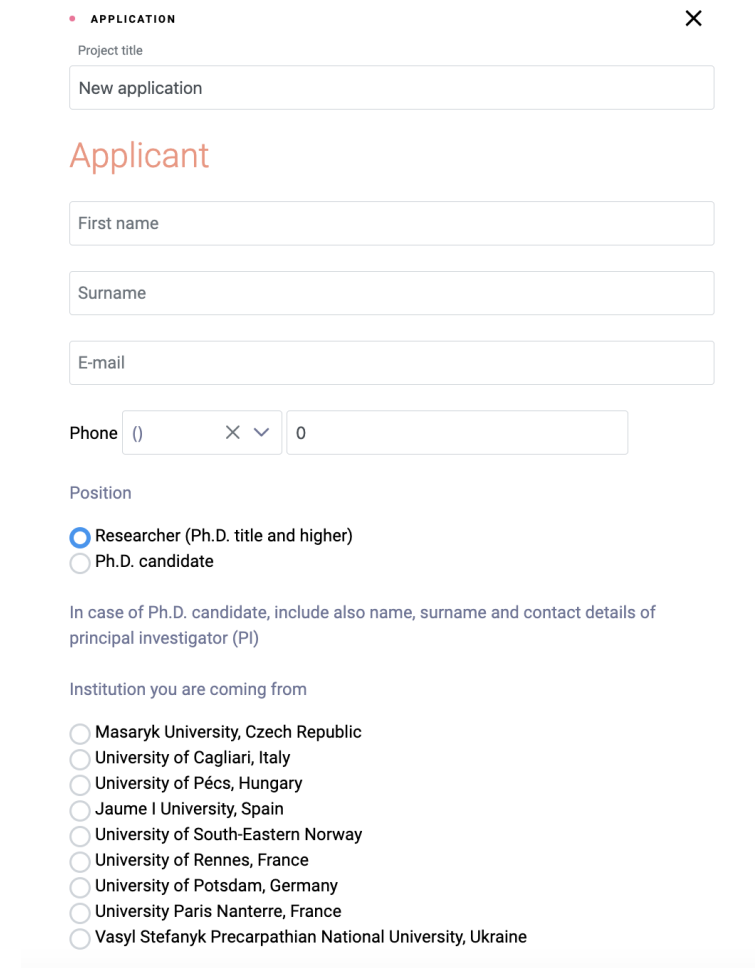
Adéla Šafaříková

The Landing Page & Application

- Those interested can apply for access through the [landing page](#)



The screenshot shows the landing page for the EDUC call for research projects. It features the EDUC logo, a 'Show Core Facilities' button, and a main heading: 'Call for research projects demanding access to EDUC research infrastructures'. Below this, there is a 'Call for projects' section with an 'APPLY FOR ACCESS' button. The page also includes links for 'Important documents/website', 'Database of EDUC Research Infrastructures', and 'Final report'. A 'Call deadline: October 31, 2024' is prominently displayed. The 'Aim of the call' section explains the goal of stimulating interactions between EDUC partners. The 'Applicants' section lists 'Researchers working at EDUC member institutions' and 'Ph.D. candidate of EDUC member institutions'.



The screenshot shows the application form. It starts with a 'Project title' field containing 'New application'. The 'Applicant' section includes fields for 'First name', 'Surname', and 'E-mail'. The 'Phone' field has a dropdown menu and a '0' digit. The 'Position' section has radio buttons for 'Researcher (Ph.D. title and higher)' (selected) and 'Ph.D. candidate'. Below this, there is a note: 'In case of Ph.D. candidate, include also name, surname and contact details of principal investigator (PI)'. The 'Institution you are coming from' section has radio buttons for several institutions: Masaryk University, Czech Republic; University of Cagliari, Italy; University of Pécs, Hungary; Jaume I University, Spain; University of South-Eastern Norway; University of Rennes, France; University of Potsdam, Germany; University Paris Nanterre, France; and Vasyl Stefanyk Precarpathian National University, Ukraine.

Application form



The screenshot shows the top portion of a webpage for the 'Call for research projects demanding access to EDUC research infrastructures'. It features the EDUC logo, a 'Show Core Facilities' button, and sections for 'Call for projects', 'Important documents/website', 'Call deadline: October 31, 2024', 'Aim of the call', and 'Applicants'.

European Digital UniverCity

Call for research projects demanding access to EDUC research infrastructures

Call for projects

APPLY FOR ACCESS

Masaryk University, University of Pécs, and The Vassyl Stefanyk Precarpathian National University offer access to their technologies and services available via core facilities and research infrastructures under EDUC-WIDE project. Individual facilities offered by the three universities providing access can be found on our [Database of EDUC Research Infrastructures](#). For a full list of the respective facilities see the call documentation below.

The deadline for the submission of project proposals is on 31st October 2024.

Important documents/website

[Download the call documentation \(Last updated: 31.7.2024\)](#)

[Database of EDUC Research infrastructures \(beware that only selected facilities participate in this call\)](#)

[Final report](#)

Call deadline: October 31, 2024

Aim of the call

The aim of this call for proposals is to stimulate direct interactions between EDUC partners and promote the existing research infrastructures across the consortium, namely in the Widening countries (Czechia, Hungary, Ukraine). Researchers and Ph.D. candidates from the EDUC consortium are invited to propose research projects that can be implemented utilising available research infrastructures. Within one project proposal, the applicant can ask for one or more services/technologies from one or more EDUC partners participating in the call.

Applicants

Researchers working at EDUC member institutions
Ph.D. candidate of EDUC member institutions

Explain how your project proposal relates to one of the 11 research topics of the EDUC research agenda (see research topics in the call documentation)

Max 5000 characters



EDUC research agenda topics

1. Cyber Security and Artificial Intelligence
2. Sustainable Changes: Climate and Resources
3. Culture and Heritage
4. European Union Studies
5. Justice, Inequality and Inclusion
6. Lifelong Health and Wellbeing
7. Mobility/Smart Cities
8. Biochemistry and Molecular Biology
9. Behavioural/Neuroscience studies
10. Economics & Business
11. Material sciences

Find this on the last page of the call documentation

Application form

Upravit | Archivovat | Nahlásit | Odpovědět všem | Přeposlat | Značka | Lupa | Přesunout | Filtrovat/nejfiltrovat | Kategorizovat | Přiznak | Zásada | Tisk | Asistivní čtečka

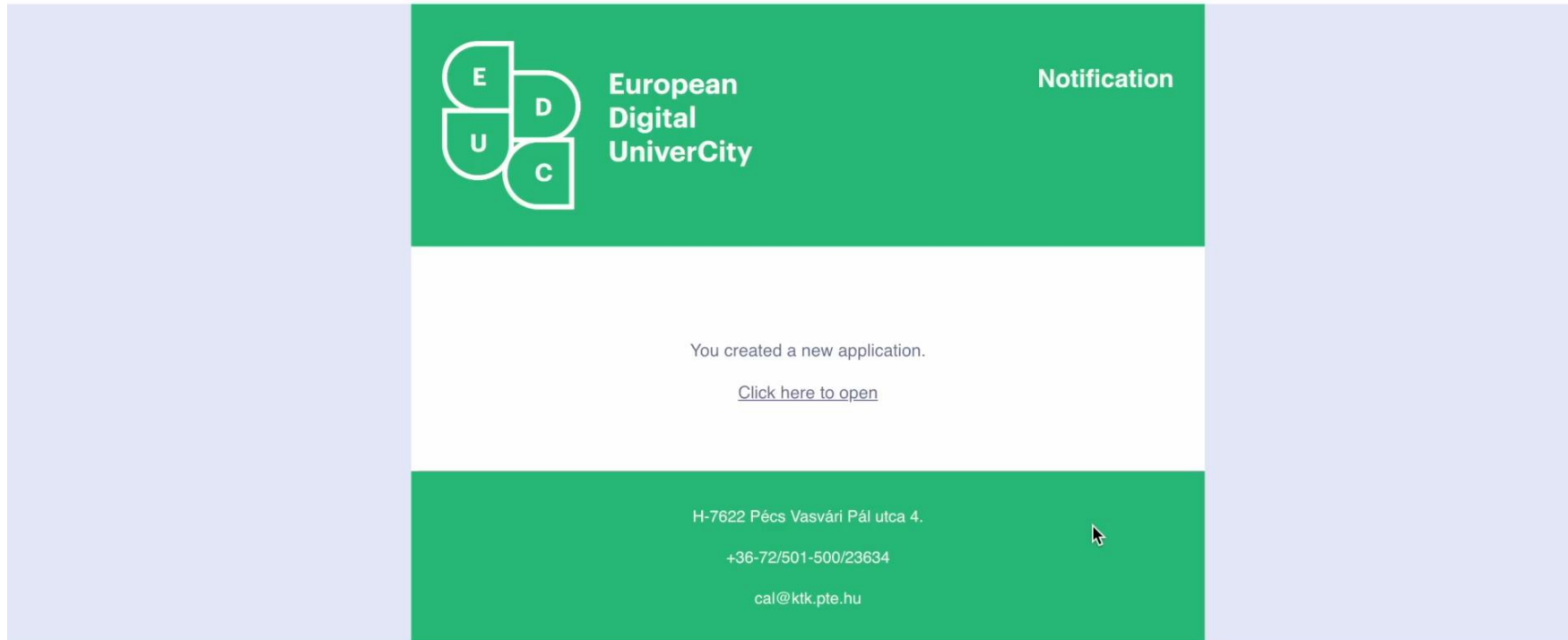
Send a new application.

Openup @ EducShare <educ@openup.education>

nu: Adéla Šafaříková

😊 | ↩️ | Odpovědět | ↩️ | Odpovědět všem | ➡️ | Přeposlat | 📧

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The notification email content is displayed within a light blue frame. It features a green header with the European Digital UniverCity logo (E, D, U, C) and the word "Notification". The main body is white and contains the text "You created a new application." followed by a link "Click here to open". The footer is green and contains the address "H-7622 Pécs Vasvári Pál utca 4.", the phone number "+36-72/501-500/23634", and the email "cal@ktk.pte.hu".

Contacts

University	Name	Email
Masaryk University	Adéla Šafaříková	safarikova@rect.muni.cz
University of Cagliari	Elisabetta Cagetti	educ-wide@unica.it
University of Pécs	Antonio Carrizo	antonio.carrizo@pte.hu
University of Rennes	Julie Newton	julie-anne.newton@univ-rennes.fr
University of Potsdam	Ulrike Schmidt	ulrike.schmidt@uni-potsdam.de
Université Paris Nanterre	Ghislaine Glasson Deschaumes	gglasson-des@parisnanterre.fr
University of South-Eastern Norway	Mary Anderson-Glenna	mary.anderson-glenna@usn.no
University Jaume I	Jose A. Mata / Lourdes Chiva	jmata@uji.es / lchiva@uji.es
Vasyl Stefanyk Precarpathian National University	Volodymyr Kotsiubynskyi	volodymyr.kotsuybysky@pnu.edu.ua

Research Infrastructures of PNU participating in the access call

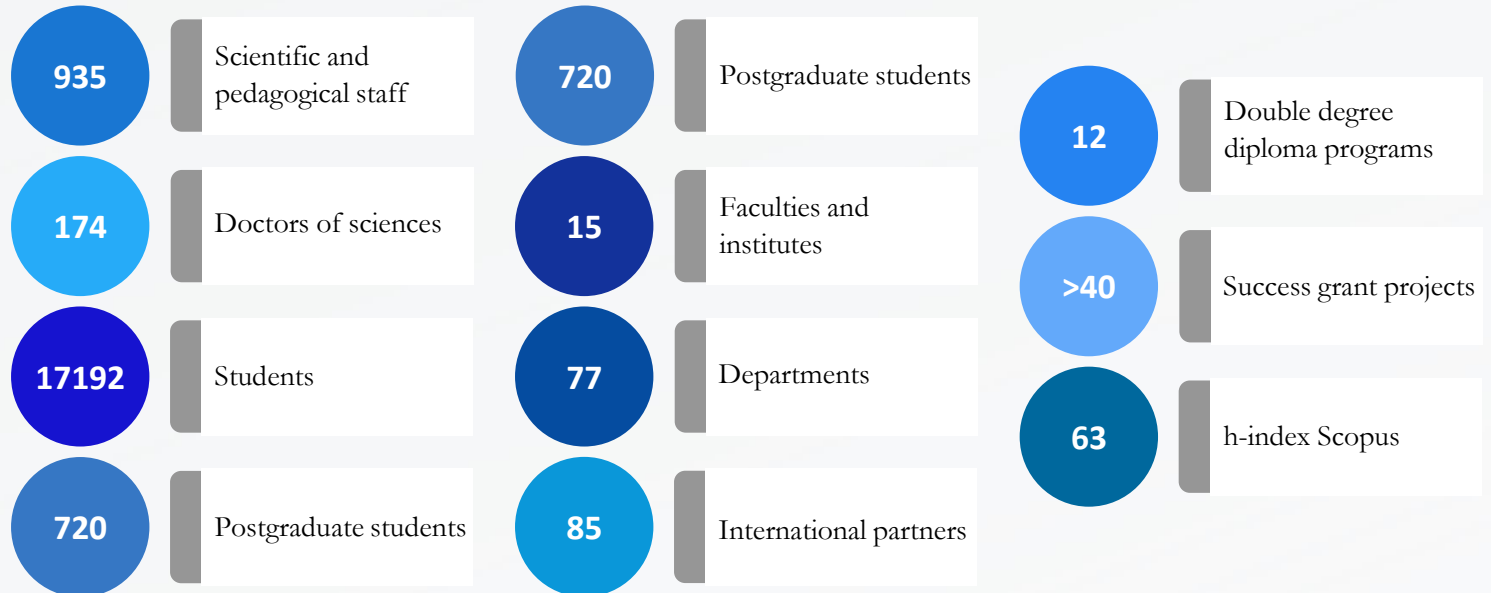
Iryna Hryhoruk

ПРЕКАРПАТСЬКИЙ
НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
ІМЕНІ ВАСИЛЯ СТЕФАНІКА

VASYL STEFANYK PRECARPATHIAN NATIONAL UNIVERSITY

Is a modern competitive educational and research center of international standing.

Its influence extends to regional development and plays a crucial role in shaping human capital



Research Infrastructures of PNU participating in the call



Health and Food

- Laboratory of plant micropropagation
- Fruit Fly Facility
- Laboratory of Animal Metabolism
- Animal Facility
- Laboratory of Fluorescence Spectroscopy

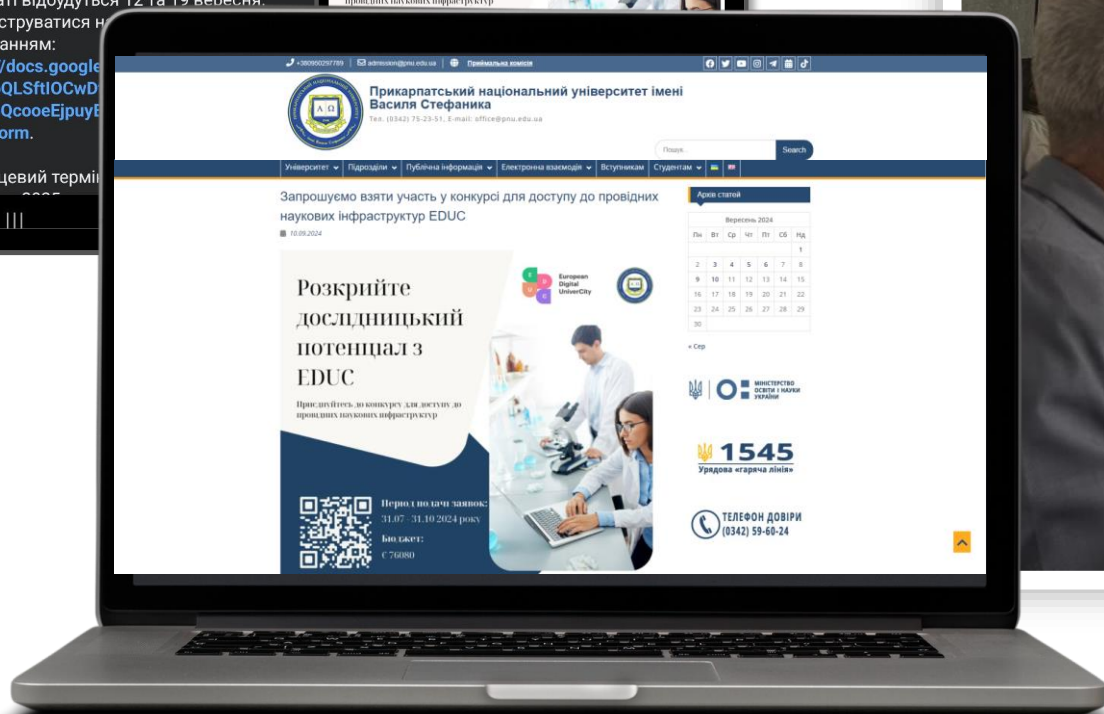
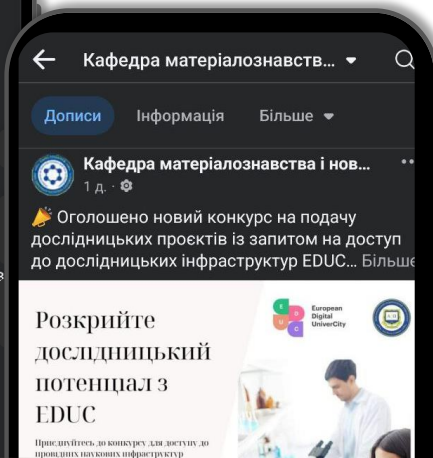
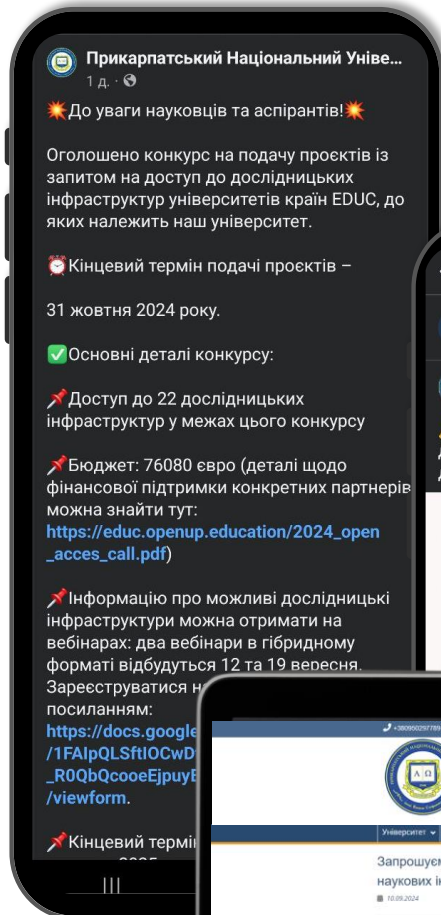
Physical Sciences and Engineering & Environment

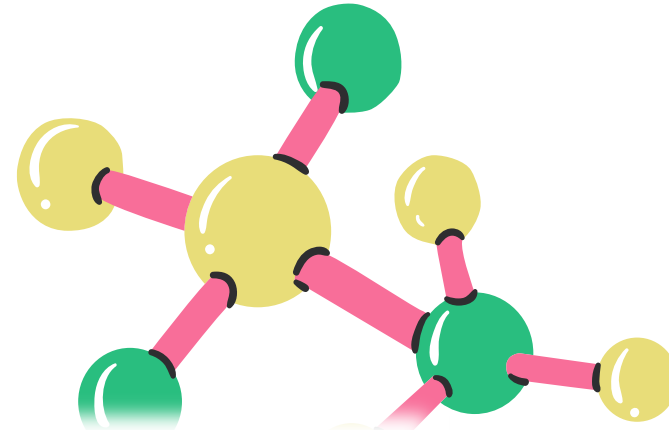
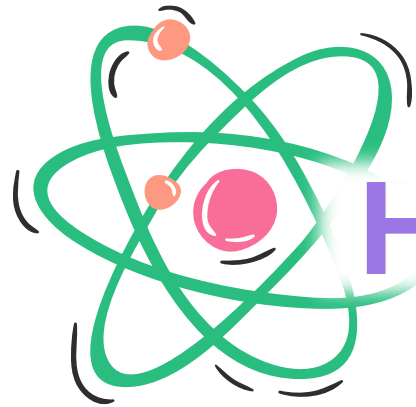
- Laboratory of Semiconductor Material Science for energy application
- Nanotechnology lab for materials science, energy and medicine (PNUNanoLab)
- The International Scientific Center "Observatory"
- Educational and Scientific Center of Materials Science and Nanotechnologies





PROMOTION OF THE INFRA CALL



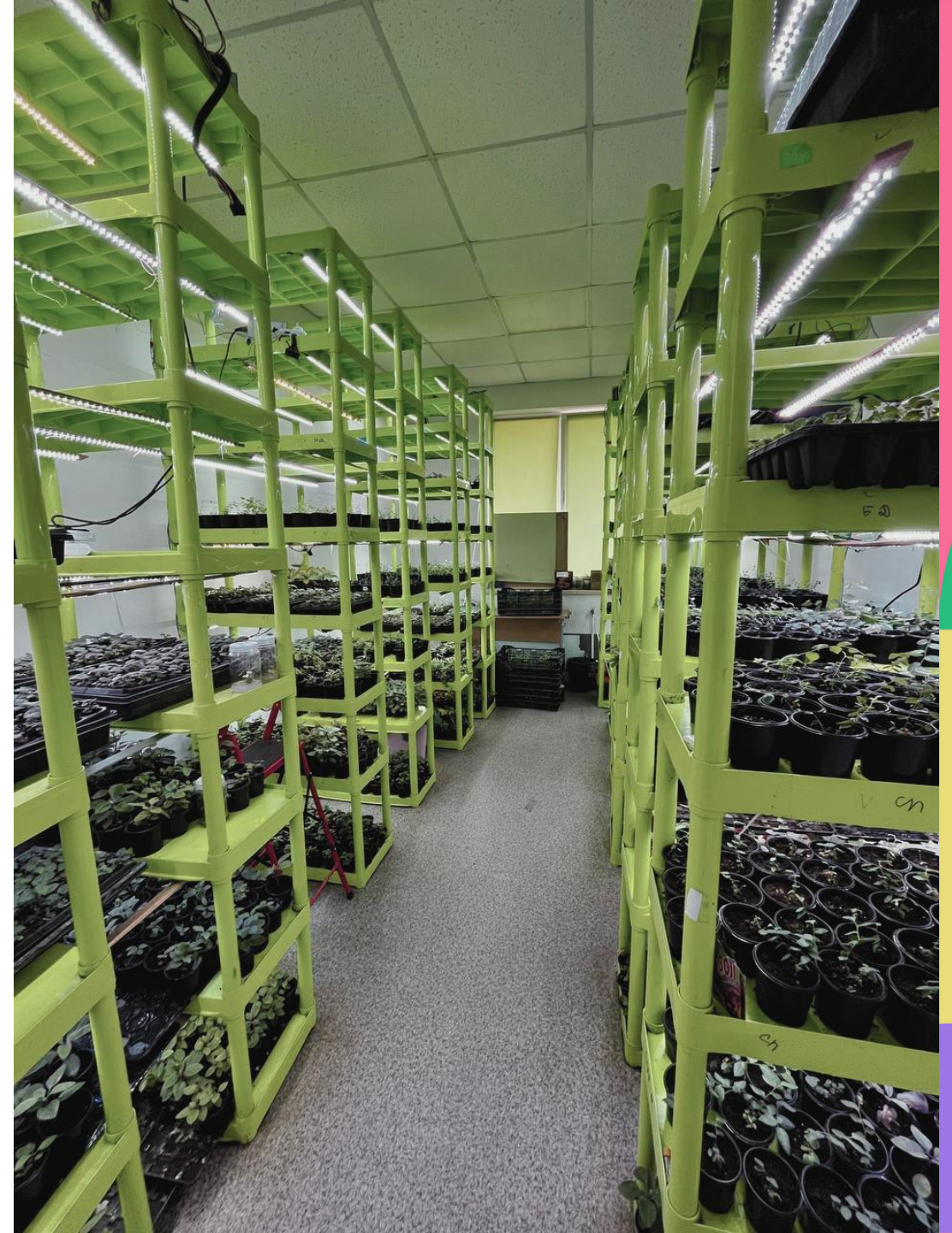


Health & Food



LABORATORY OF PLANT MICROPROPAGATION

The Plant Micropropagation Laboratory specializes in the preparation of tissue cultures, micropropagation techniques, and the comprehensive study of plant physiological and biochemical parameters to optimize growth conditions and enhance the production of bioactive compounds.





Fruit Fly Lab

Department of
Biochemistry and
Biotechnology VSPNU

FRUIT FLY FACILITY

Drosophila research is applicable to a vast range of research areas, including many aspects of biomedical science, gerontology, metabolism, and on pest control.



LABORATORY OF ANIMAL METABOLISM

Laboratory of animal metabolism provides access to the facilities that enable research in experimental biology, including toxicological studies and studies on animal metabolism



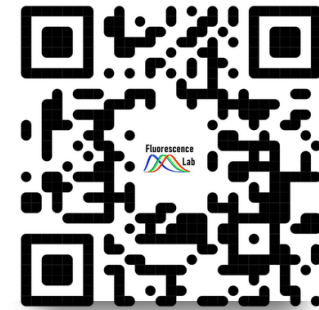
ANIMAL FACILITY

Animal facility provides a controlled, ethical, and compliant environment for housing, breeding, and conducting experiments on mice (metabolism, toxicology, aging, metabolic disorders and behavior)



LABORATORY OF FLUORESCENCE SPECTROSCOPY

- Characterization of fluorescent dyes: Emission and absorption spectra; fluorescence quantum yield; photostability (using appropriate reference); solvatochromic properties; sensitivity to polarity and rigidity of environment; characterization of dye interaction with proteins, DNA, membranes.
- Testing of inhibitors of amyloid fibril formation (ThT-based kinetic experiment, up to 384 samples per plate), determination of inhibition mechanism, kinetics of amyloid fibril formation.

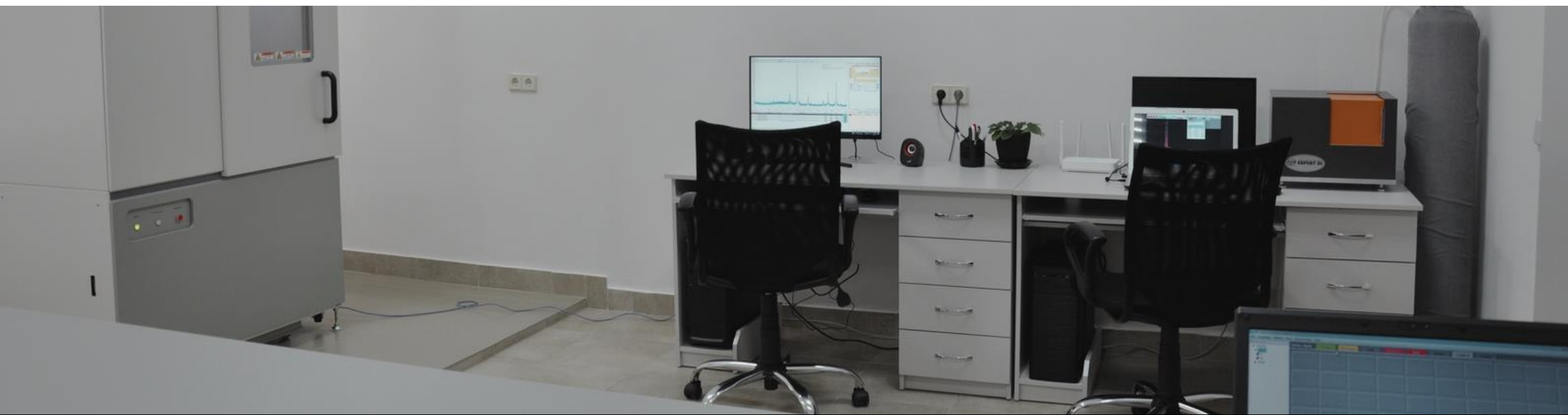




Physical Sciences, Engineering & Environment

NANOTECHNOLOGY LAB FOR MATERIALS SCIENCE, ENERGY AND MEDICINE (PNU-NANOLAB)

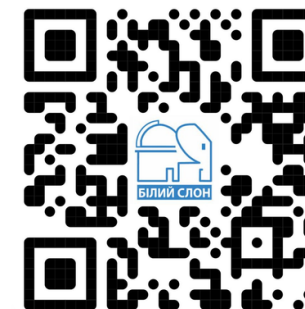
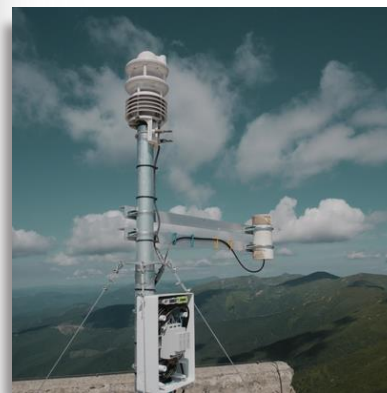
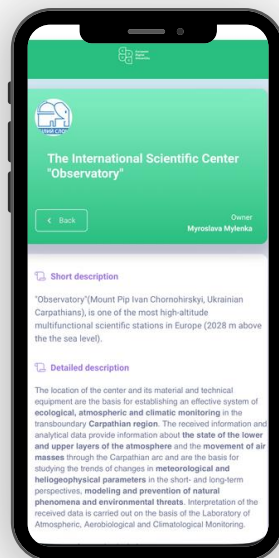
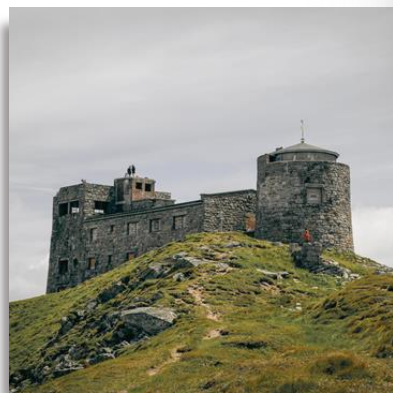
PNU-NanoLab provides access to analytical facilities for the synthesis and characterization of materials, supporting research in the field of materials science and applied nanotechnology.





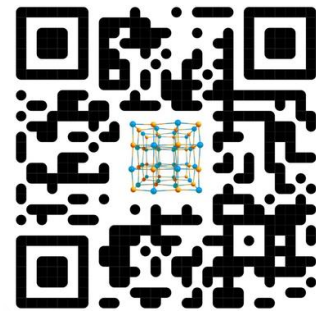
THE INTERNATIONAL SCIENTIFIC CENTER "OBSERVATORY"

"Observatory" (Mount Pip Ivan, Ukrainian Carpathians) is one of the most high-altitude multifunctional scientific stations in Europe (2028 m above the sea level)



LABORATORY OF SEMICONDUCTOR MATERIAL SCIENCE FOR ENERGY APPLICATION

The lab focuses on synthesis and characterization of semiconductor materials of various types (two-, three-, four-component, doped materials, solid solutions), PVD deposition of semiconductor thin films (deposition under vacuum thermal evaporation), and measurement of thermoelectric parameters of materials (Seebeck coefficient, electrical conductivity, carrier concentration)





EDUCATIONAL AND SCIENTIFIC CENTER OF MATERIALS SCIENCE AND NANOTECHNOLOGIES

The lab focuses on conducting research in materials science (synthesis and characterization of metal oxides, spinel ferrites, etc., structure-properties relationships), environmental science (adsorption studies and pollutants removal from contaminated water), and catalysis (water treatment and disinfection using heterogeneous Fenton-like catalysts).





**Thank you
for your attention.**

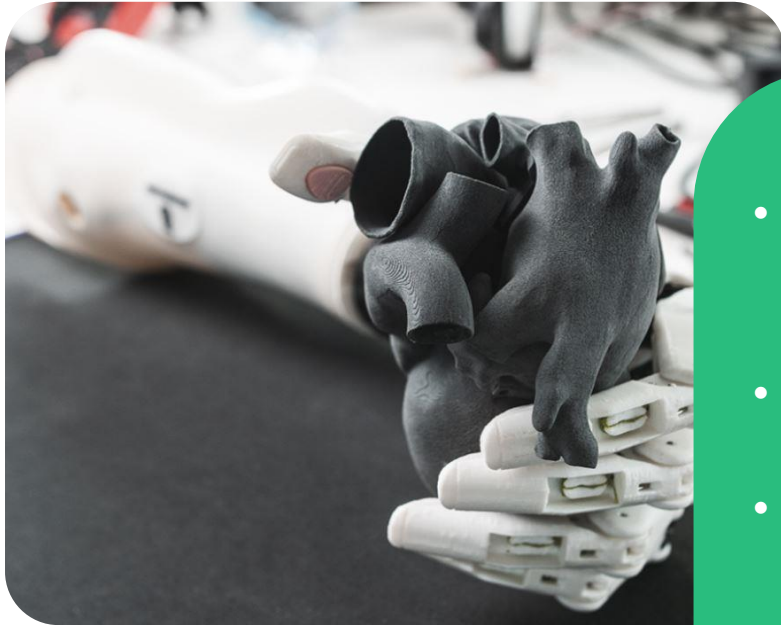


www.educalliance.eu

Research Infrastructures of University of Pécs participating in the access call

Dr. Bedö Zsolt, Habil.
Antonio Carrizo

Research Infrastructures of the University of Pécs participating in the access call



Social Sciences

- Behavioral Sciences Lab

Health and Food

- National Laboratory of Virology BSL4 laboratory
- Hungarian Centre for Genomics and Bioinformatics

Data, Computing and Digital RIs

- 3D Printing and visualization centre (3D centre)





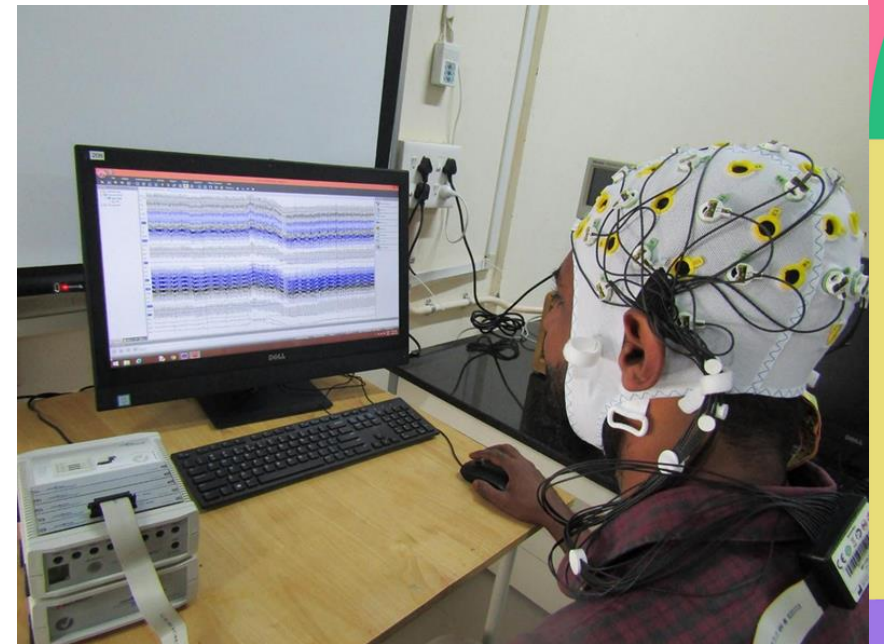
Social & Cultural Innovation

Behavioral Sciences Lab

Founded in 2019, the Research and Development unit at the University of Pécs supports diverse **psychology research efforts**.

It focuses on understanding psychological issues in today's society and addressing modern social challenges.

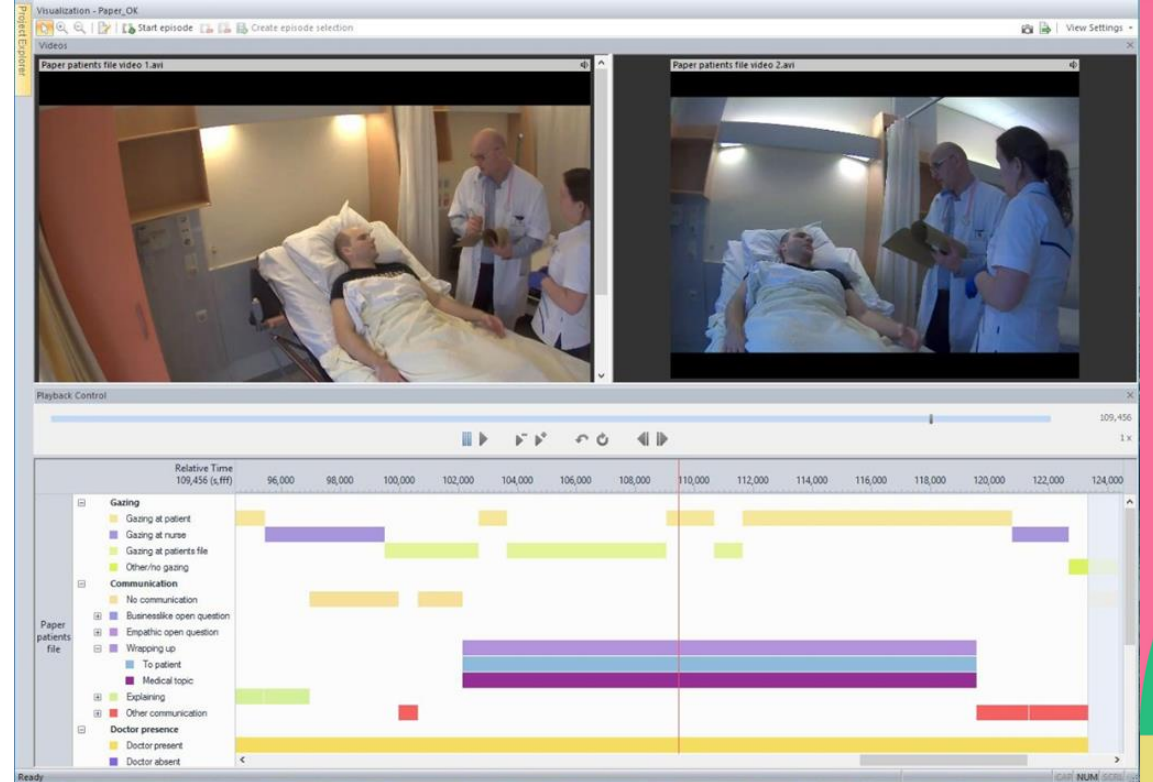
The unit also helps develop and refine **psychological tools**, such as **questionnaires and assessment scales**, and provides expert assistance with **analysis and simulation software**.

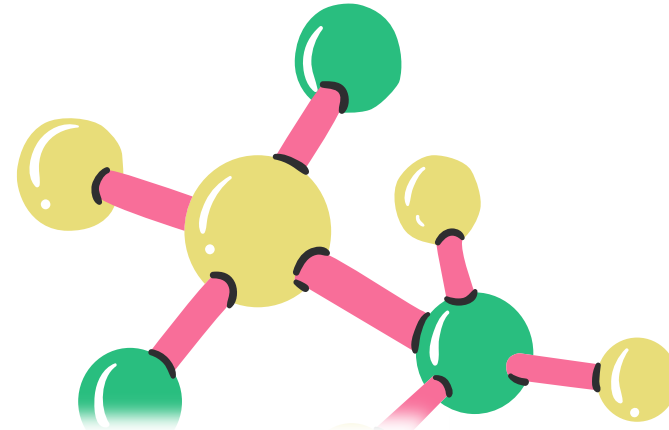
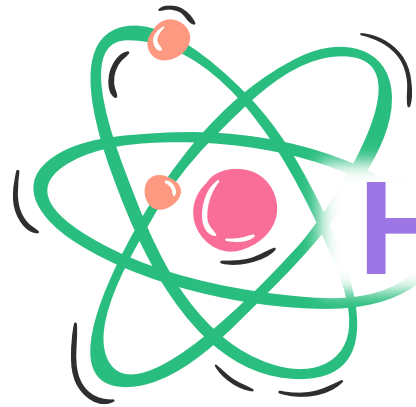


Behavioral Sciences Lab

Main equipment or services:

- Observer
- Eye tracking
- Focus group and interview room
- NarrCat language analysis
- EEG
- Flood defence game
- VR
- BIOPAC MP160 SYSTEM





Health & Food



National Laboratory of Virology BSL4 laboratory

It was officially established in September 2021 to enable the safe study of **high-risk pathogens**.

Only one in Hungary and one of the few in Europe.

Research Focus:

- Study of highly infectious viruses that pose significant threats to public health, such as Ebola, Marburg, Lassa fever, and others.
- Research and development of vaccines and antiviral treatments.

Services Provided: In-depth study of high-risk viruses, Vaccine and Therapeutic Development, Diagnostics Development, Outbreak Response, Training on BSL-4 protocols, biosecurity, and pathogen handling.

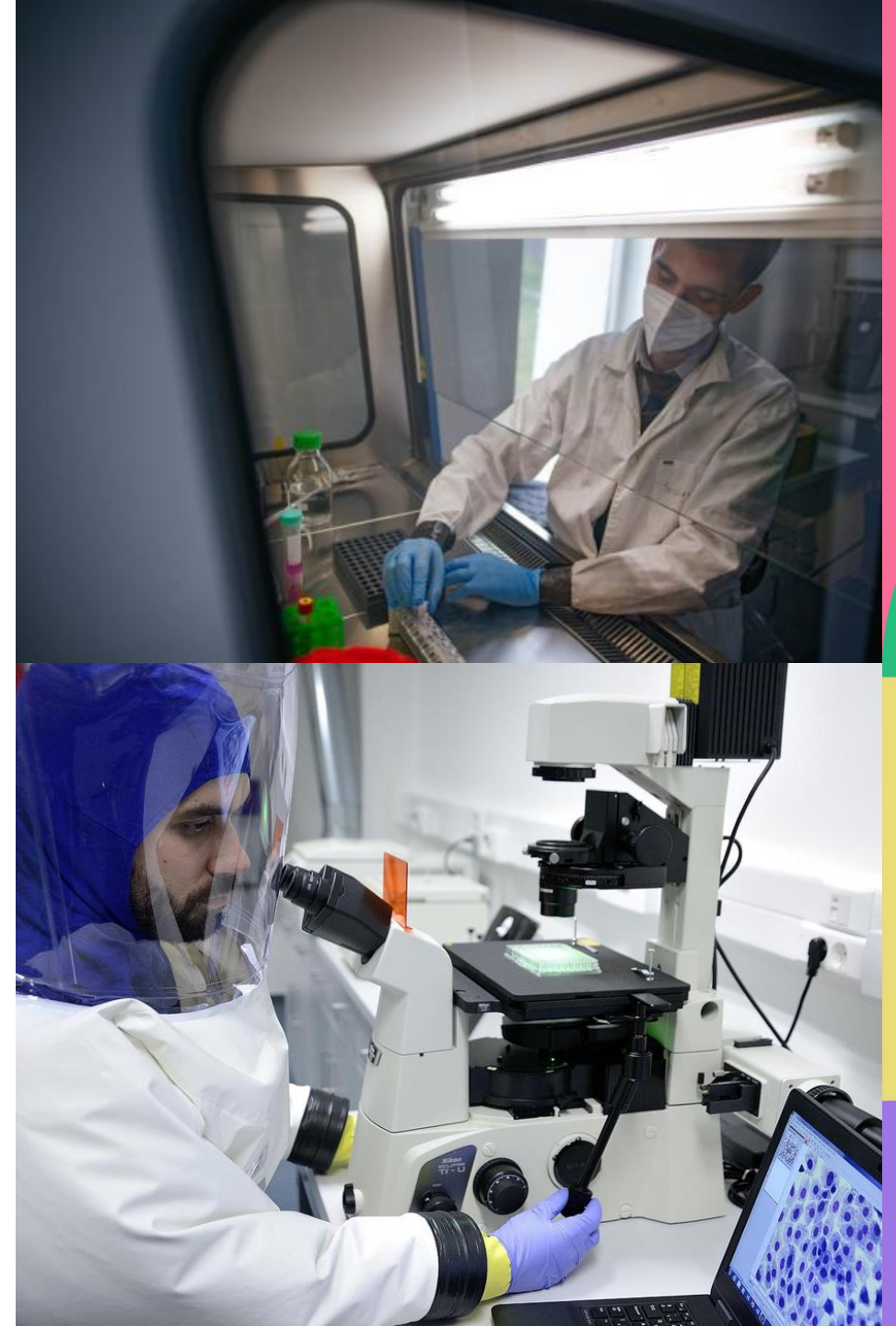


National Laboratory of Virology

BSL4 laboratory

Latest Developments

- **COVID-19 vaccine development project**
 - University of Pécs and Austrian biotech company are collaborating on a COVID-19 vaccine project.
- **New Procedure and Device for Measuring Immune Response**
 - 150 experiments, 125 blood samples, 25 scientists contributed.
- **Contribution to the development of new COVID-19 medicine**
 - Two biotech companies jointly studied the potential effects of azelastine hydrochloride against SARS-CoV-2 in patients.



National Laboratory of Virology BSL4 laboratory

New Procedure and Device for Measuring Immune Response

*“Our goal was to build on the virus, but in a way that does not infect - **there are few places where you can work with an active coronavirus.***

*In February 2021, we were able to prove, together with VNL, proven through five types of procedures, that the coronavirus can be inactivated in just 30 seconds. This alone has **numerous options for application.** We created a UVC chamber and a device that we named ‘Picur’, for which we also filed a patent - we hope it will be a success story,” - said Dr. Roland Hetényi.*



UNIVERSITY OF PÉCS
NATIONAL LABORATORY OF
VIROLOGY



Hungarian Centre for Genomics and Bioinformatics

The Hungarian Centre for Genomics and Bioinformatics, recognised as an **Excellent Research Infrastructure**, focuses on providing comprehensive next-generation sequencing (NGS) and bioinformatics services, supporting research in healthcare, agriculture, and food safety.

Research Focus:

- Investigation of **genetic variations and their impact on health and disease**.
- Development of advanced **bioinformatics tools for analyzing large-scale genomic data**.



Hungarian Centre
for Genomics
and Bioinformatics



UNIVERSITY OF PÉCS
SZENTAGOTHAÍ RESEARCH CENTRE

Hungarian Centre for Genomics and Bioinformatics

Services Provided:

- Sequencing services
- Flow cytometry
- Bioinformatics services
- Bio and Databank support
- Trainings





Data, Computing & Digital RIs



3D Printing and Visualization Centre

The 3D Centre at the University of Pécs is a cutting-edge R&D&I platform that blends advanced **digital, visualization, and prototyping technologies**. It acts as a key hub for education and **scientific progress, supporting engineering, medical, and biomedical research with its top-notch equipment and expertise.**

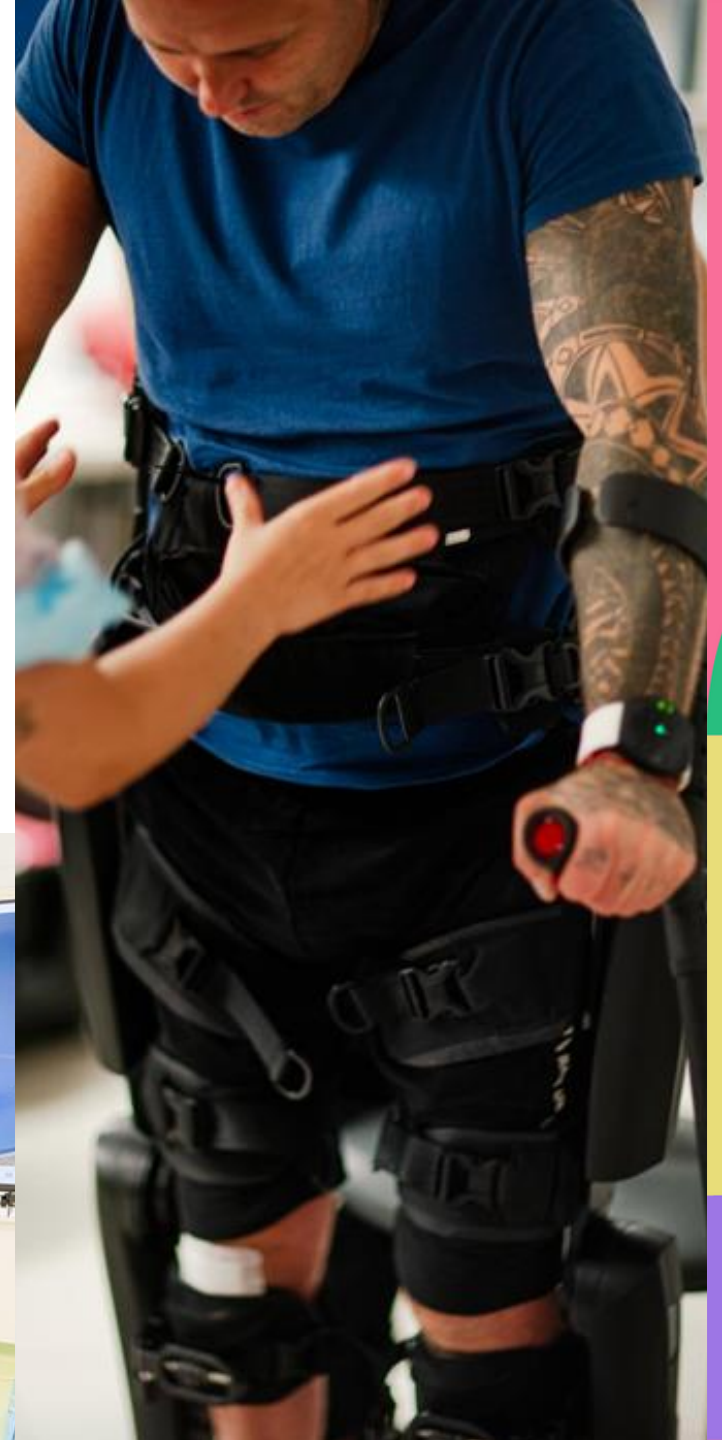
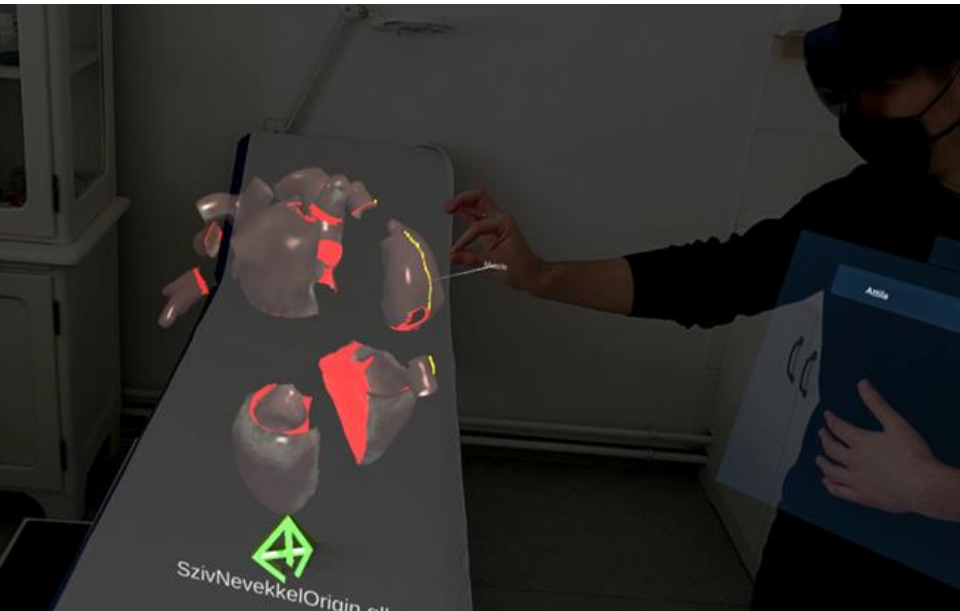


DREAM
INVENT
CREATE



3D Printing and Visualization Centre

The Centre also functions as a think-tank, offering diverse 3D design services, including scanning, printing, and AR/VR prototyping, while driving research in biotechnology, medical materials, and robotics.



Summary

Core Facility	Introduction	Services	Research Applications
<p>National Laboratory of Virology BSL4 laboratory</p>	<p>Advanced facility for studying highly infectious pathogens.</p>	<p>BSL-4 level containment training. Virology research. Pathogen handling. Vaccine development.</p>	<p>Focus on infectious disease research, vaccine development, and antiviral drug discovery.</p>
<p>Hungarian Centre for Genomics and Bioinformatics</p>	<p>Leading center for genomics and bioinformatics research.</p>	<p>Genomic sequencing. Bioinformatics analysis. Biostatistics.</p>	<p>Applications in personalised medicine, disease genomics, and epigenetics.</p>
<p>Behavioral Sciences Lab</p>	<p>Focuses on understanding psychological phenomena and addressing social challenges.</p>	<p>Expert support in developing psychological measurement tools and offer access to advanced analysis and simulation software.</p>	<p>Research on PTSD, Alzheimer's disease, autism, involving both animal models and human studies.</p>
<p>3D Printing and Visualization Centre</p>	<p>Facility for creating detailed 3D models and visualisations.</p>	<p>3D printing, visualisation, and prototyping for medical and scientific research.</p>	<p>Applications in surgical planning, medical education, and anatomical research.</p>



UNIVERSITY OF PÉCS
NATIONAL LABORATORY OF
VIROLOGY



Hungarian Centre for
Genomics
and Bioinformatics



VICE LAB



PTE3D

INFRA call promotion at University of Pécs

- **Top-Down Dissemination**
 - EDUC > Head of Doctoral School > PhD Leaders > PhD Students
- **Event September 19th**
 - Email Campaign (targeting all university departments)
 - Social Media (promotion and awareness in LinkedIn, Twitter, Facebook)
 - Website Announcement
 - Event Coverage > Post Event Dissemination



Access call project from user perspectives

Silvio Ferrero and Camille Rossignol

Another opportunity from EDUC- WIDE: Seed project call

SEED projects *(small-scale collaborative R&I projects)*

- Upscale collaboration among EDUC Universities (and their ecosystem).
- Initiate collaboration on R&I topics of joint interest within the EDUC consortium.
- Translate/deploy academic knowledge into non-academic environment.



BASIC INFORMATION

- At least 2 EDUC Universities, one must be based in the Widening country *(CZ, H, UA)*.
- **Duration:** 12-18 months *(June 2025-November 2026)*.
- **Expected results:**
 - scientific publication,
 - join proposals for follow-up funding,
 - knowledge transfer.

SELECTION CRITERIA

- 1) Innovativeness of the research project,
- 2) Impact in defined priority areas
 - *Life-long Health and Wellbeing,*
 - *Justice, inequality and inclusion,*
 - *Mobility/Smart Cities,*
 - *Sustainable Changes: Climate and resources,*
 - *Cyber Security and AI,*
- 3) Ecosystem involvement,
- 4) Vision of sustainability,
- 5) Feasibility.

BUDGET

- Total amount 400.000 € *(+ indirect costs),*
- 20.000 - 60.000 € per project *(+ indirect costs),*
- Lump sum redistribution,
- Cap for Advanced partners: 150.000 €,
- Associated partners *(UR, UPN)* can participate at no financial costs.