

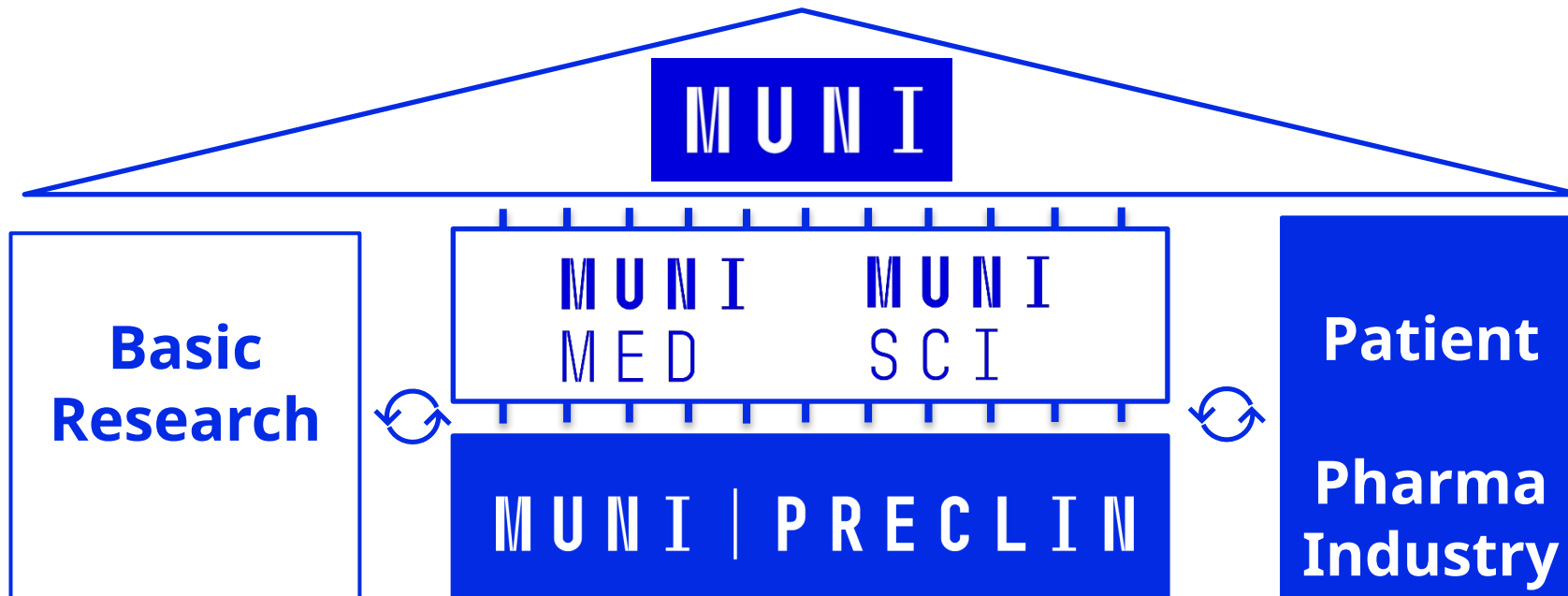
Preclinical Centre MUNI

Integrated Research Technology Platform

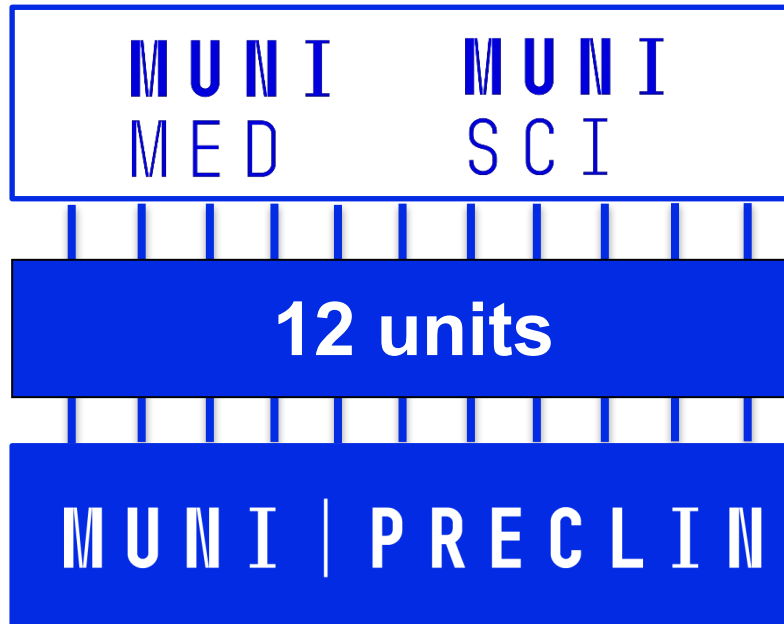
info@preclin.muni.cz

preclin.muni.cz

Mission of the Preclinical Centre MUNI



Content of the Preclinical Centre MUNI



- animal ("*in vivo*") models
- human ("*ex vivo*") models
- cellular ("*in vitro*") models
- **cryobanking**

Units of the Preclinical Centre

In vivo models

-  • Rodent breeding core
-  • Experimental surgery & *In Vivo* imaging unit
-  • Pharmacology & Toxicology unit
-  • Behavioural unit
-  • Tumour models unit
-  • BSL-3 unit
-  • Zebrafish unit

In vitro models

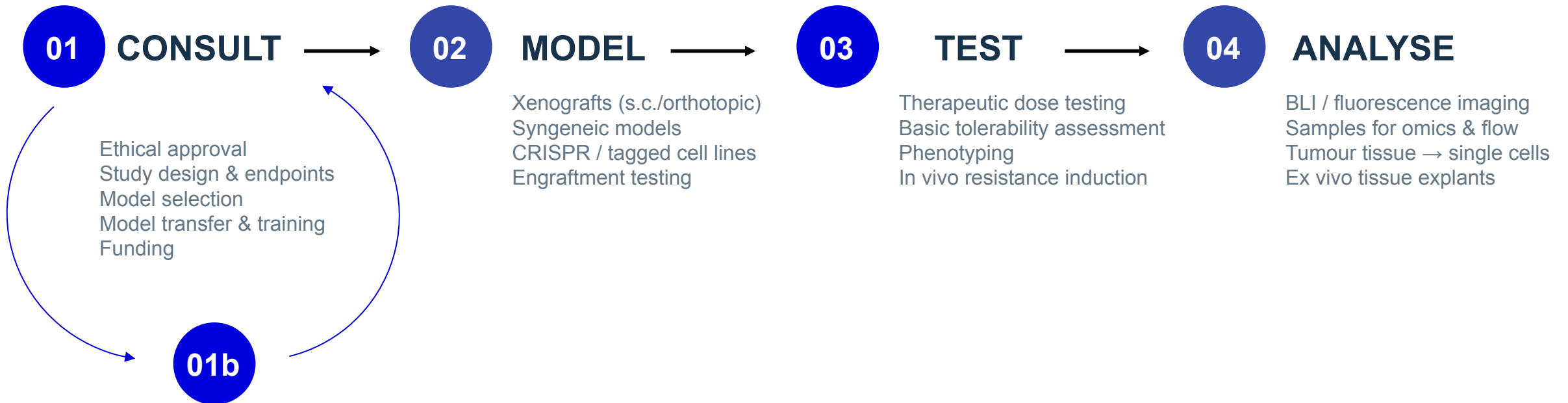
-  • Organoid & 3D Models unit
-  • Tissue culture & Genetic modification unit

Technology & Support

-  • Histopathology & Hematology unit
-  • Immunology & Flow cytometry unit
-  • Cryobank

How we operate?

Your first question: How can PRECLIN support my project?



From a preclinical question to in vivo evidence.

Linked to MU Preclinical Centre units and CEITEC core facilities for in-depth analysis

Thank you for your attention

More today: 14.40-15.30

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MUNI

University-wide booking system
Infinity X

New Core Facility booking system – coming in October 2026 to live version

- New booking system InfinityX from the US company IdeaElan.
- University-wide solution (CEITEC, Preclin, CREATIC, etc.).
- Supported by CERIT-SC @ ICS MUNI – main contact people:

Matej Antol antol@ics.muni.cz

Adrián Rošinec rosinec@ics.muni.cz

- Contact for CEITEC impl. experience:

Kateřina Hošková katerina.hoskova@ceitec.muni.cz

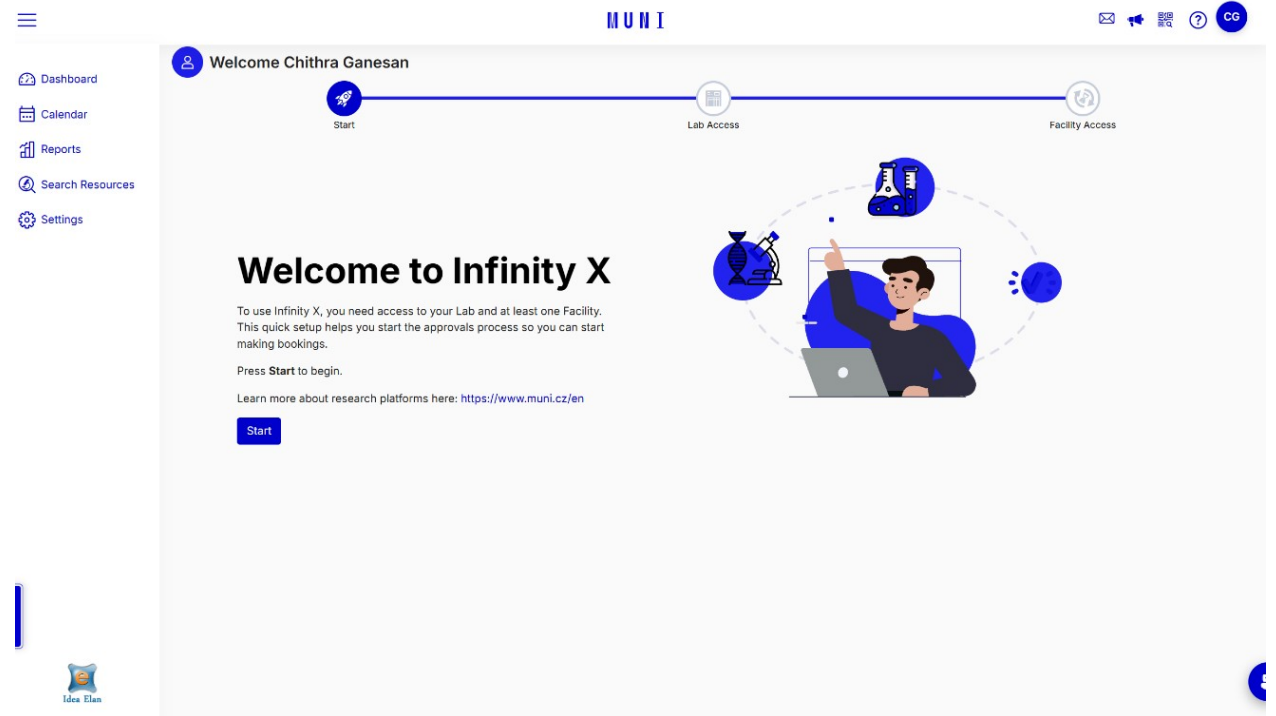
Kateřina Jurásková katerina.juraskova@ceitec.muni.cz



- A video tutorial available.

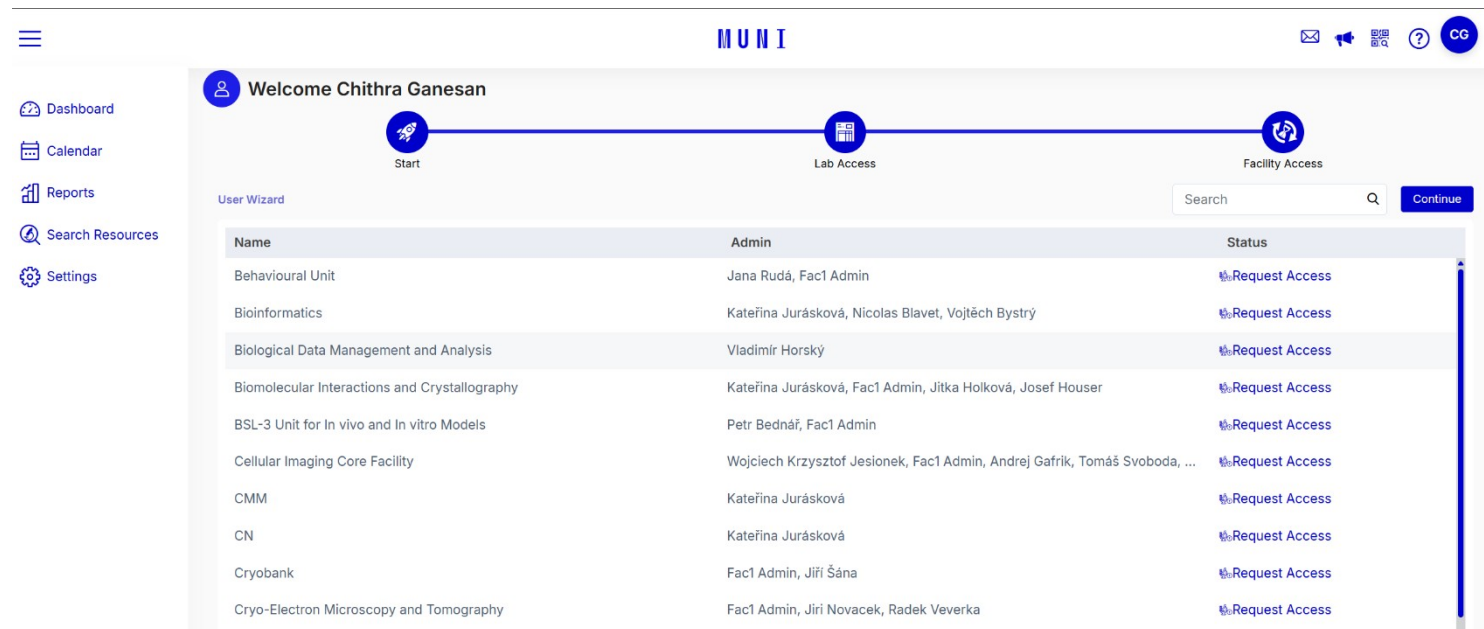
Registration and access to the system

- **Authentication** is managed through e-INFRA Perun
- Within the booking system, each user is assigned to the **relevant Lab**
- Each Lab is **led by PI** who approves users' affiliation to the Lab



Request access to core facility

- User selects, to **which facility** he/she needs access to
- Within the booking system, each user is assigned to the **relevant Lab**, which is synchronized with Perun.
- Each Lab will have a valid **account code** (multiple account codes)



The screenshot shows the MUNI User Wizard interface. At the top, it says "Welcome Chithra Ganesan". Below this, there is a progress bar with three steps: "Start", "Lab Access", and "Facility Access". The "Lab Access" step is currently active. Below the progress bar, there is a "User Wizard" section with a search bar and a "Continue" button. The main content is a table with three columns: "Name", "Admin", and "Status".

Name	Admin	Status
Behavioural Unit	Jana Rudá, Fac1 Admin	Request Access
Bioinformatics	Kateřina Jurásková, Nicolas Blavet, Vojtěch Bystrý	Request Access
Biological Data Management and Analysis	Vladimír Horský	Request Access
Biomolecular Interactions and Crystallography	Kateřina Jurásková, Fac1 Admin, Jitka Holková, Josef Houser	Request Access
BSL-3 Unit for In vivo and In vitro Models	Petr Bednář, Fac1 Admin	Request Access
Cellular Imaging Core Facility	Wojciech Krzysztof Jesionek, Fac1 Admin, Andrej Gafrik, Tomáš Svoboda, ...	Request Access
CMM	Kateřina Jurásková	Request Access
CN	Kateřina Jurásková	Request Access
Cryobank	Fac1 Admin, Jiří Šána	Request Access
Cryo-Electron Microscopy and Tomography	Fac1 Admin, Jiri Novacek, Radek Veverka	Request Access

Make a reservation/order service

The screenshot shows the MUNI Facility Calendar interface. On the left, there is a sidebar with navigation links: Dashboard, Calendar, Facility Calendar, Instruments, Service Requests, Supplies, Reports, and Search Resources. The main area displays a calendar for June 2026. A list of instruments is shown on the left, including AUC | Optima, AUC | ProteomeLab, BLI | Octet RED96e, CD | Chirascan V100, DLS | DelsaMAX Core, DLS | SpectroLight 600, DSC | Capillary PEAQ-DSC ..., DSF | Prometheus, epMotion 5075, FACS | CytoFLEX, FluoS | Fluorolog QM HORI..., ITC | PEAQ-ITC Automated, ITC | VP-ITC, MDS | Microdeposition sys..., MP | Mass Photometer Tw..., MST | Monolith NT.115, MST | Monolith NT.115Pico, and SPR | BiaCore S200. The calendar view shows dates from Monday, June 1 to Wednesday, June 3. There are several 'Busy' slots indicated by colored bars.

The screenshot shows the MUNI Lab Service Requests 'Submitted Form'. At the top, there is a progress bar with the following steps: Initiated, Quote Provided, Quote Denied, Quote Approved, In Progress, Complete & Ready To Be Billed, and Billed. The main content area is titled 'Submitted Form' and contains a 'Service Request Overview' section. This section includes the following text:

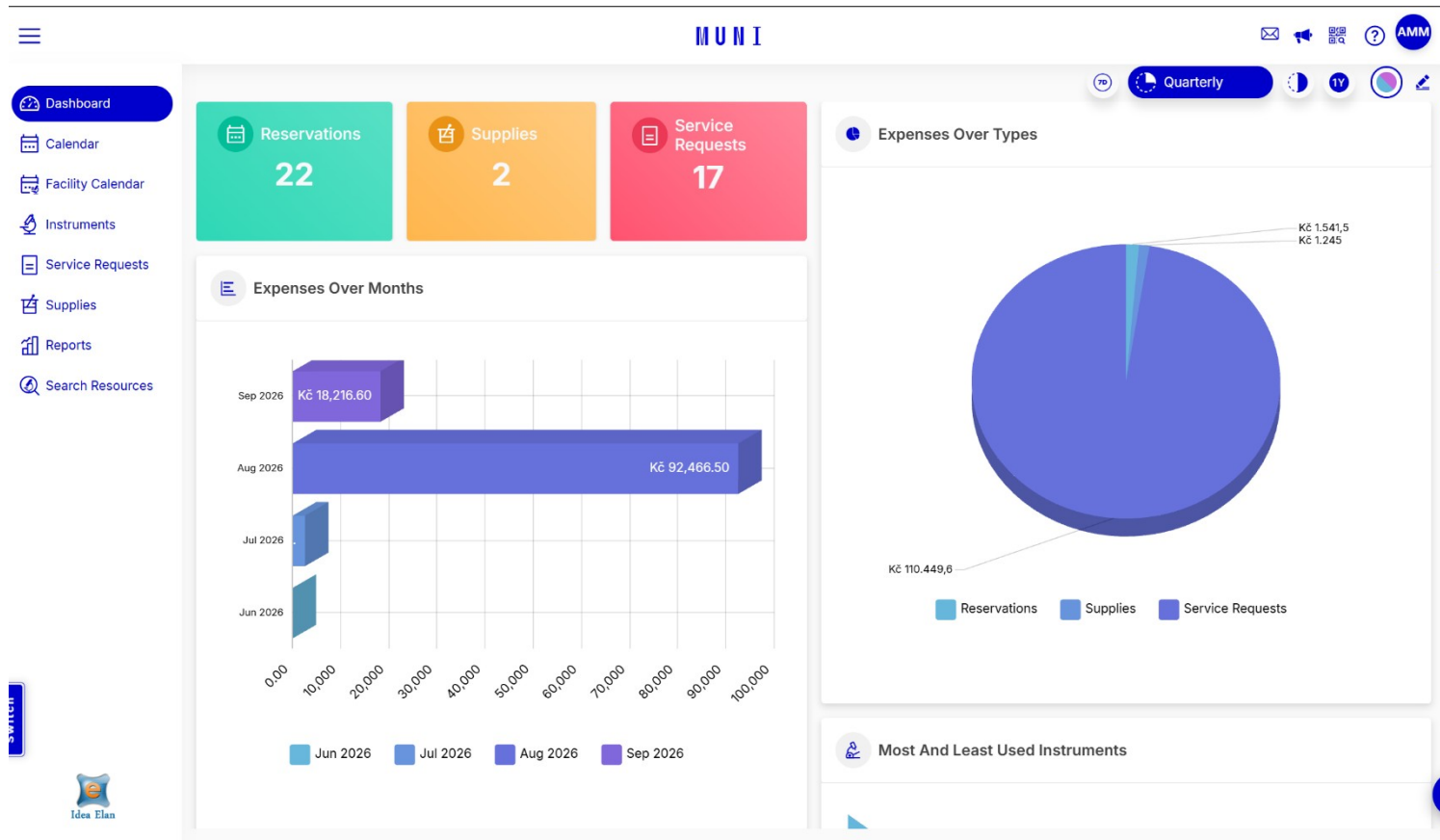
- Submission of this form represents an initial project request.
- In some cases, CFG staff will contact you to gather more information.
- An initial meeting might be helpful in order to understand the goals of the project and to develop a strategy to meet those goals.
- A quote will be developed after your service request has been reviewed.
- Projects are billed after service completed.
- In case of any question, contact facility at cfg@ceitec.muni.cz before sending the official request.

Below the overview, there is a 'Service Request' section. It includes a dropdown menu to 'Select the service you request:' with the following options:

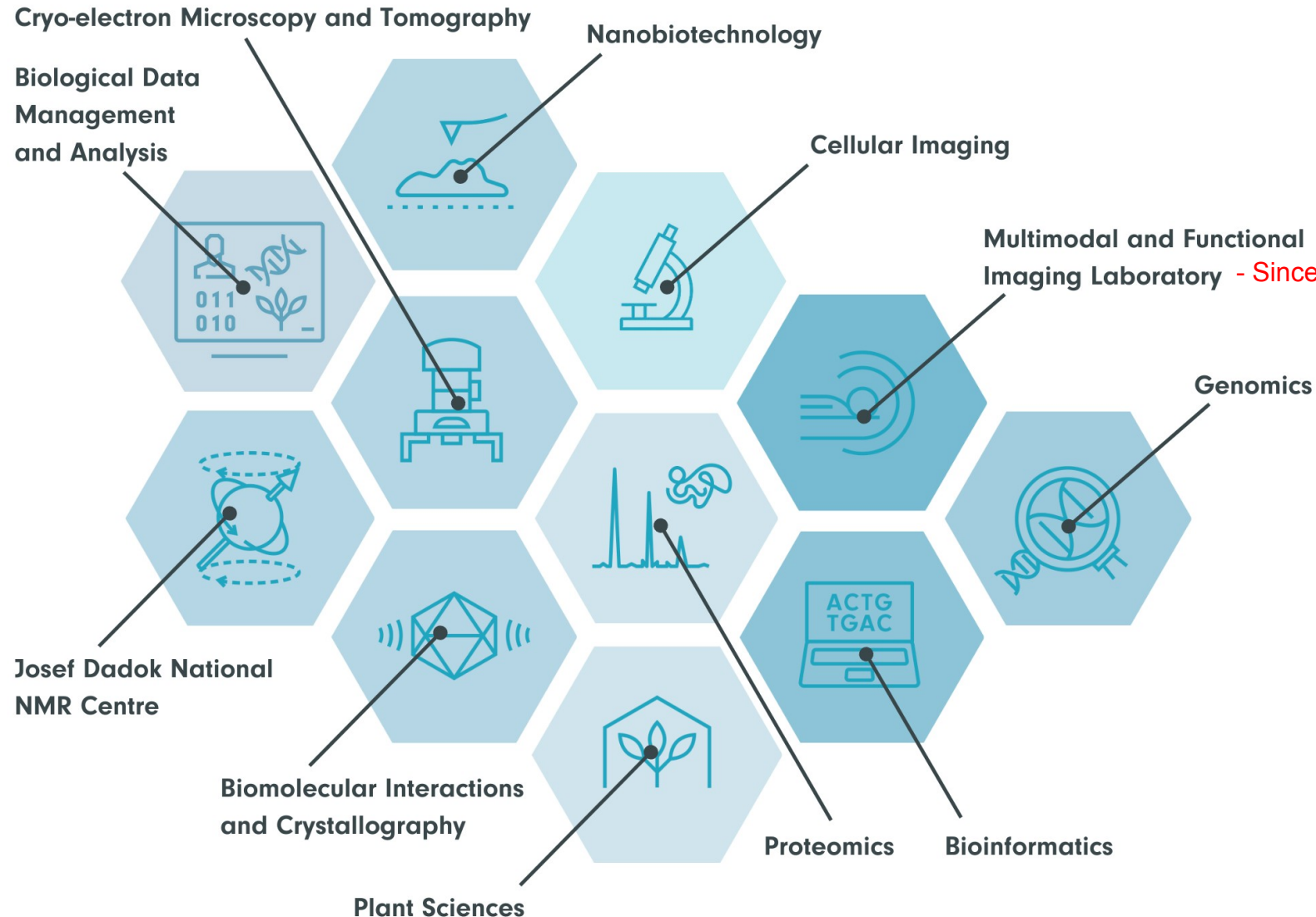
- ☒ Whole Genome Sequencing
- ☐ Whole Exome Sequencing
- ☐ Amplicon Sequencing
- ☐ Other (Custom)

Below the dropdown, there is a section titled 'Whole Genome Sequencing'. It includes a dropdown menu to 'Do you require DNA isolation?*' and a text input field for 'Number of samples:*'. A 'Cancel' button is located at the bottom right of the form.

Have a quick overview



CEITEC facilities migrated to InfinityX



- Link to the system will be accessible through CF websites in the second half of October
- Preclin and other MUNI parts can follow once ready

MUNI

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Research Infrastructures at Masaryk University

Ondřej Hradil, Rectorate, Research Office

Core Facility Day Life Sciences, 7. 10. 2026

Research Infrastructures (RI) Website

Enabling excellent research

Research infrastructure capacities and expertise enable excellent research, support technological innovation, and drive multidisciplinary data-based science.



Research infrastructures at Masaryk University

European infrastructures

Masaryk University's research infrastructures are part of the European Strategic Forum on Research Infrastructures (ESFRI) projects. Masaryk university coordinates the ESFRI infrastructure for human exposure Research, EIRENE.

[MORE](#)

National infrastructures

At the national level, Masaryk University is involved in 14 large research infrastructures, of which it coordinates four (CEPLANT, CIISB, CZECRIN a RECETOX). The infrastructures cover most of the scientific research areas.

[MORE](#)

University infrastructures

At Masaryk University, individual faculties and departments also provide access to additional research capacities that do not operate under the umbrella of national or European infrastructures.

[MORE](#)

<https://www.muni.cz/en/research/our-equipment>

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Research Infrastructures (RI) Website

Large research infrastructure projects

Our scientific teams are involved in 14 large research infrastructures, which are included in the [Roadmap of Large Research Infrastructures of the Czech Republic](#). All of them are funded by Czech Ministry of Education, Youth and Sports and provide open access to both Czech and international researchers. Our research infrastructures cover many areas of scientific research.

Health and food



European research infrastructures

At the European level, our scientific teams are involved in projects and landmarks on the so-called [ESFRI Roadmap](#) (2021 update). One of the new ESFRI projects focused on the human exposome, [EIRENE](#), is coordinated by Masaryk University. It is only the second ESFRI project coordinated by the Czech Republic.

Environment



[ACTRIS – exploring the atmosphere](#)



[EIRENE – human exposome](#)

Institutional Research Infrastructures

Masaryk University provides access to a number of institutional research infrastructures (also called core facilities) to its researchers and students as well as outside academic and commercial entities. A list of available core facilities can be found below.



[MUEEL - Experimental Economics Laboratory](#)

Masaryk University Experimental Economics Laboratory (MUEEL) provides the infrastructure for conducting experimental research in economics. MUEEL supports the development and execution of experiments that explore



[GGP - Generations and Gender Program](#)

GGP is a distributed social science research infrastructure, locally known as the "Contemporary Czech Family" project. It collects, processes, archives, and disseminates data about people's life courses, parents and children, partners, intergenerational relations, opinions about family, and

MUNI

Where funding for RIs comes from?

Masaryk university is engaged in 15 nationally funded research infrastructures

- Investment into technologies – EU Structural Funds or National Recovery Plan
- Operational funding – Ministry of Education, Youth and Sports makes it possible to offer services at affordable prices to the academic community

Do not forget to acknowledge facilities you are using in your publications



Ministerstvo
školy, mládeže
a tělovýchovy

M U N I