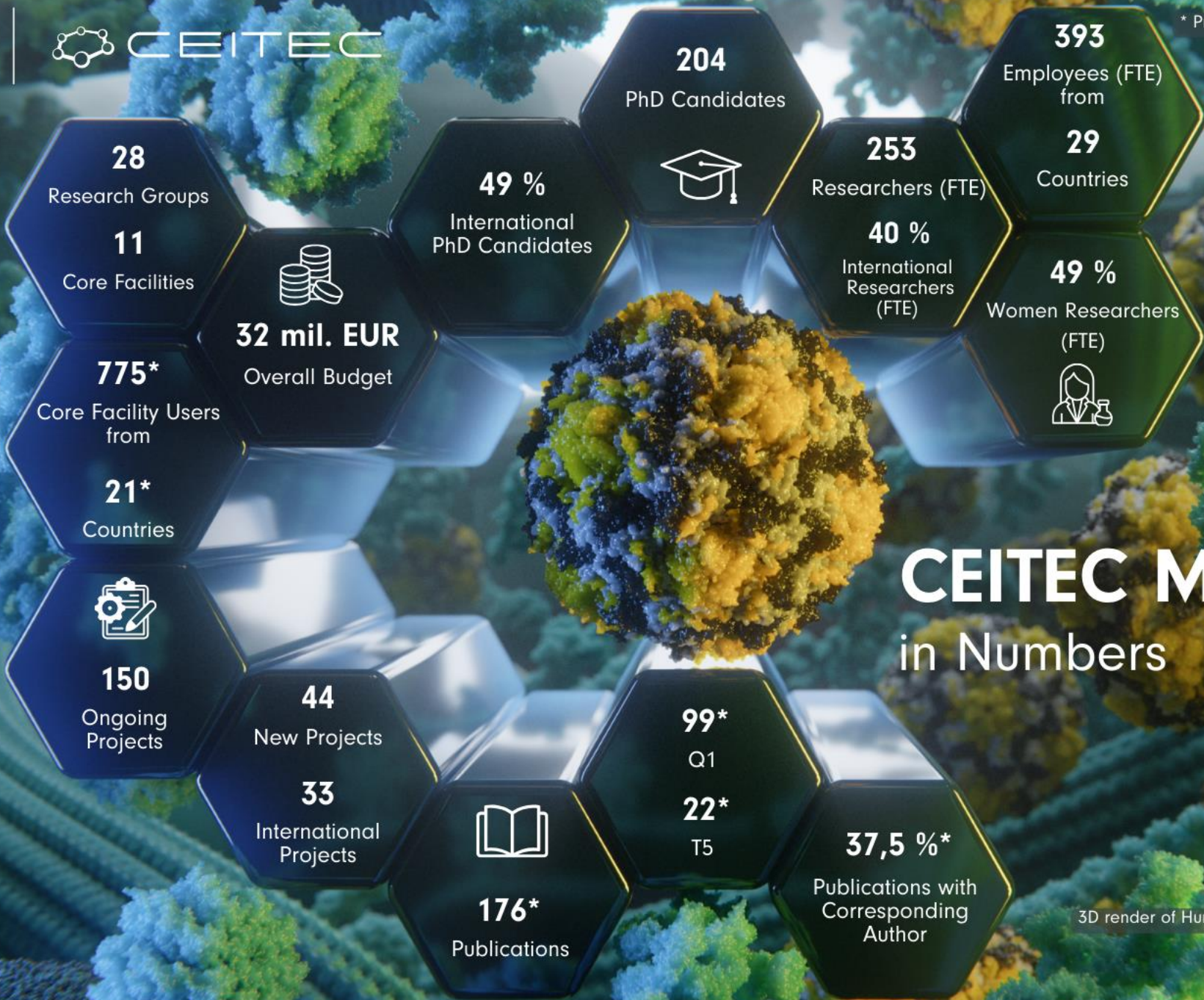




# Scientific Board Meeting

14th March 2024



# CEITEC MUNI 2023

## in Numbers

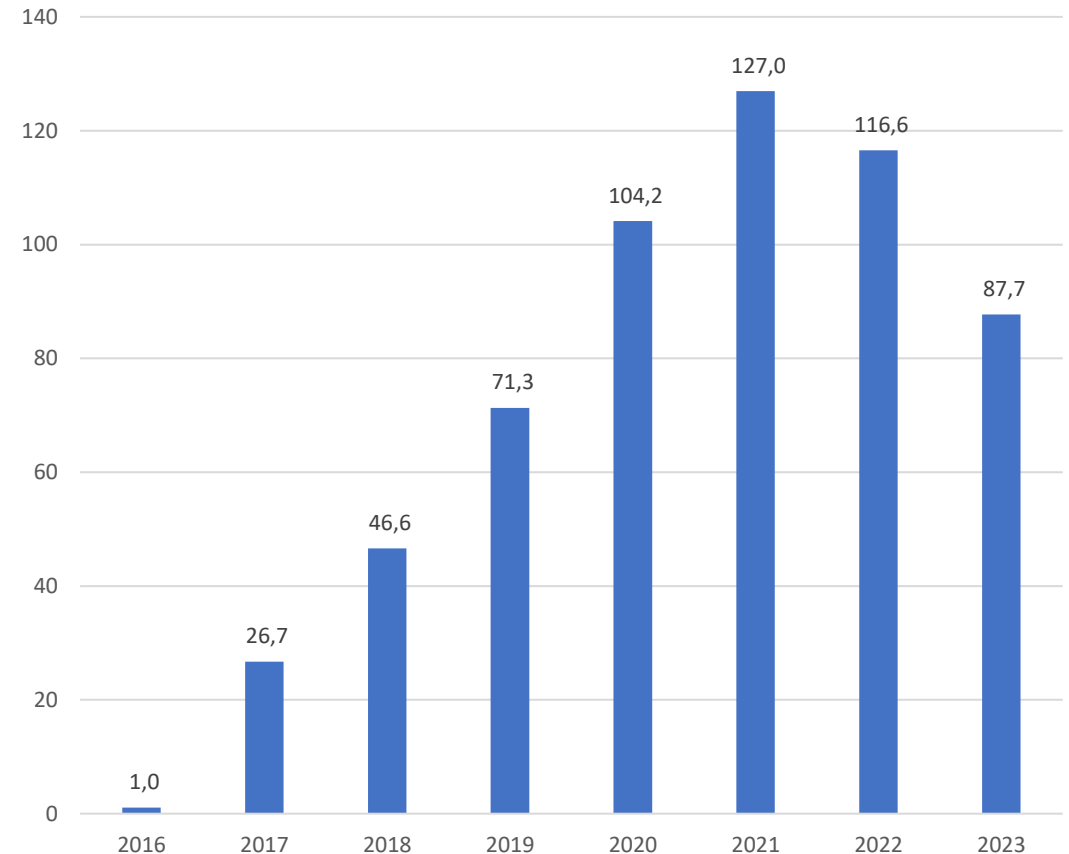
3D render of Human rhinovirus 2 virion in cytoplasm using Blender, Lukáš Sukeník

# Budget 2023/2024 & Per-rollam results

# Financial results 2023

- Total expenditure in 2023: **CZK 824 M** (plan: CZK 835 M)
- Lower spending ~ favorable energy prices (than anticipated)
- Net profit before taxation: CZK 8,3 M
- Extraordinary expenditures: co-funding strategic investments in NPO project (CZK 26 M of ineligible VAT)
- Spending of reserve (Fund of operational resources decreases by CZK 29 M)

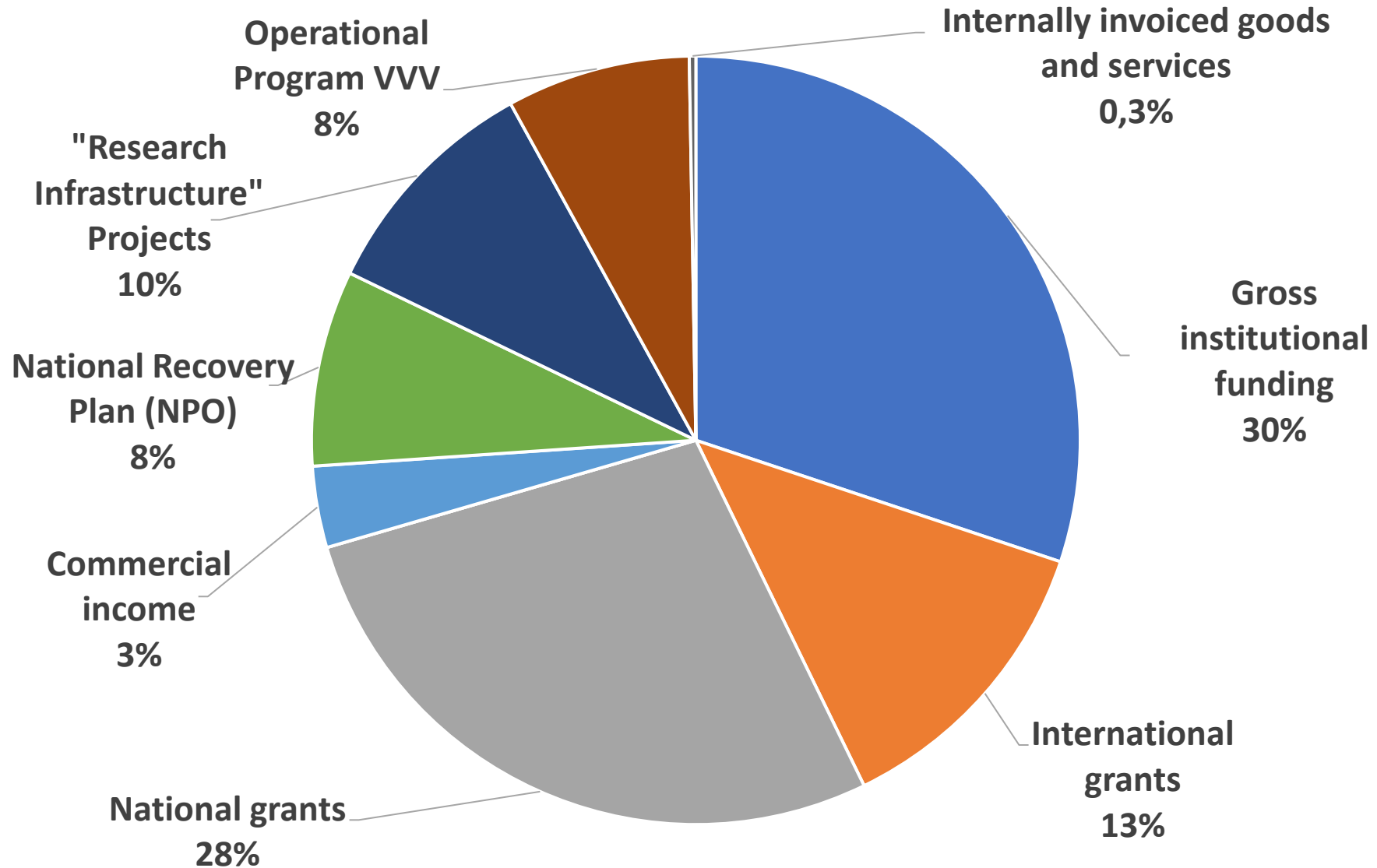
Balance of Fund of operational resources (mil.CZK)



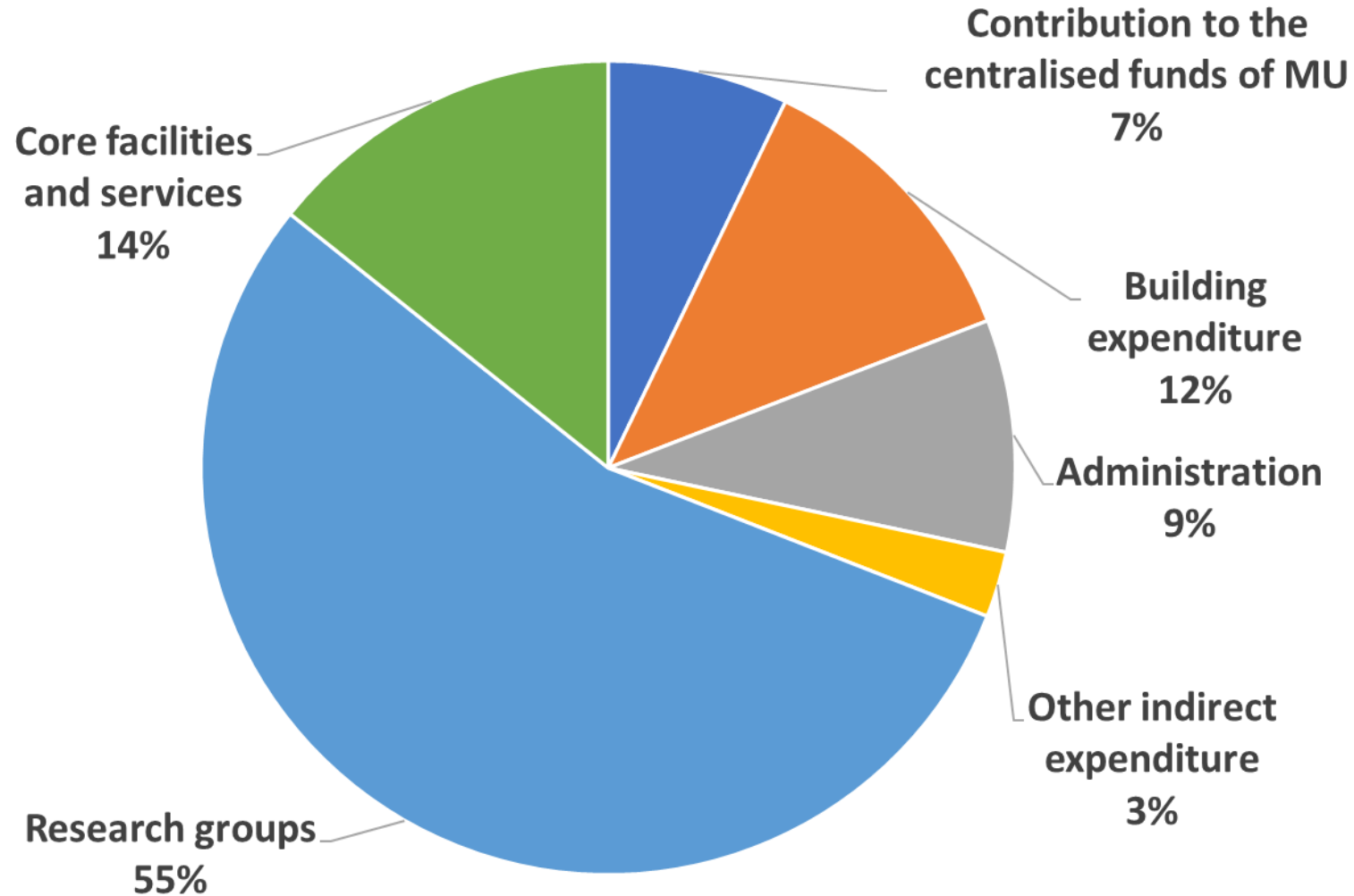
# Budget 2024

- CZK 885 M budget plan (6 % increase)
- 5 % institutional net revenue increase (CZK127,5 M)
  - ▲ MU allocation
  - ▼ CEITEC contribution to MU budget
- International grants expected increase (30 %)
- Operational programs increase (CZK 12,6 M => 56,4 M)
- Research groups institutional budget allocation ▲ 9,5 %
  - Novel rules of institutional budgeting of research groups from 2024
  - **Flat rate CZK 2,9 M** / per research group/year
- Spending of reserve

# Budget 2024 (non-investment): Structure of Revenues



# Budget 2024 (non-investment): Structure of Expenditures



# Per rollam results (2023)

## Organisational change related to new/dissoluted research groups

(6. 6. 2023 - 12. 6. 2023)

- Establishment of Petr Těšina RG
  - 19 YES, 2 abstained from voting
- Termination of P. Skladal RG
  - 18 YES, 3 abstained from voting
- Termination of P. Lukavsky RG
  - 18 YES, 3 abstained from voting
- Termination of Tomasz Nodzynski RG
  - 18 YES, 3 abstained from voting

## Budget plan 2023

(30. 3. 2023 – 5. 4. 2023)


- 15 YES
- 3 YES with reservation

### Quorum reached

- 23 members total
- Quorum needed (2/3): 15 votes




# Selected publications




**Závodník M, Fajkus P, Franek M, Kopecký D, Garcia S, Dodsworth S, Orejuela A, Kilar A, Ptáček J, Mátl M, Hýsková A, Fajkus J, Peška V. (2023)**  
**Telomerase RNA gene paralogs in plants - the usual pathway to unusual telomeres.** *New Phytol.*  
Doi: 10.1111/nph.19110


**Lyčka M, Bubeník M, Závodník M, Peška V, Fajkus P, Demko M, Fajkus J, Fojtová M. (2023)**  
**TeloBase: a community-curated database of telomere sequences across the tree of life.** *Nucleic Acids Res.* 10.1093/nar/gkad672

A man with glasses and a beard, wearing a pink and white checkered button-down shirt, stands with his arms crossed in a greenhouse. He is positioned in the center-right of the frame. The greenhouse has rows of plants in black pots on green trays. Above him are long, bright fluorescent lights. The background shows the structure of the greenhouse and some windows. On the left side, there is a large, dark grey, semi-transparent hexagonal graphic element that serves as a background for the text.

Shen F, Xu S, Shen Q, Bi C, Lysak MA. (2023) **The allotetraploid horseradish genome provides insights into subgenome diversification and formation of critical traits.** Nat Commun. doi:10.1038/s41467-023-39800-y

A man with short brown hair, wearing a dark blue short-sleeved button-down shirt with a white bird pattern, is holding a small white tray with a grid of samples. He is standing in a laboratory or storage room with metal shelving units. The background shows a computer monitor on a cabinet and a large piece of aluminum foil on a shelf. The text is overlaid on a dark grey hexagonal shape on the left side of the image.

**Fulneček J, Klimentová E, Cairo A, Bukovcaková SV, Alexiou P, Prokop Z, Riha K. (2023) The SAP domain of Ku facilitates its efficient loading onto DNA ends. Nucleic Acids Res. doi: 10.1093/nar/gkad850**

A group of nine people, including eight men and one woman, are standing in a modern, brightly lit interior space. They are positioned in front of several large, spherical sculptures made of light-colored wood, which are arranged in a circular pattern. The background features a large window with a grid pattern and a wall with a textured, perforated metal facade. The floor is a light, neutral color. The group is dressed in casual to semi-formal attire, including sweaters, jackets, and dresses. The overall atmosphere is professional and collaborative.

Papageorgiou AC, Pospisilova M, Cibulka J, Ashraf R, Waudby CA, Kadeřávek P, Maroz V, Kubicek K, Prokop Z, Krejci L, **Tripsianes K.** (2023)  
**Recognition and coacervation of G-quadruplexes by a multifunctional disordered region in RECQ4 helicase.** Nat Commun. doi: 10.1038/s41467-023-42503-z

# News from the institute



**Dalibor Blažek Became EMBO Member**

# International Grants

- **P. Těšina: ERC Starting grant** Co-translational quality control in neuronal tissue and its role in neurodegeneration and ageing (1 400 th EUR)
- **Z. Novotná: HORIZON WIDERA Alliance4Life** Bridging the Research and Innovation Gap in Life Sciences (4 960 th EUR)
- **M. Zlatohurska (RG P. Plevka): MSCA PF Horizon Europe** Structural characterization of phage assembly and genome packaging in bacterial cells (166 th EUR)
- **N. Pushkarova (RG J. Hejátko): MSCA PF Horizon Europe** Novel Cytokinin-Like Compounds: Signaling and Mechanism of Action in Arabidopsis and Brassicaceae Oilseeds (166 th EUR)
- **M. S. Blanco (RG P. Plevka): MSCA WF Horizon Europe** Structure and dynamics of phage genome ejection (150 th EUR)
- **J. Fousek (RG I. Rektorová): MSCA PF Horizon Europe** Personalizing virtual brains with neurodegenerative disease: noninvasive stimulation approach (166 th EUR)
- **K. Tripsianes: HORIZON ERA: Pathway to Synergies** Upstream synergies to overcome Locked-in effects in widening regions and broaden internationalization pathways for sustainable innovation and competitive grant applications (232 th EUR)



# National Grants

- **K. Říha: MEYS OP JAK Excellence Research** TowArds Next GENERation Crops (TANGENC) (97 475 th CZK)
- **R. Štefl: MEYS OP JAK Excellence Research** RNA for therapy (81 783 th CZK)
- **P. Plevka: MEYS OP JAK Excellence Research** New Technologies for Translational Research in Pharmaceutical Sciences (NETPHARM) (20 000 th CZK)
- **K. Plevová (RG Š Pospíšilová): MEYS OP JAK Excellence Research** Ready for the future: understanding long-term resilience of the human culture (RES-HUM) (11 385 th CZK)
- **K. Marečková: GAČR JUNIOR STAR** Prenatal programming of child's brain and behavior: Novel insights into the mechanisms (24 997 th CZK)

# Teaming project

## **CIBIS (Correlative Imaging for Excellence in Biological Sciences)**

- The project aims to strengthen research capacities through the implementation of correlative imaging and omics methods.
- Partners:
  - European Molecular Biology Laboratory (EMBL)
  - Thermo Fisher Scientific
- Application procedure:
  - 1<sup>st</sup> phase successful
  - 2<sup>nd</sup> phase application submitted 7. 3. 2024

# Research Groups

- **Petr Těšina Research Group** established (2023), supported by the ERC Starting grant (2024)
- **Selection of new group leader** (2024)
- Termination of three research groups (2023-2024)





## Organisational & Leadership News

- **Jiří Nováček** appointed as deputy director for research infrastructure
- **Kateřina Hošková** appointed as secretary for research infrastructure
- Merge of Grant Office (pre-award) and Grants Administration Department (post-award) led by **Alice Valterová**





CEITEC

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HR EXCELLENCE IN RESEARCH

# CEITEC PhD School

## Study Programmes

Brno, Czech Republic

### LIFE SCIENCES

### BIOMEDICAL SCIENCES

Molecular Medicine



4-year  
study programmes



Above-standard  
funding



Coursework in hard/soft/  
transferable skills  
and bioinformatics



State-of-the-art  
core facilities



International  
and interdisciplinary  
environment



Vibrant campus life with  
many events tailored  
for PhD students

[www.ls-phd.ceitec.cz](http://www.ls-phd.ceitec.cz)



# CEITEC PhD School

## **Where we are:**

- Celebrating 10 years
- Thesis Advisory Committee (TAC)
- School of Microscopy (master degree, opening in September 2024)

## **Future challenges and plans:**

- Quality of leadership and mentoring
- Quality standards for supervisors
- PhD School coordinator as a point of contact (and trust)



HR EXCELLENCE IN RESEARCH

# Focus on Leadership

- Leadership assessment interviews (8 group leaders in 2023)
  - Feedback on leadership skills by group members (anonymous)
  - Self-assessment of leadership skills by group leader
  - Feedback by colleagues from support staff
  - Interview
  - Action plan
  - Training opportunities
- Evaluation of researchers: new system in place to support mutual evaluation interviews
  - E-tool streamlining the process, support by HR, monitoring
  - Training support

# Building the community and mutual understanding

- **Leaders Lunches** established (2023)
- **Sip of Science** launched (2024)
- Employee survey: Quality and extent of administrative services (2023)







HR EXCELLENCE IN RESEARCH

# HR Award

CEITEC MU – a proud holder of this award!



**RENEWAL in June 2024**



# INVITATION: Core Facility Day 2024

**Save the date: October 16, 2024**



»»» New format presenting more campus facilities

»»» Attracting new users

»»» Hybrid event offering on-site and on-line participation



**CTLS 2025**  
BRNO

# SAVE THE DATE

CORE TECHNOLOGIES  
FOR LIFE SCIENCES  
CONGRESS 2025

**10-12 JUNE 2025**  
BRNO, CZECH REPUBLIC



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Central European  
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