



CEITEC

Central European Institute of Technology
BRNO | CZECH REPUBLIC

MUNI

2nd December 2021

CEITEC MU Scientific Board Meeting

Programme of the Meeting

- **Welcome new members of the board „on the board“!**
- Strategic plan of the institute 2021-2028 (results of per rollam vote)
- Summary overview of 2021
- Leadership policy
- Change of the organisational structure
 - Dmitriy Chudakov reserach group dissolution
 - Jaroslav Koča research group dissolution
 - Establishment of CF Biological Data Management and Analysis
- General debate

Welcome on the board!



Jiří Fajkus



Robert Vácha

Per rollam vote: Strategic plan of CEITEC MU 2021-2028

- Sent on 7. 5. 2021 via email
- Voting open until 14. 5. 2021
- Received number of votes: 17
 - YES: 17
 - NO: 0
- **CONCLUSION:** Scientific Board takes the CEITEC MU Strategic Plan 2021-2028 proposal into account without reservations.
- **Rector of the university approved the Strategic plan on 24. 8. 2021.**
- Available at:
https://is.muni.cz/auth/do/ceitec/HR_Award/CEITEC_MU_Strategic_Plan_2021-2028_approved_final_web.pdf
- Press release:
<https://www.ceitec.eu/ceitec-mu-has-a-new-strategic-plan/t10817>

Summary overview of 2021

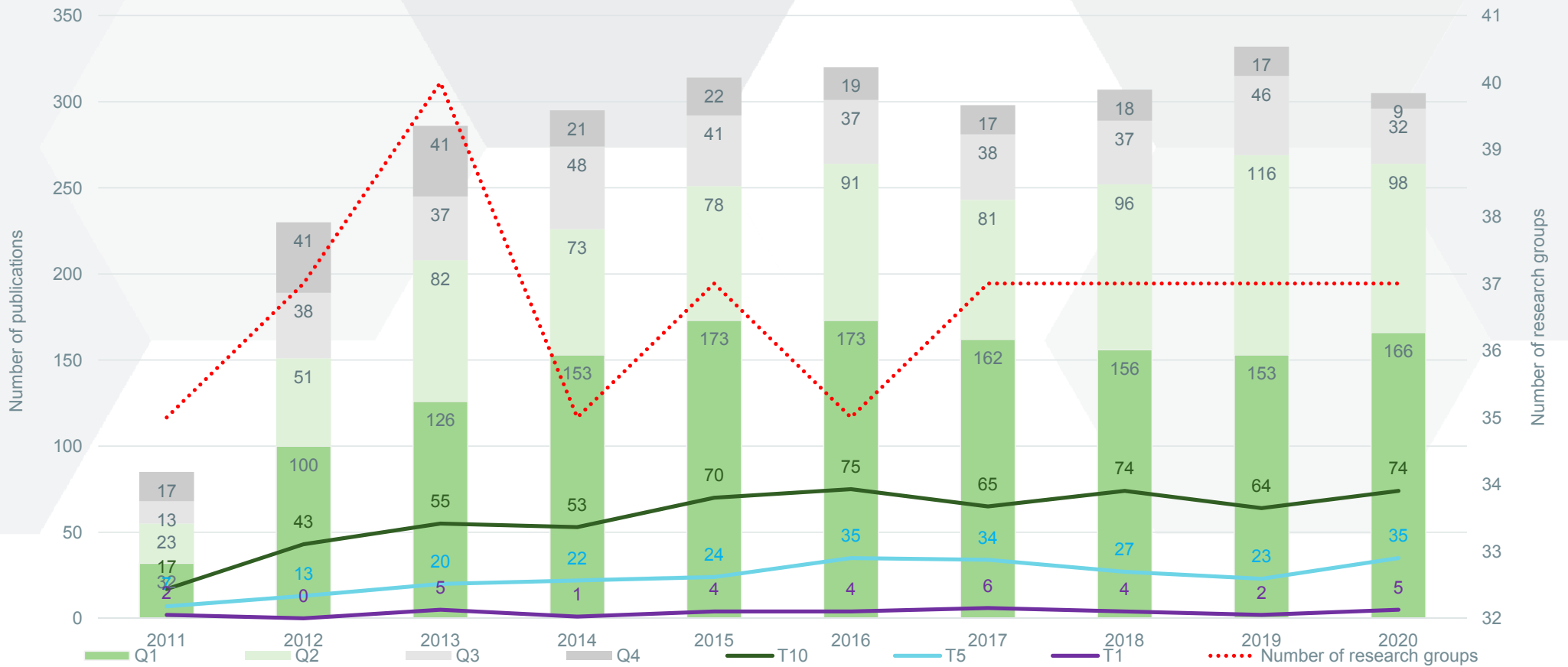
Nature Index (NI)

2020 publications

Czech institutions	Count	Share
	Number of results in NI	Proportion of Local Authors According to the NI
Czech Academy of Sciences	439	95.22
Charles University	301	42.87
Masaryk University	118	21.64
University of Chemistry and Technology, Prague	31	14.36
Palacky University	92	9.52
CEITEC MU	30	8.1
Czech Technical University in Prague	94	6.74
Brno University of Technology (BUT)	73	4.51
University of Pardubice, Czech Republic	7	3.10
Silesian University in Opava (SLU), Czech Republic	13	3.08
Mendel University in Brno, Czech Republic	68	2.84

Publications - Productivity

Number and Percentage of CEITEC MU Publications by Year – Performance profile



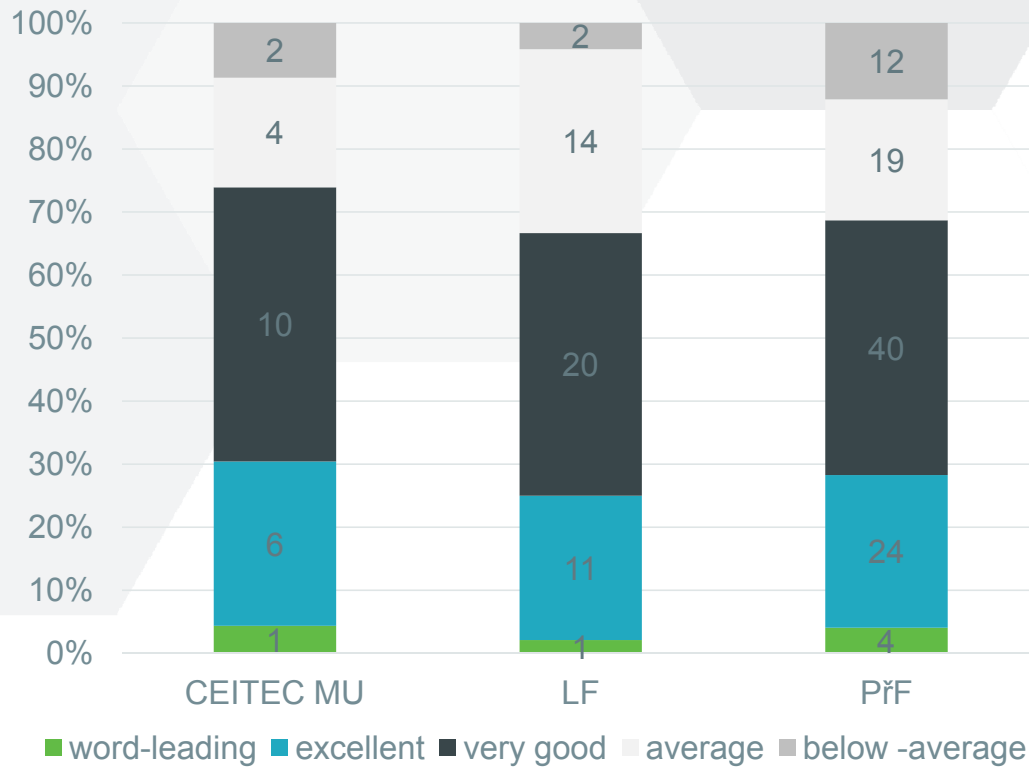
Research Field - Oriented Analysis

Quality of CEITEC MU Publications in Subject Categories: Percentage of Publications in Q1 in 2020

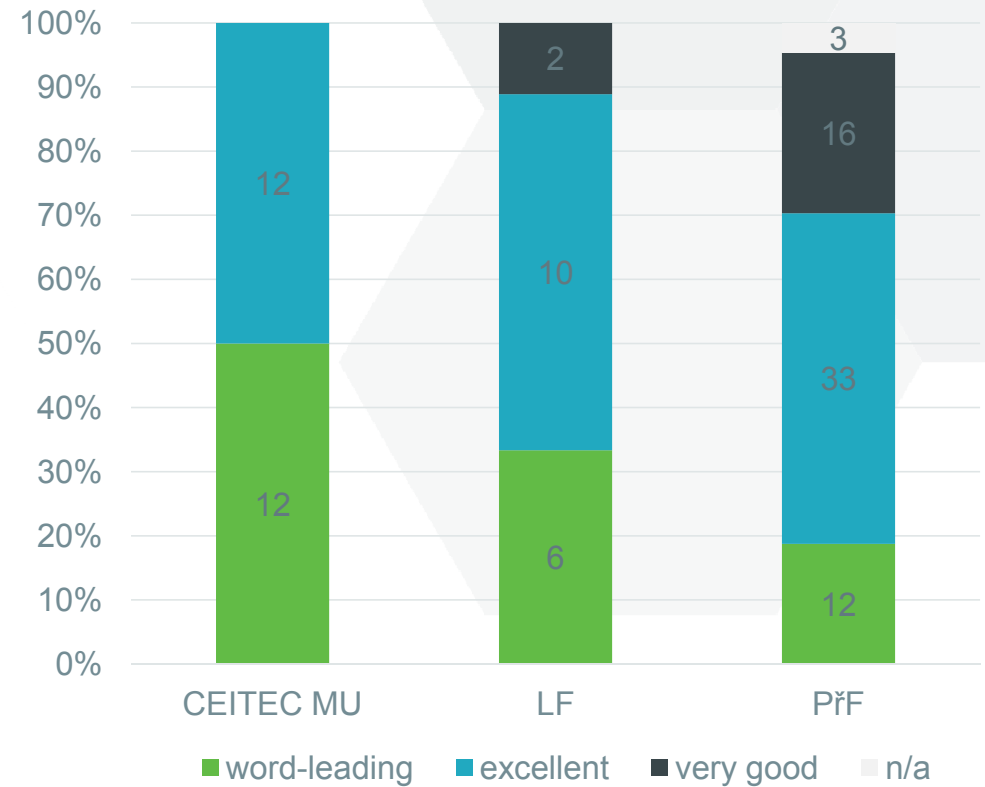
National evaluation system „M17+“

Module 1: Quality of Selected Results

Evaluations of nebiblio results
(summary of evaluation H17 – H20)



Evaluations of biblio results
(evaluation H19 and H20)



Grants

The grant strategy is based on individual research grants (according to the individual specificity of particular research groups).

CEITEC MU has a **higher than national average success rate in all national grant schemes.**

CEITEC also has ambitions to receive institutional grants that support further development initiatives at a larger scale: Horizon Europe – Teaming and OP JAK.

Success rate in % of projects submitted and awarded

Percentage success rate - submitted/awarded projects			
	2018	2019	2020
National	43%	23,90%	31,80%
International	12,80%	32%	30,80%

TEAMING proposal submitted

- **CORMIC** – Centre of Excellence for bridging correlative microscopy in life and material sciences in Brno, „electron microscopy valley“
- **Partners:** CEITEC MU, CEITEC BUT, ISI CAS, EMBL, TU-Wien
- **Impact**
 - life science research leveraging correlative microscopy approaches
 - microscopy technology development at the interface of life and material sciences
 - education of experts in microscopy
 - technology transfer and entrepreneurial spirit
- **Submission:** 5th October 2021
- **Evaluation result expected:** February 2022
- **Competition:**
 - 116 proposals to 1st round evaluation (9 from the Czech Republic submitted)
 - approx. 44 projects shall be invited for 2nd round

Selected Grant Achievements 2021

- I. Rektorová: The EU Joint Programme – Neurodegenerative Disease Research (JPND) – MŠMT - Linking Pre-Diagnosis Disturbances of Physiological Systems to Neurodegenerative Diseases (2021) (374 389 EUR)
- P. Tomančák: Chan Zuckerberg Science initiative (Silicon Valley Community Foundation) Processing of large image data in Fiji - ImgLib2/BigDataViewer ecosystem (329 174 EUR)
- P. Tomančák: EMBO PRACTICAL COURSE – (EMBO Practical Course on Light Sheet Microscopy (57 200 EUR)
- V. Sklenář: HORIZON-INFRA-2021-EMERGENCY-02 – ISIDORe (50 000 EUR)
- J. Nováček: NOMIS Foundation - Structure and Function of the Human Ribonucleosome, HORIZON-INFRA-2021-EMERGENCY-01 - BY COVID (35 000 EUR)

CEITEC PhD School



CEITEC
PHD SCHOOL

- Currently 81 students in total
- Gender balance: 45F / 36M
- 55 international students from 17 countries
- Graduates 7 (2021 – 2 graduates, other 2 planned in December)

Life Sciences Programme (Sci)

- newly re-accredited since the academic year 2021/2022
- students 75 / international 52

Molecular Medicine (Med)

- first international students (3) admitted in 2021
- students 6 / international 3

Training: Selected events

Primarily online form of training due to a Covid-19 pandemic

- PhD Retreat – training on Career Development and Time Management
- Postdoc Retreat – training on Career Development and Leadership Communication
- Active bystander workshop for principal investigators (EU-LIFE)
- Life after PhD series – involvement of Twinning partner's institutions
- Seminar series (see next slide)



CEITEC
PHD RETREAT 2021
WORKSHOPS, FLASH TALKS, NETWORKING

20. - 21. 9. 2021
ONLINE CONFERENCE

Workshops and courses
• STUDENTS' FLASH TALKS •
• CAREER DEVELOPMENT •
• TIME MANAGEMENT •
• OPEN SCIENCE •

Why You Should Attend
PRESENT YOUR IDEAS - EXPLAIN YOUR RESEARCH - MEET NEW COLLEAGUES - GET INSPIRED
HAVE FUN - WIN A PRIZE FOR THE BEST FLASH TALK
This event is supported by project SINCE and RTEG-01/14

SINCE

Capacity approx. 100 students Abstract submission until 22. 8. 2021 Registration at: phdretreat.ceitec.cz



CEITEC

2nd Postdoc Retreat

Two-day mini "Postdoc Retreat" on 23-24 September 2021, including career development training (online) and an evening social event (in person).

23-24/09/2021, Online

If you have any questions, suggestions for upcoming PPC events, or would just like to say 'hello', then please get in touch with us at PPC@ceitec.muni.cz or at our personal emails listed below.

We look forward to seeing you all soon!

Your PPC representatives:
Tina tina.lvkovic@ceitec.muni.cz
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Check for PROGRAM online

No Admission, join FOR FREE.

More information on www.ceitec.eu.

MUNI



Life after PhD
with
Eva Hollenbach

Eva Hollenbach
BASF SE, Frankfurt/Rhein-Main, Germany

01/09/2021, 14.00-15.30
Online

Join us for September's session of the Life after PhD event series. This time we welcome - Eva Hollenbach from BASF SE.

Since September 2020 Global Technical Product Manager with focus on Food, Feed, Pharma and Crop applications of Inorganic salts. In her new role, Eva is responsible for the innovation management in her department, developing several innovation projects that target food and feed applications and supporting customers for all technical questions they face.

This event is part of the online series "Career Cold Line" within the Twinning project RTEG-01/14.

CEITEC MUNI

Life Sciences Seminar Series

The Faculties of Life Sciences at Masaryk University have joined together to host an external seminar series of luminary scientists. MU LSSS mainly focuses on the currently growing fields that combine modern methods of biophysics, computational modeling, imaging, biochemistry, and molecular biology with “more classical” disciplines such as microbiology, cell biology, physiology, genetics, toxicology, developmental and evolutionary biology, and medicine.

[VISIT SEMINARS](#)

[Advanced Materials and Nanotechnology](#)

[Bioinformatics Seminar Series](#)

[Life Sciences Seminar Series](#)

[Mendel Centre Seminars](#)

[Molecular Medicine Seminars](#)

[Principal Investigator Seminars](#)

Awards for CEITEC researchers in 2021



- L'Oréal-UNESCO Award for Women in Science - Terezie Mandáková
- Rector's Award for Outstanding Creative Activity - Dalibor Blažek
- Rector's Award for Long-term Excellence in Research – Irena Rektorová
- Rector's Award for an Outstanding Doctoral Thesis – Cosimo Lobello
- MUNI Scientist Awards – Robert Vácha, Karel Říha, Irena Rektorová, Lukáš Trantírek, Jitka Malčíková + Šárka Pavlová
- Muni Innovation Awards - Ondřej Slabý, Karel Lacina
- Award of South Moravia Region – Jiří Fajkus
- Rudolf Lukes Award – Lukáš Trantírek
- Vice-rector's award for excellent results in doctoral studies - Cosimo Lobello, Jiří Sedmík, Sonali Sharma, Luboš Brabenec, Šimon Džatko, Kateřina Havlová, Konstantin Kutashev
- Czech Head - Vojtěch Haluza
- Rudolf Lukes Award - Lukáš Trantírek

Large Research Infrastructures – external evaluation outcomes

Interim evaluation of Research Infrastructures by MEYS: crucial to get financial support for period **2023-2029**, governmental decision about level of financing expected next year

5 – excellent:

- CIISB – Czech Infrastructure for Integrative Structural Biology
- Czech BioImaging – National Infrastructure for Biological and Medical Imaging
- ELIXIR-CZ – Czech National Infrastructure for Biological Data

4 – high:

- EATRIS-CZ
- NCMG – National Centre for Medical Genomics
- CzPPN – Czech Plant Phenotyping Network – **new infrastructure**



NCMG

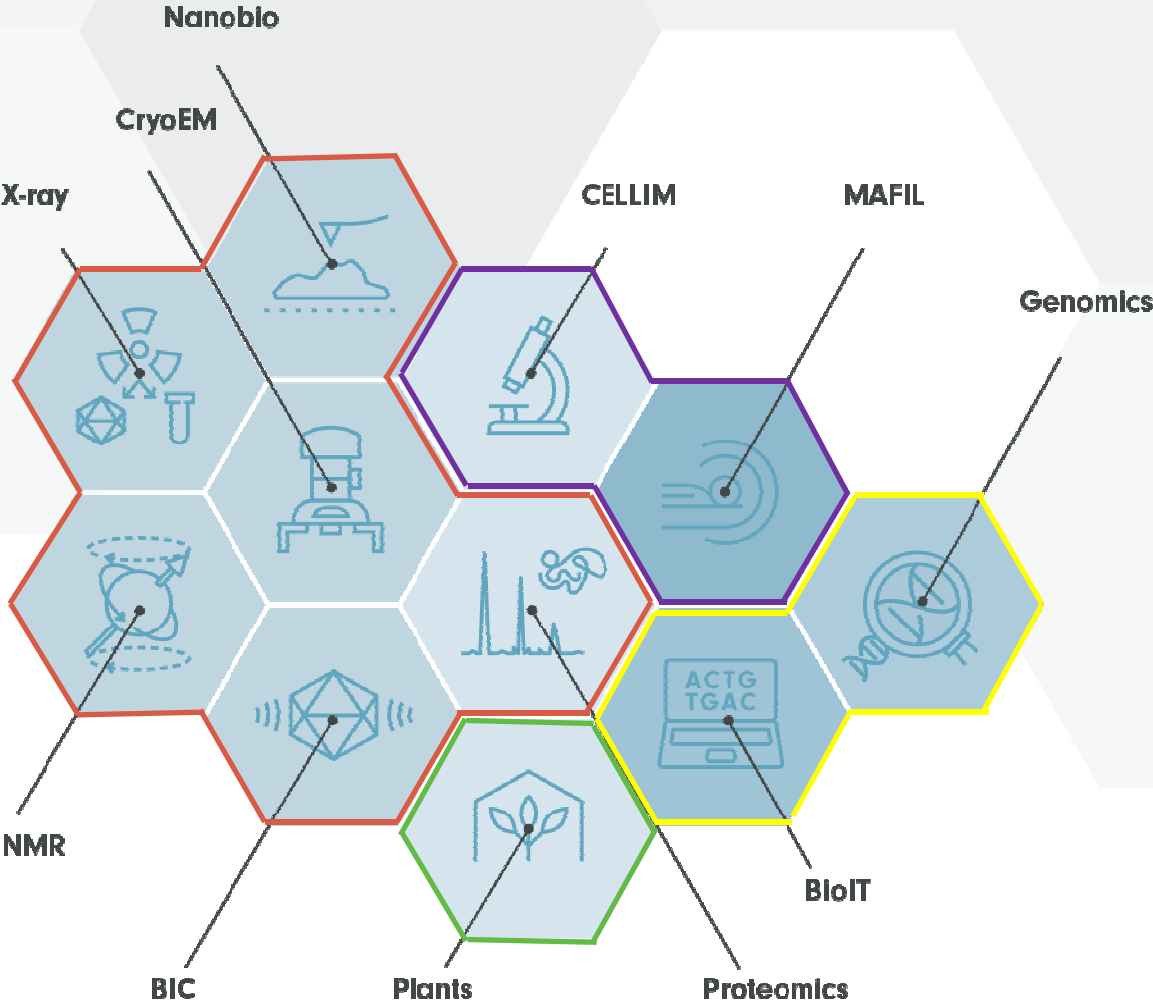
eatris



Involvement of Core Facilities to Large Research Infrastructures



eatris

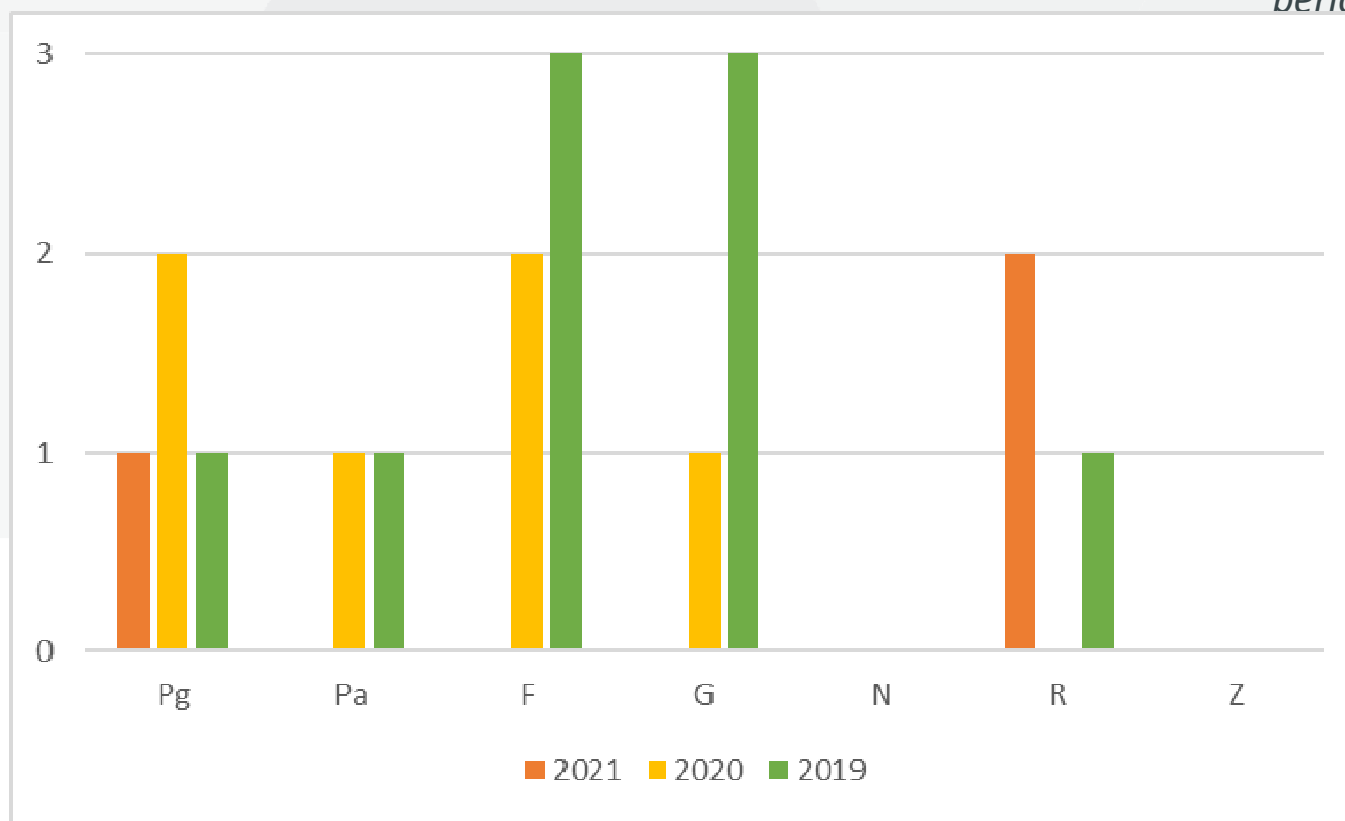


NCMG



Applied results 2019-2021* (overview)

*period 1.1.2019 – 20.11.2021



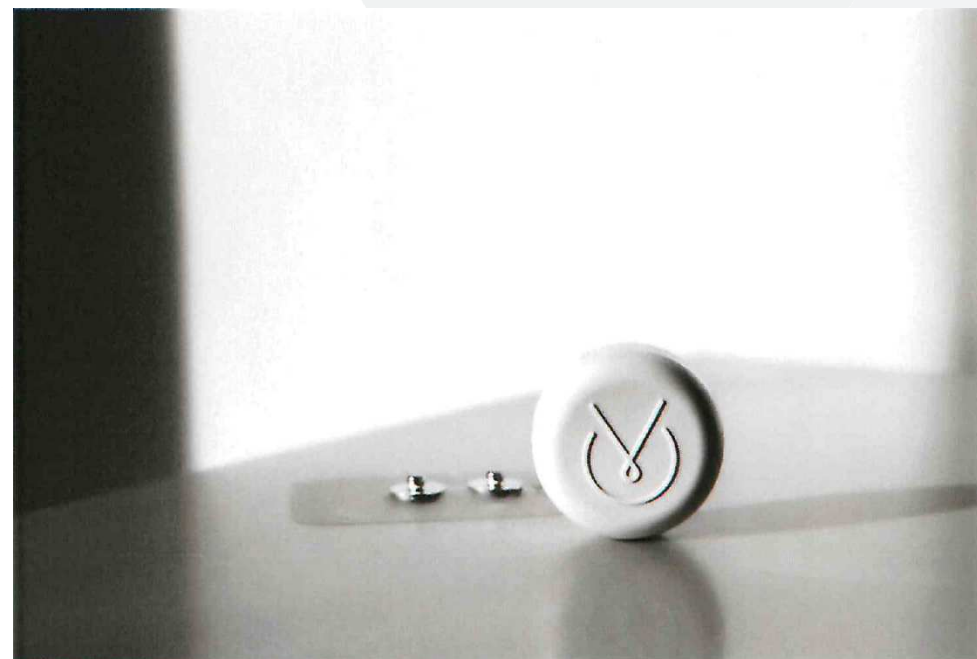
Legend:

P_g – Patent (granted), **P_a** – Patent (application), **F** – Utility Model, **G** – Prototype, **N** – Methodics, **R** – Software, **Z** – Pilot Plant

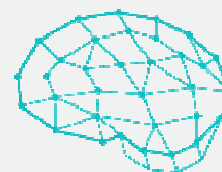
Successful Case 2021

Umana Medical.
a brand of GPI

- Research and Development Agreement between **RG Petr Skládal** and company **Umana Medical** (<https://umanamedical.com/>, part of GPI Group)
- R&D of the „**Umana VITA Sensor**“ measuring the glucose concentration levels from sweat
- Contract parameters:
 - contract period: 01.08.2021 – 31.01.2022 (6 months)
 - 420 kCZK / month (total amount for 6 months: **2 520 000 CZK**)



New Start-up: AI|ffinity s.r.o.



|AI|ffinity
MOLECULAR DESIGN

- **AI|ffinity s.r.o.** (IČO: 11992719)
- Managing Director: Thomas Evangelidis
- Founded: 12. 11. 2021
- <http://www.aiffinity.com/>
- Registered activities:
 - providing software, information technology consulting, data processing, hosting and related activities and web portals
 - research and development in the field of natural and technical sciences or social sciences
- Originated from the RG Konstantinos Tripsianes
- Licence Agreement on the way (software 4D-CHAINS, 4D-GRAPHS)

Leadership policy

HR Excellence in Research Award
Action Plan implementation

Introduction

- According to the HR Strategy, the Institute should ensure **high-quality supervision**, and at the same time, the supervisors should be able to get **quality training in leadership and managerial skills**.
- **What was identified as a gap is a missing evaluation system tailored to the position of the group leader as a leader and manager.**
- CEITEC MU has a well-developed evaluation of the research quality that enables evaluating a research group's performance. However, the Institute is missing a process for assessing the group leader as a leader/manager using more "soft indicators," e.g., *Is the group leader good in leading people? Is he/she an active member of the academic community at CEITEC MU? Is he/she involved in any other roles/positions, such as committee member, member of an evaluation panel, mentor role?*

Leadership policy

Leadership
assignment

*Different roles of
leaders*

Leaders'
development

*Leaders' Training
Academy*

Assessment
interviews

Change of the organisational structure

DISSOLUTION OF TWO RESEARCH GROUPS:

Dmitriy Chudakov research group

Jaroslav Koča research group

see background document for detailed reasoning

New Biological Data Management and Analysis Core Facility

- To be established **since January 2022**
- Interim period of 2 years, after this period it will be evaluated whether to keep CF, redefine or close it
- Main purpose – data management and data analysis of data produced in other CEITEC CFs*
- Main financial source – ELIXIR-CZ



** Director's measure for Research Data Policy of CEITEC MU valid from January 2021. All CFs issued their own Data Management Plans during 2021.*



CEITEC



@CEITEC_Brno

Thank you for your attention and for the discussion.