



Central European Institute of Technology  
BRNO | CZECH REPUBLIC

MUNI

**Jiří Nantl**

Brno, 7th November 2019

# CEITEC MU Scientific Board Meeting

# Agenda

- CEITEC MU report
- Establishment of Gabriel Demo Research Group
- Per-rollam voting results
- General discussion



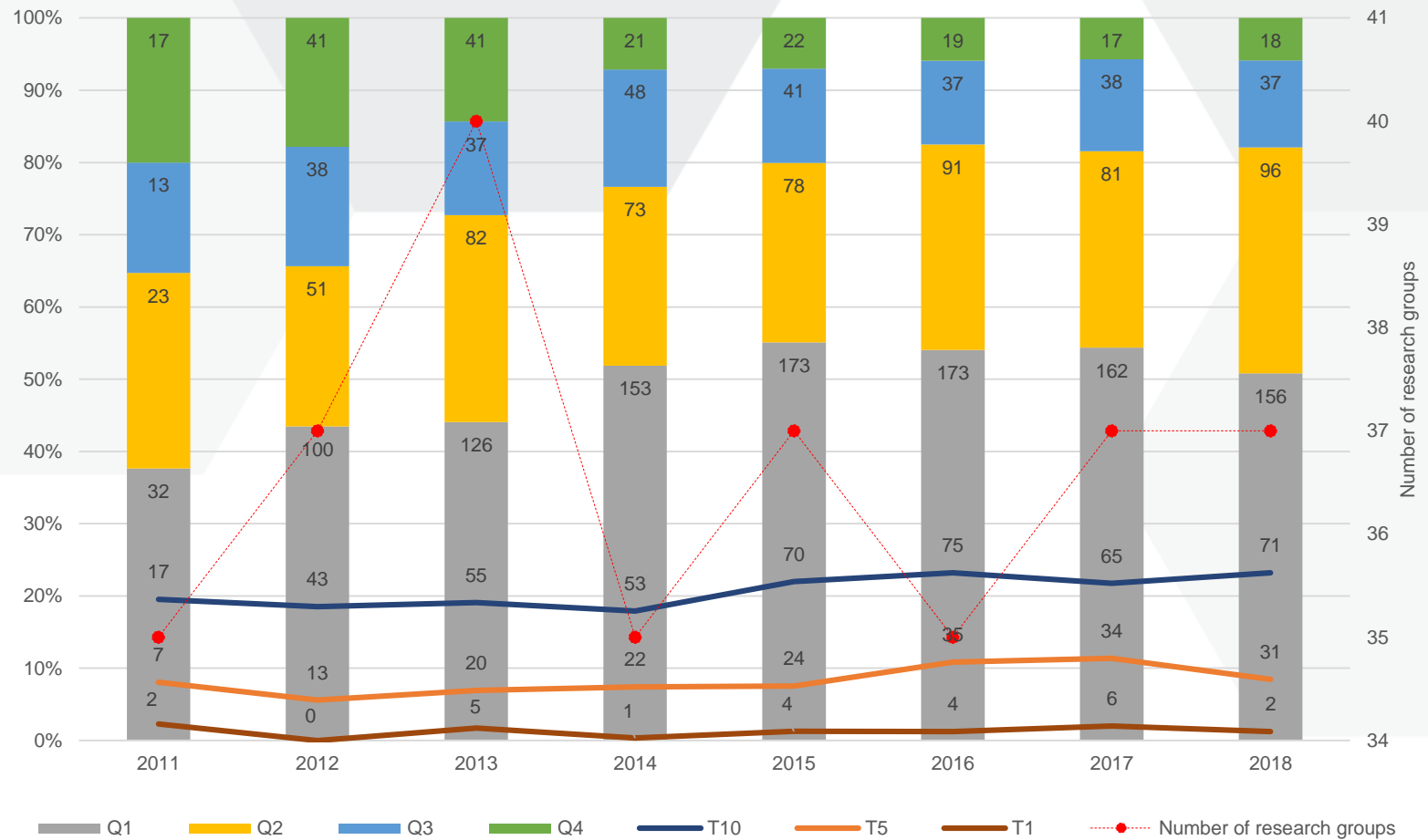
# Performance

# Nature Index (NI) – Czech Institution, Life Sciences

Institution	# Results in NI	Proportion of Local Authors According to the NI
1. Academy of Science of the Czech Republic	356	84,04
2. Charles University	297	34,71
3. Masaryk University	90	23,76
4. Palacký University	89	17,13
5. University of Chemistry and Technology, Prague	34	16,97
6. <b>CEITEC</b>	<b>41</b>	<b>8,27</b>
7. University of South Bohemia	84	7,47
8. Silesian University in Opava	10	5,77
9. Czech University of Life Sciences Prague	18	3,82
10. BIOCEV	14	3,53

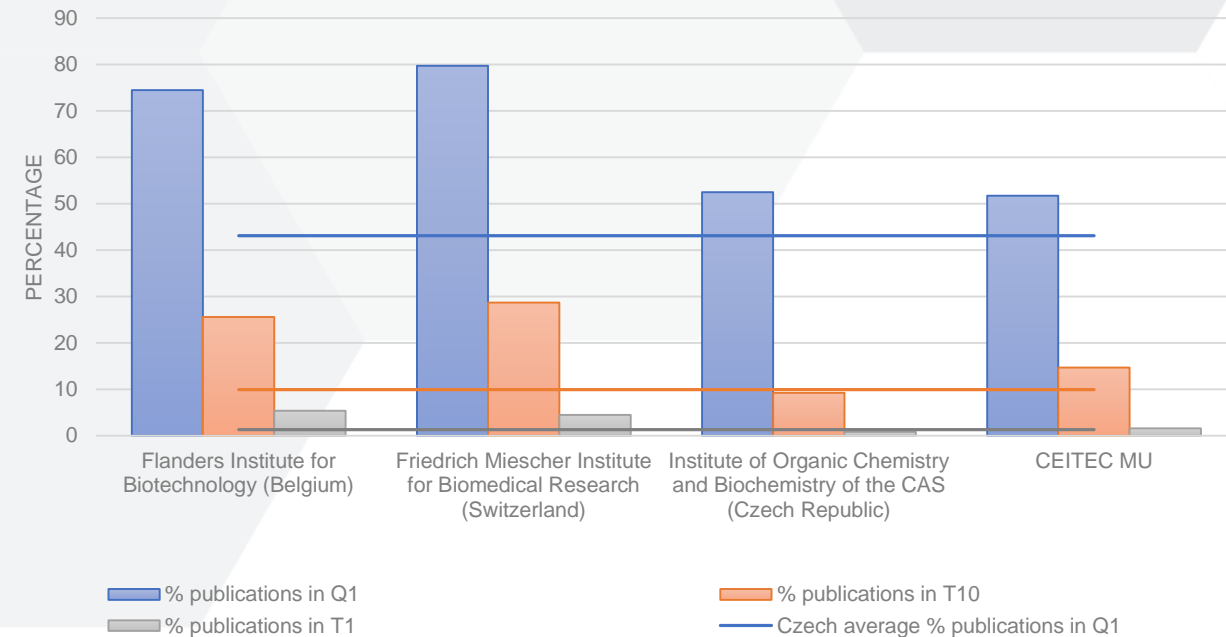
# Publications - Productivity

## Number and Percentage of CEITEC MU Publications by Year

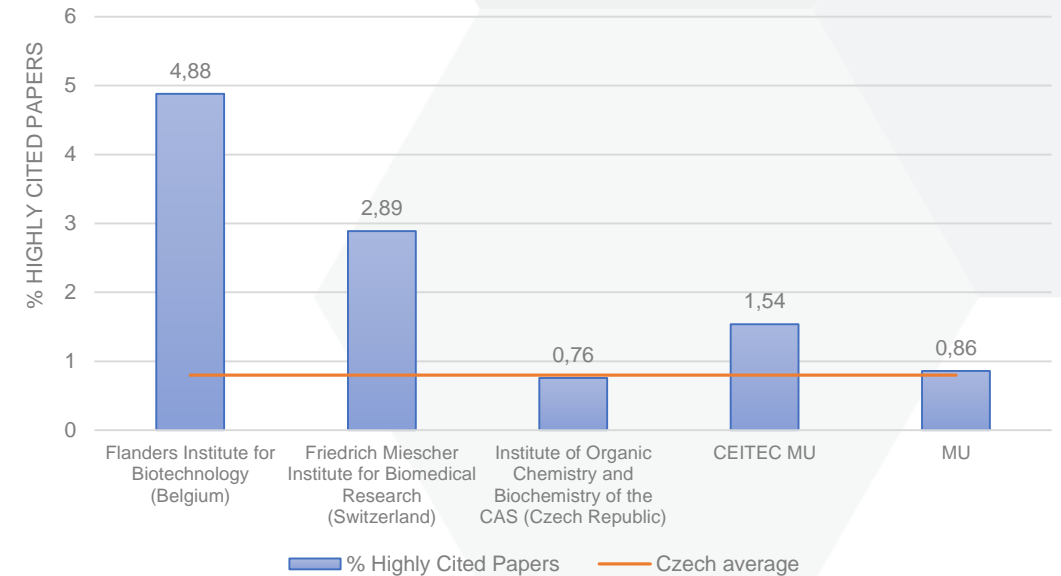


# Benchmarking

## Percentage of Publications in Q1, T10 and T1

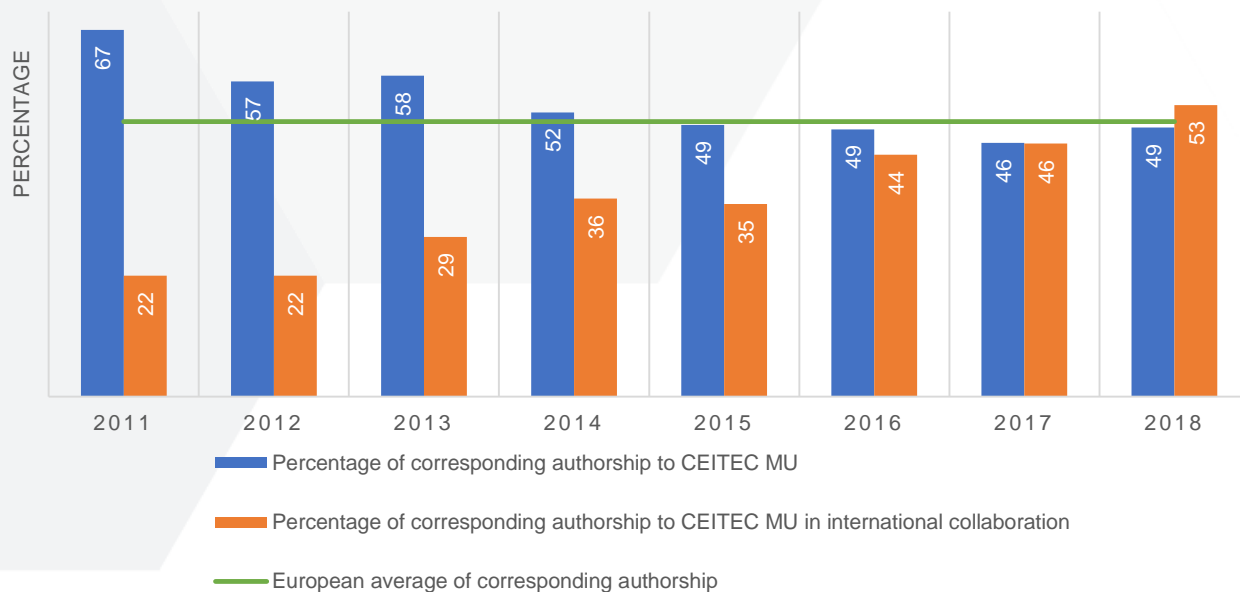


## Percentage of Highly Cited Papers

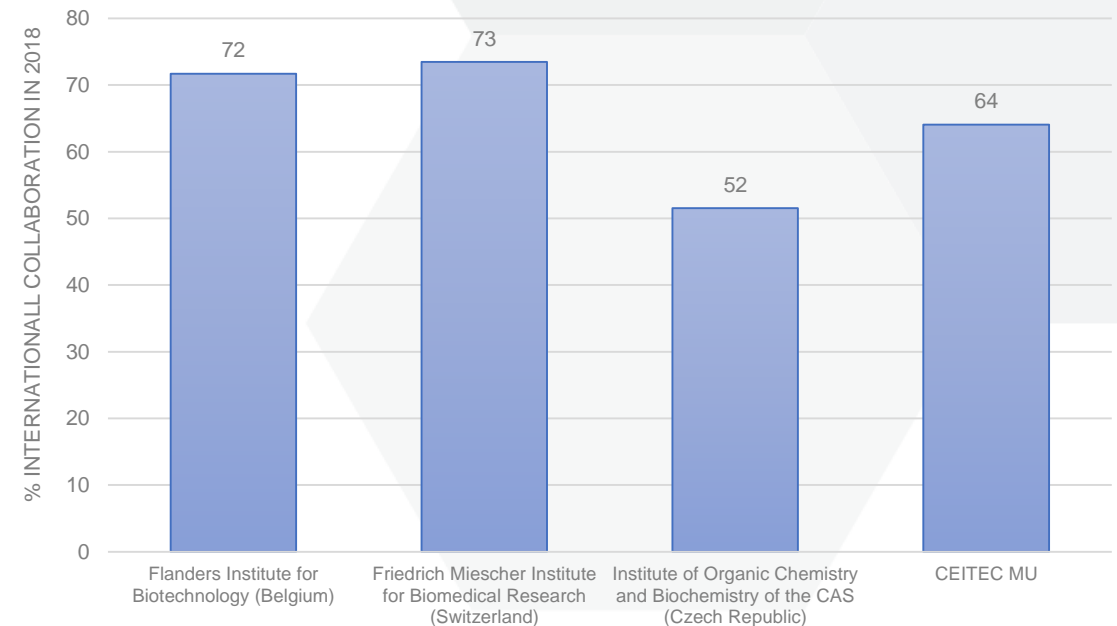


# International Collaboration

## Percentage of Publications with CEITEC MU Corresponding Authorship

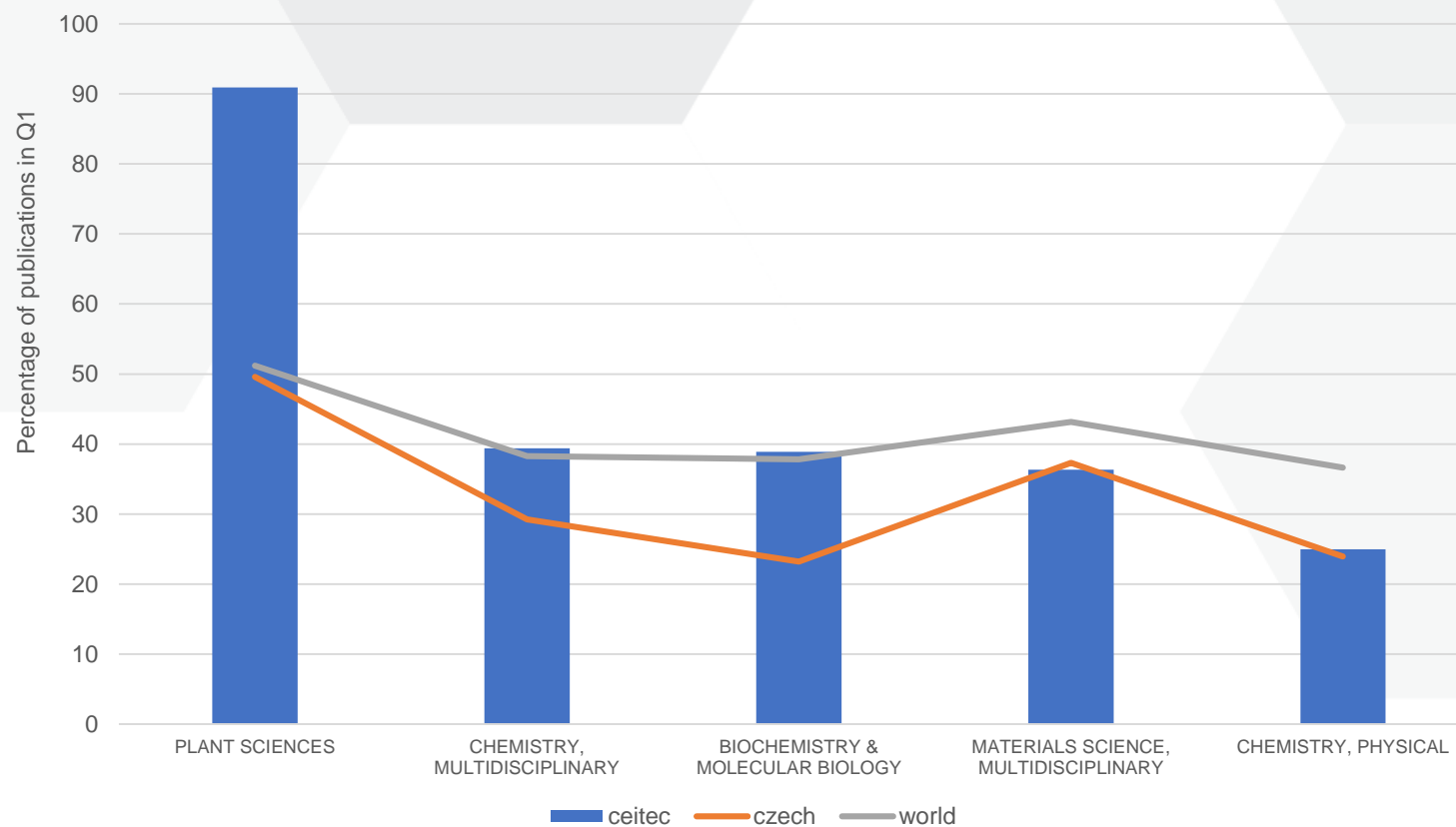


## Comparison of International Collaboration in 2018



# Research Field-Oriented Analysis

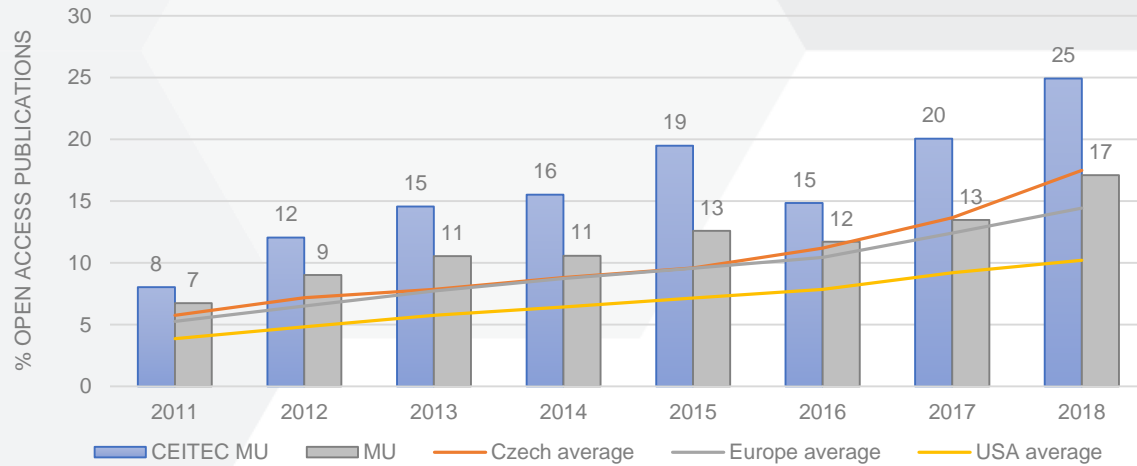
Quality of CEITEC MU Publications in Subject Categories: Percentage of Publications in Q1 in 2018



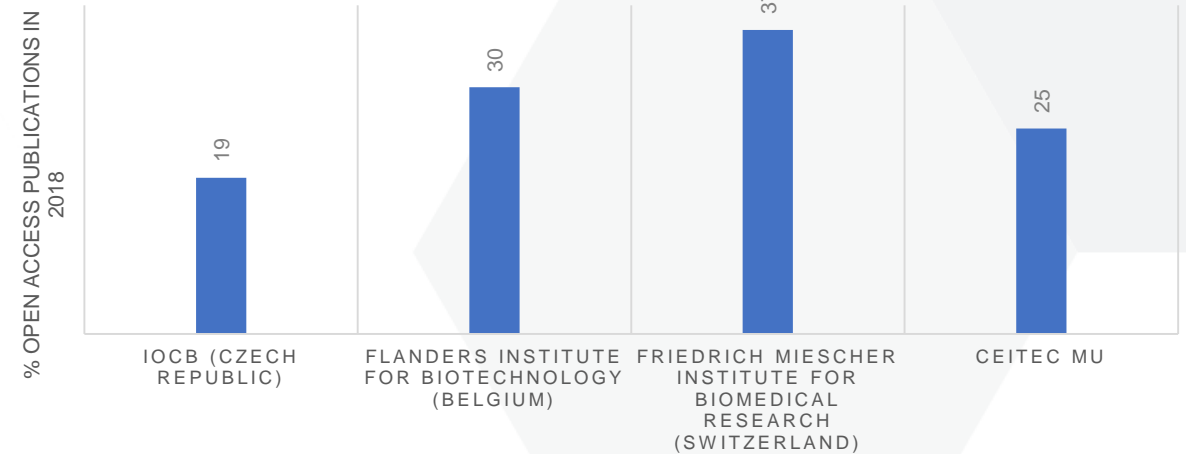


# Open Access

## Percentage of Open Access Publications



## Comparison of Percentage of Open Access Publications in 2018



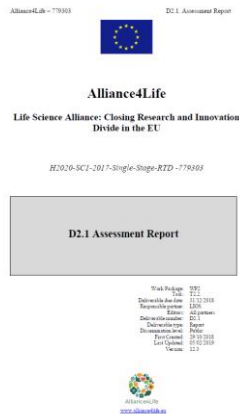
# Annual Analysis and Assessment Reports

## Analysis and Benchmarks on:

- Productivity
- Citation analysis
- Collaboration
- Open Access
- Research group productivity
- RGs and RPs impact

## Benchmarks Among A4L Partners

- Research excellence
- Knowledge transfer
- Funding
- Human Resources
- Core Facilities



# Postdoctoral Programme

## Postdoc Peer Committee

- Formed in 2018
- To support postdoctoral community
- To create fit-to-purpose training and events
- To involve in institutional governance

## Postdocs at CEITEC MU in Numbers

- 47 researchers
- 77 % foreigners
- Gender balance: 24F/23M
- 16 nationalities



*Chair of the PPC*  
**Michael Christopher Owen**

## Postdocs Retreat

- 7 institutions involved

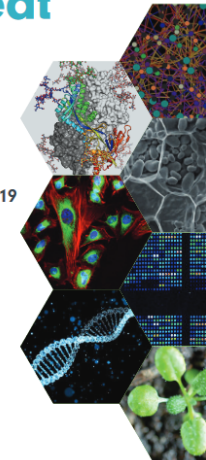


### 1<sup>st</sup> Annual CEITEC Postdoc Retreat 16–17/09/2019

Hosted by the CEITEC Masaryk University  
Postdoc Peer Committee  
As part of  
International Postdoc Appreciation Week, September 2019

#### What to Expect

- Invited talks with topics on: *Vision for Scientific Research at CEITEC, International Career Opportunities for Researchers, Ethics in Research, and Women in Science*
- Networking for postdoc researchers from all of the CEITEC consortium
- Two professional workshops on career development and open science
- Selected talks and poster presentations by CEITEC postdoc researchers
- Award for the best presentation
- Social events, and a lot of fun!



**Krtiny Castle Historical Complex**  
Next to Moravian Karst  
Just 30 minutes from Brno



# Training and Mentoring

- Expanding training portfolio for researchers in all stages (primarily for early-stage ones)
- Soft skills and transferable skills courses
- Career development events and courses

## Programme 2019

TITLE OF THE COURSE	TARGET GROUP	DATE
Applied Research Funding Landscapes	all	5th February
MSCA-IF for Supervisors	RGLs, postdocs (supervisors)	19th February
Creative Thinking for Science Leaders	RGLs	26th February
Effective Career Choice and Networking for PhD Students	PhD students	26th February
Career Paths for Postdocs	postdocs	27th February
Positive Self-Presentation and Networking for Career Success	postdocs	27th February
GACR Info Day	all	5th March
Science Communication Course: Present your research results with confidence (Part I)	PhD students, postdocs	5th March
Science Communication Course: Present Your Research Results with Confidence (Part II)	PhD students, postdocs	April
From Idea to Startup	PhD students, postdocs	April
MSCA-IF for Applicants	all	April
Excursion to Biotech Company	PhD students, postdocs	May
Life After PhD	PhD students, postdocs	May
AZV Info Day	all	May
Hands-on MSCA-IF	postdocs	May
European Commission: Science Communication	all	May
Open Science Workshop	all	May
Mentoring Workshop (mentors)	RGLs, postdocs (supervisors)	June
Science Communication Course: Present Your Research Results with Confidence (Part III)	PhD students	June
Life After PhD	PhD students, postdocs	June
Welcome Info PhD Day	PhD students	September
Excursion to Biotech Company	PhD students, postdocs	September
MSCA RISE & ITN Info day	all	September
Time Management	RGLs	October
Life After PhD	PhD students, postdocs	October
How to write a competitive proposal?	all	October
Visual Communication in Science	postdocs, RGLs	November
Life After PhD	postdocs, PhD students	November
Funding opportunities for Postdocs	postdocs	November

### Neuroimaging: Mapping the function and structure of brain

November 14-16  
CEITEC MU  
University  
Campus  
Bohunicke, Brno

The course is focused mainly on training and teaching students in the field of human brain imaging regardless of their background. However, a basic knowledge about brain imaging will be necessary. Participants will discuss theoretical and practical skills in several neuroimaging techniques.

The school will cover these topics:

- Principles of data acquisition of functional magnetic resonance imaging (fMRI)
- Processing of fMRI data dealing with artifacts in fMRI Practical: Norm for presentation of the experiments and measurements
- Functional magnetic brain connectivity with fMRI
- Manual genetic methods and their role in functional brain imaging
- Diffusion imaging
- Increasing and analysis of PET data
- Simultaneous measurement of physiological signals (ECG, EEG, respiration, ...)
- fMRI: practical aspects: processing of electrophysiological data for usage in the consequent fMRI analysis
- Specific of animal MRI studies
- Theoretical basis for various techniques provided by MRI lab at CEITEC MU and MAS-CEITEC MU

There will be two types of practical sessions:

- 1) Hands-on in CEITEC MU (Measurements with equipment available in MRI lab, using accompanying electrophysiological data)
- 2) Data analysis (processing of data in Matlab, SPM12 environment)

The course is free but it is necessary to make a reservation due to limited capacity. For more details please send email to [michela.moravcova@ceitec.muni.cz](mailto:michela.moravcova@ceitec.muni.cz)



### Summer Course on RNA Protein Interactions

September 17-21, 2018

CEITEC MU, University Campus Bohunice

Kamenice 5, Brno, Czech Republic

Summer course is dedicated for PhD students who are focused on basic and advanced methods to study RNA biological and functional properties. Lectures will focus on the most up-to-date discoveries in the field and the practical part will allow students to learn various approaches to study RNA functions, such as RNA quantification or protein-RNA interaction.

**SPEAKERS:**

- Fuivia Bono (Max Planck Institute for Developmental Biology, GFR)
- Andrew Carter (MRC Laboratory of Molecular Biology, UK)
- Wojciech P. Galej (DMSL, Genoa, IT)
- Julian König (Institute of Molecular Biology, GFR)
- Claudia Kutner (Karlsruhe Institute of Technology, GFR)
- Denis Lafontaine (UCL Cancer Research Centre, UK)
- Hana Macklovská Cahova (Institute of Organic Chemistry and Biochemistry of the CAS, GFR)
- Javier Martinez (Medical University of Vienna, AUT)
- Leno Valasek (Institute of Chemistry, GFR)
- Ramesh Pillai (Université de Genève, CH)
- Matthias Schaefer (Medical Research Council, UK)
- David Stanek (Institute of Molecular Biology of the CAS, GFR)
- Leos Valasek (Institute of Chemistry, GFR)

**ORGANIZERS:**

- Štěpánka Valášková (mvalaskova@ceitec.muni.cz)
- Peter J. Lukavský (p.lukavsky@ceitec.muni.cz)

More information and registration at [rna-protein-interactions.ceitec.cz](http://rna-protein-interactions.ceitec.cz)

### BioSAXS practical course 2018

24-25 September 2018  
Room 211, building A35  
CEITEC MU

**Lecture:**  
Introduction to BioSAXS  
Monday Sep 24th 10:30AM; A35 211

**Practicals:**


- SAXS data acquisition
- SAXS table 1
- Ab initio modeling
- Evaluation of scattering from atomic models
- Rigid body modeling

**Programme:**  
You can find the program on website: <https://www.ceitec.eu/saxs-workshop/a37/>

**Speakers:**  
Al Kikhney, EMBL-Hamburg  
Tomas Klumpler, CEITEC-MU  
Maxim Pektukhov, RAS-Moscow

Register at: [klumpler@sci.muni.cz](mailto:klumpler@sci.muni.cz)  
Registration deadline is September 17, 2018





# Financial Situation and Perspective 2019 - 2021

# Current Economic Situation – Budget 2019

- Since 2016, CEITEC MU has enjoyed more favourable MU rules on the allocation of institutional funds (NPU-II is excluded from „MU taxation mechanism,“ unlike VaVpl until 2015).
- Average yearly growth in gross institutional sources from 2016-2019 is 17 %.
- CEITEC MU has been generating a budget surplus of institutional sources since 2017.
- Stabilized budget of research groups (cca 2 – 3 mil CZK/year institutional allocation, incl. NPU)

# Financial Outlook and Strategy After 2020

- End of sustainability period in 2020.
- Details of institutional funding at national and university level to be developed (current level of institutional funding has been predicted as safe)
- End of funding via NPU project in 2020. Regular institutional funding probably will not be sufficient to cover the discontinuation of NPU. The total income decrease of 30 mil. CZK is expected in 2021.
- Accumulation of financial reserve exceeding 100 mil. CZK to overlap the transitional period 2020-2022.
- Structural changes of CEITEC MU after 2020 (approved by amendment to the CEITEC MU strategic plan). Decrease in number of research groups by a figure of at least 6. Reorganization (mergers) of some Core Facilities will be considered.
- Feasible aim to maintain current level of institutional funding for (remaining) research groups after 2020.

# Per-rollam Voting Results

1. Amendment to the Strategic Plan of the Central European Institute of Technology at Masaryk University

**Passed, with 17 votes in favor and 1 abstention.**

2. Nomination of Prof. Josef Humlíček for the Silver Medal of Masaryk University

**Passed, with 17 votes in favor and 1 abstention.**

The Scientific Board constituted a necessary quorum of a two-third majority of all members voting per rollam, which is 16 members. In both cases, the absolute majority, namely 17 out of 18 of the voting members of the Scientific Board, expressed their agreement by voting “agree”.



