



CEITEC



Central European Institute of Technology
BRNO | CZECH REPUBLIC

Protein Data Bank – services, API and related tools



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTING IN YOUR FUTURE



**OP Research and
Development for Innovation**



Organizing institutes and speakers

- **EMBL-EBI** (Protein Data Bank Europe)



John Berrisford

- **CEITEC MU** (Computational Chemistry Research Group)



Radka Svobodová



Lukáš Pravda

CEITEC – Central European Institute of Technology



*CEITEC is a scientific consortium in the **fields of life sciences, advanced materials and technologies** whose aim is to establish itself as a recognized European center of scientific excellence*



CEITEC project 2011-2015

- **6** partners
- **557** researchers (2015)
- **7** research programmes
- **61** research groups
- **Buildings** (including parcels): 61 mil. EUR
- **25,000 m²** of new laboratories including **9 core facilities**: 105 mil. EUR
- **Start-up grant**: 42 mil. EUR
- **Total budget** (eligible cost): **208 mil. EUR**



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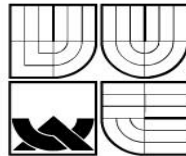
**OP Research and
Development for Innovation**

Partnering institutions

In Brno, Czech Republic



Masaryk University
www.muni.cz



Brno University of
Technology
www.vutbr.cz



Mendel University
in Brno
www.mendelu.cz



University of Veterinary
and Pharmaceutical
Sciences Brno
www.vfu.cz



Institute of Physics
of Materials, Academy
of Sciences of the Czech
Republic
www.ipm.cz



Veterinary Research
Institute
www.vri.cz



Medical Genomics and Epigenomics Network

MEDGENET



PROJECT AIM

To create a well-educated taskforce of biomedical researchers that will enable establishing best practices for performing innovative research with application in clinical practice.

RESEARCH AREAS

- › Genomics
- › Bioinformatics

PROJECT ACTIVITIES

- › Joint mentoring and secondments
- › Participation in EMBL courses
- › Lectures of invited experts
- › Workshops, summer schools, and other events

www.medgenet.eu

CALL: H2020-TWINN-2015 / PROJECT NUMBER: 692298 / DURATION: 01. 01. 2016 – 31. 12. 2018 / EC CONTRIBUTION: 974 529 €

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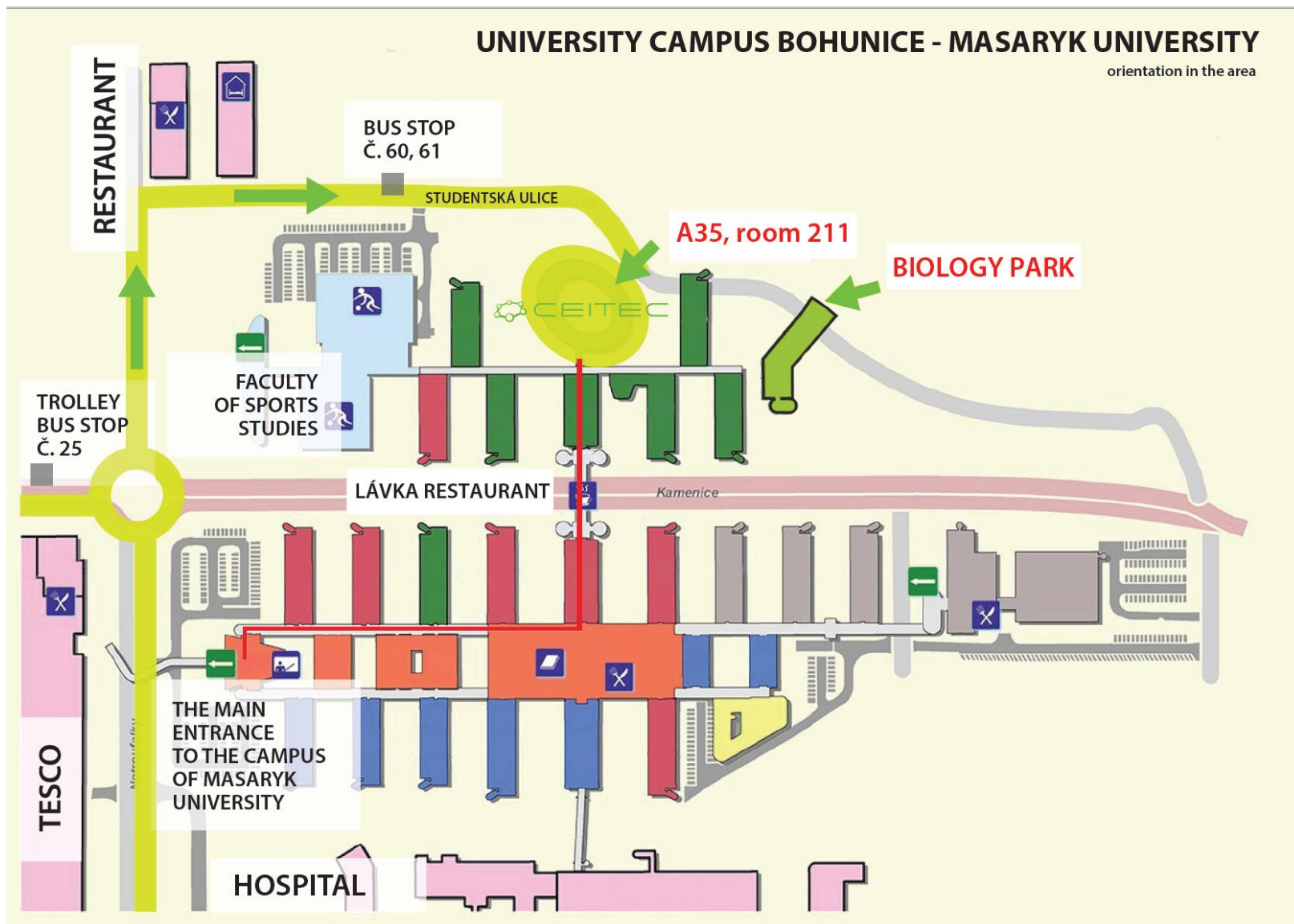
EMBL



CERTH
CENTRE FOR
RESEARCH & TECHNOLOGY
HELLAS



Practical information



Practical information

IC159 Protein Data Bank – services, API and related tools

Exam:

Thursady 16.3. 12:30 – 14:00

Programme

Thursday (March 9)

Speakers: Radka Svobodová, Lukáš Pravda (CEITEC, Laboratory of computational chemistry)

13:00–14:00 Biomacromolecular data, their validation and visualization

14:00–15:00 Detection and extraction of key data regions

15:00–15:30 *Coffee break*

15:30–17:30 Practical session – biomacromolecular data processing

Friday (March 10)

Speaker: John Berrisford (EBI, Protein Data Bank Europe)

10:00–10:30 Introduction to PDB Europe

10:30–12:00 Exploring the PDB through PDBe services

12:00–13:30 *Lunch*

13:30–16:00 Practical session – accessing PDBe data through our APIs

16:00–16:30 *Coffee break + discussion*