

### Genomics and Proteomics program National Centre for Biomolecular Research

Guarantor: Assoc. Prof. Jan Paleček, PhD, jpalecek@sci.muni.cz, room C02-214

FGP seminar – 12th of September 2022

(seminar for supervisors in October)

## I will talk about:

#### - Our program basics and specifics

- board, statistics, roadmap, deadlines,
- Thesis advisory committee (TAC)
- state exam, thesis defense
- awards

#### - University level

- Info hubs
- MUNI PhD news



### **GenPro PhD program Scientific board**

#### Assoc. Prof. Jan Palecek, Ph.D. (Chair)

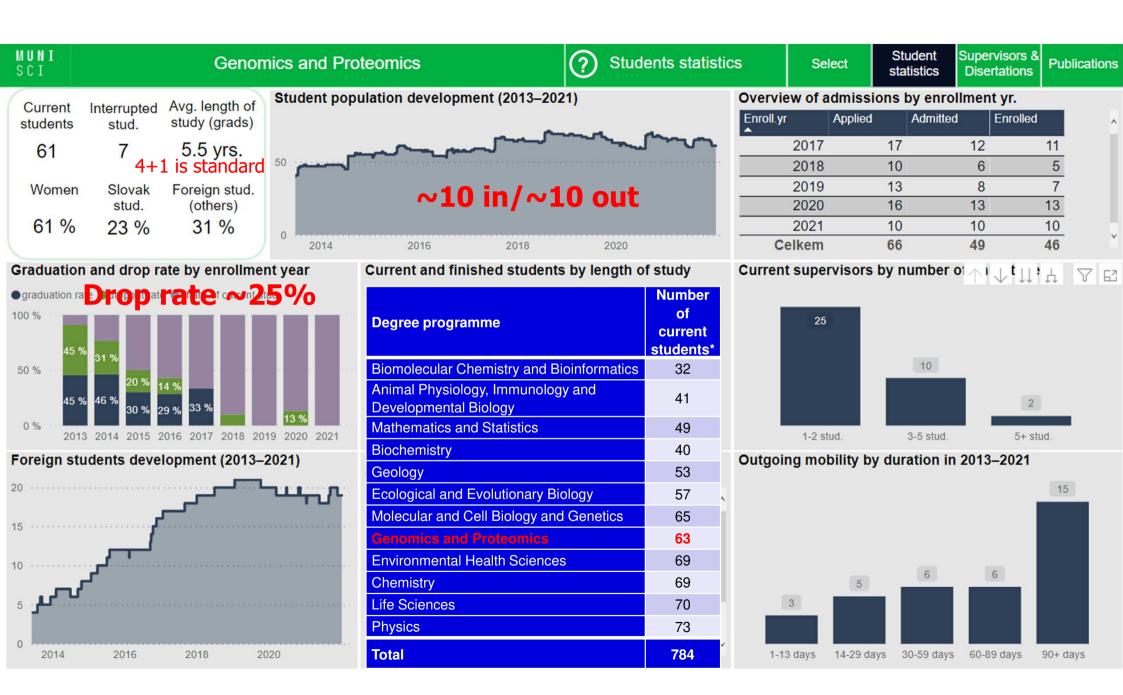
Prof. RNDr. Jiří Fajkus, CSc (Vicechair)
Prof. Mgr. Martin Lysák, Ph.D., DSc.
Prof. RNDr. Zbyněk Zdráhal, Dr.
Assoc. Prof. Mgr. Miloslava Fojtová, CSc.
Assoc. Prof. RNDr. Lenka Fajkusová, CSc.
Assoc. Prof. Jan Hejátko, Ph.D.
Assoc. Prof. Jan Havliš, Dr.
Assoc. Prof. Miroslav Fojta, CSc.
Assoc. Prof. Ctirad Hofr, Ph.D.

#### **External members**

Assoc. Prof. Eduard Kejnovský, CSc. (Inst. of Biophysics, ASCR, Brno) RNDr. Roman Hobza, Ph.D. (Inst. of Biophysics, ASCR, Brno) Prof. Mgr. Marek Šebela, Ph.D. (Palacky University, Olomouc) Assoc. Prof. RNDr. Petr Pečinka, CSc. (University of Ostrava)

**Objectives**: The aim of the Genomics and Proteomics program is to train top class specialists in these subjects ...

... under the supervision of highly experienced researchers/supervisors.



## As PhD you should:

• understand theories, concepts, and methods that represent current trends in Genomics and Proteomics field ... become independent expert

- independently design and conduct research in all its stages
- interpret research outcomes and present them at international conferences
- write a research paper and **publish** it in an impacted international scientific journal
- be competitive at job market (e.g. as postdoctoral fellow in a foreign laboratory)
- supervise students ... to once become a science leader

## **Studies roadmap – Mandatory duties**

General requirements for all students in the programme (please see detailed requirements for the Individual Study Plan in the detailed table below):

#### Mandatory duties: checked by Dean's Office

| XD100 | Ph.D. thesis /Příprava dizertační práce | Enrolled every semester during entire studies, recommended 20-25 ECTS for semesters 1-4, 30 ECTS for semesters 5-8, 20 ECTS for semesters 9 + |
|-------|---|---|
| C9950 | FGP seminar /Seminář oddělení FGP       | Obligatory for all 8 semesters of standard study duration (with exception of stay abroad)   |
| C7777 | Handling chemical substances            | Enrolled every year of study, every autumn semester   |
|       | / Zacházení s chemickými látkami        |   |
| XD102 | Teaching Assistance / Pomoc při výuce   | Maximum 150 hours total during studies – 4-times XD102 (zero ECTS) during semesters 1-4.  |
| XD106 | Lecture in the foreign language         | Minimum once during studies (recommended 0 ECTS)  |
|       | / Odborná přednáška v cizím jazyce      |   |
|       | Placement Abroad                        | Minimum 1 month stay, min. 1-time during studies (usually 5 ECTS/month), requirement given by law   |
|       | /Zahraniční pracovní pobyt              | Instructions for recognition of Placement Abroad:   |
|       |   | https://www.sci.muni.cz/en/students/go-abroad/recognition-of-stay-abroad  |
|       |   | (the recognition is done via IS application Internship and Stays, by creating record of the stay and request for recognition; the             |
|       |   | course is then registered by Dean's Office)   |

Theoretical courses and all other requirements: checked by the Head of Doctoral Board

- minimum 4 courses during semesters 1-4 (before theoretical doctoral exam, SDE\*)
- (FGP) seminars during whole regular study (not in **combined study**)
- Semesters 1-4 (first 2 years of study) research project + theoretical courses, preparing for state doctoral exam and project topics
- Semesters 5 + main focus on research project

### **FGP** seminar

- Every 1st lecture in Autumn semester dedicated to program updates
- FGP seminar serves to PhD students (NCBR-FGP group, 7th and 8th year students, those outside MU etc.)
- 2 students only presentation skills training, project overviews …
  (20 minutes, intro, results, major conclusions as for PhD defense)
- Those registered but having their own seminar platform talk to prof. Fajkus (send him PPT from your seminar presebtation)

### **Milestones and deadlines**

Research project plan – 1st year
 (max 1 page describing background, objectives, methods, and timeline).
 State Destared Even (SDE/SDZ) – 2nd to 4th year (owerd)

- State Doctoral Exam (SDE/SDZ) 2nd to 4th year (award)
- Thesis defense 4th to 5th year (award) = standard time (4+1)
   or later ... extended = 8+1 (9th year only exceptions dean must approve)

| 1. 6. 2022 – <b>20. 9. 2022</b> | Student's semestral plan         |                            |
|---------------------------------|----------------------------------|----------------------------|
| 15. 6. 2022 – 30. 9. 2022       | Supervisor approves              | Supervisor guides you best |
| 1. 9. 2022 – 7. 10. 2022        | Scientific board/chair approves  |                            |
| 1. 12. 2022 – 31. 1. 2023       | Student's feedback               |                            |
| 15. 12. 2022 – 15. 2. 2023      | Supervisor evaluates             |                            |
| Anytime                         | Scientific board/chair evaluates | I am watching you ;-)      |

Introducing TAC!!

### **Thesis Advisory Committee (TAC)**

#### student + supervisor + 2 independent scientists

- Scientific board decided to implement TAC in December 2021 to help students to:
- 1st year: set up your doctoral project plan (1 meeting during 1st year)
- 4th/5th year: get your thesis finished in the standard study time of 4+1 years
- (1 meeting before the end of 4th year or beginning of 5th year)
- 6th year: get your thesis finished as soon as possible (1 meeting during 6th year)
   TAC extended by 1 member of the Scientific board
- 7th/8th year: get your thesis finished as soon as possible (meeting every semester)
- mediate disagreements between students and supervisors ... (you can organize TAC

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<sup>9</sup> anytime you need)

## **State Doctoral Exam (SDE)**

- prove student's professional orientation in the following areas
- prove sufficient general knowledge in the field studied and indepth knowledge in areas related to the Ph.D. thesis Areas:

Genomics and molecular biology

Proteomics and structural biochemistry

Methods in genomics or proteomics

Example:

Hormonal regulation

Posttranscriptional regulation

Primary sequence analysis

• 5 min PPT and questions from (~7) committee members

## **Thesis defense**

 student must be the first author on at least one publication (WoS IF above the subject median)

- student's contribution must be stated
- If the student co-authored at least 3 papers comprehensive introduction and commentary on papers
- If there are less than 3 publications monography.

Defense: supervisor introduces student, student gives **20 min** lecture on major results/achievments, reviewers report and discuss

SDE and defense applications via IS (Iva Klimova)

#### **Awards**

#### - NCBR director (continually):

- SDE in time (2nd to 4th year) 5000CZK
- Defense in time before the end of 5th year 10000CZK
- Poster presentation, oral presentation

#### - dean (deadlines)

- Best student in doctoral program
- -vicerector (deadlines)
  - Excelent results in doctoral studies
- rector (deadlines)
  - Best student in doctoral program
  - Outstanding Doctoral Thesis



#### **New MUNI PhD standards – since 2021**

#### <u>https://portal.muni.cz/ $\rightarrow$ Research</u> **Develop your skills** Employee Portal MUNI Q 00~ Čeština Search .... 0 . University ~ Employee ~ Research ~ Teaching ~ Administration and operations ~ Services ~ PHD DAY Research support Doctoral studies Infrastructure > Newsletter > Bibliometric services > Doctoral studies news > Grant opportunities > Research Ethics Information for Ph.D. students TRANSFERABLE SKILLS Research infrastructure > Publications Information for supervisors > Protection and > Information for faculty > Open Access commercialisation referents > Bibliometrics RESEARCH FUNDING > Information for doctoral boards Contact information Principles and Recommendations for STAY ABROAD **Doctoral Studies** > Admission to Doctoral Study Programmes at Masaryk University NETWORKING Measures IP 2021 and PPSŘ 2022-2025 > Contact https://is.muni.cz/auth/do/mu/Uredni deska/Predpisy\_MU/Masarykova\_univerzita/Ostatni\_doku CAREERS AFTER PHD menty/Metodika/odbor vyzkumu/metodicky list c 1 2021 zasady a doporuceni pro efektivni a kvalitni doktorske s/ > PhD Ombudsman

## **NEWS**:



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## PhD DAY 2022

#### 14.9. 2022 9:00

#### UNIVERSITY CAMPUS LIBRARY

9:00 WELCOME SPEECH 9:10 MEMORANDUM OF COOPERATION IN DOCTORAL STUDIES 9:25 KICK OFF MUNI MENDEL DOCTORANDUS 9:40 INTRODUCTION OF FACULTIES/INSTITUTES



MUNI MUNI MUNI MUNI MUNI RECETOX CEITEC

| 10:20 | MOBILITY  | PROGRAM | IMES AND | GRANTS |
|-------|-----------|---------|----------|--------|
| 10:30 | BRNO PHD  | TALENT  | CONTEST  |        |
| 10:40 | MENTORING | S TAC   | AT CEITE | С      |

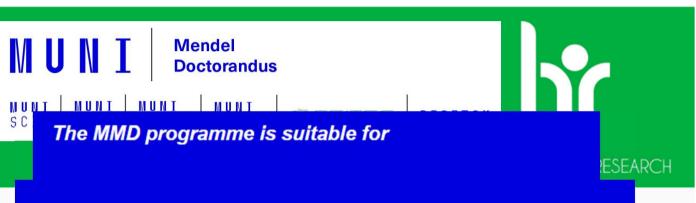
AFTER THE PRESENTATIONS, THE PROGRAM CONTINUES WITH THE ROLL-UP SESSION IN THE CAMPUS CORRIDOR



#### **MUNI MENDEL DOCTORANDUS programme**

# Setting higher PhD standards at MUNI

- Kick off 14/9/2022
- https://mmd.muni.cz
- Coordinated by SCI MUNI
- Guaranteed minimum income of students
- Focus on interdisciplinary and soft skill trainings
- European Doctorate standards



- Current PhD students enrolled in the 1st 4th year of study
- New prospective candidates enrolling to PhD at Faculties involved
- Stable financial support and minimum guaranteed income
- Support for your future career transferable and soft skills
- Interdisciplinary trainings and additional activities
- Extended internship abroad for minimum 3 months
- Internationally recognized "European Doctorate" certificate

#### **On-site visit programme – Chemistry (1st day)**

Thursday 15-09-2022, University Campus MU, Brno-Bohunice, room 432/B17

| 14 –14.20   | Welcome, introduction of MU and the Faculty of Science, evaluation panel, programme  |
|---|--|
| 14.20–15  | Presentation of the National Centre for Biomolecular Research and its research areas |
| 15–15.40  | Presentation of the Department of Chemistry and its research areas                   |
| 15.40–16  | Coffee break   |
| 16–16.40  | Presentation of the Department of Biochemistry and its research areas                |
| 16.50–17.20 Meeting with PhD students of Biomolecular chemistry and bioinform<br>Genomics and proteomics, Life Sciences |  |
| 17.25–17.55   | Meeting with PhD students of Analytical geochemist, Chemistry                        |
| 18–18.30  | Meeting with PhD students of Bioanalytical chemistry, Biochemistry                   |
| 19.30   | Joint dinner   |
|   |  |



### **Information hub for PhD students**

#### <u>https://www.sci.muni.cz/en/students/phd</u> → Research



| Forms                                    |
|--|
| Legislation                              |
| Manuals                                  |
| Enrollment                               |
| Guide to PhD studies                     |
| Doctoral Programmes                      |
| Doctoral state examinations and defences |

**Doctoral Studies**