

Biomolecular Chemistry and Bioinformatics (BINFO)

National Centre for Biomolecular Research

Guarantor: prof. Mgr. Lukáš Žídek, Ph.D., Izidek@chemi.muni.cz, room C04-126

BINFO PhD program Scientific board

Internal members:

- **Assoc. Prof. Mgr. Lukáš Žídek, Ph.D. (Chair)**
- Assoc.prof. RNDr. Michaela Wimmerová, Ph.D.
- Assoc. doc. Mgr. Lumír Krejčí, Ph.D.
- Assoc. prof. RNDr. Robert Vácha, PhD.
- Assoc. doc. RNDr. Radka Svobodová, Ph.D.
- Assoc. prof. RNDr. Jiří Šponer, DrSc.
- Assoc. prof. Mgr. Richard Štefl, Ph.D.
- Assoc. doc. Mgr. Lukáš Trantírek, Ph.D.
- Assoc. prof. Mgr. Štěpánka Vaňáčová, Ph.D.

External members:

- prof. Ing. Richard Hrabal, CSc. (Praha)
- prof. RNDr. Michal Otyepka, Ph.D. (Olomouc)
- Prof. Mgr. Daniel Svozil, Ph.D. (Praha)

As PhD student you should:

- understand theories, concepts, and methods that **represent** current trends in structural biology and bioinformatics
- **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
- **teach/supervise** students ... to become a science leader once

Milestones and deadlines

- Individual study plan – 1st year
 - **wait for instructions from the Dean's office !**
- State Doctoral Exam (SDE/SDZ) – 2nd to 4th year
- Thesis defense – 4th to 5th year (award) = standard time (4+1) or later ... extended = 8+1 (9th year only exceptions – dean must approve)

1.6.2024 - 20. 9. 2024	Student's semestral plan – should be done!
15.6.2024 - 30.09.2024	Supervisor approves- remind your supervisor!
1.9.2024 - 7.10.2024	Scientific board/chair approves
1. 12. 2024 – 31. 1. 2025	Student's feedback
15.12. 2024 – 15. 2. 2025	Supervisor evaluates
Anytime	Scientific board/chair evaluates

Studies roadmap – Mandatory duties

- general requirements for all astudents in the programme (please see detailed requirements for the Individual Study Plan in the detailed table below):

Mandatory duties: checked by Dean´s Office

Code	Title	
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+
CB060	NCBR seminar/ Seminář NCBR	Obligatory seminar for all semesters of full-time study mode (with exceptions of stay abroad)
CB100	TAC/ Thesis Advisory Committee	Standard tool to provide individual quality assessment of PhD candidates, mandatory, to be enrolled in 1st,4th-5th, 7th, 9th, 11th semester)
C7777	Handling chemical substances/ Zacházení s chemickými látkami	Enrolled every year of study, every autumn semester
CB030	Teaching Assistance/Pomoc při výuce	See table for details, maximum 150 hours in total during studies
XD106	Lecture in the foreign language/ Odborná přednáška v cizím jazyce	Minimum once during studies
XD110	Placement Abroad/ Zahraniční pracovní pobyt	Minimum 1 month stay, min,1-time during studies , requirement given by law
C9870	Zpracování a prezentace vědeckých dat/ Processing and presentation of scientific data	Mandatory subject

CB060/CC060 NCBR seminar

- To practice the ability to present results in the form of a lecture
- To provide active feedback (discussing, asking questions) to other presenting students and to critically evaluate their presentations.
- First 4 years as a student enrolled in a course (credits), then as a community member
- Presentations of local structural biology experts and guests
- Great opportunity to present own work in front of the public
- Become a member of local scientific community

CB100 Thesis Advisory Committee (TAC)

student + supervisor + at least **2 independent scientists**

- A tool to help PhD candidates make decisions, solve problems, prepare for the defense**
- Scientific board decided to implement TAC in December 2021 to help students to:**
 - 1st meeting during 2nd semester*
 - One meeting (or more if needed) before the end of 8th semester*
 - One meeting during 10th, 12th, 14th, 16th semester*
- TAC report templates provided by PhD coordinator

(Doctoral Board may change the conditions in the future)

CB030/CC030 Teaching Assistance

- 2 semesters teaching or 3 semesters co-supervising undergraduate students**
- Credits given by the course guarantor, not by your supervisor**
- When you enroll, contact the course guarantor and inform him/her, how you fulfill your duty (which course you teach, how many hours, to what extent, which undergraduate student works under your supervision, in which group)**
- Credits: 2 for co-supervision, 3 for each hour of full-time, contact teaching**
- Semesters, not credits count as the requirement (as an exception, a large load of teaching in one semester can be accepted as completion of the duty)**
- Do not select any other code when enrolling (XD102 or S5009)**

Doctoral State Exam (DSE)

- prove general knowledge of structural biology and bioinformatics
(answering shortly questions common for all students)
- prove deeper insight into a narrower area related to the PhD thesis (scientific discussion)
- students' presentation of his/her PhD topic (if taken in advance)
- apply ASAP

!! Note the changes in the [NEW Study and Examination Regulations](#) !!

(no grades, exactly 5 members of the committee, supervisor not a member of the committee)

Thesis defense

- student must be the first author of at least one publication
- student's contribution must be stated
- if the student co-authored at least 2 papers - comprehensive introduction and commentary on papers
- if there are less than 2 publications – monography, use templates provided by the university
- student presents major results/achievements in 20 min, supervisor reads his/her evaluation of the student, reviewers read their reports, student answers questions, discussion follows

DSE and defense applications via IS (currently Anísa Kabarová)

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(no grades, exactly 5 members of the committee, supervisor not a member of the committee, all reviewers outside MU)