

# Implementation of Orpheus Standards – Charles University in Prague

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*Charles University in Prague*

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# Charles University in Prague

- founded in 1348
- 17 faculties
- 52 000 students on different educational levels
- important part of them are PhD students
- 5 medical schools, Faculty of Pharmacy, Mathematics and Physics and Natural Sciences

# Biomedicine PhD programmes

- *A Doctor degree study programme is focused on scientific research and independent creative work in the field of research or development.*
- *Programmes oriented*
  - Basic science with medical applications
  - clinically oriented PhD programs
  - comparable programs with medical specialization and PhD program organized together with university hospitals.

# PhD programmes – basic characteristics

- Czech language, and in selected programmes in English language
- The graduates - academic degree “Doctor” ( “Ph.D.”)
- Co-operation - Academy of Sciences of the Czech Republic and relevant institutes of the Ministry of Health of the Czech Republic, and International institutions, e.g. NIH.

# Accreditation

- **Faculty preparation** of the programme including the relevances to the research on the faculty and list of the members of Field Board for each programme - respected scientists.
- **Approval** - Scientific Board of the Faculty and scientific boards of the partner institutions.
- **Decision** – Accreditation committee of Czech Republic

# PhD programmes at Faculties of Medicine

1. Molecular and Cell Biology, Genetics and Virology
2. Cell Biology and Pathology
3. Developmental and Cell Biology
4. Biochemistry and Pathobiochemistry
5. Human Physiology and Pathophysiology
6. Immunology
7. Microbiology
8. Neurosciences
9. Pharmacology and Toxicology
10. Experimental Surgery
11. Preventive Medicine
12. Biomedical Informatics
13. Gerontology
14. Medical Biophysics
15. Parasitology

# PhD programmes at Faculties of Medicine

16. Bioethics

17. Imaging Methods in Medicine

18. Biomechanics

19. Psychology

20. Antropology

21. History of Medicine \*

22. Anatomy, Histology and Embryology

23. Clinical Biochemistry

24. Clinical Oncology and Radiotherapy

25. Dentistry

26. Dermatology

27. General Medicine

28. Gynaecology and Obstetrics

29. Hygiene, Preventive Medicine and Epidemiology

30. Internal Medicine

# PhD programmes at Faculties of Medicine

31. Medical Biology

32. Medical Chemistry and Biochemistry

33. Medical Immunology

34. Medical Microbiology

35. Medical Pharmacology

36. Neurology and Psychiatry

37. Ophthalmology

38. Otorhinolaryngology

39. Paediatrics

40. Pathology

41. Physiology and Pathological Physiology

42. Psychiatry

43. Radiology

44. Surgery



# PhD programmes at Faculty of Pharmacy

- Pharmacy

- Clinical Pharmacy, Pharmaceutical Analysis, Pharmaceutical Chemistry, Pharmaceutical Technology, Pharmacology and Toxicology, Toxicology of Natural Products

- Biochemistry

- Pathobiochemistry and Xenobiochemistry

- Healthcare Bioanalytics

- Bioanalytical Chemistry

- Organic Chemistry

- Bioorganic Chemistry

# Field Board

- **Proposals to the Dean**

- composition of entrance procedure
- appointment of Supervising Tutors and Consulting Tutors
- approve the students' individual curricula
- the requirements for the Doctoral State Examination
- propose the members of the Boards on Defence of Doctoral Dissertations and Doctoral State Examination Boards, organize these examinations
- organize courses of lectures and seminars

# Admisssion criteria

- The programme are available for all Czech or international graduates of Master degree programmes of university-level schools who pass the entrance procedures successfully.
- Studies
  - full-time
  - combined form (being employed)

# Admission criteria

- totally free,
- Application includes
  - CV
  - proofs of education completed at the Master degree programme level (or affidavit on being a student in the last year of studies at the faculty)
  - the research project proposal
  - approval of supervisor and the head of department (declaration of the resources needed to complete the project).
  - other relevant documents (e.g. list of publications, etc.).

# Entry exam

- **The criteria for enrolling the students**
  - the scientific quality of the project,
  - the quality of the supervisor
- **Basic knowledge of studied subject**
- **knowledge of English**
- **discussion of proposed PhD project.**

# Requirements for the supervisor

- experienced with PhD education
- PhD or an equivalent degree
- researcher which published in journals with IF
- Cooperation with students
  - topic of the research work
  - prepare the plan
  - Control and supervise the manuscripts and thesis

# PhD programme

- **Standard duration – 4 years full time commitment and scholarship**
- **Maximum duration 8 years**
- **The student - the status of the student (Act on Schools of Higher Education, with all legal and social consequences)**
- **The stipend was done by University, The stipends will be sufficient as 50% of junior academics salary.**

# Structure of PhD programme

- daily research and scientific training
- international exam in English (e.g. State exam, TOEFL, Cambridge examination).
- participation on 1 or 2 courses organized by Field Board (focusing on modern trends in the scientific disciplines, research management, bioinformatics, statistics etc.).



# Publications and evaluation

- PhD student must be minimally the main author of original article published in IF ranking journal and co-author of one or more original papers related to the PhD project.
- The evaluation of students organized annually by the supervisor and head of the scientific board of PhD program.

# Doctoral State Exam

- The studies are duly completed
  - Doctoral State Examination
  - Defence of a Dissertation.
- Before the evaluation of PhD thesis, the students must successfully pass the State oral exam of the studied subject.

# Defence – documents

- **Defence documents**

- record of the Doctoral State Examination
- short curriculum vitae with basic personal details
- Supervising Tutor's opinion on the student
- Dissertation
- list of publications

# PhD Thesis – dissertation

- to prove the ability and skill for independent activity in the field of research or development
- Contain
  - original and published results, or results accepted for publication.
  - printed form in electronic form on a physical medium – Czech or English
  - Abstract (the goal of the work, methodology, major findings, summary and list of author's publications)

# PhD thesis

- written in Czech or English
- no minimum standard for pages
- Thesis
  - fully written
  - comments of publishing papers.

# Evaluation

- The chairperson and members of the Doctoral Examination Board are appointed by the dean of the faculty, following discussion in the Field Board
- one of the members - Supervising Tutor
- at least one of the members of the board is not a member of the academic community of the faculty.
- Assessment committees are appointed by the dean of the faculty.
- The board will establish two examiners to give their expert opinion – independent review on the dissertation submitted.

- **Classification - failed,**
  - **Decide - the dissertation should be revised or extended;**
- **Repeated defence of the dissertation is possible in six months at the earliest.**

# Defence of disseartion

- public and oral.
- Student
  - presented his scientific results and thesis,
  - reacted to the report of reviewers and questions by the committee and auditorium.
- The secure voting made the results with is approved by the Faculty.



Faculty	PhD programmes	Total number of PhD students	New accepted students	Graduated students
1st Faculty of Medicine	19	1002	160	63
2nd Faculty of Medicine	13	385	68	29
3rd Faculty of Medicine	13	263	34	12
Faculty of Medicine Pilsen	17	160	24	16
Faculty of Medicine Hradec Králové	20	271	46	38
Faculty of Pharmacy	3	153	36	31

***The Charles University PhD  
programmes in field of  
biomedicine are fully  
comparable according the  
Orpheus standards approved  
in Denmark in 2009.***



*Thank you for your attention*  
*İlginiz için teşekkürler*

The background of the image is a dense, close-up photograph of numerous red roses. The roses are in various stages of bloom, with some showing deep red petals and others appearing slightly more open. The lighting is soft, highlighting the texture of the petals. The overall color palette is dominated by shades of red and pink, with some green leaves visible in the background.

**Děkuji Vám  
za pozornost**