Medical Sciences

**Degree conferred**
Scientiarum doctor in scientiis medicinae / Doctor of Philosophy in Medical Sciences (PhD)

**Commencement of studies**
An application for admission may be submitted at any time.

**Regulation**
http://studies.unifr.ch/go/Pm-6g (French and German only)

**Application procedure**
Candidates with Swiss qualifications
http://studies.unifr.ch/go/0bJpN
Candidates with foreign qualifications
http://studies.unifr.ch/go/4a2qV

**Fribourg profile**
The department of Medicine offers doctoral programmes in various domains of the biomedical research. Students are affiliated to one of the research groups of our Department and in addition may attend an organized programme of lectures, seminars and other activities. See for example: BeNeFRI Program Neuroscience and ProDoc project Cell migration supported by Swissuniversities.

The research groups of the department of Medicine are organised in 3 research clusters:
- Neurosciences
- Cardiovascular, metabolism & endocrinology
- Cancer, immunology & microbiology

All details concerning the present research activities of each group, the available PhD positions and the contact addresses can be found in the websites of each group (see Contact) and in the Scientific Report of the Department of Medicine, which is published every two years (actual: 2013/2014).

**Research groups list**

**Cluster Neurosciences**
- Laboratory for cognitive and neurological sciences  
  Prof. J.-M. Annoni, Dr. L. Spierer
- Perception and control of movement  
  Prof. J.-P. Bresciani
- Brain circuits for positive emotions  
  Prof. M. Cello
- Neurophysiology of cognitive and emotional functions as well as decision-taking in normal subjects and psychiatric patients  
  Prof. M. Merlo
- Visual cognition laboratory  
  Prof. G. Rainer
- Laboratory of neurophysiology of action and hearing  
  Prof. E.M. Rouiller
- Calcium signalling in health and disease  
  Prof. B. Schwaller
- Motor control and motor learning  
  Prof. W. Taube

**Cluster Cardiovascular, Metabolism and Endocrinology**
- Translational and clinical cardiology  
  Profs. S. Cook and M. Togni, Dr. M.-N. Giraud
- Nutritional energetics and body composition regulation  
  Prof. A. Dulloo
- Molecular oxygen physiology  
  Prof. D. Hoogewijs
- Molecular endocrinology  
  Prof. A. Lauber-Biason
- Cardiovascular and metabolic physiology  
  Prof. J.-P. Montani
- The importance of renal proximal tubular function  
  Prof. F. Theilig
- Cardiovascular and aging research  
  Prof. Z. Yang

**Cluster Cancer, Immunology and Microbiology**
- Cell biology, immunology and clinical anatomy  
  Prof. L. Filgueira
- Molecular mechanisms of hypoxia signalling  
  Prof. D. Hoogewijs
- Molecular and medical microbiology: emerging antibiotic resistance unit  
  Prof. P. Nordmann
- Experimental and translational oncology  
  Prof. C. Rüegg

**Studies organisation**

**Structure of studies**
ECTS credits can be earned.

**Doctoral school**
http://studies.unifr.ch/go/phd-benefri-neuroscience
http://studies.unifr.ch/go/phd-cell-migration

**Admission**
In order to be admitted to a doctorate the candidate must have been awarded an academic Bachelor’s and Master’s degree or an equivalent qualification by a university recognised by the University of Fribourg.

Before applying for a doctorate the candidate must contact a professor who would be willing to supervise the thesis work.

There is no general right to be admitted to a doctorate.
The respective conditions of admission for each doctoral study programme are reserved.

Contact

Faculty of Science and Medicine
Medicine Section
http://studies.unifr.ch/go/medicine-research

Doc- Postdoc-portal

http://www.unifr.ch/phd