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

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**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. Celio
- 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 an 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