



UNIL | Université de Lausanne

THE LIVING KNOWLEDGE DOCTORAL STUDIES AT THE INTERFACE OF BIOLOGY AND MEDICINE

University of Lausanne, Switzerland

Stephanie Clarke, Giuseppina Rota

Ecole doctorale, Faculté de biologie et de médecine, Université de Lausanne, 1015 Lausanne - Switzerland



Centre Hospitalier
Universitaire Vaudois
(University Hospital of
the Canton of Vaud)

University of Lausanne

- An exceptionally green and spacious lakeside setting. In just a few minutes an excellent public transport network links the university campus to Lausanne, the capital of Vaud, noted for its varied cultural and sportive activities.
- An international atmosphere: 1/5 of the student population and 1/3 of the teaching staff come from abroad.



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- Three faculties unique in their kind in Switzerland. Law and Criminal Justice; **Biology and Medicine**, Geosciences and Environment. New innovations require new agencies.
- Up-to-date facilities and technology. State-of-the-art laboratories for researchers.
- Close collaboration with the University Hospital of the Canton of Vaud (CHUV) to remain at the forefront of advances in medical knowledge.
- A philosophy and work ethic expressed in a Charter of Values and precepts drawn up in 2005.

Faculty of Biology and Medicine

Created in 2003 by the fusion of the Medical Faculty and the Biology section of the Science Faculty, the Faculty of Biology and Medicine use synergies in common or close fields of activity.

The aim is to face together the many modern challenges in research, development and academic teaching, on the basis of :

- Multidisciplinarity** : today significant scientific progresses are made joining traditional fields of research.
- New technologies** : open new ways for research and build a common scientific language between specialists from various horizons.
- Translational research** : fundamental research and every day practice sharing their experiences.

Inter-disciplinary and inter-institutional research is enhanced: the Faculty opens to contacts and links with sister faculties in Switzerland and throughout the world, with renowned economical and public organizations such as the local University Hospital (CHUV), the Ecole Polytechnique Fédérale de Lausanne (EPFL), the Swiss Institute for Experimental Cancer Research (ISREC) or the Ludwig Institute for Cancer Research.

The Faculty of Biology and Medicine is a multi-disciplinary institution: and as such, building networks around common interests in research and development is a priority.

For further information

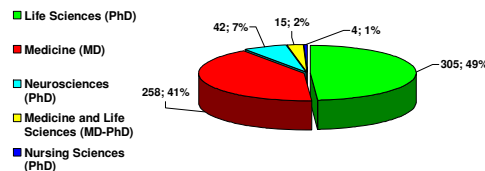
Contact : Giuseppina.Rota@unil.ch

More information on the Faculty and the Doctoral School www.unil.ch/fbm

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Doctoral School – 5 doctoral paths with over 600 students

The Doctoral School of the Faculty of Biology and Medicine offers various specialized study programmes in life sciences and in medicine. It manages the doctoral studies in basic and in clinical sciences. The numerous departments of the Faculty offer a large range of doctoral positions. The doctoral studies benefit from the domains of excellence in basic research and from the close collaboration between basic and clinical research. Many theses in life sciences are carried out in medical research laboratories, and the research in clinical sciences profits from the expertise and technical platforms developed by the basic sciences. More than 600 doctoral students are currently working to obtain one of the five doctor titles awarded.



Doctorate in Life Sciences (PhD)

The doctorate in life sciences offers young scientists, with a master degree in science or medical diploma, the possibility to carry out a personal and original research project in the field of biological, biomedical or public health research.

In general, the degree of a doctor in life sciences is obtained after 3 to 4 years. The doctoral student has to carry out original research work and, since 2005, to follow the PhD programme for a total of 12 ECTS.

Currently over 300 students are enrolled. The doctoral program includes tutorials, courses, seminars and conference attendance and covers large fields of biomedical research.

Specific programmes have been established in:
•cardiovascular and metabolism
•ecology and evolution
•cancer and immunology

Doctorate in Medicine and in Life Sciences (MD-PhD)

The Faculty of Biology and Medicine offers a doctorate in medicine and in life sciences for medical graduates aiming for an academic career. The doctoral programme offers a high quality education in sciences. The PhD programme of the Doctorate in Life Sciences is followed for 12 ECTS credits.

An experimental work constitutes the major part of the doctoral education. Theoretical knowledge is obtained in graduate and postgraduate courses. The candidates selected in their 4th or 5th year start their theoretical education and their thesis work after their diploma in medicine.

The candidates participate in a competition for the attribution of a three-year scholarship.

Inscriptions to the programmes

Doctorates	New doctoral students per semester since 2005 (launching of the doctoral programme in life sciences)								Total number of students currently following the programme
	2005 Spring	2005 Autumn	2006 Spring	2006 Autumn	2007 Summer	2007 Winter	2008 Summer	2008 Winter	
Doctorate in Medicine (1980-)	29	30	32	33	12	16	14	18	273
Doctorate in Neurosciences (2003-)	7	2	5	7	6	1	4	4	42
Doctorate in Medicine and in Life Sciences (MD-PhD) (2003-)	1			2	1	3		1	15
Doctorate in Life Sciences (2002-)	30	43	28	33	23	40	25	27	307
Doctorate in Nursing Sciences (2008-)	4								4
Total	68	80	65	75	42	60	43	50	641

Doctorate in Neurosciences (PhD)

The Lemanic Neuroscience Doctoral School (LNDS) organizes student training both in theoretical and experimental aspects of neuroscience. Research projects take place at affiliated laboratories in Geneva and Lausanne (combined doctorate UNIL-UNIGE). Students receive their training through comprehensive coursework within the LN Programme and by attending seminars, journal clubs and workshops. They are also encouraged, and often sponsored, to present their research at national and international neuroscience conferences.

Facilitating interaction between students and senior researchers helps the students build a network for future collaboration and employment. Our graduates have successful careers in a variety of areas including academia, teaching, research foundations, industry and scientific editing.

LN students are welcome to play an active role in the workings of the programme and other outreach events.

Doctorate in Medicine (MD)

The doctorate in medicine is reserved for physicians and requires an original research to be carried out by the candidate.

Physicians holding the Swiss federal diploma or other equivalent diploma can register for a Doctorate in Medicine. The doctorate offers the possibility to combine a research work and the publication of articles with the obtention of an MD thesis.

Doctorate in Nursing Sciences (PhD)

Introduced last year, the PhD in nursing sciences, first in French speaking Europe, is reserved for nurses. The degree is obtained in 3 years, through original research and a doctoral programme.

This PhD in nursing sciences at UNIL is the second in the Francophone world: second to the one currently offered by the University of Montreal (Canada).

This doctorate is part of the Institut universitaire de formation et de recherche en soins (IUFRS) and the result from the partnership between various medical and teaching high level centers.

PhD Fellowships

Every year the Faculty offers a number of fellowships for PhD doctorates in life sciences. A fellowship covers three years of doctoral studies at the Faculty.



The programme is open to candidates with master degrees or equivalent diplomas, and to students in their last year of master studies. It is advertised internationally in the scientific magazine "Nature".

The candidates may apply for a choice of one to three laboratories active in key research fields.

In 2009, 72 laboratories participated in the programme and proposed PhD positions in fields of research as various as public health, ecology, genomics or neuropsychology. (www.unil.ch/fbm-phd)



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