

Why...

... Master's Studies in Comparative Morphology?

This master's course will offer in depth knowledge and practical skills associated with comparative morphology (embryology, histology and anatomy) of vertebrates (including laboratory animals, wildlife, lower vertebrates, non-human primates) as well as microscopic techniques, molecular and in vivo non-invasive imaging techniques in a coherent and relevant programme. The innovative interactive approach creates an international teaching platform that is based on mobility of people – students as well as teachers – in order to exchange experiences and establish a high standard of education and training.

Target group

The master's programme is targeted at graduates having a bachelor's degree or higher in any of the life sciences and at other 'lifelong learners'. By acquiring specialized skills, the students will increase their career opportunities in research.



Contact

Application and detailed information:

University of Veterinary Medicine, Vienna
(Vetmeduni Vienna)
Veterinaerplatz 1, 1210 Vienna, Austria
T +43 1 25077-0
F +43 1 25077-1389
zulassung@vetmeduni.ac.at
www.vetmeduni.ac.at



www.eucomor.net



Project coordinator:

Prof. C. Van Ginneken, University of Antwerp
chris.vanginneken@ua.ac.be
Universiteitsplein 12610 Wilrijk, Belgium

Partner Institutes:

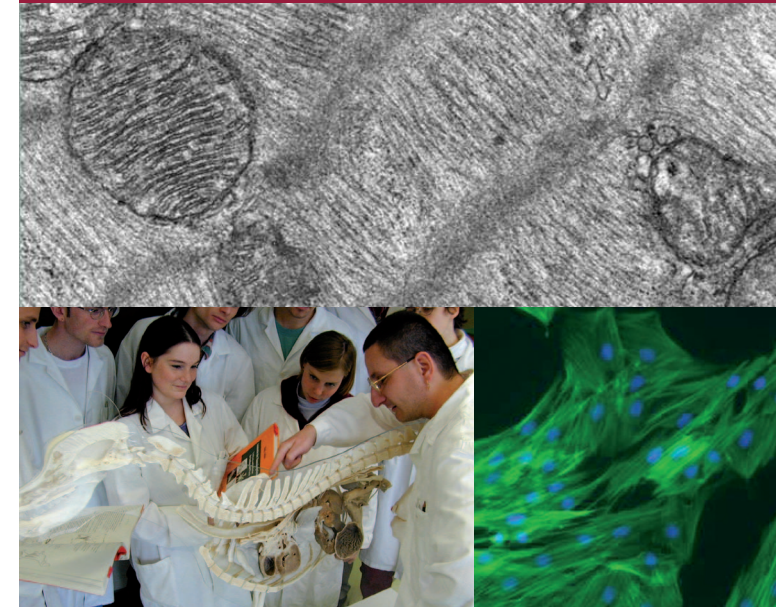
Prof. M. Egerbacher,
University of Veterinary Medicine, Vienna, Austria
Prof. S. Arnhold,
Justus Liebig University Giessen, Germany
Prof. H. Jackowiak,
Poznan University of Life Sciences, Poland
Prof. N. Mirabella,
University of Naples Federico II, Italy

European Association of Veterinary Anatomists:

Prof. C. Wolschrijn, Vice president



European Master in Comparative Morphology



European Master in Comparative Morphology

The master's programme in comparative morphology aims to provide the graduates with advanced and up to date knowledge and skills within the scientific domain of comparative 'vertebrate' morphology. Based upon the learning outcomes (knowledge, understanding and skills) the students will be trained to analyze and answer scientific problems related to the domain of comparative morphology efficiently and independently using appropriate techniques.

ICT-applications will enable distance learning, e.g. virtual microscopy. Students will have the opportunity to participate in elective modules that meet their specific professional interests. The language of the lectures and teaching material will be English.

The international character of the master's programme offers those involved extra-curricular competences that are helpful for teaching and research and provides them with an international network.

Admission requirements

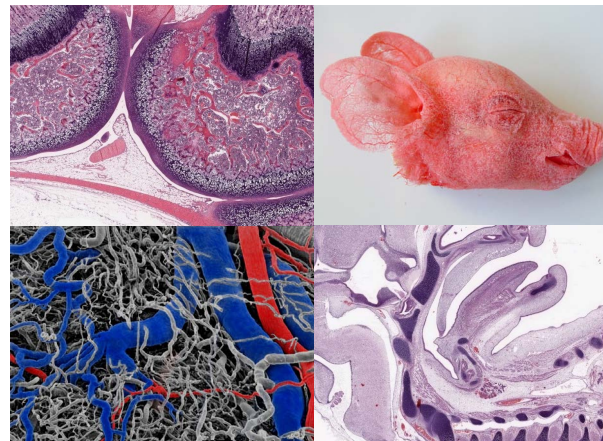
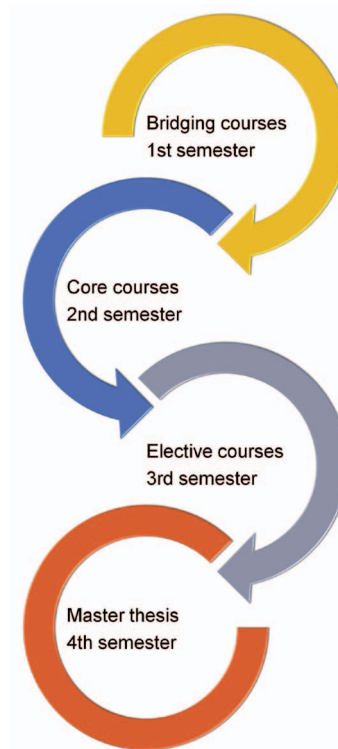
Applicants are required to have a top bachelor degree in life sciences (e.g. biology, microbiology, biomedicine, molecular biology) or a degree in veterinary or human medicine. Proof of good basic scientific skills is required, as is proof of English language skills at the level of TOEFL test.

Key points of Studies

Duration: 4 semesters (120 ECTS-points)

Admission: 15 students per year

The master's programme is scheduled to start in 2012/2013.



Bridging courses (6 ECTS each):

- Basic biology and cell biology
- Basic vertebrate anatomy
- Basic vertebrate histology
- Basic vertebrate embryology
- Scientific methodology

Core courses – Morphology (6 ECTS each):

- Laboratory animal morphology
- Comparative neuroanatomy
- Ecomorphology
- Morphology of non-human primates
- Morphology of lower vertebrates

Elective courses – module Imaging

- Microscopical imaging and image acquisition (6 ECTS)
- Principles in vivo imaging (6 ECTS)
- Image analysis (6 ECTS)
- 3-dimensional rendering (3 ECTS)
- Research internship (9 ECTS)

Elective courses – module Cell culture

- Cell culture (6 ECTS)
- Stem cells (3 ECTS)
- Experimental embryology/morphology (6 ECTS)
- Advanced molecular techniques in morphology (6 ECTS)
- Research internship (9 ECTS)

Master thesis (30 ECTS)