M.Sc. Laboratory Animal Science

The M.Sc. Laboratory Animal Science is a two year, part-time study course. A blended learning concept, incorporating e-learning with attendance blocks, enables participants to receive the highest level of academic and practical training whilst limiting time away from home and work.

The Scientific Directors of the program, Prof. Dr. med. René H. Tolba and PD Dr. phil. nat. Julia Steitz, are supported by a great number of experts in the field of Laboratory Animal Science.

Course Structure

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester</th>
<th>4th Semester</th>
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<tbody>
<tr>
<td>Ethics and Philosophy; National and International Law</td>
<td>Regulatory Affairs: OECD, ICH, FELASA, GV-SOLAS; REACH</td>
<td>Regulatory Affairs: Pre-clinical and clinical studies, approval of Medical Products, Pharmaceuticals and Biologicals</td>
<td>Master Thesis</td>
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<td>Genetics and Breeding; Anatomy and Physiology</td>
<td>Replacement, Supplementation and Alternatives to Animal Experiments</td>
<td>Applied Anesthesia and Microsurgery; Medical Technology and Imaging</td>
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<tr>
<td>Pathology and Diseases</td>
<td>Biochemistry, Hematology and Molecular Biology in Biomedicine</td>
<td>In vivo Pharmacology; Applied Toxicology</td>
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<td>Animal Models in Biomedical Research</td>
<td>Anesthesia and Experimental surgery</td>
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- Twice a week
- Outside regular office hours
- Complemented by literature reviews and homework
- Ten days (two weekends plus the working week)
- At the end of each semester
- Provides practical and clinical skill training under expert supervision
- Group discussions, case studies and excursions to leading laboratory animal science facilities
**Benefits**

- Independently plan, conduct, evaluate and improve animal experiments, generating scientific data to the highest standards using specialist knowledge and the latest methodology.
- Ensure that the 3Rs and EU directive 2010/63 are central in the planning and design of experiments and that alternatives to animal experiments are considered.
- Receive an accredited M.Sc. qualification from a leading University for access to a wide range of careers in Biomedicine.
- Access to a network of internationally renowned specialists.
- Study a broad range of species, from rodents to non-human primates.

**Admission Requirements**

- Legal certification as a scientist, physician, veterinarian or an equivalent qualification
- Sufficient relevant work experience
- Proof of English language skills

**Quickfacts**

- Master of Science (M.Sc.) + FELASA certificate LAS specialist (including EU functions A, B & D)
- Next start: September 2022
- 4 semester (2 years)
- Blended learning concept
- Course language: English
- €5,750 € per semester*

*plus RWTH semester fee.

Application Process – fully digital via RWTHonline: https://online.rwth-aachen.de