



Experimental Microsurgery – generic schedule

Time:	5 days long course
Credit points	1,5 or 3 ECTS
Number of participants	maximum 9
Teaching form	Campus lectures and practical work
Teaching platform/web	www.microsurgery.se
Location	Medicinaregatan 18, Zoology building

Course schedule, Week I

Day 1

9:00 - 9:15	Introduction, presentation of the course
9:15 - 10:00	Suturing material
10:00 - 10:30	Surgical instruments
10:30 - 11:00	Coffee/Tea break
11:05 - 11:45	Introduction to the lab, routines and microscopes.
11:45 - 12:30	LUNCH
12:30 - 16:30	Practical training: macroscopic suturing and knotting on non-living tissue

Day 2

09:00 - 10:15	Anesthesia, analgesia, pre- peri- and postoperative care
10:15 - 10:30	Coffee/Tea break
10:30 - 11:00	Handling tissues, vascular dissection and its complications
11:00 - 11:45	Instruments handling and care, catheters
11:45 - 12:45	LUNCH
12:45 - 16:30	Practical training: Dissection, cannulation, suture tying and microvascular suturing in the chicken thigh model

Day 3

9:00 - 9:30	Peri- and postoperative monitoring
9:30 - 9:50	Anatomy and physiology in rats and mice
9:50 - 10:30	Coffee/Tea break
10:30 - 11:30	Cannulation of veins and arteries
11:30 - 12:30	LUNCH
12:30 - 16:30	Practical training: Dissection and cannulation of the carotid artery and femoral vessels in the rat. Opening of the abdomen, handling of tissue and skin suturing

Day 4

- 9:00 -9:15 Reflection of the first day with rat-surgery
- 9:15 – 10:00 Telemetry, pro and cons and instrumentation
- 10:00 – 10:10 Information on the literature review
- 10:10 – 10:30 Coffee/Tea break
- 10:30 - 16:30 Practical training: Microvascular suturing, end-to-end anastomosis. Practical training in aorta, vena cava and liver dissection.

Day 5

- 9:00 - 9:30 Asepsis
- 9:30 - 10:05 Demonstration of practical aseptic techniques; Setting up personal working space for aseptic work
- 10:05 - 10:35 Coffee/Tea break
- 10:35 - 15:00 Practical training: participant continue to train on techniques that they select themselves
- 15:00 - 16:00 Oral course evaluation, handing out course certificates

Course schedule, Week II

Individual literature review work for students aiming at 3ECTS

Instructors and teachers

LE	Lars Ewaldsson, DVM, PhD. Laboratory for Experimental Biomedicine, University of Gothenburg
MA	Michael Axelsson, Professor, Dept. of Biological and Environmental Sciences, University of Gothenburg
MO	Mihai Oltean, MD, PhD. The Transplant Institute. Sahlgrenska University Hospital, Gothenburg
MH	Mats Hellström, Transplantation biology lab, Sahlgrenska academy, University of Gothenburg
BE	Birgit Ewaldsson, DVM, PhD. AstraZeneca