

Program Module B, Microsurgery and Experimental Research Techniques

Day 1: Basic microsurgical techniques

09.00 - 09.30 Welcome, introduction and expectations for the course

09.30 - 10.45 Good Surgical Practice (GSP) in the rat

10.45 - 11.00 Coffee and tea

11.00 - 11.45 Instruments

11.45 - 13.00 Suture materials and suture techniques

Practical exercises:

14.00 - 15.30 Microsurgical suture techniques on a latex glove

15.30 - 17.00 Anastomoses techniques on artificial vessels, using the MD PVC-Rat

Day 2: Experimental microsurgical techniques I

09.00 - 09.30 Vascular access

09.30 - 10.15 Jugular vein catheterization (stress-free blood sampling)

10.15 - 10.30 Coffee and tea

Practical exercises:

10.30 - 12.30 Jugular vein catheterization

13.30 - 14.00 End-to-end anastomosis of the rat femoral artery (theory)

14.00 - 17.00 Dissection techniques and vascular anastomosis (rat femoral artery)

Day 3: Experimental microsurgical techniques II

09.00 - 10.15 Anaesthesia including peri-operative care

10.15 - 10.30 Coffee and tea

Practical exercises:

10.30 - 17.00 End-to-side anastomosis of an artery. End-to-end anastomosis of a vein

Day 4: Experimental microsurgical techniques III

09.00 - 10.00 Asepsis

10.00 - 11.00 Catheterization of vessels and ducts

Practical exercises:

11.00 - 17.00: Catheterization of:

- Portal vein
- Carotid artery
- Bile duct (intact EHC)
- Femoral vein

Day 5: Experimental microsurgical techniques IV

09.00 - 10.00 Discussion on requested techniques

10.00 - 10.15 Coffee and tea

Practical exercises:

10.15 - 16.00 Techniques of request

16.00 - 16.15 Course evaluation