

Program Module C, Experimental Research Techniques and Radio-telemetry, 5 days

Day 1: Basic microsurgical techniques

09.00 - 09.30 Welcome, introduction and expectations for the course

09.30 - 10.45 Good Surgical Practice (GSP)

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

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 techniques, Radio-telemetry I

09.00 - 10.15 Anaesthesia including peri-operative care

10.15 - 10.30 Coffee and tea

10.30 - 11.00 Radio-telemetry, past, present and future. Tips and tricks for BP/ECG implantation

Practical exercises:

11.00 - 17.00 Implantation ECG/BP module, carotid artery or the abdominal aorta (rat or mouse)

Day 4: Experimental techniques, Radio-telemetry II

09.00 - 09.30 Asepsis

Practical exercises:

10.00 - 17.00: Implantation telemetry device of choice (rat or mouse)

Day 5: Experimental techniques, Radio-telemetry III

09.00 - 09.30 Inventory of requested techniques

09.30 - 10.00 Discussion on technical approaches and refinement

Practical exercises:

10.00 - 16.00 Requested techniques

16.00 - 16.30 Closing remarks and course evaluation