

Program Module A-course

Microsurgical Techniques in the rat for clinical surgeons

Day 1: Basic microsurgical techniques

- 09.00 - 09.30 Welcome, introduction and expectations for the course
09.30 - 10.00 Non-surgical techniques and surgical anatomy of the rat
10.00 - 10.15 Coffee and tea
10.15 - 11.00 Instruments, suture materials and suture techniques(“ the art of knot-tying”)
Practical exercises:
11.00 - 11.15 Setting the microscope
11.15 - 17.00 Microsurgical suture techniques on a latex glove and on artificial vessels, ETS anastomosis techniques (porta-caval shunt), using the MD PVC-Rat

Day 2: Microvascular techniques I

- 09.00 - 09.30 ETE anastomosis of the rat femoral artery (theory)
09.30 - 10.00 How to mobilize the femoral artery (demo)
Practical exercises:
10.15 - 12.30 Dissection techniques and vascular ETE anastomosis of the rat femoral artery
13.30 - 17.00 ETE of the carotid artery and the femoral vein

Day 3: Microvascular techniques II

- 09.00 - 09.30 Basics of anaesthesia of the laboratory rat, including peri-operative care
09.30 - 09.45 Coffee and tea
Practical exercises:
09.45 - 17.00 ETE anastomosis of the femoral artery. ETE anastomosis of femoral vein and the jugular vein, ETS of the carotid artery, Vein graft in the femoral artery

Day 4: Experimental microsurgical techniques I

- 09.00 - 09.30 Nerve repair
09.30 - 09.45 Coffee and tea
Practical exercises:
09.45 - 17.00: Interposition abdominal aorta, carotid artery and femoral vein, epineural repair of the sciatic nerve, groin flap with epigastric artery and vein

Day 5: Experimental microsurgical techniques II

- 09.00 - 10.00 Discussion of participants special needs and requests
10.00 - 10.15 Coffee and tea
10.15 - 11.00 Discussion on technical approaches
Practical exercises:
11.00 - 15.30 Requested techniques
16.00 - 16.15 Course evaluation
16.15 - 17.00 Farewell party