

Program Module A-course, advanced

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 - 10.45 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 - 17.00 Microsurgical suture techniques on a latex glove and on artificial vessels, ETS anastomosis techniques (portacaval shunt), using the MD PVC-Rat

Day 2: Microvascular techniques I

09.00 - 09.30 Vascular access

09.30 - 13.30 ETE and ETS anastomosis on artificial vessels

Practical exercises:

13.30 - 17.00 ETE anastomosis of the rat femoral artery (theory), ETE of the femoral artery, 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