TUESDAY 9 October  h 9 - 18

Aula 1 Torre Biologica est
- Welcome greetings by the Rector of University of Catania Prof. F. Basile
- Introduction and presentation of the course (Prof. S. Paleo - Prof.ssa R. Parenti)

Theoretical session
- Instrumental set for basic microsurgery - suturing materials - instruments handling and care (M. Oltean)
- The microvascular suturing - principles and techniques (M. Oltean)
- Anatomy and physiology in rats and mice (M. Oltean)

Practical training (for selected participants) - Aula 6 Torre Biologica nord
- Preparation of the working area for the rats
- Microscope set-up, suturing and knotting under microscope in non-living models (suture knotting and tying on latex membrane, dissection and microvascular suturing in the chicken thigh model and pig hearts)

WEDNESDAY 10 October  h 9 - 18

Theoretical session - Aula 1 Torre Biologica est
- Opening of the abdomen, handling tissues and vascular dissection (M. Oltean)
- Anesthesia, analgesia and peri-operative care (M. Abbate)
- Multi-modal imaging in small animals (C. Cipresso)
- Aseptic techniques in experimental microsurgery (M. Hellstrom)

Practical training - Aula 6 Torre Biologica nord
- Dissection of various vessels in rats: jugular vein, carotid artery, femoral vein and artery
- Microvascular cannulations and anastomoses on femoral vessels

THURSDAY 11 October  h 9 - 18

Theoretical session - Aula 1 Torre Biologica est
- Discussion and feedback after the first day in rat-surgery
- Experimental microsurgical models in general surgery (A. Di Cataldo)
- Experimental models of liver fibrosis and hepatic regeneration in rats (A. Pesce)

Practical training - Aula 6 Torre Biologica nord
- Opening of the abdomen, handling of tissues and skin suturing
- Abdominal surgical anatomy in rats
- Dissection of VCI and aorta, nephrectomy, portal vein cannulation, bile duct cannulation, microvascular aorta anastomosis