

Without **Animal** Suffering and Pain

<http://www.wasp-science.com/WASP/index.html>

WASP Science develops and delivers high-quality, accredited courses and programs, initial or continuing education trainings in fulfillment of the 3Rs rule

Surgical techniques applied to experimentation without the use of live animals

Approved by the French Ministry of Agriculture and Fisheries, 2016, under the number R-69WASP-CHIR-11

Three day course to address the technical and operational basis of surgery. Training is accredited by the National Commission of Animal Experimentation, and thus allows trainees to request a license to perform experiments that include surgery protocols. The course is aimed at researchers and technicians who already have skills and knowledge related to animal handling, anesthesia and pain management ("Formation de Niveau 1 or 2", FELASA Level B and C, Level A & B).

Under Swiss regulations, the ASSOCIATION DES VETERINAIRES CANTONAUX validates this training as three days of professional development for study directors and experimenters.

Themes addressed

- Introduction to experimental surgery, review of regulations and ethics
- Conditions for carrying out experimental surgery, anesthesia, and analgesia
- Preparation of the experimenter
- Design of a surgical procedure, sterilization
- Injection plan, local anesthesia
- Preparation of the patient, shaving, aseptic techniques, draping
- Surgical approach, abdominal cutting and suturing
- Applications, development of technical ease
- Electrosurgery, theory and practice of cauterization
- Haemostasis, ligation of a vascular pedicle, transfixion
- Soft tissues handling and repair, intestinal anastomosis. tendon and/or vein
- Clinical follow-up, pre-, per- and post-operative care.

Objectives and means

- Acquisition of a coherent methodology for surgical asepsis
- Thinking and choice of methods of anesthesia and analgesia
- Analysis and implementation of a surgery
- Acquisition of safe and accurate gestures to avoid any risk to the practitioner and to limit the patient's trauma
- Acquisition of incision, dissection and suture techniques
- Demonstrations followed by tutored practice on substitutes and anatomical pieces
- Individual evaluation for each exercise
- Evaluated practice
- Case based discussions and analysis of participants' procedures

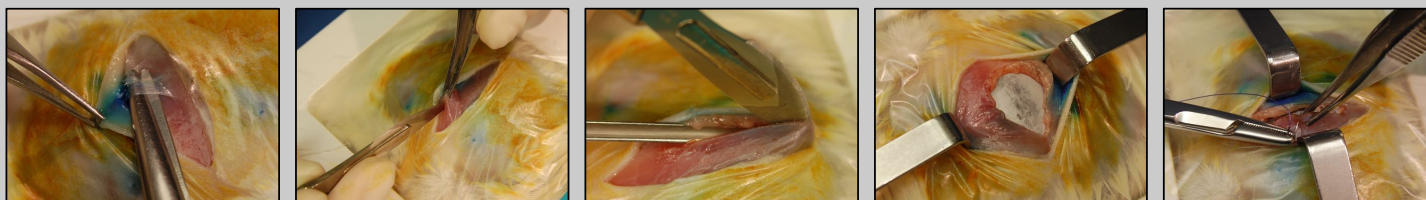
Publications & Communications

- 40th AFSTAL 2014, 12th FELASA SECAL Congres BARCELONE 2013 (p 258-259), http://www.felasa.eu/media/uploads/FELASA-SECAL-2013_Abstracts_JAALAS.pdf
- **Alfred Kastler Biology Prize 2013** from the Fondation on Animal Rights, Ethic and Sciences, chaired by its President, Mr Louis SCHWEITZER.
- Ecole Nationale des Services Vétérinaires (Lyon), Université de Namur & CEFOSCIM (2013).
- **Académie Nationale de Chirurgie, Académie Nationale Vétérinaire** (Octobre 2012)
- STAL vol.37:13-14 (2011)
- 8th World Congres on Alternatives & Animal Uses in Life Sciences, Altex, Special Issue, p218 (2011).
- Prized poster at the 37th AFSTAL meeting (2011).



Specialty trainings

Training sessions organized for individuals or on-site within a team to address one or more specific surgical technique, and its organizational context. Duration, program and location are defined on a case by case basis. Oncological surgery, initiation to acute or chronic catheterism, initiation to microsurgery, vascular/neural microsurgery.



These courses, all teaching material, documents and state of the art alternative supports (patent pending) are under Copyright WASP.