

## **Veterinary Advanced course** (3 days)

### **DAY 1:**

9-13.30h

- Microptic presentation
- Biological overview of fertilization and critical points of the process
- The role of SCA in the semen assessment
- Minimum requirements for working with SCA (devices, versions and complementary modules)
- Presentation of each module and specific kits
- Configuration of doses calculation
- Macroscopic information: Introduction to the Sample manager

13.30-15h

- **LUNCH**

15-17h

- Starting with the Basic semen assessment with the SCA: motility, concentration and vitality analyses. *In vivo analysis of a boar sperm sample.*
- Principles of Sperm Hyperactivation
- Doses calculation

### **DAY 2:**

9-13.30h

- Morphology análisis (*In vivo analysis of a boar sperm sample*):
  - o Simple Sperm washing with PBS
  - o How to perform a good smear
  - o Automatic sperm analysis with the SCA
  - o Customisation of the best analysis settings for your animal

13.30-15h

- **LUNCH**

15-17h

- Principles of functional tests:
  - DNA fragmentation (brief explanation of the different techniques for assessing fragmentation (pros and cons), presentation of the Gold-Cyto DNA kit and new CanSept kit)
  - Acrosome reaction (Explanation of FluoAcro principles)
- Check microscope settings (phase ring alignment, centring condenser and calibration)

### **DAY 3:**

- Internal Quality controls with the SCA
- Animal specifications for sample analysis
  
- Starting from 0:
  - o Analysis of sample preparations
  - o Questions and doubts