# Block view of the study programme

| | | Or | Th | Pr | Au | Cr |
|---|---|---|---|---|---|---|
| **Block 1** | | | | | | |
| **Compulsory courses** | | | | | | |
| VCER0041-1 | *Certificate in animal sciences in the laboratory - category C* - COLLÉGIALITÉ, Pierre DRION | Q2 | 99 | - | - | **10** |

**Composition of the course programme**:
The programme is in English but classes are given in French. The list of presenters is not fixed. All changes however are submitted for prior approval to the "Service Public Fédéral".

- *Introduction and course organization* J. BALTHAZART, L. DUWEZ, P. DRION, E. TIRELLI, L. GILLET, M. VANDENHEEDE, B. NICKS ;
- *Ethics of Animal Experimentation* M. VANDENHEEDE, F. CAEYMAEX ;
- *Ethical Committees Illustrated by Examples* P. DRION ;
- *Legal Aspects of Animal Experimentation* M. VANDENHEEDE ;
- *Animal Welfare* M. VANDENHEEDE ;
- *Ethology of Experimental Animals* M. VANDENHEEDE ;

- *Nutrition of Experimental Animals : Rodents, Dogs, Cats and Monkeys* M. DIEZ ;
- *Morphology of Laboratory Animals : Rodents, Dogs, Cats and Monkeys (Theoretical and Practicals)* A. GABRIEL ;
- *Distress suffering and Pain* M. VANDENHEEDE ;
- *Anesthesia of Experimental Animals* C. SANDERSEN ;
- *Euthanasia of Experimental Animals* D. MARLIER ;

- *Specific Pathology of Rodents and Lagomorphs* D. MARLIER ;
- *Immunology in animal experiments* L. GILLET ;
- *Reproduction Techniques* F. ECTORS ;
- *Reproduction* P. DRION ;
- *Hygiene of Personal* B. BODART ;
- *Zoonoses and Safety in Working with Experimental Animals* B. BODART ;

- *Genetics of Laboratory Animals* L. GROBET ;
- *Production of Monoclonal and Polyclonal Antibodies & Alternative Methods* N... ;
- *Physiology of Experimental Animal : Rodents, Dogs, Cats and Monkeys* F. BUREAU, N. KIRSCHVINK, L. FIEVEZ ;

- *Post-Mortem Examination* D. CASSART ;
- *GLP- GCPV* P. CHIAP ;
- *Housing of Experimental Animals* P. DRION ;
- *Hygiene of Facilities* E. BERGE ;
- *Diseases of Experimental Animals. Parasitology* B. MIGNON;

- *Practicals cat A* F. OLIVIER, P. DE RON, P. DRION ;
- *Specific Pathology of Dogs and Cats* F. BILLEN ;
- *Environmental Enrichment* M. VANDENHEEDE ;

- *Gnotobiology and Xenotransplantation* PV. DRION ;
- *Information literacy* S. VANDENPUT ;
- *Pharmacokinetics and Pharmacodynamics* P. GUSTIN, C. CAMBIER ;
- *Alternatives for Animal Experiments* E. HEINEN ;
- *Experimental Surgical Techniques* A. DELAUNOIS ;
- *Experimental designs and overall reduction of animal use* E. TIRELLI ;
- *Practicals cat B and C* P. DUFOUR : L. DUWEZ, P. DE RON (UCB), V. GENNOTTE, C. DELFORGE, M. GUEDERS, F. OLIVIER, L. DUWEZ, N. MOULA, B. REMY, L. BAUMANS, D. ROOSEN, D. DUCHENE, A. TROMME, B. EVRARD, L. SCHOLLIERS , G. LAMBERT, G. LEBIERE, O. NESCA, L. BAUMANS, L. BORGS, F. GENRAY, P. DRION ;

- *Transgenesis and Cloning* L. GROBET ;
- *In Silico Methods : Computer Simulation of Animal Experiments : a Way to apply 3R's Rules* L. GERIS ;
- *Radiobiology and Radioprotection* V. PIRLET ;
- *Diseases of Experimental Animals Bacteriology* J. MAINIL ;
- *Protocol Writing* E. THIRY ;
- *Statistics and Result Analysis* F. FARNIR ;

- *Zebrafish in the Lab* J. DELCOURT ;
- *Zebrafish in the Lab: in fashion or relevant model ?* J. DELCOURT ;
- *Round Table with Ministry, BCLAS and University Representatives and Conclusion*
J. BELOT, P. DUFOUR, L. DUWEZ, P. DRION, B. NICKS, J. BALTHAZART, L. GILLET, E. TIRELLI, M.VANDENHEEDE.

*Biology, conservation and ethics in manipulating amphibians : an introduction* M. DENOEL
*Systematic and general morphology of fish* B. FREDERICH
*Principles of Fish Physiology* C. MELARD
*Nutrition, feeding and growth in fish* C. MICHEL
*Fish Reproduction* C. PARMENTIER
*How to build an artificial aquatic environment ?* C. MICHEL

*Ichtyopathology* T. JAUNIAUX
*The carp, the firefly and the virus, ... not a fable but a beautiful scientific story* A. VANDERPLASSCHEN