

The only institution on the Clermont-Ferrand site to offer doctoral-level training in the field of **Biology**, UCA's **Doctoral School of Life, Health, Agronomy, and Environmental Sciences (ED SVSAE)** is one of the 5 Doctoral Schools that make up the Doctoral College on the Clermont-Ferrand site. It works in **close partnership with the Graduate School of Engineering, VetAgro Sup, Polytech and SIGMA, INSERM, INRA, CNRS, CHU and the Jean Perrin Cancer Center.** This **multidisciplinary and multi-thematic** Doctoral School specializes in **Biology in the broad sense**, from physiology

to pathology, from animal, microbial and plant genetics to the development of active molecules, from Health to the Environment, from human and animal nutrition to chronic and inflammatory diseases, from pain to oncology, from agronomy to food sciences, etc.

These themes are led by units or teams affiliated with the ED SVSAE, under the authority of either the **Ministry of Higher Education, the Ministry of Agriculture, CNRS, INRA or INSERM** (and for some, 2 or 3 of these organizations):

- **13 joint research units (UMRs)** under the supervision of UCA and partner organizations or institutions INSERM, CNRS, INRA and/or VetAgroSup
- **2 research branches and 2 Teams of 3 otherUMRs**, under the supervision of UCA and CNRS (and SIGMA Clermont for IP)

- **4 EAs** from UCA
- **1 UPU** from UCA
- **1 UR** from INRA

In addition to these units, two structures are associated with the ED SVSAE:

- **1 Clinical Investigation Center**
- **1 integrative research platform**

These different units and teams bring together more than **550 research professors, researchers and engineers** and offer a **strong supervisory potential** as they include **360 research professors and researchers with an Authorization to Supervise Research (HDR)** at the time that this document was written.

### Some figures on the SVSAE Doctoral School

250

PhD students  
per year

28% of whom  
are international



Employment rate  
for doctors 3 years  
after degree

96%

(class of 2014)

70 to 80

Thesis defenses

20 to 30

Dual-degree theses

### ED SVSAE PhD SPECIALIZATIONS

- PhD in Health and Biology
- PhD in Microbiology
- PhD in Bioinformatics
- PhD in Plant Biology
- PhD in Health Engineering Department
- PhD in Medicinal Science
- PhD in Environmental Management
- PhD in Adapted Physical Activity and Health
- PhD in Training and Athletic Performance Optimisation
- PhD in Agricultural, food and environmental sciences and technologies
- PhD in Biological Engineering

## LIST OF RESEARCH UNIT AFFILIATED WITH ED SVSAE

- Patient Self-medication Pharmaceutical
- Reconciliation (ACCePPT)
- Laboratory of Metabolic Adaptations during Exercise in Physiological and Pathological Conditions (AME2P)
- Role of intra-Clonal Heterogeneity and Leukemic environment in ThErapy Resistance of chronic leukemias (CHELTER)
- Clinical Dentistry Research Center (CROC)
- Grain Genetics, Diversity and Ecophysiology (GDEC)
- Genetics, Reproduction and Development (GreD)
- Molecular Imagery and Theranostic Strategies
- Pascal Institute (IP) – GePEB branch and TGI branch
- Laboratory of Social and Cognitive Psychology (LAPSCO)
- Microorganism Laboratory: Genome and Environment (LMGE)
- Clermont Physics Laboratory (LPC) – MAM Team
- Microbes, Intestines, Inflammation and Host Sensitivity (M2iSH)
- Microbiology, Digestive Environment, Health (MEDIS)
- Pain and Neurosensory Biophysics (Neuro-Dol)
- Physics and Integrative Physiology of Trees in Fluctuating Environments (PIAF)
- Mixed Research Unit for Cheese (UMRF)
- Human Nutrition Unit (UNH)
- Mixed Research Unit for Herbivores (UMRH)
- Animal Epidemiology Unit (EPIA)
- Quality of Animal Products (QuaPA)
- Research Unit for Prairie Ecosystems (UREP)



## RESEARCH AREAS

Genetics, Biochemistry, Physiology, Microbiology, Development, Agronomy; Biotechnology, Engineering, Medical imaging, Bioinformatics, Biophysics, *In vitro* and *in vivo* tests; Bacteria, Yeasts, Microbiota, Cereal, Trees, Grasslands, *Arabidopsis thaliana*, *Drosophila*, Bee, Rodents, Monogastric animals, Herbivorous animals, Human; Food science, Nutrition, Metabolism, Physical activity, Mobility; Pain, Cancer, Metabolic, chronic, inflammatory and digestive pathologies; Xenobiotics, Active molecules



## CONTACT US

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