



Technology platforms

⊗ Structural Analysis of Molecules – ASM

This platform combines state-of-the-art instrumentation with specialized expertise in Nuclear Magnetic Resonance, Gas and Liquid Chromatography, Mass Spectrometry, and X-ray Diffraction to characterize chemical structures across a wide range of samples, from small molecules to complex matrices and polymers, with applications spanning in chemical, materials, and biomolecular sciences.

www.uclouvain.be/asm

⊗ CollectionS of Micro-OrganismS COSMIOS

A fungal collection of more than 50,000 micro-organisms, with archae, arbuscular mycorrhizal fungi, bacteria, chromists, fungi, protists, viroids, viruses, yeasts, being part of the Belgian coordinated collection of microorganisms (BCCM-MUCL – <http://bccm.belspo.be/about-us/bccm-mucl>)

www.uclouvain.be/cosmios

⊗ Cyclotron Resource Centre – CRC

This platform proposes multi-charge ion beams, protons, and neutrons to test the radiation resistance of electronic components for space applications, including γ -source irradiation, and also produces microporous membranes.

www.uclouvain.be/crc

⊗ Biological Imaging – IMABIOL

The IMABIOL platform offers services and expertise in high-resolution imaging of biological samples, including optical and scanning microscopy, as well as cell sorting.

www.uclouvain.be/imabiol

⊗ Analysis, Characterization, and Processing Laboratory – LACAMI

Equipped with a wide range of experimental tools, this platform offers: (i) chemical analysis of solids, liquids, and gases in materials and chemical processes; (ii) fracture mechanism analysis; (iii) metallic material processing; and (iv) multi-scale characterization, from nanometers to millimeters, using microscopy and tomography.

www.uclouvain.be/lacami

⊗ Lasers & Optics - LAS&O

Specializing in optics and lasers, the LAS&O technology platform is renowned for designing and building sophisticated, high-value instruments — from spectrometers to advanced laser systems.

www.uclouvain.be/laso

⊗ Mass spectrometry of metabolites and compounds of pharmaceutical and biological interest – MASSMET

This core facility specializes in identifying and quantifying metabolites from complex matrices (biological fluids, tissues, cells, plants, etc.) with chromatographic methods coupled with mass spectrometry.

www.uclouvain.be/massmet

⊗ Proteomic & protein analysis by mass spectrometry – MASSPROT

This facility provides proteomics services mainly through liquid chromatography–mass spectrometry, with expertise in identifying and quantifying proteins from complex samples as well as post-translational modifications—key to advancing research in antibiotic discovery, diabetes, cancer, and immunotherapy.

www.uclouvain.be/massprot

⊗ Microscopic Characterization of functional and nanostructured materials – MICA

Serving materials science, chemistry, solid-state physics, and (bio)nanotechnology, this platform offers access to scanning probe microscopy (AFM), electron microscopy (SEM & TEM), light and epifluorescence microscopy, ancillary sample preparation tools, and spectroscopic micro-characterization (FTIR and Raman).

www.uclouvain.be/mica

⊗ Mineral & Organic Chemical Analysis – MOCA

At the forefront of chemical analysis, MOCA combines cutting-edge expertise in sample preparation with the design of innovative protocols to precisely characterize and analyze both organic and inorganic molecules, even within the most complex matrices.

www.uclouvain.be/moca

⊗ Polymer Processing and Characterization - P2C

This platform provides a broad array of analysis and characterization techniques for macromolecular materials — from polymer and composite processing (extrusion, 3D printing, RTM/SQRTM) to their characterization through thermal, rheological, mechanical, and thermo-mechanical analyses.

www.uclouvain.be/p2c

⊗ Statistical Methodology and Computing Service – SMCS

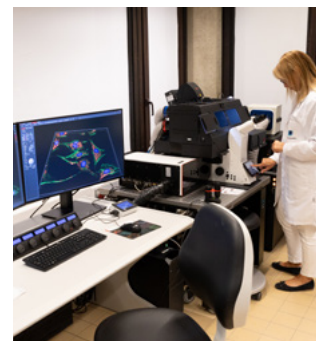
This platform brings together expertise, methodological support, and computational tools to meet the needs of researchers and professionals in applying statistical methods. It offers consulting and guidance at any stage of a data analysis project, along with training courses on a wide range of statistical techniques and tools.

www.uclouvain.be/smcsc

⊗ Surface Characterization – SUCH

With cutting-edge surface analysis tools (XPS, NAP-XPS and ToF-SIMS), this platform explores the first nanometers, supporting material science and (bio)nanotechnology.

www.uclouvain.be/such





✂ **Musée L – MUSE**

The Musée L platform has a dual mission: to highlight the university's collections through both museographical and scientific lenses. It serves simultaneously as a museum open to society and as a hub for education and research.

www.uclouvain.be/muse

✂ **Center for High Performance Computing and Mass Storage – CISM**

This facility provides access to on-site and remote scientific computing clusters and data storage systems, along with training and guidance on all aspects of scientific computing and data management.

www.uclouvain.be/cism

⚙ **Design, prototyping and testing of electromechanical devices – CREDEM**

This platform provides engineering expertise and technical support throughout the design, manufacturing, and performance evaluation of devices, machines, and experimental setups. Prototypes are custom-built to address specific needs across diverse research fields, including robotics, mechatronics, fluid mechanics, process engineering, thermodynamics and energy.

www.uclouvain.be/credem

⚙ **Mechanical Testing, Structures, and Civil Engineering Laboratory – LEMSC**

This platform brings together advanced mechanical testing equipment to assess the behavior of civil engineering structures under static and dynamic loads, as well as to measure the strength and toughness of high-performance metallic alloys and composites.

www.uclouvain.be/lemsc

⚙ **Mechanics, tooling, machining and glassworking – MOUV**

This platform offers support and technical expertise at every stage of mechanical or glass prototype design — from device fabrication to on-site experimental installation.

www.uclouvain.be/mouv

🌐 **Openhub**

This platform empowers innovators to turn bold ideas into sustainable ventures. More than a hub, it is a catalyst for ambitious projects, a vibrant space for collaboration, and a leading reference in design thinking-driven methodologies.

www.openhub.be

⚙ **Wallonia ELectronics & Communications Measurements – WELCOME**

Materials, devices, antennas, sensors, circuits, systems — a dedicated team and state-of-the-art facilities cover all your electrical and optical characterization needs.

www.uclouvain.be/welcome

⚙ **Wallonia Infrastructure for Micro-et Nano-FABrication – WINFAB**

Specializing in micro- and nano-fabrication, the platform operates a 1,000 m² cleanroom equipped with over 50 high-tech machines, providing access to a broad range of advanced techniques including thin-film deposition and etching, surface patterning, micromachining, and back-end processes.

www.winfab.be

🍷 **Center of Investigation in Clinical Nutrition – CICN**

This platform carries out human studies to evaluate how diets, supplements, and new food products affect health, biological markers, and consumer perception.

www.uclouvain.be/cicn

📖 **ScienceInfuse – AFPS**

ScienceInfuse is a platform dedicated to promoting, disseminating and popularizing science and technology.

www.uclouvain.be/afps

🍷 **Animal Facility – ANCA**

The ANCA platform is an animal facility designed for the housing, breeding, and experimentation of vertebrate models. It includes a conventional rodent facility and a fish/amphibian housing unit. The platform also provides support and guidance on animal care and welfare for all on-site species through its Animal Welfare Bodies.

www.uclouvain.be/anca

🍷 **The FERM**

The platform brings together two complementary units:

University Farms – Equipped with specialized infrastructure, state-of-the-art machinery, and highly skilled teams, these farms conduct field trials and work hand-in-hand with stakeholders across the agricultural sector to co-design experiments that validate innovative and sustainable farming practices.

Cétral – The Transdisciplinary Centre for the Study of Food Changes and Food Transition – As a hub of advanced know-how in the nutritional characterization of ingredients, by-products, and finished food products, Cétral also leads the way in developing and optimizing food formulations to meet evolving consumer and environmental needs.

www.uclouvain.be/ferm

🍷 **Agro-Louvain Services – PALS**

At the crossroads of agriculture, environment, forestry, and agri-food, this platform drives technology transfer and outreach, turning Earth and Life Institute research into real-world benefits for the region.

www.uclouvain.be/pals

🍷 **Plant cultivation facilities – SEFY**

Drawing on its expertise in plant growth and crop monitoring, phytopathology, agri-food and agri-environmental mycology, plant ecology, ecophysiology, and sustainable agronomy, this platform supports the design and implementation of research trials for both the university community and external companies, while also promoting public awareness of agronomy research.

www.uclouvain.be/sefy

Legend

🍷 Agriculture, forestry, fisheries and veterinary

✂ Arts and humanities

📖 Education

⚙ Engineering, manufacturing and construction

🍷 Health and welfare

✂ Information and communication technologies

🍷 Natural sciences, mathematics and statistics

Contact

Website

<https://www.uclouvain.be/en/technology-platforms>

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