

HEALTH CLUSTER

COMMON HEALTH RESEARCH SERVICE



TO RESEARCH
TO SHARE
TO TRANSMIT



UNIVERSITÉ
DE REIMS
CHAMPAGNE-ARDENNE

URCA



26 500
students

1 325
lecturers and
lecturer-researchers

1 025
library, engineering,
administrative, technical,
social and health staff

Over
140
qualifications

5
sites

29
research units

2
labelled and research
federations structures

9
academic and
industrial chairs

4
doctoral schools

12
technological platforms
and technical facilities



A DYNAMIC UNIVERSITY

Université de Reims Champagne-Ardenne (URCA) is a multidisciplinary university offering a range of courses in all fields of knowledge that closely reflects the needs of society. Its several sites make it a local university on a human scale. Welcoming and dynamic, it offers a favourable environment for studying, student life and research.



INTERNATIONALLY RECOGNIZED HIGH-LEVEL RESEARCH

In partnership with national research organizations and France's Grandes Écoles, it conducts high-level research in the context of major scientific projects, advanced technological resources and partnerships with socio-economic actors. Its scientific strategy supports the emergence of new themes that produce tomorrow's discoveries and innovations.

A training and research university, URCA is organized into 4 scientific centres of excellence :



**AGROSCIENCES, ENVIRONMENT,
BIOTECHNOLOGIES AND
BIOECONOMY CLUSTER (AEBB)**



**HEALTH
CLUSTER**



**HUMAN AND SOCIAL SCIENCE
CLUSTER (SHS)**



**DIGITAL AND ENGINEERING
SCIENCE CLUSTER (SNI)**



300 lecturer-researchers
within SFR Cap Santé

HEALTH CLUSTER | Common Health Research Service



AN ADVANCED CLUSTER WITH NICHES OF EXCELLENCE

The SFR Cap Santé federates laboratories in health with the support of large research institutes. It aims at developing a homogenous ensemble between fundamental and clinical research to access a true transdisciplinary research. This results in multiple and diverse collaborations on national and international basis and in hosting excellence research chairs.



A RICH AND VARIED RANGE OF MEDICAL AND PARAMEDICAL TRAINING

Health covers a wide scope of applications clearly beyond health and including diverse scientific and technologic areas. In that way, medical, paramedical, and scientific training programs such as License-Master-Doctorate are professional programs with the graduate school Common Health Research Service (SFS) offering skill training by and for health research.



A NETWORK OF COMMITTED PARTNERS

Special collaborations in translational research: CHU in Reims, Godinot Institute (CLCC in Reims) and UTT.

Public-private partnerships in industrial research: Carnot Institute MICA, competitiveness clusters MATERIALIA and Alsace BioValley, SATT Nord and pharmaceutical and cosmetic industries.

Partnerships in high education and research: ESR establishment network with its 18 partners.



20 research laboratories
within SFR Cap Santé



4 national research
organizations



8 platforms and
technical facilities



2 Biological Resource Centres
(CRB CHAR,
CRB Toxoplasma)



2 chairs of excellence (INSERM
PEpithe chaire and MAGiCS
industrial chair)



20 patents, **35** licenses,
15 long standing projects
at the SATT Nord



100 PhD students at
the graduate school
«Fundamental Sciences and
Health» (ED SFS)



400 publications yearly

01.

RESEARCH

Our knowledge



Laboratories, the window of scientific expertise of excellence

The health cluster combines interdisciplinarity, academic excellence, innovation, and specialization around scientific projects of excellence with national and international influence.

The Research Federating Structure (SFR) Cap Santé gathers over twenty URCA laboratories whose thematic research areas focuses on health and including labeled units by, amongst others, ANSES, CNRS, INERIS, and INSERM.

The scientific expertise of the laboratories are wide: **infectious and pathogenic agents, biomaterials, biomolecules, bioresources, inflammation, extracellular matrix, oncology, cell plasticity, immune response, epithelial to mesenchymal transition (EMT)...**



Its goal is to promote a regional strategy in basic research and academic training in health. Highly supporting the emergence of new federating projects and hosting excellence research chairs, the SFR Cap Santé focuses on consolidating scientific quality and international projection.

The SFR Cap Santé is based on four major axes:

- ◆ **health / environment**
- ◆ **regeneration / ageing**
- ◆ **fragility / cognition / vulnerability**
- ◆ **technology / health**

The technological platforms, a force for research

The technological platforms aim to put the service of the research community high-level technological expertise: molecular analysis, animal house, cytometry, imaging, modeling, simulation, nanocharacterisation, supercalculator...

They supply equipment and applications in the field of health research: Centre Image, Nano'Mat, PICT, PLAnet, P3M, ROMEO, URCACyt, URCAAnim and Centers of Biological Resources (CRB).

02.

TRAINING

Our vocation

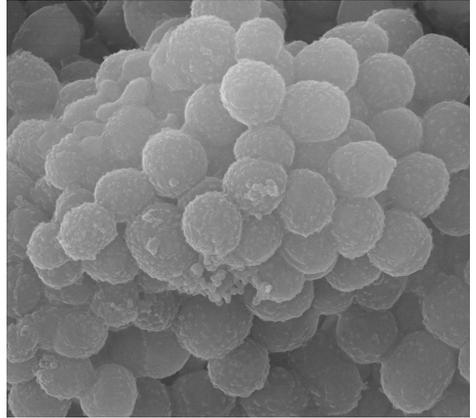


Within URCA coexist professionally targeted courses in health sector and university qualifications like License-Master-Doctorate (LMD) in areas as diverse as biology, biophysics, biochemistry, biomaterials, bioinformatics, psychology, sport...

◆ Graduate school "Basic Sciences and Health" (SFS)

This multidisciplinary graduate school (mathematics, physics, chemistry, biology, biotechnology, health and sport) brings together nearly one hundred PhD students in health, combining basic science with translational research. By facilitating research project integration linked to patient interest.

The graduate school SFS also provides PhD students with training in bibliometric, popularization of science, scientific valorization and ethics, both in animal experiments and in clinical trials.



- ◆ Faculty of Medicine
- ◆ Faculty of Dentistry
- ◆ Faculty of Pharmacy
- ◆ Faculty of Natural Science
- ◆ Faculty of Sciences and Technics of Physical and Spoil Activities
- ◆ Faculty of Arts and Humanities

- ◆ Master of Biology Health
- ◆ Master of Chemistry and Life Science
- ◆ Master of Medicinal Product Science
- ◆ Master of Public Health

03.

PARTNERSHIP

Our strength



Partnership in health is essential in order to always be more efficient and competitive at national and international level.

Basic, Clinical and Translational Research

> **CHU and CLCC: major local partners**



Collaborations with the Hospital-University Center (CHU) in Reims allow translational research development with funding of three common hospital-university research projects: protein and vascular ageing (VIVA); Research and innovation in inflammatory respiratory pathology (RINNOPARI); Social cognition and neurodevelopmental diseases (Ndev-X).



Godinot Institute (IG) is the Cancer Center (CLCC) of Reims.

> **CRB: critical tool for biomedical research**

There is three Centers of Biological Resources (CRB) shared between URCA, CHU and IG: Tumorothèque (tumor biobank), CRB Toxoplasma and CRB CHAR.

> **UTT: "Ageing well" partner**

On the initiative of University of Technology in Troyes (UTT), the Living Lab ActivAgeing (LL2A) designs and evaluates support solutions centered on human for elderly people autonomy.

Education, Research and Pedagogy

> **Establishment Network of Higher Education and Research in Champagne-Ardenne**

URCA is the leader of this ESR establishment network. The shared ambition is to highlight the academic, economic and scientific attractiveness while respecting each establishment's autonomy.

Actors of the ESR establishment network: AgroParisTech, CentraleSupélec, CESI Reims, CHU Reims, CNAC Châlons en Champagne, CNAM Grand Est, CREPS, CROUS Reims, EPF Troyes, ESAD, ESTP Paris, Y SCHOOLS, Institut Godinot, IRTS, NEOMA Business School, URCA, UTT.

Popularization of science and scientific animation

> **ACCUSTICA**

This association aims at promoting science, technology and innovation and making them accessible to everyone.

> **SFR CAP SANTÉ**

On a regular basis, the SFR Cap Santé organizes scientific animations and meetings in health.

Sponsoring and Territorial Communities

> **URCA Foundation**

It fosters institutional, industrial and financial partners as well as local citizens to invest together in the "University of Tomorrow".

> **Grand Reims and Grand Est**

These territorial communities are key economical URCA collaborators in order to promote development of excellence in research and training.

Industrial Research, Experimental Development

CARNOT Institute



Carnot Institute MICA gathers specialists of functional materials and also of surfaces and interfaces, from research up to application.

Regional Competitiveness clusters



Competitiveness cluster Alsace BioValley is an economic structure managed by and for industrial firms in health.

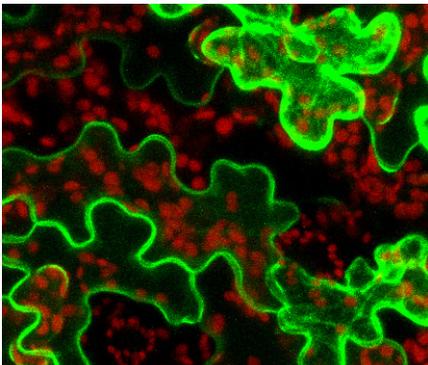


Competitiveness cluster MATERIALIA is the association of the players in the material and process sector.

SOCIETY OF TECHNOLOGY TRANSFER ACCELERATION



The SATT Nord is a structuring valorization tool in the service of researchers.



Structures for Innovation

GRAND E-NOV, THE REGIONAL AGENCY OF INNOVATION



The proposed services permit to cover a value chain from project of innovation feasibility up to placing on the market.

INNOVACT, THE INCUBATOR



This independent association is dedicated to promoting project of innovation emergence and placing on the market regardless their activity sector.

VILLAGE BY CA REIMS



True ecosystem focused on open innovation, it aims at promoting and supporting innovation in the heart of the region in order to increase the appeal of the territory.

CREATIV'LABZ, THE URCA INCUBATOR



The incubator of the University of Reims Champagne-Ardenne is supporting entrepreneurship projects and business start-ups led by students.

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