

CENTRE INTERNATIONAL DE RECHERCHE EN INFECTIOLOGIE – CIRI



UNDERSTANDING INFECTIOUS DISEASES TO BETTER CONTROL THEM

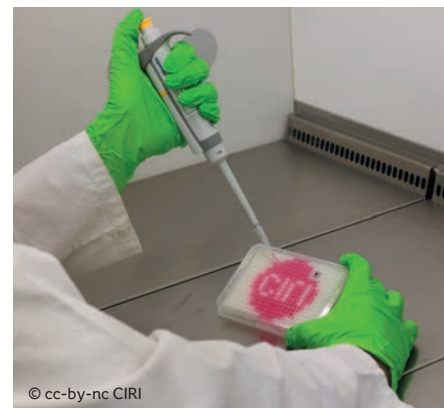
<http://ciri.ens-lyon.fr>

RESEARCH TOPICS

- VIROLOGY
- BACTERIOLOGY
- IMMUNOLOGY
- EPIDEMIOLOGY AND ECO-INFECTIOLOGY

CROSS-CUTTING THEMES

- LESSONS FROM THE DIVERSITY OF CLINICAL AND ENVIRONMENTAL STRAINS
- CELLULAR BIOLOGY OF INFECTIONS AND INNATE IMMUNITY
- HIGHLY PATHOGENIC VIRUSES IN HUMANS AND THEIR NATURAL RESERVOIRS
- INFLAMMATORY DISEASES
- IMMUNOTHERAPY AND VACCINATION



RESEARCH EQUIPMENT AND TOOLS

- BioSafety Level 3 laboratories and main user of the BSL4 Jean Mérieux laboratory
- Shared platforms UAR Biosciences (PBES animal facility/AniRA, imaging/ cytometry, vectorology, etc.)
- EquipEx+ InfectioTron
- National Reference Centers: viral hemorrhagic fevers, respiratory infections, staphylococci, legionella, etc.
- Study models: blood cells, mutant mice, humanized mouse

KEY FIGURES

staff including **43** researchers, **83** professors and assistant professors including **58** medical professors and assistant professors, **17** hospital practitioners, **76** PhD students, **30** post-doctoral fellows and **130** research support staff

Over 2015-2020:

More than 600 publications

25 prizes including: **1** Inserm Research Prize, **1** CNRS Bronze Medal, **2** Legions of Honor, **1** IUf

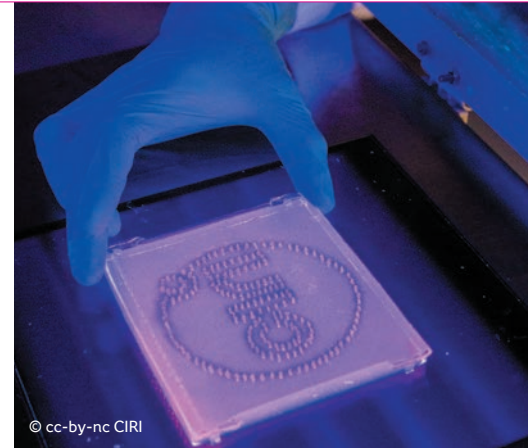
28 European funding (**5** ERC as coordinator), **120** national funding type ANRt (**60** as coordinator)

68 industrial contracts, **12** Cifre thesis, **3** public-private laboratories

80 intellectual properties: **27** patents filed, **13** licensed

TRL scale between **1** and **7-8**

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FROM THE LABORATORY TO THE SOCIO-ECONOMIC WORLD

- Laboratory for basic and translational research in immunology and microbiology (bacteriology and virology).
- Major player at the regional and/or national level in the diagnosis, prevention medicine and treatment of infectious and/or immune diseases.
- Strong roots in the local ecosystem interested in infectious diseases (HCL, VetAgroSup, Mérieux Foundation, Pasteur Institute, IRT BIOASTER, Lyonbiopôle, Sanofi, etc.)

FOCUS ON

Institutional partnership research

The RHU IdBIORIV (Hospital-University Research) is a transdisciplinary partnership between CIRI (StaPath Team directed by F Vandenesch), the Institute of Analytical Sciences and the Canadian company SCIEX.

It was founded as part of the national Investments for the Future program (PIA).

- > **Objective:** to develop – based on a proteomic approach – a sepsis diagnostic tool that can, in less than 60 minutes, identify the pathogen, characterize its antibiotic resistance profile and level of virulence.

Private partnership research

The start-up VAXXEL is working to develop a new intranasal pediatric vaccine.

Originating from the VirPath team, led by B Lina and M Rosa-Calatraua, this start-up was rewarded during the i-Lab 2019 competition.

- > **Objective:** to develop a vaccine directed against human metapneumovirus (hMPV) and respiratory syncytial virus (RSV), responsible for bronchiolitis and pneumonia, especially in infants.

Find out more: <https://uaxxel.fr>

Collaboration between Boehringer Ingelheim and T Walzer LYACTS team

- > **Objective:** to develop inhibitors of a molecule of the innate immune system, for the treatment of autoimmune and auto-inflammatory diseases.

CONTACT

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