INSTITUTE OF FUNCTIONAL GENOMICS OF LYON - IGFL

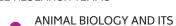


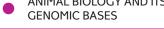
BASIC RESEARCH LABORATORY IN ANIMAL BIOLOGY

http://igfl.ens-lyon.fr/



RESEARCH TOPICS 12 RESEARCH TEAMS



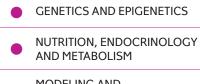


 ADAPTATION AND EVOLUTIONARY GENOMICS

MECHANISMS OF DEVELOPMENT AND REGENERATION

INTEGRATIVE PHYSIOLOGY

CROSS-CUTTING THEMES





EVOLUTION, ECOLOGY AND ENVIRONMENT



RESEARCH EQUIPMENT AND TOOLS

Equipment and platforms

- Confocal and digital microscopy, stereomicroscopy
- Histology
- High-throughput sequencing
- Transgenesis and genome engineering in animals
- Specialized animal houses: diversity of classic animal models (zebrafish, fruit flies and mice) and emerging animal models (semi-aquatic insects and crustaceans)

KEY FIGURES

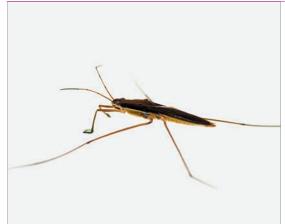
96 staff including 30 researchers, 13 PhD students, 14 postdoctoral fellows and 39 research support staff

Over the last 5 years:

30	prizes and distinctions including 2 CNRS crystal medals, 1 IUF and 1 Sanofi Pasteur prize
187	publications
80	public funding including 4 ERC, 2 Horizon 2020, 30 ANR
15	private financing
Intellectual property:portfolio of 6 patents, 4 third-party operating licenses,1 know-how	
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- start-up in incubation: Lipics
- TRL scale between 1 and 4

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FOCUS ON

Institutional partnership research

- Collaborations with many institutions abroad: Uppsala University (Sweden), University of Toronto (Canada), University of Tokyo (Japan), University of Massachusetts Medical School (USA), Humboldt University and Heidelberg University (Germany), Indian Institute of Science Education and Research (India).
- The IGFL also participates in the Marie Curie Training Network EuoCELL.

• Private partnership research

- **Collaboration between the company SILAB** and the team «Matrix Biology and Pathology» for the analysis of the matrisome of subpopulations of human dermal fibroblasts.
- **Collaboration between Boehringer Ingelheim** and the «Integrative physiology of host-microbes interactions» team to develop animal health.
- **Collaboration between Enyo-Pharma** and the «Ontogenesis and molecular interactions» team based on the analysis of protein-protein interactions in vivo.

Services provided

- Scientific and technical expertise in biology (molecular, cellular, animal, comparative, environmental), biochemistry, physiology, bacteriology, bioinformatics and modeling.
- Services provided by IGFL platforms associated with the development of Next Generation Sequencing (NGS), Imaging and Data Analysis technologies.
- **Provision of services for CLARINS** by the «Matrix Biology and Pathology» team for the for the development of a vascularized skin substitute with compartmentalized dermis: impact of papillary and reticular microenvironments (CIFRE thesis).

FROM THE LABORATORY TO THE SOCIO-ECONOMIC WORLD

- When working with others, many studies rely on the equipment and know-how of teams and platforms.
- The IGFL provides expertise in genetics (genome engineering), endocrinology (endocrine disruptors), extracellular matrix (tissue regeneration), circadian rhythms or the microbiota.
- These themes have applications in the fields of cosmetics, animal and human health.

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