

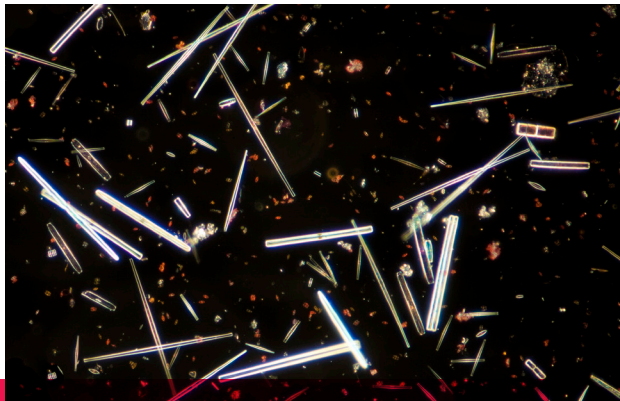


André Le Bivic,
Director of the CNRS Institute of
Biological Sciences (INSB)

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Deciphering the complexity and diversity of life

To explore, to describe living things, and to decipher how they work, the INSB encourages high risk research driven by curiosity. We promote inter-disciplinarity, new technological developments and international collaborations. The Institute has thus become a major actor in the advance of biological sciences on the world stage.



Marine diatoms collected during the Tara Expedition.

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KEY FIGURES

About

13 000
Permanent staff

210

Joint research labs
and platforms in France

4 304

PhD students
and postdoctoral
fellows

266

Start-ups

45

International
Research Projects

2

International Research
Laboratory

14

International
Research Networks

191

European Research
Council (ERC) Awardees

18

International Emerging
Actions

Institute of biological sciences

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Cover picture : Pyramidal neurons in a «Brainbow» mouse cortex
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INSB INSTITUTE OF BIOLOGICAL SCIENCES

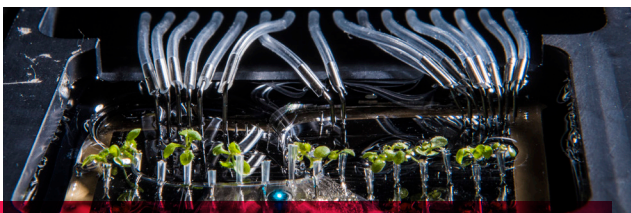


RESEARCH AREAS

- Molecular and structural biology, biochemistry
- Organization, expression, and evolution of genomes. Bioinformatics and systems biology
- Cell biology, development, and evolution
- Integrative plant biology
- Physiology, ageing, tumorigenesis
- Cellular and molecular neurobiology, neurophysiology
- Brain, cognition and behavior
- Host-pathogen interactions, immunology, inflammation
- Pharmacology, bioengineering, imaging techniques, biotechnology

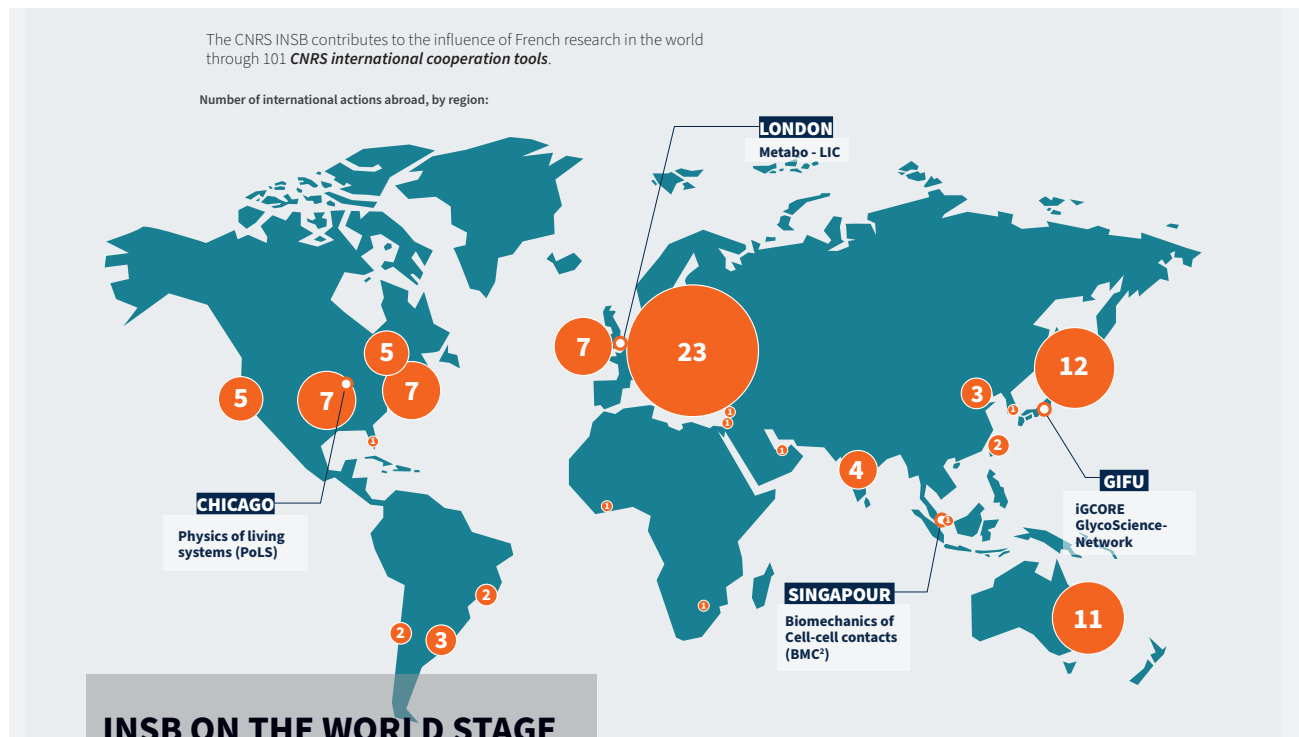
BIOLOGY: A CHALLENGE OF THE 21ST CENTURY THAT WILL NOT BE SOLVED BY BIOLOGISTS ALONE

The life sciences have experienced major advances in recent years thanks to the development of new technologies. From now on, the study of life occurs on multiple scales and calls on a large set of disciplines represented within the CNRS itself, including mathematics, physics, chemistry, robotics, computer science, environmental sciences, cognitive sciences and social sciences, as many disciplines represented within the CNRS itself. The INSB is nourished by the interdisciplinarity which is at the heart of the CNRS.



A microfluidic platform. «Arabidopsis thaliana» seedlings are placed in tubes connected to a microfluidic «chip».

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INSB ON THE WORLD STAGE

The integration of the INSB laboratories into the European Research Area, and more broadly into the world scene, is a priority for the institute. More than half of CNRS publications are co-signed with collaborators based abroad.

INNOVATION

The INSB is today a recognized partner of companies in the fields of health, environment and energy. Our scientific work is supported by the CNRS Prematuration Program and carried out in collaboration with the business world. These works lead to the creation of start-ups, and are the source of many patents. This is how the Institute contributes to the development of innovative applications that meet the challenges of the current and future world.

STRATEGIC PRIORITIES

The INSB has successfully contributed to the progress in the biological sciences, as evidenced in particular by the flagship publications of its laboratories, the distinctions of its researchers and their success in European calls for tender. Its strategy is based on:

- Encouraging risk-taking
- Long-term support for the projects of its laboratories
- The emergence of new teams through the ATIP / Avenir program
- Encouraging interdisciplinary research carried out at the intersections with biology
- Investing in the development of national and European networks of high-performance platforms
- Support for international collaborative projects