

## Institute for **Advanced Biosciences**

### Inserm **JUNIOR CHAIR** Institute for **Advanced Biosciences – Grenoble, France**

#### **Missions**

- Define, organize, animate and promote an original research project within IAB scientific strategy, matching its keywords "epigenetics-environment-cellular plasticity-cancer" as described below;
- Implement the project to produce, use and disseminate knowledge in compliance with Inserm missions and values based on responsible research conduct and ethical and regulatory requirements. strategy
- Contribute to academic education in the areas covered by the project

#### **Main activities**

- Design the research project; seek funding and support for its realization
- Organize its implementation in time and the programming of the necessary material means
- Be responsible for the validation of results and scientific integrity
- Disseminate and promote results and the corresponding intellectual property in the form of publications, communications in international congresses, and/or in the form of patents and industrial partnerships
- In collaboration with academics of the IAB, contribute to education and teaching in domains relevant to the project through formal intra-curricular university teaching and/or through extracurricular "summer-school" initiatives

#### **Associated activities**

- Supervise and train postdoctoral, doctoral, graduate students and technical staff in the execution of the project; carry out managerial tasks associated with supervisory duties (staff appraisals, career development assistance);
- Contribute to and/or coordinate research collaborations within IAB as well as locally, nationally and internationally;
- Contribute to the development of shared technological know-how, in particular by participating in the development of technical facilities at IAB;
- With the support of IAB admin/finance team, ensure the proper use of the funds allocated to the project in compliance with deadlines and procedures.

#### **Expectations**

- Recognized scientific expertise in his discipline
- Knowledge of the research environment at national and international level and mastery of regulatory, ethical and deontological aspects
- Minimum knowledge (initiation level) of the conduct and management of projects



(setting objectives, organizing, prioritizing, leading, evaluating)

- Ability to develop collaborations and communicate in French and English
  - Scientific, ethical and behavioral rigor
- Sensitivity to translational research and application in health, to dialogue with doctors and with patients

## Priority research themes

### 1. Strategy of the Institute for the Advancement of Biosciences (IAB)

IAB develops fundamental and translational research programs with a focus on understanding the molecular and cellular mechanisms by which organisms develop and adapt to the constraints of their environment at all scales of the living (from the molecule to the ecosystems). This strategy is based on 4 keywords: epigenetics, environment, cell plasticity and cancer. IAB brings together 18 teams and research groups supported by 6 platforms and technical platforms (300 staff). Located on the health campus in Grenoble (next to University hospital CHUGA) , IAB is positioned as a link between the fundamental and mechanistic research potential of the site and application to health, through a strong translational and valorization strategy. The main points of application in health are cancers, infectious diseases (viruses and parasites), pathologies of infertility and prevention of environmental exposures in early life. IAB develops a rich network of close collaboration with research centers of the Grenoble site, in particular EMBL, IBS and UGA molecular chemistry and physics departments.

### 2. Priority themes

The project will aim to develop original approaches to study the **interactions between the dynamics of the epigenome, cellular metabolism and the cellular and mechanical microenvironment**. The project will aim to contribute to a better understanding of the processes that control cellular plasticity and their deregulation during pathologies such as cancer. In addition to a solid fundamental component, the project must offer a translational dimension (discovery of biomarkers, new therapeutic targets, experimental therapies...). Two important criteria are (1) originality and relevance of experimental models and effective capacity to implement them; (2) consistency of the project with the strategic themes carried by the departments and teams of the IAB.

**Financial summary:** using the attached financial form, describe the financial needs and their distribution to carry out the scientific project (doctoral student, post-doctoral student, IT, equipment, etc.)

ANR funding package	200 000 €
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## Contacts and further information

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