



## ATIP–Avenir Program 2024

### Young group leader

#### Objectives

In the context of a partnership, Inserm and CNRS launch every year a call for proposals aimed at:

- **Facilitating young researchers in establishing and heading their own research team** within an established Inserm or CNRS (Institute of biological sciences) laboratory in France. The ATIP-Avenir teams will contribute to the advancement of research in the host unit while simultaneously **pursuing independently their own scientific project**.
- **Promoting mobility** and attracting talented early-career scientists to assume leadership roles.

**The ATIP-Avenir grant** is allocated for a duration of **5 years**.

The program is open to young scientists, regardless of their current position or nationality, who possess 2 to 8 years of experience since obtaining their PhD or equivalent doctoral degree (PhD defence between September 15, 2015 and September 15, 2021)<sup>1</sup>. Successful applicants are required to conduct their projects within a structure in which he/she has not been working for more than 18 months<sup>2</sup> and will not find any prior mentors from their PhD and/or post doctorate. Candidates who have received grants similar to the ATIP-Avenir program (e.g. ANR JCJC or ERC programs to manage a research group) are not eligible. While ATIP-Avenir laureates can apply to similar programs, they cannot combine funding from programs similar to ATIP-Avenir.

Applicants are limited to applying for a maximum of two different ATIP-Avenir calls.

Projects must relate to Life sciences or Health. The contract will have to begin during the first half of 2025.

Clinicians are encouraged to submit applications. Projects must comply to the ethical guidelines established by Inserm and CNRS.

#### Funding:

Package for 5 years including:

- Annual grant of € 60,000
- Two-year salary for a postdoctoral researcher or an engineer.
- Five-year salary for non-tenured laureates.

A mid-term report must be provided.

The host laboratory will provide a dedicated research area of approximately 50m<sup>2</sup>, with infrastructures costs covered by the host lab. Additionally, the team will have access to the local technological facilities. Candidates have the option to submit their proposal without having identified a host laboratory at the time of application.

#### Potential partners for the co-funding of projects in their scientific areas

ANRS-MIE (Agence nationale de recherches sur le sida et les hépatites virales – Maladies Infectieuses Emergentes), AFM-Téléthon (Association française contre les myopathies), ARC (Fondation pour la recherche sur le cancer), FINOVI (Fondation innovations en infectiologie), la Fondation Bettencourt Schueller, LNCC (Ligue nationale contre le cancer), Stratégie décennale de lutte contre les cancers 2021-2030, IdEx et I-SITE .

#### Selection procedure

Applications will be assessed by specialized international scientific committees composed of experts in the relevant fields<sup>3</sup>:

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions
- LS2 Integrative Biology: from Genes and Genomes to Systems
- LS3 Cell Biology, Development and Evolution
- LS4 Physiology in Health, Disease and Ageing
- LS5 Neurosciences and Neural Disorders
- LS6 Immunity, Infection and Microbiology
- LS7 Diagnostic tools, Therapies, Biotechnology and Public Health

Two rounds of selection are applied: initial shortlisting will take place in April 2024 and interviews of the selected applicants in May 2024. CNRS and Inserm will finalize the list of laureates in early July 2024.

The **deadline** for submitting applications is **November 16, 2023**

Applications must be submitted electronically at:

<https://sp2013.inserm.fr/sites/eva/appels-a-projets/Pages/Atip-Avenir.aspx>

<sup>1</sup> Exceptions can be granted for maternity (12 months per child), paternity, military service leaves, and for clinicians (laureates from the École de l'Inserm Liliane Bettencourt...)

<sup>2</sup> Exceptions can be granted to teachers and medical doctors affiliated with university hospitals

<sup>3</sup> Topics of research covered by these juries on the following page online

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## **ATIP-Avenir Evaluation panels with the covered fields of research**

### **LS1 Molecules of Life: Biological Mechanisms, Structures and Functions:**

Macromolecular complexes including interactions involving nucleic acids, proteins, lipids and carbohydrates  
Biochemistry  
DNA and RNA biology; Protein biology; Lipid biology  
Glycobiology  
Molecular biophysics (e.g. single-molecule approaches, bioenergetics, fluorescence)  
Structural biology and its methodologies  
Molecular mechanisms of signalling processes  
Synthetic biology  
Chemical biology  
Protein design  
Innovative methods and modelling in molecular, structural and synthetic biology

### **LS2 Integrative Biology: from Genes and Genomes to Systems:**

Genetics; Gene editing  
Epigenetics; Gene regulation  
Genomics; Metagenomics  
Transcriptomics; Proteomics; Metabolomics  
Glycomics; Lipidomics  
Bioinformatics and computational biology;  
Systems biology  
Biostatistics  
Genetic diseases  
Innovative methods and modelling in integrative biology

### **LS3 Cell Biology, Development and Evolution:**

Cell cycle, cell division and growth  
Cell senescence, cell death, autophagy and cell ageing  
Cell differentiation, physiology and dynamics  
Cell behaviour, cell shape and cell migration  
Cell junctions, cell adhesion, cell communication and the extracellular matrix  
Organelle biology and trafficking  
Functional imaging of cells and tissues  
Tissue organisation and morphogenesis  
Mechanobiology of cells, tissues and organs  
Stem cell and organoid biology  
Developmental and evolutionary genetics  
Evolution of developmental mechanisms and strategies

### **LS4 Physiology in Health, Disease and Ageing:**

Organ and tissue physiology and pathophysiology; Comparative physiology  
Physiology of ageing  
Endocrinology  
Microbiome and host physiology  
Nutrition and exercise physiology  
Influence of stress (including environmental stress) on physiology  
Metabolism and metabolic disorders, including diabetes and obesity  
The cardiovascular system and cardiovascular diseases  
Hematopoiesis and blood diseases  
Cancer  
Non-communicable diseases (except for neural/psychiatric and immunity-related diseases)

### **LS5 Neurosciences and Neural Disorders:**

Neural cell function, communication and signalling, neurotransmission in neuronal and/or glial cells  
Systems neuroscience and computational neuroscience  
Neuronal development, plasticity and regeneration  
Sensation and perception  
Neural bases of cognitive processes  
Neural bases of behaviour  
Neurological disorders  
Neuroimmunology, neuroinflammation  
Psychiatric disorders  
Neurotrauma and neurovascular conditions  
Imaging in neuroscience  
Attention, perception, action, consciousness  
Learning, memory; cognition in ageing  
Reasoning, decision-making; intelligence  
Innovative methods and tools for neuroscience

### **LS6 Immunity, Infection and Microbiology:**

Innate immunity  
Adaptive immunity  
Regulation of the immune response  
Immune-related diseases  
Biology of pathogens (e.g. bacteria, viruses, parasites, fungi)  
Mechanisms of infection and infection diseases  
Biological basis of prevention and treatment of infection (e.g. infection natural cycle, reservoirs, vectors, vaccines, antimicrobials, antimicrobial resistance)  
Innovative immunological tools and approaches, including therapies

### **LS7 Diagnostic tools, Therapies, Biotechnology and Public Health:**

Medical imaging for prevention, diagnosis and monitoring of diseases  
Medical technologies and tools (including genetic tools and biomarkers) for prevention, diagnosis, monitoring and treatment of diseases  
Pharmacology and toxicology  
Nanomedicine  
Applied gene, cell and immune therapies; Resistance to therapies  
Regenerative medicine  
Analgesia and surgery  
Epidemiology and public health  
Environmental health, occupational medicine  
Health services, health care research, medical ethics  
Digital medicine, e-medicine, medical applications of artificial intelligence