

ATIP – Avenir Program 2023

Young group leader

Important dates

- **October 17th 2022** : opening of the registrations online
- **November 22nd 2022**: deadline for the online submission and the letters of recommendation
- **Mid-April 2023**: publication of the short list of candidates to be interviewed
- **June 16th to 18th 2023**: interviews of the selected applicants
- **July 2023**: publication of the final list of laureates
- **From January 2024**: Start of the contract

Summary

- A- Eligibility and evaluation criteria
- B- Elements for the application
- C- Scientific file
- D- ATIP-Avenir evaluation panels and fields of research covered by the respective panels

Contacts

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A- Eligibility and evaluation criteria:

Eligibility

ATIP-Avenir grants are open to researchers of any nationality who may reside in any country in the world at the time of application.

Projects must be developed within an Inserm and/or CNRS (Institute of biological sciences) host laboratory in France. **An identified host lab is not a pre-requisite for applying for the program.**

Applicants must have defended their PhD (or equivalent doctoral degree) for over 2 years and under 8 years (PhD between September 15th, 2014 and September 15th, 2020)

The projects have to be developed within a Unit in which the applicant:

- has not been working for more than 18 months (reference date: September 15th, 2022)
- will not find any previous mentors (of PhD and/or post doctorate).

Laureates of a grant for the young researchers similar to the ATIP-Avenir program are not eligible (e.g. ANR programs to start an independent research group or ERC grants). However laureates with an ANR program are eligible to an ATIP-Avenir grant if their ANR contract is finished and if they develop their project in another lab. ATIP-Avenir laureates can candidate to similar programs, but cannot cumulate fundings for programs similar to ATIP-Avenir.

Applicants cannot apply for more than two different calls.

Exemptions

Medical doctors

For medical doctors, an MD will not be accepted by itself as equivalent to a PhD award. To be considered eligible, medical doctors (MDs) need to provide the certificates of both basic studies (MD) and a PhD or proof of an appointment that requires doctoral equivalency (e.g. post-doctoral fellowship, professorship appointment). Additionally, candidates must also provide information on their research experience (including peer reviewed publications) in order to substantiate the equivalence of their overall training to a PhD. The MD completion should be within the last 10 years instead of 8 years.

Clinical training

For clinicians (Ecole de l'Inserm Liliane Bettencourt,...) extension will be considered according to the documented amount of clinical training received by the Principal Investigator after the award of the first eligible degree and until the call deadline.

Teachers (MCU, MCU-PH, PU, PU-PH)

For teachers, the rule that the project has to be developed within a structure in which the scientist has not been working for more than 18 months does not apply.

Leaves

For maternity, the effective elapsed time since the award of the PhD will be reduced by 18 months for each child before or after the PhD award.

For paternity, the effective elapsed time since the award of the PhD will be reduced by the amount of paternity leave actually taken for each child born before or after the PhD award.

For national service, the effective elapsed time since the award of the PhD will be reduced by the amount of leave actually taken after the PhD award.

Evaluation

Scientific excellence is the sole criterion on the basis of which ATIP-Avenir grants are awarded. However, candidates should be able to show their early achievements attested by significant publications (as main author) in major international peer-reviewed multidisciplinary scientific journals, or in the leading international peer-reviewed journals of their respective field.

Evaluation criteria:

- Quality of the applicant (background and publications)
- Scientific quality of the research proposal (originality of the project and suitability of the proposed methodology)
- Quality of the management (ability of the applicant to manage the project and a team)

B- Elements for the application:

1- CV

2- **Form** to be filled in online

3- **Scientific file** containing the description of your research project

4- **Two letters of recommendation** (written in English, stating the ability of the candidate to conduct his/her own research project should be sent directly by their authors by e-mail to: atip-avenir@inserm.fr)

5- **Host laboratory and host university** document (if identified, not mandatory)

6- **PhD diploma**

Registration through the Submission Website is mandatory. : <https://www.eva3.inserm.fr/login>

All the documents and forms must be written in English

C- Scientific file

- **Summary of the research project**

- **Research project**

Your document (no more than 10 pages, Arial 10, figures included and references not included) should adhere to the following format:

- State of the art and proposed work (must be backed up by references that include the major relevant publications)
- Experimental approaches to be used
- Originality and feasibility of the project
- Expected results
- Expected applications in the medical, social, economic and technological domains
- Expected collaborations (mandatory)
- Work plan for a period of 3 first years / gantt chart

Formatting references: please use the reference style outlined by the International Committee of Medical Journal Editors (ICMJE), also referred as the “Vancouver” style (title and list of all authors).

- **Your publications limited to accepted publications / invited conferences/**

For each reference, give the full name and initials of each author in the exact order, full title, name of journal, year of publication, volume number, first and last pages

D- ATIP-Avenir Evaluation panels and fields of research covered by the respective panels

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
Impact of stress (including environmental stress) on physiology
Metabolism and metabolic disorders, including diabetes and obesity
The cardiovascular system and cardiovascular diseases
Haematopoiesis 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