



# ATIP – Avenir Program 2019

## Young group leader

### Important dates

- **October 15th (4 pm) 2018** : opening of the registrations online
- **November 15<sup>th</sup> 2018**: deadline for the online submission and the letters of recommendation
- **Mid-April 2019**: publication of the short list of candidates to be interviewed
- **Mid-June 2019**: interviews of the selected applicants
- **July 2019**: publication of the final list of laureates
- **From January 2020**: 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 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 10 years (PhD between 15 September 2008 and 15 September 2016).

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

- has not been working for more than 18 months
- 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 12 years instead of 10 years.

#### 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 1 year 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: Christiane Durieux: [atip-avenir@inserm.fr](mailto: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
- Work plan for a period of 3 first years

**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 Molecular and Structural Biology and Biochemistry:**

Physico-chemical and biochemical studies of the interactions between macromolecules  
Study of *in vivo* assembly of macromolecules in biological processes  
DNA biosynthesis, modification, repair and degradation  
RNA synthesis, processing, modification and degradation  
Protein synthesis, modification and turnover  
Biochemistry of signal transduction  
Biochemistry and physiology of microorganisms  
Biophysics  
Structural biology (crystallography, NMR, EM) of single molecules or interacting partners  
Computer modelling of 3D structures, reactivity predictions and molecular dynamics

### **LS2 Genetics, Genomics, Bioinformatics and Systems Biology:**

Genomics, comparative genomics, functional genomics  
Transcriptomics  
Proteomics  
Metabolomics  
Glycomics  
Molecular genetics, reverse genetics and RNAi  
Quantitative genetics  
Epigenetics and gene regulation  
Genetic epidemiology  
Bioinformatics  
Computational biology  
Biostatistics  
Systems biology  
Biological systems analysis, modelling and simulation  
Study of genome dynamics, gene transfer between unrelated species  
Systems microbiology and modeling  
Synthetic biology and new bio-engineering concepts  
Systems Evolution, biological adaptation, phylogenetic, systematics  
Biodiversity, comparative biology

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

Morphology and functional imaging of cells  
Cell biology and molecular transport mechanisms  
Cell cycle and division  
Apoptosis  
Cell differentiation, physiology and dynamics  
Organelle biology  
Cell signalling and cellular interactions  
Signal transduction  
Development, developmental genetics, pattern formation and embryology in animals or plants  
Stem cell biology  
Evolution of developmental mechanisms

### **LS4 Physiology, Pathophysiology and Translational Research:**

Organ physiology  
Comparative physiology  
Endocrinology  
Ageing

Metabolism, biological basis of metabolism related disorders  
Cancer and its biological basis  
Cardiovascular diseases  
Non-communicable diseases (except for neural/psychiatric and immunity-related disorders)

#### **LS5 Neurosciences and Disorders of the nervous system:**

Molecular and cellular neurobiology  
Neuroanatomy and neurosurgery  
Neurophysiology  
Neurochemistry and neuropharmacology  
Sensory systems  
Mechanisms of pain  
Developmental neurobiology  
Cognition (e.g. learning, memory, emotions, speech)  
Behavioural neuroscience (e.g. sleep, consciousness, handedness)  
Systems neuroscience  
Neuroimaging and computational neuroscience  
Neurological and psychiatric disorders

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

Innate immunity  
Adaptive immunity  
Phagocytosis and cellular immunity  
Immunosignalling  
Immunological memory and tolerance  
Immunogenetics  
Mycology, Virology, Bacteriology, Parasitology: Interaction of microorganisms with their environment  
Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics, fungicide)  
Biological basis of immunity-related disorders  
Allergy  
New targets for drug development, resistance to drugs

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

Medical engineering and technology  
Diagnostic tools (e.g. genetic, imaging)  
Pharmacology, pharmacogenomics, drug discovery and design, drug therapy  
Analgesia  
Toxicology  
Gene therapy, stem cell therapy, regenerative medicine  
Surgery  
Radiation therapy  
Genetic engineering, transgenic organisms, recombinant proteins, biosensors  
Biotechnology, bioreactors, applied microbiology  
Health care research epidemiological, bio-statistical, human, economic and social sciences research about social determinants of health  
Public health and epidemiology  
Environment and health risks including radiation  
Occupational medicine  
Medical ethics  
Health services research