

### Objectives

Under a partnership between Inserm and CNRS, a call for proposals is launched aimed at:

- **Enabling young scientists to create and lead a team** within an established laboratory in France. The ATIP - Avenir teams will strengthen the research of the host units but will develop **independently their own scientific project**.
- **Promoting mobility** and attracting young team leaders of high-level working abroad.

**The ATIP - Avenir grant** is allocated for a period of 3 years. After evaluation, it can be extended for an additional 2 years.

It is open to any young scientists, whatever their present position and nationality, who have defended their PhD (or equivalent doctoral degree) within the last 10 years (after October 29, 2002)<sup>1</sup>. Successful applicants will have to develop 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 previous mentors (of PhD and/or postdoctorate). Laureates of a grant for the young researchers similar to the ATIP-Avenir program are not eligible (e.g. "Young investigator" or "Chairs of Excellence" ANR programmes or "ERC Starting Grant").

Projects must relate to Life sciences or Health. The interdisciplinary projects allying the biology to the mathematics, physics, informatics, chemistry, public health (more specifically economic and social sciences research about social determinants of health), will be examined with a particular attention. Applications from clinicians and qualified women are strongly encouraged.

### Funding: minimum € 280,000 for the 3 years

- Annual grant of € 60,000.
- Two-year salary for a postdoctoral researcher.

In addition, non-tenured successful applicants are guaranteed a monthly gross salary of € 3,500 (before tax deduction).

The host laboratory will provide the team with a dedicated research area of about 50m<sup>2</sup> and access to the local technological facilities.

Applicants may submit their proposal without an identified host laboratory but must then in parallel contact Inserm and/or CNRS to help identifying a suitable scientific environment.

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

ANRS (Agence nationale de recherches sur le sida et les hépatites virales), AFM (Association française contre les myopathies), ARC (Association pour la recherche sur le cancer), ARD (Association pour la recherche sur le diabète), ARIIS (Alliance pour la recherche et l'innovation des industries de la santé), les conseils généraux et régionaux, DGA (Délégation générale à l'armement), EFS (Etablissement français du sang), France Rhumatismes, la fondation Bettencourt Schueller, les hôpitaux, INCa (Institut national du cancer), les laboratoires Pierre Fabre, LNCC (Ligue nationale contre le cancer), MILDT (Mission interministérielle de lutte contre la drogue et la toxicomanie), Plan Cancer 2009-2013, Sanofi, les universités.

### Selection procedure

Applications will be assessed by specialized international scientific committees with appropriate experts<sup>3</sup>:

- LS1 Molecular and Structural Biology, and Biochemistry;
- LS2 Genetics, Genomics, Bioinformatics and Systems Biology;
- LS3 Cell Biology, Development and Evolution;
- LS4 Physiology, Pathophysiology and Translational Research;
- LS5 Neurosciences and Disorders of the nervous system;
- LS6 Immunity, Infection and Microbiology;
- LS7 Diagnostic tools, Therapies, Biotechnology and Public Health.

The selection will be done in two stages: shortlisting in April 2013 and interviews of the selected applicants in June 2013. The final list of laureates and their host laboratories will be established jointly by Inserm and CNRS early July 2013.

### Applications must be submitted in electronic form<sup>4</sup> before **November 29<sup>th</sup> 2012**

Proposals should be submitted on-line at:

[https://www.eva2.inserm.fr/EVA/jsp/AppelsOffres/ATIP-AVENIR/index\\_INSERTM\\_CNRS.jsp](https://www.eva2.inserm.fr/EVA/jsp/AppelsOffres/ATIP-AVENIR/index_INSERTM_CNRS.jsp)

<sup>1</sup> Exceptions can be granted for maternity (one year per children) or military service leaves

<sup>2</sup> Exceptions can be granted to teachers from university hospitals

<sup>3</sup> Consult the themes of research covered by these juries following page

<sup>4</sup> Consult the guide for applicants available online

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### Further information can be obtained from

Inserm  
Christine Guillard and/or Christiane Durieux  
[atip-avenir@inserm.fr](mailto:atip-avenir@inserm.fr)

or CNRS  
Catherine Cavard  
[atip-avenir@cnrs-dir.fr](mailto:atip-avenir@cnrs-dir.fr)

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## 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  
Cell genetics  
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