ATIP – Avenir Program
Young group leader

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 Inserm or CNRS 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 September, 15^{h}, 2004)[1]. Successful applicants will have to develop their projects within a structure in which he/she has not been working for more than 18 months[2] and 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 or ERC programs to manage a research group). No more than two applications are allowed.

Projects must relate to Life sciences or Health. The interdisciplinary projects combining biology and 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. Projects should comply with ethics rules of Inserm and CNRS.

Funding:

- Annual grant of € 60,000
- Two-year salary for a postdoctoral researcher.
- Monthly gross salary of € 3,600 (before tax deduction) for 3 years for non-tenured successful applicants.

The host laboratory will provide the team a dedicated research area of about 50m² (infrastructures fees will be paid by the host lab) 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.

Selection procedure

Applications will be assessed by specialized international scientific committees with appropriate experts[3]:

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 2015 and interviews of the selected applicants in June 2015. The final list of laureates and their host laboratories will be established jointly by Inserm and CNRS early July 2015.

Applications must be submitted in electronic form[4] before November 27th 2014

Proposals should be submitted on-line at:
https://www.eva2.inserm.fr/EVA/jsp/AppelsOffres/ATIP-AVENIR/index_INSERM_CNRS.jsp

[1] Exceptions can be granted for maternity (one year per children) or paternity and/or military service leaves
[2] Exceptions can be granted to teachers from university hospitals
[3] Consult the themes of research covered by these juries following page
[4] The elements for the application are already available online

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Further information can be obtained from

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or CNRS
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Potential partners for the co-funding 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 (Fondation ARC pour la recherche sur le cancer), FINOVI France Rhumatismes, la fondation Bettencourt Schueller, LNCC (Ligue nationale contre le cancer), MILDT (Mission interministérielle de lutte contre la drogue et la toxicomanie), Plan Cancer, Sanofi, les universités.

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