ATIP – Avenir Program

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 October 29, 2003). Successful applicants will have to develop their projects within a structure in which he/she has not been working for more than 18 months 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"). No more than two applications are allowed.

Projects must relate to Life sciences or Health. The interdisciplinary projects alllying 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:

- 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 € 3,600 (before tax deduction) for 3 years.

The host laboratory will provide the team with 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.

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), 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.

Selection procedure

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

- 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 2014 and interviews of the selected applicants in June 2014. The final list of laureates and their host laboratories will be established jointly by Inserm and CNRS early July 2014.

Applications must be submitted in electronic form before November 29th 2013

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

1 Exceptions can be granted for maternity (one year per children) 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 Consult the guide for applicants available online

Further information can be obtained from

Inserm
Christine Guillard and/or Christiane Durieux atip-avenir@inserm.fr

or CNRS
Catherine Cavard atip-avenir@cnrs-dir.fr
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

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

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