

Institute for **Advanced Biosciences**

GROUP LEADER OPPORTUNITIES AT THE INSTITUTE FOR ADVANCED BIOSCIENCES, GRENoble, FRANCE



The Institute for Advanced Biosciences, a joint research center of INSERM, CNRS and University Grenoble Alpes, is seeking outstanding individuals who wish to pursue their careers as *Group Leader* within the Institute. International applicants are invited in all areas matching the thematic focus of the Institute: Epigenetics, Chronic Diseases and Cancer (for a description of IAB thematic priorities, see at iab.univ-grenoble-alpes.fr).

IAB currently hosts 19 teams, organized in 3 departments: *Signaling through Chromatin* (leader: S KHOCHBIN), *Microenvironment & Cell Plasticity* (leader: C. ALBIGES-RIZO) and *Prevention & Therapy of Chronic Diseases* (Leader: R. SLAMA). The main scientific areas of IAB research includes chromatin biology, epigenetics, infertility, human genetics, cell biology, micro-environment and mechanotransduction,, molecular pathology, nanomedicine, infections and immunity, parasitology and environmental epidemiology.

Successful applicants must have a MD and/or PhD, significant Post-Doctoral experience and a substantial scientific track record, demonstrating originality and capacity to attract competitive funding. Applicants should provide a cover motivation letter; short CV, Resarchgate/Orcid ID or short publication list; brief summary of scientific achievements (1 page) and a short letter of intent outlining future research projects (1-2 pages).

For applications and inquiries, please contact Mrs Amelie FAUCONNET at amelie.fauconnet@univ-grenoble-alpes.fr and (for inquiries only) IAB director and team leaders (see: <https://iab.univ-grenoble-alpes.fr/research?language=en>).

Deadline : 31 March 2019

IAB IMPLEMENTS EQUAL OPPORTUNITY POLICIES

Site Santé
Allée des Alpes
38700 La Tronche

Tél. : 33 (0)4 76 54 94 49
Fax : 33 (0)4 76 54 94 54
iab.univ-grenoble-alpes.fr



Context

IAB is a Research Center jointly supported by CNRS (France largest research organization), Inserm (national institute of health and medical research) and University Grenoble-Alpes (UGA), in relation with Grenoble Alpes University Hospital (CHUGA) and French Blood Transfusion Center (EFS). It is part of one of the most renowned and active R&D communities in France (Grenoble 5th most innovative city in the world, Forbes 2013). It comprises 19 teams and 4 core facilities (320 staff). The strategy of IAB is to integrate a strong critical mass in basic, translational and innovation research in order to develop ambitious projects addressing the molecular, cellular and systemic mechanisms that drive reproduction, development and progression of chronic diseases and cancer. This vision is encompassed in the thematic focus “Genetics, Epigenetics, Chronic Disease and Cancer”. An additional key word in this vision is “environment”, including different scales from cellular microenvironment to environmental exposures and lifestyle factors impacting health..

Major research outputs by IAB scientists include:

- New genes involved in infertility (Christou-Kent et al. EMBO Mol Med 2018, Dong et al., Am J Hum Genet 2018, Martinez et al., Human Reprod.,2018, Kherraf et al., Am J Hum Genet 2018, Coutton et al. Nat Commun 2018)
- Placental DNA methylation changes in relation to early-life air pollution exposure (Abraham et al., Environ Int, 2018)
- Description of the exposome of pregnant women from the EU and their children (Haug et al., Environ Int 2018)
- Impact of endocrine disruptors on respiratory health (Vernet et al, Env Health Perspect, 2017).
- Mechanisms of histone disappearance during spermatogenesis (Barral et al., Mol Cell 2017)
- Packaging DNA factor involved in aggressive cancers (Shiota et al., Cell Rep, 2018)
- Mechanisms of activation of p300 acetyltransferase (Ortega et al., Nature 2018)
- Nucleosome structure bound to linker histone H1 solved Bednar et al. (Bednar et al., Molecular Cell 2017)
- Mechanical crosstalk between intercellular and cell-matrix interactions (Faurobert et al, J Cell Biol 2013, Lisowska et al, J Cell Science 2018).
- Coordination between integrin and BPRM to drive cell migration and cell differentiation (Fourel et al., J Cell Biol 2016)
- Coupling between acto-adhesive and extracellular matrix-degradative machineries in invadosomes (Petropoulos et al, J Cell Biol 2016).
- New theranostics nanoparticles (Jia et al Biomaterials 2018, Jeannot et al. J Control Released 2018, Le Guevel et al. Nanoscale 2018)
- Role of CMM1 – CMM 2 in endothelial integrity (Lisowska et al., J Cell Sci 2018)
- Large scale analysis of germline TP53 mutations at population level (De Andrade et al., Human mutations 2018)
- New insights on the role of lncRNA in heterochromatin silencing (Touat-Todeschini et al., EMBO J 2017)
- New molecular approaches to control parasitic diseases including toxoplasmosis (Bougdoor et al., EMBO Mol. Med 2017)
- Elucidation of the molecular mechanisms by which T.Gondii induces host cell fission to compete invasion (Pavlou et al., Cell Host &Microbes 2018)



- Histomolecular analysis of Large Cell Neuroendocrine Lung Cancers (George et al., Nat Commun 2018)

Prospective outlook

In 2019, IAB will develop and submit its 5-years strategic research plan for the period 2021-2026. The institute looks forwards to consolidate and expand its expertise and output by the development of at least two new research groups. Applicants in the fields of bioinformatics, biostatistics, data sciences and artificial intelligence are particularly welcome.