1-year post-doctoral position: Preclinical evaluation of a new drug for Assisted Reproductive Technology

This position is proposed by the Institute for Advanced Biosciences (IAB) in the team Genetic, Epigenetic and infertility therapies located at Grenoble (France). This work will be in collaboration with an international pharmaceutical company. More information about the GETI team and its scientific environment at: https://iab.univ-grenoble-alpes.fr/node/31/department-environnement-reproduction-infections-cancer/team-arnoult-ray-genetic-epigenetic-and-therapies-infertility?language=en

Infertility is the inability of a sexually active, non-contracepting couple to achieve pregnancy in one year. The management of these couples by health professionals often lead to the use of Assisted Reproductive Technology (ART) (>4 millions of procedures a year), including IUI – intrauterine insemination, IVF – in vitro fertilization, and ICSI – intracytoplasmic sperm injection. These methods have demonstrated their clinical benefit but are expensive, still poorly effective (11% for IUI, 22% for IVF/ICSI) and often require a stress of the female physiology (hormonal supplementation, oocyte puncture...).

This one-year work aims to investigate the potential for a drug to enhance of the effectiveness of IUI or IVF. If successful, the results would open the possibility to infertile couple to access pregnancy through a fewer number of attempts, hopefully thanks to less invasive technics and at a lower cost.

Responsibilities

- Animal experimentation
- IUI and IVF procedures in animals
- Physiological characterization of gametes
- Conclusion on a pro-fertilizing effect and improvement of the drug or technic

This work may lead to a publication and/or a technical conference.

Searched profile

- Motivation for research in reproductive science to improve infertility management
- PhD in reproduction
- Strong mice reproduction knowledge
- Cell biology skills including microscopy
- Accreditation diploma for animal experimentation
- If not French, fluent English

Duration

- 1 year
- Opened from now
**Compensation / Location**
- Depending on experience
- Grenoble, the capital of the French Alps, is the second French research pole by its number of researchers; it is ideally situated within the Alps, at three hours from Paris by train and close to international airports, 1.5 hours from Geneva and 1 hour from Lyon Saint-Exupéry.

**Investigators**
- Dr. Christophe Arnoult
- Dr. Pierre Ray
- Researchers from the pharmaceutical company

Applicants should send a CV and a motivation letter to Christophe Arnoult (christophe.arnoult@univ-grenoble-alpes.fr or PRay@chu-grenoble.fr).

Information can be obtained at the same e-mail address.