



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/departement-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.

