



## Post-doctoral position in the Laboratory of Development of the Gonads (G. Livera)

A 3-year post-doctoral position is available in the Laboratory of Development of the Gonads (LDG) in the François Jacob Institute of biology (CEA) near Paris:

<http://jacob.cea.fr/drf/ifrancoisjacob/Pages/Departements/IRCM/Equipes/LDG.aspx>

LDG is a laboratory devoted to the study of fundamental mechanisms controlling mouse and human fetal germ cells development and its impairments by Endocrine Disruptors. We are studying the mitotic/meiotic transition and meiotic recombination, two key events in sexual organisms.

The post-doc project aims at deciphering **regulatory mechanisms governing the transcriptional dynamic at the time of the mitotic/meiotic switch** in mammals. We recently evidenced a genome-wide transcriptional arrest at the time of meiotic entry and ambition to identify the epigenetic events involved as well as its consequence on meiotic progression. This will require the use of transgenic mice, confocal microscopy and sequencing. Facilities (microscopy, cytometry, genetic engineering ...) are available on the site. Expected Start date January 2020.

We are seeking for a **highly-motivated candidate** with a robust background in Cell biology. Knowledge in the fields of meiosis, genetics, reproductive biology or microscopy will be useful. Any experience in bioinformatics would also be an asset. Candidates must hold a PhD. degree. The position is funded by ANR (Agence Nationale de la Recherche). Applications, including a CV as well as the contact detail of two referees, should be sent to Gabriel LIVERA ([gabriel.livera@cea.fr](mailto:gabriel.livera@cea.fr)).

### Recent publications from the LDG

*Divergent Roles of CYP26B1 and Endogenous Retinoic Acid in Mouse Fetal Gonads.* Bellutti L, Abby E, Tourpin S, Messiaen S, Moison D, Trautmann E, Guerquin MJ, Rouiller-Fabre V, Habert R, **Livera G.** *Biomolecules.* 2019 Sep 26;9(10).

*Maternal vitamin C regulates reprogramming of DNA methylation and germline development.* DiTroia SP, Percharde M, Guerquin MJ, Wall E, Collignon E, Ebata KT, Mesh K, Mahesula S, Agathocleous M, Laird DJ, **Livera G,** Ramalho-Santos M. *Nature.* 2019 Sep;573(7773):271-275.

*Human foetal ovary shares meiotic preventing factors with the developing testis.* Frydman N, Poulain M, Arkoun B, Duquenne C, Tourpin S, Messiaen S, Habert R, Rouiller-Fabre V, Benachi A, **Livera G.** *Hum Reprod.* 2017 Mar 1;32(3):631-642.

*Implementation of meiosis prophase I programme requires a conserved retinoid-independent stabilizer of meiotic transcripts.* Abby E, Tourpin S, Ribeiro J, Daniel K, Messiaen S, Moison D, Guerquin J, Gaillard JC, Armengaud J, Langa F, Toth A, Martini E, **Livera G.** *Nat Commun.* 2016 Jan 8;7:10324.