

Open postdoc (M/F) in cellular senescence, its secretory phenotype and cancer & aging biology in Bernard team, CRCL, Lyon, France

Missions

The postdoctoral researcher will be part of the Senescence, Cancer and Aging laboratory headed by David Bernard. He/she will develop a project investigating the role of new mechanisms controlling cellular senescence, in particular secreted factors, and decipher their impacts on tumor initiation and aging (see some publications of the lab below). Details of the project will be directly discussed with the candidates. He/she will work under the supervision of David Bernard and Philippe Bertolino, in collaboration with other team members within the framework a French National Cancer Institute (INCA) supported project. The contract will be initially of one year and then renewable.

Recent lab publications:

- Ziegler DV et al. Calcium channel ITPR2 and mitochondria-ER contacts promote cellular senescence and aging. Nature Communications. 2021 Feb 1;12(1):720.
- Beaulieu et al. Phospholipase A2-Receptor 1 Promotes Lung-Cell Senescence and Emphysema in Obstructive Lung Disease. Eur Respir J. 2021 Jan 28;2000752.
- Zhao Y et al. Oncogene-induced Senescence Limits the Progression of Pancreatic Neoplasia Through Production of Activin A. Cancer Res, 2020 Aug 15;80(16):3359-3371.
- Griveau A et al. Targeting the phospholipase A2 receptor ameliorates premature aging phenotypes. Aging Cell, 2018 Dec;17(6):e12835.

Activities

The postdoctoral fellow will be in charge of developing her/his project. He/she shall handle design, plan, perform and interpret various experiments. He/she should master the associated literature. He/she should be able to communicate his/her results in the lab and outside. He/she should be able to work independently as well as with other team members and collaborators pending of the project needs.

Skills

We are looking for a highly motivated and dynamic scientist. The applicant must hold or obtain soon a doctorate in the field of molecular and cellular biology with good knowledge of cellular senescence, mouse models and/or cancer and aging biology. Experience in cell culture, particularly primary cells and/or 3D culture, manipulating gene expression as well as in classical cell and molecular biology techniques are required. Experience in using cancer and aging mouse models will be a plus. Applicant should be first author of at least one publication related to the subject or skills required for the project. Candidates must have a positive attitude as a team member and should be able to communicate (oral and written skills) in English.

Work Context

Our laboratory is part of the Cancer Initiation and Tumor cell Identity department inside the Cancer Research Centre of Lyon (CRCL - INSERM U1052 / CNRS 5286) located in Lyon, France (<https://www.crcl.fr/en/citi-department/cellular-senescence-cancer-and-aging/>). This center is affiliated to CNRS and INSERM French research agencies, and to Centre Léon Bérard Hospital and University of Lyon. The successful applicant should start between october to december 2021. This is a full-time job. Applicant should hold or obtain soon a PhD in the field of Biology, ideally since less than 1 year. Salary will be according to the CNRS scale. Our international laboratory is composed of about 20 people and we are working in a dynamic environment. The candidate will also benefit from the scientific environment (about 20 teams and about 500 people dedicated to cancer research) and technical platforms provided by the CRCL.

Constraints and risks

Work with primary human/mouse cells and mouse.

For further information and to apply use the following link: <https://emploi.cnrs.fr/Offres/CDD/UMR5286-DAVBER-007/Default.aspx?lang=EN>