

## **Postdoctoral position in the Meylan Lab – The tumor immune compartment and tumor-associated neutrophils in mouse models of malignant mesothelioma**

### **Lab's interests**

The research program of the laboratory is on the immuno-metabolic control of lung malignancies, with a focus on intercellular communication systems and tumor-associated neutrophils. Using a combination of *in vitro* cell cultures, genetically-engineered mouse models, bioinformatics as well as patient-derived tumor tissue sections, we hope our research will contribute better, knowledge-based treatments of patients in a near future.

In 2021 our group relocated from EPFL (Switzerland) to ULB (Belgium). Currently composed of 7-8 staff, it is strategically located on two complementary research sites, (1) the Institut Bordet (Erasme campus, Brussels) that offers immediate proximity to clinical oncologists and access to precious tumor samples, and (2) the Laboratory of Immunobiology (Gosselies campus) that comprises multiple immunology groups and state-of-the-art facilities, together providing excellent conditions for research on cancer immunobiology. The postdoc, although expected to be located mostly on the Gosselies site, will benefit from both locations for research and interactions.

### **Project**

Building from our recent results mostly obtained in the study of lung adenocarcinoma ([CellRep 2017](#), [NatCom 2020](#), [CanRes 2021](#)), in this research project we want (1) to generate new genetically-engineered mouse models of malignant mesothelioma, (2) to analyze the immune signature and characterize functionally the cells of innate immunity, particularly neutrophils, in this devastating malignancy. Mouse-to-human validations will be performed on human tumor tissues. The results of this project should enable a better understanding and comparison of molecular subtypes of mesothelioma; they should also provide insight into the role played by innate immune cells and their communication with tumor cells and with non-malignant cells of the tumor microenvironment, and may offer perspectives for new clinical development.

### **Qualifications**

The applicant should have a strong knowledge and background in the field of cancer biology and/or immunology. Experience with mouse work would be a strong advantage. The applicant should have at least one first-author publication of primary research in an international, peer reviewed scientific journal.

### **Application**

We will offer a full postdoc grant (3-4 years position available). Candidates should not have lived and/or worked in Belgium for more than 24 months during the past 3 years. Interested applicants should send a cover letter briefly describing their research experience and interests, and a personal CV that includes the name and contact information of three references, to Etienne Meylan ([etienne.meylan@ulb.be](mailto:etienne.meylan@ulb.be)).

For more information about us: [MEYLAN-LAB](#)

Starting date: during 2023