

## FULL-TIME POSTDOCTORAL SCIENTIST POSITION

### ERC Funded project

### Bioinformatician for obesity-associated liver cancer

**SIGNAL TRANSDUCTION & METABOLISM LABORATORY – UNIVERSITÉ LIBRE DE BRUXELLES**

## Job description

The Signal Transduction and Metabolism Laboratory led by Dr Esteban Gurzov is seeking highly motivated post-doctoral researchers to explore the pathophysiological mechanisms contributing to the development of obesity and hepatocellular carcinoma. The successful applicant will join the ULB Faculty of Medicine ([www.stmlaboratoy.com](http://www.stmlaboratoy.com)), characterised by an impressive track record in research excellence.

### Project description:

Protein tyrosine phosphatases (PTPs) constitute a superfamily of enzymes that dephosphorylate tyrosine-phosphorylated proteins to oppose the actions of protein tyrosine kinases. Our previous studies and preliminary data suggest that PTPs act as molecular switches for key signalling events in the development of metabolic disorders.

A post-doctoral position is available to fully characterise the activity of key PTPs in metabolic relevant cells in obesity and liver cancer. Importantly, these functions of PTPs make them promising drug candidates for the treatment of metabolic disorders. Thus, our work will provide molecular mechanisms to propose novel pre-clinical approaches to treat these pathologies. He/she will use bioinformatics analysis, gene editing, single cell RNA-Seq, molecular biology and *in vitro* and *in vivo* approaches.

The **Signal Transduction & Metabolism Laboratory** provides an international and world leading environment for creative science. We foster research excellence and pursue discoveries in metabolic diseases, with experts working together in collaborative teams. **Come and join us!**

- We believe in a strong scientific commitment and reproducible findings to contribute to the way of thinking in metabolic research.
- Our vision is to translate fundamental science to the clinic by a collaborative effort between scientists, physicians and the industry.

## Profile

- ✓ **A PhD in relevant areas and experience in bioinformatics is essential.**
- ✓ Laboratory experience in metabolism and/or cancer, animal handling and dissection, and experience in molecular/genomic/biochemical techniques will be advantageous.
- ✓ Experience with stem cell culture and/or mass spectrometry will be advantageous
- ✓ The candidate should have demonstrable track record of research excellence and be capable of both work independently and collaboratively in a team
- ✓ Excellent organizational and time management skills
- ✓ Excellent skills in spoken and written English
- ✓ High motivation, flexibility as well as innovate and creative thinking are a must

## Interested ?

Applications should be sent directly to [esteban.gurzov@ulb.be](mailto:esteban.gurzov@ulb.be)

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Salary : Approximately 2400 € after tax.  
Duration: 1 year full time (renewable)  
Starting date: As soon as possible.

Deadline for the submission of applications: Positions open until filled