

## **POSTDOCTORAL RESEARCH POSITION**

### **in the field of liver metabolism and inter-organ communication**

*Faculty of Medicine, University of Geneva, Switzerland*

**Position Description:** A post-doctoral position is available to study the role of specific liver-derived circulating factors in liver metabolism and liver crosstalk with other organs.

The obesity pandemic accompanied by its suite of associated co-morbidities, including type II diabetes, fatty liver disease, cardiovascular and kidney diseases as well as cancer, currently affects the worldwide population and represents a major public health problem associated with a severe socio-economical burden. Only few, and often poorly effective, therapeutic weapons in today's medical arsenal exist to alleviate/cure such metabolic disorders and cancer. It is therefore of great importance to better understand the molecular basis underlying obesity-associated metabolic disorders in specific organs, and in the context of the whole organism, in order to find appropriate therapies for these diseases. Recent evidence indicates a major role for circulating factors released by peripheral organs, e.g. the liver, muscle, and/or adipose tissue, in the regulation and harmonization of energy homeostasis in the whole organism. Such intercellular/interorgan communication implicates circulating factors called "organokines" able to mediate multi-modal and multi-directional control of each cell/organ on the others, and to impact on insulin sensitivity, the lipid/glucose metabolism and energy expenditure, both in physiological and pathological conditions.

The goal of the project associated with this postdoctoral position is to investigate the mechanisms by which the liver influences peripheral organ homeostasis in pathophysiological conditions. The project focuses in particular on the role of liver-derived circulating factors in the crosstalk with other organs, including skeletal muscle, white and brown adipose tissue and the kidney, and resulting in an improved metabolic status.

**Qualifications:** We are looking for an independent, strongly motivated and enthusiastic candidate with experience/skills in molecular and cellular biology of metabolism, as well as with animal experimentation (mice). Candidates for this postdoctoral position should hold a Ph.D or M.D. since no longer than 3 years and must have excellent written and oral communication skills in English. Experience in the physiopathology of the liver is well appreciated.

**Terms:** Postdoctoral position is for 3 years (salary: 81'347-85'945 CHF / year)

**Deadlines:** The postdoctoral position is available starting May 1, 2018 - open until filled.

**Applications:** Please send your application including CV, a brief statement of research experiences and interests, motivation letter and 2 letters of reference by email to:

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