PhD position in renal oxygen physiology

The group of Prof. David Hoogewijs at the department of Endocrinology, Metabolism and Cardiovascular Systems from the University of Fribourg, Switzerland, invites applications from motivated and engaged young scientist to join the team and to conduct a PhD in the domain of oxygen physiology and its possible link to renal (patho)physiology.

The project

Our research focuses on oxygen physiology, aiming at elucidating the physiological and pathophysiological function of a newly identified globin type, called androglobin. This globin is mainly expressed in testis tissue, however recent evidences from our lab have established a possible link to renal oxygen sensing and signalling. The aim of the present project is to elucidate the function of this new globin in the kidney, and to analyse its functional regulation. To this end, different in vitro and in vivo models will be used, and the following techniques will be applied:

- Standard molecular biology approaches, such as immunoblotting, RT-qPCR, immunofluorescence, immunoprecipitation, cloning, reporter genes
- Cell culture, including 3D cultures
- RNA sequencing and mass spectrometry
- In vivo approaches (mouse)

Your profile

We are searching for a highly motivated, serious and engaged candidate, with strong background in molecular biology. The candidate should have a Master in life sciences, biology, or equivalent, with excellent oral and written English language skills. The person should be able to work in a team, show creativity, perseverance, and have a critical mind. Any type of in vivo experience is a highly appreciated bonus.

Additional information

This project is funded by the Swiss National Centre of Competence in Research (NCCR) Kidney.CH and the Swiss National Science Foundation. The salary will be in accordance with the University of Fribourg standards. The application should include: a cover letter detailing the motivations driving you for a PhD application, a CV, a copy of the Master diploma, and letters of support from 2 referees. Application deadline: 30th June 2019.

For further information, details, and application, please refer to Dr. Anna Keppner (direct supervisor) anna.keppner@unifr.ch or Prof. David Hoogewijs (principal investigator) david.hoogewijs@unifr.ch. Website of the group: https://www3.unifr.ch/med/de/research/groups/hoogewijs/