



**Universität
Zürich^{UZH}**

Institute of Anatomy, University of Zurich:

1 PhD position in immunology, vascular biology and blood pressure control

funded by the NCCR Kidney.CH

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Institut, Seminar, Klinik / Institute, Department, Clinic

Institute of Anatomy, Research group "Immunity, Angiogenesis and Tissue Remodeling", Prof. C. Stockmann

<https://www.anatomy.uzh.ch/en/research/stockmann.html>

Abteilungsbeschreibung / Description of UZH unit

Immune cells are able to release large amounts of angiogenic factors. By using in vivo models with conditional knockouts in different immune cell subsets, we investigate the effect of inflammatory angiogenesis in various physiological and pathophysiological processes. Current projects focus on the role of distinct immune cell subsets in organ homeostasis as well as their impact on tissue regeneration after injury.

Projekt / Project

Besides their well-known role in host defense and inflammation, certain immune cells fulfill previously unrecognized organ-specific functions that contribute to whole-body homeostasis under physiological conditions. In addition to the complex interplay between the renal, endocrine and cardiovascular system, the involvement of immune cells in blood pressure control is increasingly recognized. We hypothesize immune cell-derived angiogenic factors are involved in blood pressure homeostasis. Therefore, we aim to gain mechanistic insight into the impact of angiogenic molecules on blood pressure control in preclinical models of hypertension as well as clinical specimens with regard to vascular phenotype, angiocrine signaling and immune cell composition.

Anforderungen / Qualifications

Upon start, applicants must have a completed Master's degree in biology, medicine or any related science field, preferably with a certain degree of specialization in immunology, vascular biology and/or hypertension research. In addition to standard methods, applicants must be willing to familiarize with immunologic assays, vascular biology techniques as well as animal models of hypertension (mouse). Candidates should be capable to adopt methods from other science fields as well as to work closely with our clinical partners in order to pursue the translational aspects of the project. A high degree of flexibility and full dedication to the project will be mandatory.

Sprachkenntnisse / Language requirements

A good standard of written and spoken English is required.

Spezielle Anforderungen / Special requirements

Knowledge of multicolor flow cytometry, immunohistochemistry and/or experience with mouse models of hypertension are considered as a bonus.



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Wir bieten / We offer

We offer outstanding working conditions, a high quality of life in Zurich, and an excellent supporting environment including the network of NCCR Kidney.CH (<http://www.nccr-kidney.ch>).

Candidates will be evaluated and integrated by the Zurich PhD program in Molecular Life Sciences.

<http://www.lifescience-graduateschool.uzh.ch/en.html>

Stellenantritt / This position opens on

As soon as possible

Bewerbungen / Application

Please send your application as one single PDF file (motivation letter, complete CV, copies of academic certificates, and names of 2 references) to christian.stockmann@anatomy.uzh.ch

Further information about an employment at UZH: www.pa.uzh.ch/de/Willkommen-an-der-UZH.html

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Bewerbungsfrist / Application deadline

01.04.2019