

Internship position

The Penninger Lab at IMBA is looking for a motivated student for an internship position to aid in a disease-oriented, patient-based stem cell & organoid project over the course of 5 months.

Project description

The blood vessel organoid system developed in our lab has been successfully used to model and interrogate the pathological mechanisms behind diabetic vasculopathy *in vitro*^{1,2}. This project now aims to apply this organoid system to characterize the genetic vascular disorder “CADASIL” (Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy). The intern will be involved in the maintenance, differentiation and analysis of patient-derived stem cells and the therefrom derived vascular organoids.

Methods

- Human stem cell culture (iPSC and ESC)
- Stem cell differentiation
- Blood vessel organoid generation and analysis

Requirements

Highly organized and motivated student with profound experience in human cell culture. Experience with human stem cells highly preferred. Work with organoids will be performed, but previous experience is not a requirement.

Deadline of application

June 14th, 2023

Contact for application:

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1. Wimmer RA, Leopoldi A, Aichinger M, et al. Human blood vessel organoids as a model of diabetic vasculopathy. *Nature*. 2019;565(7740):505-510.
2. Salewskij K, Penninger JM. Blood Vessel Organoids for Development and Disease. *Circ Res*. 2023;132(4):498-510.