



[Charité](#) – Universitätsmedizin Berlin is one of the largest university hospitals in Europe, where physicians and researchers provide clinical care, research and teaching of the highest international standard. The Charité represents a single medical faculty that serves both the Humboldt-Universität zu Berlin and the Freie Universität Berlin, and is esteemed worldwide for its excellence in teaching and training. The Charité extends over four campuses and has close to 100 different departments and institutes, which make up a total of 17 different CharitéCenters. The Charité is certified by the “family-friendly university” audit and is a member of the [Dual Career Network Berlin](#).

As the division for translational research within the Charité, the [Berlin Institute of Health](#) (BIH) dedicates itself to pioneering approaches in systems medicine in order to develop better prognoses and novel therapies for progressive diseases and thereby preserve or improve patients' quality of life. Through its innovations and translational research, the BIH is paving the way for user-focused, personalized healthcare.

We invite applications for the following position at the BIH-Center for Regenerative Therapies (BCRT) within the Charité – Universitätsmedizin Berlin to commence as soon as possible:

## **W2 Associate Professorship for “Cellular Programming”**

**Salary bracket: W2 under the BBesG-ÜfBE  
(Reference: 633/2023)**

The focus of the professorship is on translational research of the mechanisms programming human pluripotent stem cells into various cell types and to use the resulting knowledge for unlocking their potential for clinical applications. For that, it is planned to define the epigenetic, transcriptomic and post-translational mechanisms which define the specific cell fates. The understanding of such mechanisms will be then combined with genetic engineering to develop new cell types with a clinical interest. This approach would offer unprecedented access to highly defined human cells of the highest quality. Importantly, this program will be associated with strategic interactions with research institutes as well as biotech and pharma companies. The incumbent is expected to run its own translational research program encompassing the following research topics:

- Identification of cell state determining factors and mechanisms
- Inducible over-expression systems and switches
- Optimization of cellular phenotypes and reprogramming protocols
- Enhancing maturity and functionality of target cell types especially cardiac, endothelial and liver cells
- Influence of genetic background and line to line variability between different pluripotent stem cell lines
- Development of quality control features for translation

The successful candidate will be responsible for research and teaching in the field of Cellular Programming in compliance with the standards of robust, reproducible, transparent, and responsible science; this includes consideration of gender and diversity both in terms of content and personnel in clinical care structures and in research projects. Furthermore, the successful candidate is expected to contribute to the strategic development of the BCRT and cross-faculty research networks/research training groups at BIH and the Charité, as well as establish and advance collaborations with partners. Further duties of the future post holder include: acquisition of competitive third-party funding; knowledge and technology transfer; participation in academic self-governance and supervision of master`s and doctoral students.

Applicants should have an international competitive research profile with expertise in the following themes: human pluripotent stem cells and organoids, genetic engineering, inducible systems of gene expression, differentiation into cardiac, endothelial/hematopoietic, and liver cells, as well as influence of genetic background on stem cell phenotypes. In addition, applicants should have a strong track record in peer reviewed publications and successful acquisition of third party funding. Ideally the successful candidate would have an expertise in manufacturing, regulatory or commercialization aspects of cellular products. Previous experience within industry partners will be preferable to fully embrace the potentials of the afore mentioned strategic initiatives. Research experience abroad is also encouraged to facilitate engagement with international collaborative networks.

Formal requirements as per § 102a of the Berlin Higher Education Act are a successfully completed university degree in human medicine or natural or life sciences, or a comparable subject, and an outstanding doctorate, as well as a particular talent for academic work and an aptitude for teaching.

The Charité and BIH are committed to increasing the proportion of women among its scientific staff; we therefore strongly encourage women to apply. In the event of equally qualified applicants, women will be given preference over men (within the scope of what is permitted by law). Applicants with disabilities will be given preference over equally qualified non-disabled applicants. We value diversity and therefore welcome all applications – regardless of gender, nationality, social background, religion or age.

Written applications should be submitted together with your conceptual ideas, following the format and requirements outlined at <https://career.charite.de> by **12.05. 2023** at <https://career.charite.de>.

Inquiries about the professorship should be directed to Prof. Dr. Ludovic Vallier [ludovic.vallier@bih-charite.de](mailto:ludovic.vallier@bih-charite.de).  
Formal questions relating to the application process should be addressed to: [berufungen@charite.de](mailto:berufungen@charite.de).