**PhD position (m/w/d)**

**Department of Ophthalmology, Experimental Ophthalmology, University Medical Center Eppendorf, Hamburg, Germany**

We are looking for an enthusiastic and motivated PhD candidate to join our team of neurobiologists and ophthalmologists. The position is limited to 3 years with the possibility of 1 year extension. Salary is according to 13 TVöD/VKA.

Our lab is interested in animal models of neurodegenerative retinal diseases, including glaucoma, age-related macular degeneration and retinitis pigmentosa. A particular focus of our research is retinal degeneration in neuronal ceroid lipofuscinosis, a fatal lysosomal storage disorder.

We are phenotyping transgenic mouse models of these conditions to obtain a better understanding of the pathomechanisms of these disorders. The mouse models are used to develop and evaluate therapeutic strategies aimed at attenuating retinal degeneration and vision loss. We are using intravitreal transplantations of lentivirally modified neural stem cell clones or intraocular injections of adeno-associated viral vectors to continously administer therapeutic gene products to the diseased retinas.

Methodologies used in our lab include: animal experimentation, immunohistochemistry and immunocytochemistry, morphometry, stem cell culture, immunoblots, cloning of lentiviral and AAV vectors and electroretinogram recordings.

For further details about our work and research interests, see <https://www.researchgate.net/profile/Udo-Bartsch>

In case of questions, do not hesitate to contact Prof. Dr. U. Bartsch via email ([ubartsch@uke.de](mailto:ubartsch@uke.de)) or phone (+49-40-7410-55945).

Applications containing a detailed CV, copies of degree certificates, recommendation letters and a summary of research interests and methodological skills should be sent by email to [ubartsch@uke.de](mailto:ubartsch@uke.de)