



## **The Unit of Retinal Degeneration and Regeneration offers a postdoc position for a project to study mechanisms of retinal degeneration and to develop gene therapy.**

Inherited retinal degenerations encompass a large number of untreatable genetic disorders leading to blindness. We have identified common mechanism of degeneration in mouse models of different retinal dystrophies. The project focuses on the use of retinal organoid derived from human iPSC and animal model to examine this mechanism of degeneration and to test the efficiency of gene transfer strategies. This work will be at the interface between Yvan Arsenijevic and Corinne Kostic's groups in the Ophthalmology Department of University of Lausanne at the Jules Gonin Eye Hospital (<https://www.ophtalmique.ch/centre-de-recherche/recherche-fondamentale/>). The lab is located in the center of Lausanne in-between the UNIL-EPFL and the CHUV sites. Accesses to the University of Lausanne platforms and activities (seminars, culture, and sports) are available and creates a dynamic environment.

We are seeking for a talented and motivated postdoc who can work with a team spirit with excellent communication and organization skills to link the different team members.

This project requires both stem cell culture (expansion and differentiation of iPSC, organoid characterization) and viral vector techniques (molecular biology, animal experimentation and retina functional and histological analysis). Strong skills in iPSC culture, construction and production of gene transfer vectors (recombinant AAV) are desired.

The candidate must have a PhD thesis (or equivalent title) in the field of biology.

The initial contract is for one year but can be renewed for 2 or 3 years. Starting date is January 2022.

The application should include a CV, a letter of motivation and references, and should preferably be sent by e-mail.

For contact:

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