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MAJOR RESPONSIBILITIES AND DESIGNATED AREAS OF EXPERTISE:

1. RESEARCH (90% EFFORT)
   
   Research activity (60%)
   
   This position requires creative contributions to and collaborative development of an active research program investigating topics relevant to the research area of understanding the pathobiology of retinal diseases as manifest in animal models, and to explore translational approaches for therapy. One current lab focus is on X-linked retinoschisis (XLRS) disease, and incumbent’s studies will be directed in part toward understanding the retinal biology of XLRS and the role of the RS1 protein.

   This position will work to understand the biological constraints at the retina surface that limits entry of therapeutic viral vectors into the retina after intravitreal administration. This may involve studies of comparative anatomy and function of Muller glial cells in WT and XLRS mouse, using cell culture and with mouse models in vivo. The candidate is expected to bring scientific creativity to studies. The candidate will assist in study design, and in collecting and interpreting data. The candidate will be expected to participate in maintaining an orderly lab and shared duties and will work to maintain a collegial and scientifically stimulating culture with the other scientists in the lab, the department and university.
Publication (30%)
The candidate is expected to compile study results in written reports and manuscripts for publication either independently or in collaboration with the PI. This extends to creation of scholarly manuscripts themselves and in collaboration with others in the lab.

2. **PROFESSIONAL COMPETENCE AND ACTIVITY (10% EFFORT)**
The candidate will participate in professional societies and conferences appropriate to his/her specific field of cell biology of retinal disease and will serve as a reviewer of research proposals and scientific publications as appropriate. The candidate will attend seminars to present research results and may give oral presentations to public and professional interest groups.

When appropriate, the candidate may coordinate and/or give presentations at seminars, laboratory meetings or educational functions.

3. **UNIVERSITY AND PUBLIC SERVICE (0% EFFORT)**
The candidate is not expected to engage in public service and/or teaching classroom courses.

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**BASIC QUALIFICATIONS:**
- Must hold a PhD in work tightly related to retinal cell biology.
- Must have experience with phenotype characterization of mouse retina and ocular disease models.
- Must have experience with intraocular injection techniques to mouse eye for vector administration.
- Must have experience with AAV8-mediated gene or RNA ocular delivery, as AAV8 vector is used in this lab.
- Must have experience working with cell biology of retinal Mueller cells
- Must have experience with cell-based therapies for retinal neurodegeneration.
- Must have experience with patent application for their work.

**PREFERRED QUALIFICATIONS:**
- Technical skill in *ex vivo* retina explant procedures.
- Characterization of ocular basement membrane studies.
- Knowledge of cell biology of internal limiting membrane (ILM) of the retina, to study viral vector penetration

**TERM OF APPOINTMENT:** Full-Time (100%) appointment. Initial appointment is for 24 months; reappointment is pending satisfactory performance, needs of the research project, and sufficient funding.

**TO APPLY:**
To apply, please go to the following link: [https://recruit.ucdavis.edu/JPF03651](https://recruit.ucdavis.edu/JPF03651) For full considerations applications must be completed by August 12, 2020; however, the position will remain open until filled through December 31, 2020.

Qualified applicants should submit:
- CV
- Cover letter detailing their qualification for this position
- Research Statement of what you would contribute to the laboratory
- Contact information for 3 references

UC Davis commits to inclusion excellence by advancing equity, diversity and inclusion in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. For the complete University of California nondiscrimination and affirmative action policy see: [http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct](http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct). If you need accommodation due to a disability, please contact the recruiting department.
Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available [http://www.uscis.gov/e-verify](http://www.uscis.gov/e-verify).

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