Postdoctoral position to study the zebrafish retina - University of Pittsburgh

A postdoctoral position is available at the University of Pittsburgh to study the development and degeneration of the zebrafish retina in the following two research areas.

Polarity proteins: The zebrafish retina develops from a polarized undifferentiated neuroepithelium into a functional tissue of complex cytoarchitecture. We are interested in understanding how the polarity proteins regulate this remarkable morphogenetic process during development as well as in how polarity proteins maintain photoreceptor survival in developed mature retina.

Chromatin organization: Growing evidence demonstrates that dynamic chromatin organization play essential roles in genomic functions. However, the mechanisms of chromatin organization remain poorly understood. We are interested in the chromatin biology and epigenetic regulations of retinal development and aging. Our current focus is to understand how cell-type-specific chromatin organizations underlie gene expression regulations and how such chromatin organizations play critical roles in maintaining photoreceptor health.

The following papers provide further information on our research interests:


We are looking for an independent, prudent, and self-motivated candidate to work on projects related to one or both of the above-mentioned research areas. Candidates should have a PhD in developmental biology, genetics, molecular biology, cell biology, or biochemistry. Candidates with solid skills in molecular biology and DNA/RNA in situ hybridization techniques are especially desired. We look forward to interactive discussions with candidates about their research interests and career goals. Please send a cover letter, CV, and research interests to:

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