Postdoctoral Fellowship on Role of Tight Junction Proteins in Kidney Physiology and Disease
Dr. Alan Yu’s laboratory
Jared Grantham Kidney Institute, Kansas City, KS

An NIH-funded postdoctoral fellowship position is available in Dr. Alan Yu's laboratory. Dr. Yu is the Director of the Jared Grantham Kidney Institute and the Division of Nephrology, located at the University of Kansas Medical Center in Kansas City, Kansas. His laboratory is interested in kidney tubule physiology and its importance in human kidney diseases. The current focus is on understanding the molecular basis of paracellular transport by the renal tubule and the role of claudin tight junction proteins. This position will investigate kidney and intestinal epithelial function in novel mouse models with tissue-specific conditional mutations in claudin-2 and claudin-5 isoforms, and explore their role in the pathogenesis of kidney stones and glomerular diseases. More information is available on our [lab website](#).

The successful candidate will benefit from a highly collaborative and interdisciplinary environment in the Kidney Institute, working in close proximity with 12 other basic-science kidney laboratories. The Institute has a strong translational, disease-centered focus and close interactions with clinical research faculty. The candidate will also have access to state-of-the-art core facilities on campus, including gene editing of cells and animal models, human tissue biobanks, proteomics, single-cell sequencing, bioinformatics, and super-resolution microscopy.

**Required Qualifications:** Ph.D. in physiology, pharmacology, pathology or related fields.

**Preferred Qualifications:** The ideal candidate should have a background in epithelial biology, experience with studying animal physiology, basic molecular and cell biology skills, and significant research accomplishments as demonstrated by first-author publications in peer-reviewed journals.

**Job Duties:**

1. Design and conduct experiments, and interpret data under the mentorship of the Principal Investigator (PI)
2. Mouse breeding, genotyping, small animal experimentation.
3. Perform molecular and cell biology techniques such as DNA and RNA extractions, RT-PCR, immunoblot analysis, immunofluorescence staining and tissue culture.
4. Present data at lab meetings, prepare manuscripts for publication, present at scientific meetings.
5. Assist with development of grant proposals, including applicable fellowship award applications.

**To Apply:** Qualified candidates should submit their CV and apply online by March 15th at: [https://jobs.kumc.edu/postings/25867](https://jobs.kumc.edu/postings/25867)

The University of Kansas Medical Center is an Equal Opportunity, Affirmative Action employer. Minorities, women, veterans and individuals with disabilities are encouraged to apply. The University will conduct background checks on all job candidates upon acceptance of a contingent offer.