



*University of Kansas Medical Center*

**Position Title:**

Postdoctoral Fellow

**Laboratory:**

[Darren Wallace, PhD](#), Department of Internal Medicine, Jared Grantham Kidney Institute, University of Kansas Medical Center, Kansas City, KS

**Required Qualifications:**

PhD in cell biology, physiology, pharmacology, pathology, or related fields.

**Description:**

Autosomal dominant polycystic kidney disease (ADPKD) is a common genetic disorder characterized by the formation of fluid-filled cysts in the kidneys due to aberrant cell proliferation and fluid secretion. Incessant growth of the cysts causes the loss of functional nephrons, inflammation, fibrosis, and massively enlarged kidneys, and the progressive decline in renal function. Approximately, one-half of the patients progress to end-stage kidney disease by the 6th decade of life, accounting for ~6-9% of patients on renal replacement therapy. Over the past two decades, there have been major advancements in PKD research; however, the lack of understanding of the pathways responsible for cystogenesis limits our ability to design effective therapies. Our laboratory is focused on cellular and molecular mechanisms responsible for the initiation of cyst formation and factors that promote cyst growth and changes in the microenvironment that lead to fibrosis and renal failure. The postdoctoral fellow will be involved in the investigation of cell surface integrins, G-protein coupled receptors and other signaling pathways involved in renal cystic disease using human ADPKD tissues and primary cells and PKD animal models. The employee will be expected to work with Research Associates and Research Assistants in the laboratory and develop leadership skills.

**For more information and to apply:**

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