

Title: Postdoctoral Fellow in the Avasthi Lab

Position Summary: The Cell Biology laboratory of Dr. Prachee Avasthi (www.avasthilab.org) at the University of Kansas Medical Center in Kansas City, KS, is looking for a postdoctoral fellow. The successful candidate will work on identifying and dissecting pathways regulating assembly of the cellular antenna, the cilium. We use genetics, chemical biology, biochemistry, microscopy, and quantitative image analysis to understand how cilia are built, maintained, and regulated in coordination with other cellular processes^{1,2}. This work is largely done in the unicellular yeast-like algal cell, *Chlamydomonas reinhardtii*, an excellent ciliary model system for rapid mechanistic analyses.

What we offer:

- Training in model organism forward genetics, microscopy techniques (TIRF, deconvolution, 6D), and quantitative image analysis.
- A stimulating environment with freedom to develop new research directions.
- Regular opportunities to interact with local researchers at KU Lawrence and Stowers Institute at Cilium Interest Group meetings hosted by our lab.
- Supportive mentorship for multi-faceted career development and opportunities tailored towards individual career goals.
- An NIH funded position at NRSA postdoctoral stipend levels (with potential for renewal up to four additional years).
- A department located in a metropolitan area of 2.1 million people with a vibrant arts district and abundant professional sports teams—all with an outstanding cost of living.

What we're looking for:

- Enthusiastic and ambitious individual with a strong interest in our research and laboratory environment.
- Fearlessness in learning new techniques and designing projects independently.
- Willingness to apply for applicable postdoctoral fellowships and eagerness to take advantage of other career development opportunities.
- Interest in working with junior lab members and summer undergraduates.
- Strong verbal and written communication skills.

Start date: immediately or upon mutual agreement.

Application materials (email to pavasthi@kumc.edu):

- Cover letter outlining relevant expertise and scientific interests
- CV
- Contact information for three references

The University of Kansas Medical Center is proud to be an Equal Opportunity/Affirmative Action Employer

References:

1. Jack, B., Mueller, D. M., Fee, A. C., Tetlow, A. & Avasthi, P. Actin Redundancy in Chlamydomonas is Required for Flagellar Protein Synthesis and Gating. *bioRxiv* 227553 (2017). doi:10.1101/227553
2. Dutta, S. & Avasthi, P. Flagellar Synchronization Is a Simple Alternative to Cell Cycle Synchronization for Ciliary and Flagellar Studies. *mSphere* 2, (2017).