Postdoctoral Fellow: Female Reproductive Biology

A postdoctoral training position is available in the Department of Obstetrics and Gynecology and the Cecil H. and Ida Green Center for Reproductive Biology Sciences at UT Southwestern Medical Center in Dallas, TX. The Center’s mission is to promote cutting-edge, integrative research programs focused on reproductive or developmental biology, signaling, gene regulation, and genome function.

The research in the Mahendroo lab addresses a wide range of questions surrounding the molecular events that drive cervical remodeling in a term pregnancy or in a preterm birth. We utilize mouse and cell/organoid-based models in combination with tissue mechanics, imaging and molecular or genomic approaches to understand fundamental questions that are clinically relevant. Experimental approaches include classical cell and molecular biology techniques, genetic manipulation of mice, genomics and gene regulation (e.g., single cell RNAseq and ATACseq, ChIP-seq), imaging techniques (second harmonic generation and electron microscopy), proteomics and flow cytometry.

We are seeking postdocs interested in using cervical remodeling as a model process to study:
- Molecular and functional characterization of epithelial subtypes in term and preterm birth using single cell genomic, organoid and lineage tracing approaches
- How the cervical extracellular matrix reorganizes to alter mechanical function
- Biomedical engineering applications in imaging, 3D cell cultures and tissue mechanics
- Translational studies to identify biomarkers that predict risk of preterm birth

Candidates must hold a recent Ph.D. and/or M.D. degree and first-author publication in peer-reviewed journals. Demonstrated training in the area of reproductive biology, bioengineering, or molecular biology/genomics is preferred. We especially value motivated, creative, and collaborative team members. Interested individuals should send a CV, statement of interests, and a list of 3 references to mala.mahendroo@UTsouthwestern.edu.

Information on our postdoctoral training program, benefits, and a virtual tour can be found at http://www.utsouthwestern.edu/postdocs.

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See also: Mahendroo Lab, Mahendroo Publications

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