

Postdoctoral Fellow in Epigenetics and Stem Cell Biology

A postdoctoral position is available in the laboratory of [Dr. Laura Banaszynski](#), in the Green Center for Reproductive Biology Science at UT Southwestern Medical Center to study epigenetic regulation of cell fate decisions during embryonic stem cell differentiation and/or preimplantation embryo development. Our [laboratory](#) has several exciting projects related to enhancer activation and histone variant biology. We are equipped with cutting edge genomics and molecular biology platforms.

Representative publications from our lab:

- ATRX promotes heterochromatin formation to protect cells from G-quadruplex DNA-mediated stress (*Nature Communications* 12: 3887, 2021)
- Phosphorylation of histone H3.3 at serine 31 promotes p300 activity and enhancer acetylation (*Nature Genetics* 51:941, 2019)
- Histone H3.3 is required for endogenous retroviral element silencing in embryonic stem cells (*Nature* 522:240, 2015)
- Hira-dependent histone H3.3 deposition facilitates PRC2 recruitment at developmental loci in ES cells (*Cell* 155:107, 2013)

Candidates must hold a recent Ph.D. and/or M.D. degree. Experience in embryonic stem cell biology, preimplantation embryo culture, chromatin biology, genome editing, or NGS sequencing leading to publication in peer-reviewed journals is recommended.

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

Interested individuals should send a CV, statement of interests, and a list of three references as a single pdf to:

Laura Banaszynski, Ph.D.
UT Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, TX 75390-8511
Laura.banaszynski@utsouthwestern.edu
<https://www.banaszynskilab.org>
<https://profiles.utsouthwestern.edu/profile/154576/laura-banaszynski.html>

UT Southwestern Medical Center is committed to an educational and working environment that provides equal opportunity to all members of the University community. As an equal opportunity employer, UT Southwestern prohibits unlawful discrimination, including discrimination on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, citizenship status, or veteran status. To learn more, please visit: <https://jobs.utsouthwestern.edu/why-work-here/diversity-inclusion>.