

Cell Fusion in Development and Regeneration- Postdoc

A postdoctoral training position is available in the laboratory of [Elizabeth Chen](#) in the Molecular Biology Department at UT Southwestern Medical Center to study the molecular and cellular mechanisms of cell-cell fusion in development and regeneration. Cell-cell fusion is critical for fertilization, muscle development, bone remodeling, immune response, placental formation, and stem cell-mediated tissue regeneration. Failure in cell fusion leads to a plethora of defects such as infertility, congenital myopathy, osteopetrosis, immune deficiency, and preterm birth. The Chen lab has discovered the asymmetric fusogenic synapse and actin/actomyosin-mediated mechanical interactions between fusing cells [Science 340,359-63; Dev Cell 32,561-73; Nat Cell Biol 20,688-698; Nat Cell Biol. 22,674-688].

Our [laboratory](#) has several exciting projects related to using a multidisciplinary approach (involving genetics, molecular biology, cell biology, biochemistry and biophysics) in multiple experimental systems (*Drosophila*, zebrafish, mouse and cultured cells). The postdoctoral fellow will work on an NIH-funded project in a dynamic, versatile, and collaborative lab environment. Research areas include actin cytoskeletal regulation, mechanobiology, muscle biology, and membrane biology.

Candidates must hold a recent Ph.D. and/or M.D. degree. Experience in genetics, cell biology, molecular biology, biochemistry and/or biophysics leading to publication in peer-reviewed journals is recommended. Prior experience in *Drosophila* genetics is preferred but not required.

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 to:

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<https://profiles.utsouthwestern.edu/profile/38214/elizabeth-chen.html>

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