

# Fan Feng

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Human neuronal progenitor cells project

Rett Syndrome (RTT) is a genetic neurodevelopment disorder, which caused by the frameshift mutation of MeCP2. Since the neural circuits of RTT is not permanently deformed but fail to mature, this project is aims to study the effect of mechanical cues on neural differentiation of both normally health and diseased cells. Polymer substrates with different stiffness would be fabricate and characterize. And then characterize neuronal differential of RTT patient-derived iPSCs on the substrates. Later, the biophysical cues impact in both health control and RTT would be analyzed.