

Open projects

**Molecular mechanisms underlying human neurodevelopmental disorders caused by mutations in epigenetic factors**

We have two projects that aim to elucidate the cellular and molecular mechanisms underlying neurodevelopmental disorders, specifically microcephaly and macrocephaly. The projects aim to dissect the functional role of epigenetic regulation in neural stem cell proliferation, differentiation and neuronal maturation. Models of *in vivo* brain development and human cortical organoids will be employed.

*Preferred Course of Study/Expertise of Candidate:* Molecular biology, cell biology, genetics, neurobiology.