Postdoctoral Position
Silver Lab
Duke University Medical Center

The Silver lab at Duke University School of Medicine seeks a highly motivated postdoctoral research fellow to investigate genetic and viral causes of microcephaly. The successful applicant will have a strong and productive scientific record, be highly collaborative, inquisitive, diligent, and have previous experience in one or more of the relevant fields: virology, developmental neurobiology, mouse genetics, and RNA biology.

The Silver lab investigates genetic and cellular mechanisms controlling cerebral cortex development, and contributing to neurodevelopmental pathologies and brain evolution. To tackle these questions we employ mouse genetics and embryology, fixed and live imaging of embryonic brain slices and neural progenitors, and genomics. The Silver lab has ongoing collaborations with expert virologists and RNA biologists in the Department as well as with other developmental neurobiology labs at Duke.

Our recent accomplishments include: discovery of novel post-transcriptional mechanisms controlling neural progenitor function and contributing to microcephaly (Pilaz et al, Current Biology, 2016; Pilaz, McMahon et al, Neuron, 2016; Mao, McMahon et al, PLOS Genetics, 2016; Mao et al, J. Neuroscience, 2015) and discovery of new genetic mechanisms relevant for brain evolution (Boyd et al, Current Biology, 2015; Silver, Bioessays, 2016). Please see: https://sites.duke.edu/silverlab/

The postdoctoral fellow will investigate the underpinnings of how ZIKA virus infection impairs fetal brain development. He/She will implement cutting edge technologies in both brain development and virology. Additionally the fellow will have the opportunity to pursue complementary projects in the lab at the intersection of RNA biology and brain development. The lab and Department offer a vibrant and rigorous training environment for postdoctoral fellows.

Candidates must apply online to this position to be considered. https://academicjobsonline.org/ajo/jobs/9435

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