POSTDOCTORAL POSITIONS

BDNF, TRPC Channels and their role in Rett Syndrome and MeCP2-Associated Autism-Spectrum Disorders

Department of Neurobiology

The University of Alabama at Birmingham, USA

Two NIH-funded positions are available in 2010 to study the role of the neurotrophin BDNF and of TRPC channels in the cellular and synaptic dysfunction in the hippocampus of *Mecp2*-based animal models of Rett syndrome. We apply several functional and structural approaches to acute and cultured slices of hippocampus from rats and genetically engineered mice, including intracellular whole-cell recordings, Ca^{2+} and voltage-dye imaging, confocal microscopy, synaptic vesicle recycling with FM dyes, multiphoton excitation microscopy, as well as conventional and rapid-freezing electron microscopy. Successful candidates will have a Neurobiology and/or Biophysics background, and some experience with microscopy and/or electrophysiology. Interested individuals should send a cover letter describing their research experience and interests, CV, and names of 3 references to:

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