Postdoctoral Research Fellowships Available

Dissecting Nervous System Tumor-Stroma Interdependencies

For the past 25 years, research in the Gutmann laboratory (https://gutmannlab.wustl.edu/) has focused on elucidating the principles that govern nervous system development relevant to nervous system cancer. Using numerous converging methodologies and approaches, including novel genetically engineered mouse strains and human induced pluripotent stem cells, we seek to define the interplay between cells and signals within the tumor ecosystem. Leveraging these unique platforms in the context of the Neurofibromatosis type 1 (NF1) cancer predisposition syndrome, we study the cells of origin for low-grade gliomas (Hegedus B, Cell Stem Cell 2007; Lee DY, Genes Dev 2010; Lee DY, Cancer Cell 2012), the role of T cells and microglia in establishing a supportive tumor microenvironment (Daginakatte G, Cancer Res 2008; Pong WW, Ann Neurol 2013; Pan Y, Genes Dev 2018), the importance of sex and germline genetics to the implementation of precision medicine strategies (Diggs-Andrews KA, Ann Neurol 2013; Anastasaki C, Hum Mol Genet 2015; Toonen JA, J Exp Med 2017), and the mechanisms that underlie stem cell function relevant to brain tumor formation and growth (Chen YH, Cell Rep 2015; Chen YH, Genes Dev 2015).

We are currently recruiting new trainees interested in working in a diverse cross-disciplinary environment (https://nfcenter.wustl.edu).

Interested candidates should email a letter of intent and an updated cv to Dr. Gutmann (gutmannd@wustl.edu).