



Postdoctoral Scientist Position

**Department of Neurosurgery
Herbert Irving Cancer Center
Columbia University**

A postdoctoral scientist position is available at the Brain Tumor Laboratory of Dr. Adam Sonabend. Dr. Sonabend is a neurosurgeon who combines clinical work with basic and translational research. The main goal of his lab is to further our knowledge of brain tumor biology and therapeutics to be able to personalize patient care based on molecular insights. The environment offers dedicated scientific mentorship by Dr. Sonabend and prominent collaborators, as well as access to human brain tumor specimens and clinical data allowing for research immediately relevant to patient care. An area of focus of the lab is the study of Topoisomerase II in transcriptional regulation in glioblastomas and its therapeutic exploitation for personalized care but the lab has broader ambitions.

This work involves the use of cell lines, transgenic mouse models and human specimens, biochemistry and molecular biology. Given the variation in response of glioma patients to etoposide, another interest of the lab is the identification of molecular features that predict glioma susceptibility to etoposide, a Topoisomerase II targeting poison. Identifying these molecular features will allow us to intelligently select patients for a clinical trial of intratumoral etoposide for the treatment of gliomas.

The ideal applicant will have: MD and/or PhD degree with background in biochemistry, chromatin structure and epigenetics, pharmacology and/or cancer biology. The ideal applicant will be ambitious and energetic, have an interest in translational research and will be hard working, of impeccable integrity, have excellent past training and be able to learn new methods and procedures quickly.

Specific skills of value: Chromatin immunoprecipitation, chromatin accessibility assays, flow cytometry, microscopy and histology, gene silencing and over-expression techniques, CRISPR, gene expression analysis, and cloning and rescue of retroviral and lentiviral vectors. We offer a fast-paced working environment, great colleagues, a competitive salary and benefits package. We are strongly committed to supporting career development of the scientists, including support for submission of fellowship/award applications and travel expenses for presentation of work at conferences and meetings.

Please contact Dr. Sonabend (as3537@cumc.columbia.edu) with a CV and if interested.

Columbia University is an affirmative action/equal opportunity employer.