

CHOP Research Institute Summer Scholars Program



Adam Resnick, Ph.D.

Neurosurgery

Translational Research: Research focused on bringing concepts in laboratory research directly into medical practice (may or may not involve human subjects)

Molecular Characterization and Targeting of Pediatric Brain Tumors

Our laboratory studies cell signaling cascades and their alterations in pediatric brain tumors. The goal of the laboratory is to elucidate the molecular and genetic underpinnings of pediatric brain tumors in an effort to identify and develop targeted therapies.

- **Potential summer research project:**
Independent research projects will involve translational approaches evaluating the signaling pathways involved in pediatric tumors and the modulation of these pathways via molecular, genetic, and pharmacologic approaches. Students will work in multidisciplinary teams, including students at all training levels, scientists, oncologists, and neurosurgeons.
- **Students will learn the following techniques:**
(1) Cell and molecular based techniques including molecular cloning; **(2)** Immunoprecipitations, transfections; **(3)** CHIP (chromatin immunoprecipitations); and **(4)** Drug/inhibitor studies and chemical genetic approaches.

Please click [here](#) to read more about Dr. Resnick