The Department of Pathology and Laboratory Medicine at CHOP is pleased to offer 2 summer internship opportunities for first-year medical students. Students will be paid a stipend of $5,000, and depending on the interests of the student we would be happy to arrange shadowing opportunities in a variety of settings. The project(s) are described below, and each has a faculty sponsor. Interested students should contact the faculty sponsor.

**Tumor immune microenvironment assessment to predict response to CAR T cell therapy**

**Sponsor: Vinodh Pillai, M.D., Ph.D., Division of Hematopathology and Immunology, Center for Childhood Cancer Research**

[pillaiv1@email.chop.edu](mailto:pillaiv1@email.chop.edu)

CAR T cell therapy is a novel cell therapy that is utilized to treat patients with leukemia and lymphoma. Patient’s T cells are genetically modified to target tumor and reinfused. Many patient do not respond or relapse after responding initially. The project involves predicting response to CAR T cell therapy from analysis of the pre-CAR tumor immune microenvironment. Students will have the opportunity to take part in the development and validation of a clinical assay. Two positions are available to UPenn medical students.