

Sample Training Plan

Adam Smith joined the lab in August 2018, following his sophomore year at the Pennsylvania State University. He is working towards a BS degree in Biology.

Research Goals: **Adam** will be directly supervised by lab manager Kate Jones and Postdoctoral Fellow Derek Joyce to become an expert in cell culture, RNA isolation, and PCR. Due to his interest in cancer biology and health disparities, he will use PCR to determine whether human B-cell malignant cell lines contain the short isoform of PIK3CD, which is more aggressive than the long isoform and is more common in African Americans. This experiment will use molecularly cloned cell lines to compare the short and long isoforms and develop a cell-free kinase luminescence assay to study the sensitivity of recombinant isoforms to drugs that inhibit B-cell malignancies. **Adam** will present findings to the research group each week. Dr. Chan will meet with him individually each week to review research progress.

Adam will attend weekly seminars and workshops on cancer biology, experimental design, and professional development. He will also attend laboratory safety and biosafety training at the beginning of the summer and will participate in a book club focused on cancer health disparities.

He will write an abstract and present a poster at the end of the summer in the Undergraduate Research Symposium held on August 2. In the fall he will submit an abstract to the ABRCMS and the AACR research meetings.

Individual Development Plan: **Adam** is meeting with GWU Associate Dean for Research Workforce Development, Dr. Alison Hall, to complete an individual development plan. This will assist him in considering long-term career goals and the skills needed to achieve them. IDPs were a focus of a recent workshop on campus by Dean Hall, who will work with **Adam** on career development. **Adam** has expressed a desire to go to graduate school for a Ph.D. degree. In addition, Dean Hall will introduce **Adam** to Dr. Yolanda Haywood, the GW SMHS Associate Dean for Diversity, Inclusion and Student Affairs as another mentor to help him achieve his career goals

Professional Development: He will give weekly research updates to the Chan Lab. He will contribute to research that will result in three abstract submissions. He will also attend weekly workshops on professional development, including workshops on applying to graduate school and applying for fellowships.