

Position: Technical Assistant/Laboratory Technician in Cancer Precision Medicine

Description: Our lab at NYU Medical School, is seeking a full time Technical Assistant/Laboratory Technician to work in the field of cancer biology, precision medicine and cancer genome engineering. Our laboratory studies lung cancer, which is the leading cause of cancer-related deaths worldwide. We use genetically engineered mouse models (GEMMs) of lung cancer, which recapitulate the genetics, progression and tissue microenvironment of human cancers. Using novel CRISPR/Cas9 genome engineering approaches in GEMMs (Sánchez-Rivera, F. J. et al, *Nature* 2014), we can rapidly characterize the function of genes that are highly mutated in lung cancer patients, elucidate the mechanism of action of these mutations and identify novel targeted therapies against tumors with these mutations (Romero R. et al., *Nature Medicine*, 2017). We also use these novel GEMMs to understand how tumor-promoting mutations impact the interaction of tumor cells with the immune system with the goal to improve lung cancer immunotherapy. Overall, our research aims to identify tumor vulnerabilities that can be used for future precision medicine approaches to target genetic subtypes of lung cancer and improve overall responses to therapies.

Responsibilities: This individual will work closely with the laboratory principle investigator and postdoctoral fellows to accomplish the research objectives of the lab and participate in original biomedical research in the field of cancer. The candidate will contribute to mouse colony management and husbandry; isolation of genomic DNA and PCR-based genotyping; CRISPR/Cas9 genome engineering; participation in the isolation and histopathological analysis of tumors; use of standard molecular biology techniques including molecular cloning, immunohistochemistry, western blotting and tissue culture. In addition to experimentation, the duties will include management of laboratory supplies and attending and participating in group and project meetings.

Qualifications: Bachelor's degree with undergraduate training in Biology, Chemistry, similar life sciences, or equivalent science experience. The applicant should be highly motivated, self-driven, organized, and reliable. Candidates should have prior laboratory. Experience with animals, cell culture and basic molecular biology techniques is preferred. For candidates interested in applying to graduate or medical school programs after 2-3 years of technician position, our lab has a good track record, technical assistants and undergraduates that performed research in the Papagiannakopoulos lab have been admitted into top-ranked graduate and medical school programs in the US.

Start date: Spring/Summer/Fall 2019

Contact: Interested applicants should email their CV/Resumes to Thales Papagiannakopoulos (papagt01@nyumc.org) highlighting relevant experience as well as a brief description of their future goals. Link: <http://thalesplab.com>