

Position: Technical Assistant/Laboratory Technician

Description: Our lab at NYU Medical School, Department of Pathology, is seeking a full time Technical Assistant/Laboratory Technician to work in the field of cancer metabolism and cancer genome engineering. Cancer is a multistep process, which involves alterations in cell-autonomous and non-autonomous events that are modulated by metabolic factors. My laboratory uses genetically engineered mouse models (GEMMs) of lung cancer, which recapitulate the genetics, histological progression and tissue microenvironment, to understand the interactions between tumor cell autonomous oncogenic events and alterations in tumor or whole-animal metabolism (Papagiannakopoulos, T. et al, *Cell Metabolism*, 2016). We recently pioneered novel CRISPR/Cas9-based somatic genome engineering in lung cancer GEMMs (Sánchez-Rivera, F. J. and Papagiannakopoulos, T. et al, *Nature* 2014). Using CRISPR/Cas9-based genome engineering, we have developed a platform to rapidly characterize the function of genes which are highly mutated in lung cancer, elucidate their mechanism of action and identify novel targeted therapies against complex genetic subtypes of lung cancer. (Ashouri et al., *Nature Communications*, 2017; Romero R. et al., *Nature Medicine*, 2017; Sayin VI et al., *eLife*, 2017).

Responsibilities: This individual will work closely with the laboratory Principle Investigator and a postdoctoral fellow 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; 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 Technician's duties will include management of laboratory supplies (inventorying stock, placing orders, and verifying receipt), assisting with equipment maintenance, 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. Prior laboratory experience with animals, cell culture and basic molecular biology techniques is preferred. Optimal for students applying to graduate or medical school programs in 2-3 years. The two first technical assistants from the Papagiannakopoulos lab were admitted into top-ranked graduate programs in the US.

Start date: Summer/Fall 2018

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>