Molecular mechanisms underlying development and progression of nonalcoholic fatty liver disease

Our laboratory has an ongoing research program in genetic, genomic, and epigenetic mechanisms underlying the development and progression of complex metabolic disorders, including nonalcoholic fatty liver disease, hypercholesterolemia, and renal complications of type 2 diabetes. This project will involve functional characterization of variants that have been found to be associated with nonalcoholic fatty liver disease. The majority of this project will utilize standard molecular and cellular biology techniques including SNP genotyping, RNA-sequencing, quantitative RT-PCR, ELISA, western blotting, cell culture, transcription assays, electrophoretic mobility shift assays, and PCR amplification. Results from this work will enhance our understanding of the inheritance and pathogenesis of the disease and potentially lead to improved treatment and prevention strategies.

Requirements

A minimum time commitment of 10 hours per week is required, in addition, the student should be willing to commit at least one year to the program. We are looking for an individual who is motivated, enthusiastic, and hard-working, and is able to work comfortably both independently and as part of a team. Some background in basic laboratory techniques will be helpful, but not required. This position is located on the campus of the Translational Genomics Research Institute, which is located in downtown Phoenix.

Contact Information

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