

**Abstract of proposed student project** (1 page limit. This should mirror the aims page of a grant and CLEARLY indicate the student's role.)

During a surveillance sampling of wild fish from the state of Kentucky, creek chub (*Semotilus atromaculatus*), blotched chub (*Erimystax insignis*), river chub (*Nocomis micropogon*), and rock bass (*Ambloplites rupestris*) were collected and subjected to routine health assessment. Metagenomic analysis of the cell culture supernatant, following the appearance of cytopathic effect, revealed the presence of picornaviruses in all samples. In this project, the student will characterize the genomes of the picornaviruses and perform phylogenomic analysis to determine viral taxonomy and strain variations, if any.

**The significance for Veterinary Medicine and the student:** The student will learn next-generation sequencing and phylogenomic analysis. This research is feasible within the 3-month internship, and Dr. Subramaniam and his team will work closely with the student to ensure success. The student also encouraged to develop their own poster and present it at the local and regional meetings.