

## **Research Project**

### **Title**

The etiology of inherited neurological diseases

### **Project Description**

The cause of many human neurological diseases remains unknown. Using a combination of microarray-based autozygosity mapping and next-generation sequencing technology in highly genetically-informative families, we are studying the genetic basis of several pediatric neurological diseases. These include neurodegeneration with brain iron accumulation (NBIA), hereditary spastic paraplegia, dystonia, parkinsonism, and ataxia. Using a complementary genomic approach will allow us to identify new genes that, when mutated, lead to human neurodegenerative diseases.