

Research use statement:

We are a part of collaborations with the Yokoyama lab at UCSF and the Kosik lab at UCSB to analyze genomes for early onset Alzheimer's and frontotemporal dementia cohorts compared to unaffected controls. A critical part of these efforts is replication of any findings in independent cohorts. Access to Alzheimer's Disease Sequencing Project (ADSP) data is ideal for this purpose. We will analyze ADSP data for association signals identified in our independent cohorts using either single variant or burden analysis approaches. Phenotypic characteristics that will be evaluated in association with genetic variants will be either case/control status or age of symptom onset as available. Although we conduct these projects as collaborations, this application is for analysis of ADSP data at HudsonAlpha.

Nontechnical summary:

We work together with the Yokoyama lab at UCSF and the Kosik lab at UCSB to analyze the DNA from patients with early onset Alzheimer's and frontotemporal dementia in comparison to people without these diseases. A critical part of this type of work is checking to see if findings from one set of patients are reproducible in different sets of patients. Access to Alzheimer's Disease Sequencing Project (ADSP) data would allow for us to answer this question. We will analyze ADSP data for association signals identified in our independent sample sets. The types of data that will be evaluated in association with genetics will be either if the individuals assessed have disease or not, or if their genetics affects when they develop disease.