

Next-generation sequencing multi-ethnic families with late-onset Alzheimer's disease

ABSTRACT

For 25 years, we have investigated the genetic bases of familial and sporadic Alzheimer's disease (AD) in the Caribbean Hispanics in the US and in the Dominican Republic (DR), contributing samples and data to the Alzheimer's Disease Genetics Consortium (ADGC) and the Alzheimer's Disease Sequencing Project (ADSP). Caribbean Hispanics (CH) have an increased frequency of sporadic and familial Alzheimer's disease (AD) and increased consanguinity in the population results in enrichment of recessive effects in disease. We have conducted genetic analyses over 500 families multiply affected by AD, and over 4000 individuals with sporadic AD and matched healthy controls from the US and the Dominican Republic (DR). I will review our initial efforts of conducting targeted sequencing on candidate genes in this cohort, followed up whole exome and whole genome scans to identify novel mutations and genes that modify risk of Alzheimer's Disease.

BADRI N. VARDARAJAN, PHD, MS

*Assistant Professor of Bioinformatics in Neurology
and the Gertrude H. Sergievsky Center*



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