# TOPMed Study Acknowledgments

**NHLBI TOPMed: Genetics of Cardiometabolic Health in the Amish**

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**NHLBI TOPMed: Trans-Omics for Precision Medicine Whole Genome Sequencing Project: ARIC**

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**NHLBI TOPMed: The Genetics and Epidemiology of Asthma in Barbados**

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**NHLBI TOPMed: Cleveland Clinic Atrial Fibrillation Study**

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**NHLBI TOPMed: The Cleveland Family Study (WGS)**

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**NHLBI TOPMed: Cardiovascular Health Study**

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**NHLBI TOPMed: The Genetic Epidemiology of Asthma in Costa Rica**

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**NHLBI TOPMed: Diabetes Heart Study African American Coronary Artery Calcification (AA CAC)**

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**NHLBI TOPMed: Whole Genome Sequencing and Related Phenotypes in the Framingham Heart Study**

The Framingham Heart Study (FHS) is a prospective cohort study of 3 generations of subjects who have been followed up to 65 years to evaluate risk factors for cardiovascular disease.13-16 Its large sample of ~15,000 men and women who have been extensively phenotyped with repeated examinations make it ideal for the study of genetic associations with cardiovascular disease risk factors and outcomes. DNA samples have been collected and immortalized since the mid-1990s and are available on ~8000 study participants in 1037 families. These samples have been used for collection of GWAS array data and exome chip data in nearly all with DNA samples, and for targeted sequencing, deep exome sequencing and light coverage whole genome sequencing in limited numbers. Additionally, mRNA and miRNA expression data, DNA methylation data, metabolomics and other 'omics data are available on a sizable portion of study participants. This project will focus on deep whole genome sequencing (mean 30X coverage) in ~4100 subjects and imputed to all with GWAS array data to more fully understand the genetic contributions to cardiovascular, lung, blood and sleep disorders.

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**NHLBI TOPMed: The Vanderbilt Atrial Fibrillation Registry**

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**NHLBI TOPMed: Novel Risk Factors for the Development of Atrial Fibrillation in Women**

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