

Resource Summary Report

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A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans

RRID:SCR_006984

Type: Tool

Proper Citation

A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans
(RRID:SCR_006984)

Resource Information

URL: <http://www.broad.mit.edu/node/549>

Proper Citation: A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans (RRID:SCR_006984)

Description: Genomic data set on Type 2 Diabetes in African-Americans derived via admixture mapping, a method for genome-wide association analysis based on admixture-generated linkage disequilibrium. This collaborative group has identified 1,478 African Americans with Type 2 Diabetes (T2D) from the Jackson Heart Study and Multiethnic Cohort Study, as well as 498 controls from the Jackson Heart Study who are normoglycemic despite high body mass index and older age. All samples were genotyped (using the Illumina BeadLab platform) for 1,291 polymorphic markers chosen to be extremely different in frequency between west Africans and European Americans. Evidence for association to diabetes at each marker as reported by the ANCESTRYMAP software are reported in the downloadable table. They calculate that this study has statistical power to detect loci where African or European ancestry on average confers multiplicative increased risk of 1.35-fold or more. The fact that they did not detect a statistically significant signal of association in the scan suggests that any genetic risk factors for T2D do not confer different risks due to ancestry that differ by this factor. The genome scan results are publicly available (Excel file) prior to publication so that researchers interested in the genetics of T2D can use the results of the scan to prioritize follow-up of any regions of interest.

Synonyms: Diabetes Genetics Initiative

Resource Type: data or information resource, data set

Keywords: admixture, genome, gwas, disequilibrium, normoglycemic, genotyped, polymorphic, marker, diabetes, clinical study, phenotype, african american, aging

Related Condition: Diabetes

Funding: Eli and Edythe L. Broad

Availability: Genome scan is available for download as CSV

Resource Name: A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans

Resource ID: SCR_006984

Alternate IDs: nif-0000-30020

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260728T043242+0000

Ratings and Alerts

No rating or validation information has been found for A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans.

No alerts have been found for A Whole Genome Admixture Scan for Type 2 Diabetes in African Americans.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Cheng CY, et al. (2009) Admixture mapping of 15,280 African Americans identifies obesity susceptibility loci on chromosomes 5 and X. PLoS genetics, 5(5), e1000490.