

GO:0045109 : intermediate filament organization
(<https://www.ebi.ac.uk/QuickGO/term/GO:0045109>)
GO:0070268 : cornification (<https://www.ebi.ac.uk/QuickGO/term/GO:0070268>)
GO - Cellular Component

GO:0005829 : cytosol (<https://www.ebi.ac.uk/QuickGO/term/GO:0005829>)
GO:0005856 : cytoskeleton (<https://www.ebi.ac.uk/QuickGO/term/GO:0005856>)
GO:0001533 : cornified envelope (<https://www.ebi.ac.uk/QuickGO/term/GO:0001533>)

Unknown (<https://www.gephebase.org/search-criteria?/and+Presumptive Null=^Unknown^#gephebase-summary-title>) Presumptive Null

Unknown (<https://www.gephebase.org/search-criteria?/and+Molecular Type=^Unknown^#gephebase-summary-title>) Molecular Type

Unknown (<https://www.gephebase.org/search-criteria?/and+Aberration Type=^Unknown^#gephebase-summary-title>) Aberration Type

Unknown (<https://www.gephebase.org/search-criteria?/and+Aberration Type=^Unknown^#gephebase-summary-title>) Molecular Details of the Mutation

Not identified Experimental Evidence

Association Mapping (<https://www.gephebase.org/search-criteria?/and+Experimental Evidence=^Association Mapping^#gephebase-summary-title>) Main Reference

Common variants in the trichohyalin gene are associated with straight hair in Europeans. (2009) (<https://pubmed.ncbi.nlm.nih.gov/19896111>) Authors

Medland SE; Nyholt DR; Painter JN; McEvoy BP; McRae AF; Zhu G; Gordon SD; Ferreira MA; Wright MJ; Henders AK; Campbell MJ; Duffy DL; Hansell NK; Macgregor S; Slutske WS; Heath AC; Montgomery GW; Martin NG

Hair morphology is highly differentiated between populations and among people of European ancestry. Whereas hair morphology in East Asian populations has been studied extensively, relatively little is known about the genetics of this trait in Europeans. We performed a genome-wide association scan for hair morphology (straight, wavy, curly) in three Australian samples of European descent. All three samples showed evidence of association implicating the Trichohyalin gene (TCHH), which is expressed in the developing inner root sheath of the hair follicle, and explaining approximately 6% of variance ($p=1.5 \times 10^{-31}$). These variants are at their highest frequency in Northern Europeans, paralleling the distribution of the straight-hair EDAR variant in Asian populations.

Abstract

Additional References

RELATED GEPHE

1 (P2RY5) (<https://www.gephebase.org/search-criteria?/or+Taxon ID=^9606^/and+Trait=Hair type/and+groupHaplotypes=true#gephebase-summary-title>) Related Genes

No matches found. Related Haplotypes

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