

# Eye-Color Variation

Siim Sõber

08.04.2007

# **A Three–Single-Nucleotide Polymorphism Haplotype in Intron 1 of *OCA2* Explains Most Human Eye-Color Variation**

David L. Duffy,<sup>\*</sup> Grant W. Montgomery,<sup>\*</sup> Wei Chen, Zhen Zhen Zhao,  
Lien Le, Michael R. James, Nicholas K. Hayward, Nicholas G. Martin,  
and Richard A. Sturm

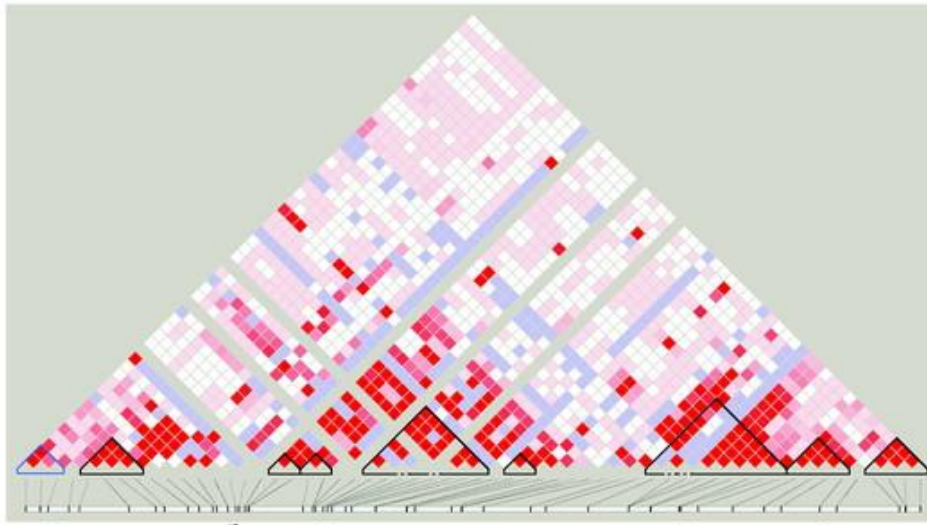
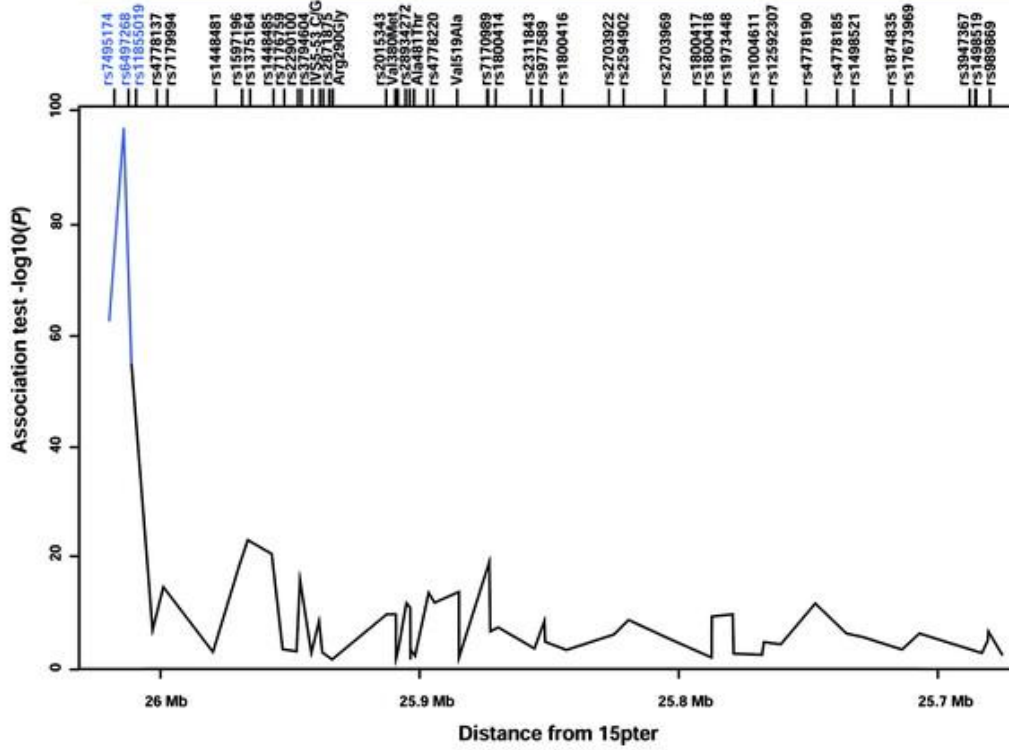
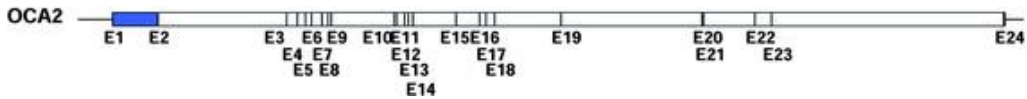
*Am. J. Hum. Genet.*, 80:241-252, 2007

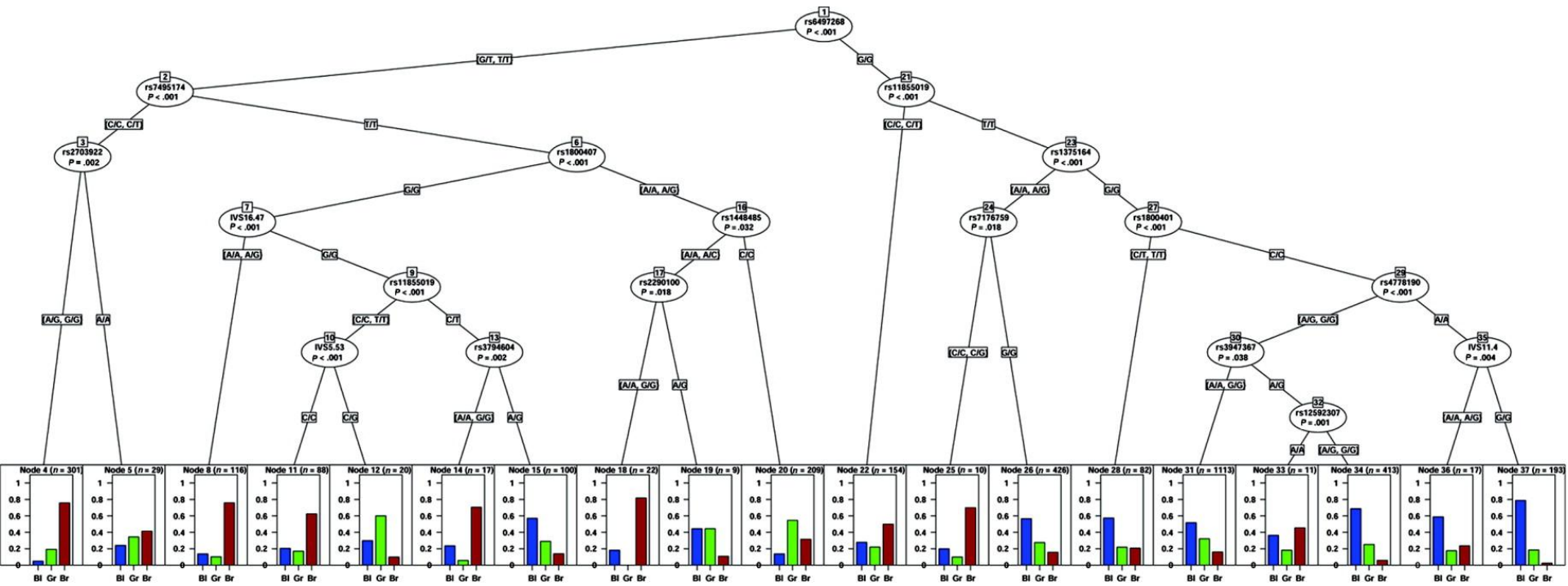
3839 individuals

58 genotyped SNPs

**Table 1. Distribution of Pigmentation Phenotypes among Genotyped Study Participants**

Phenotype	No. (%) of Subjects with Phenotype		
	Females	Males	All
Eye color:			
Blue/gray	617 (45.5)	613 (47.7)	1314 (46.1)
Green/hazel	405 (29.8)	333 (25.9)	789 (27.7)
Brown	335 (24.7)	340 (26.4)	749 (26.3)
Total	1,357 (100)	1,286 (100)	2,852 (100)
Hair color:			
Red/auburn	81 (6.0)	46 (3.6)	146 (5.1)
Fair/blond	210 (15.5)	158 (12.3)	377 (13.2)
Light brown	464 (34.2)	445 (34.6)	974 (34.2)
Dark brown	570 (42.0)	574 (44.7)	1234 (43.3)
Black	32 (2.4)	62 (4.8)	120 (4.2)
Total	1,357 (100)	1,285 (100)	2,851 (100)
Skin Color:			
Fair/pale	547 (41.8)	512 (40.8)	1,099 (40.4)
Medium	630 (48.1)	580 (46.3)	1,295 (47.6)
Olive/dark	132 (10.1)	162 (12.9)	324 (11.9)
Total	1,309 (100)	1,254 (100)	2,718 (100)

**A****B****C**



18 SNPs

