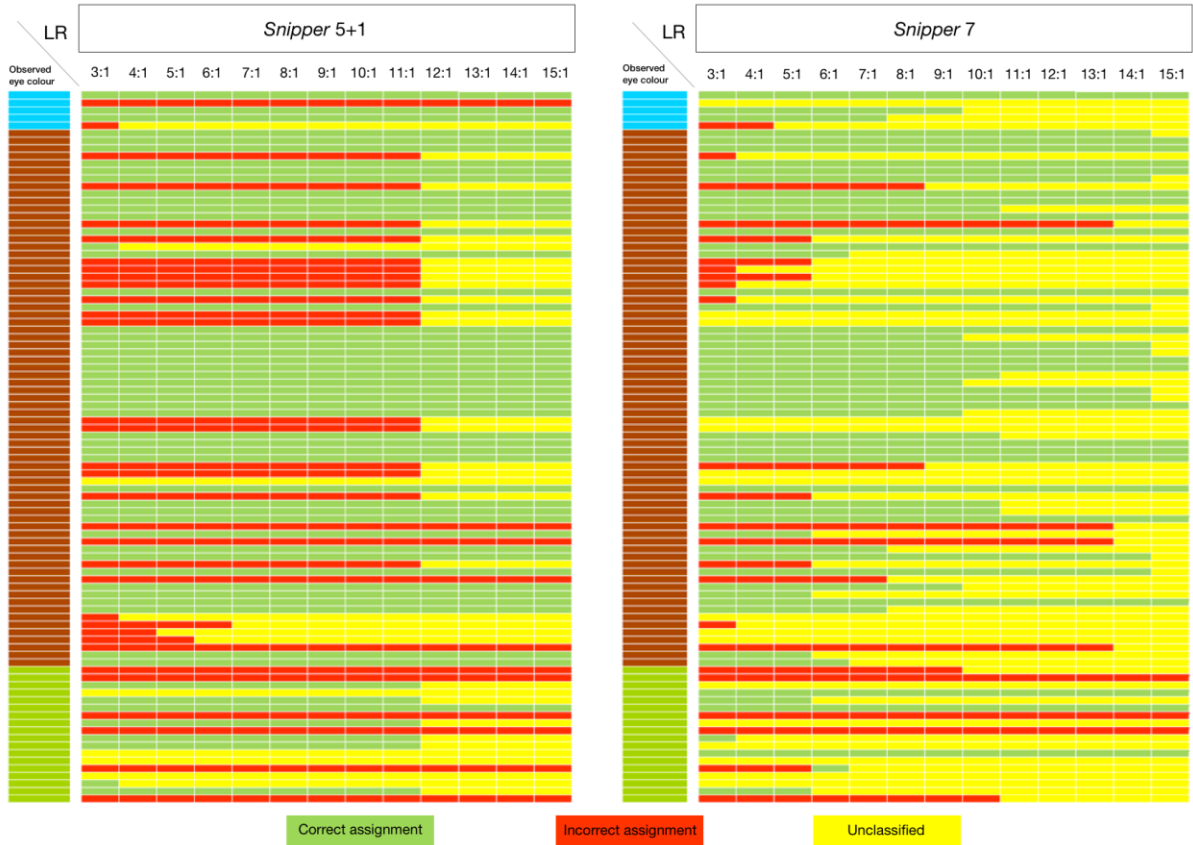
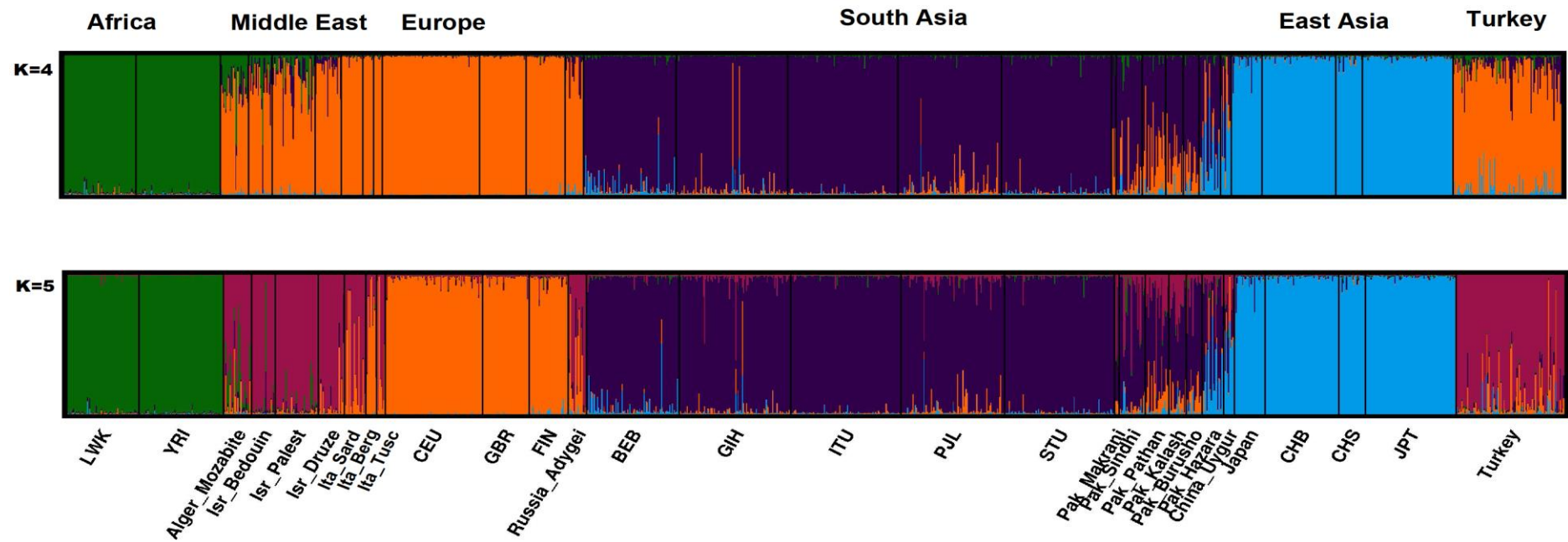


SUPPLEMENTARY DATA



Supplementary Figure 1. Assessment of the optimum likelihood ratio for eye colour prediction for Turkish population samples in either *Snipper5+1* or *Snipper7* analyses, ranging from 3:1 to 15:1.



Supplementary Figure 2. Structure cluster plots (K=4 and K=5) for reference populations and Turkish population.

Supplementary Table 1. Details of the population samples.

<i>No</i>	<i>Population Sample</i>	<i>Population Code</i>	<i>Sample Size (N)</i>	<i>Source</i>
1	Luhya in Webuye, Kenya	LWK	67	1000 Genomes
2	Yoruba in Ibadan, Nigeria	YRI	78	1000 Genomes
3	Algeria–Mozabite	Alger_Mozabite	26	HGDP-CEPH
4	Israel (Bedouin)	Isr_Bedouin	22	HGDP-CEPH
5	Israel (Palestinian)	Isr_Palest	40	HGDP-CEPH
6	Israel (Druze)	Isr_Druze	24	HGDP-CEPH
7	Italy (Bergamo)	Ita_Berg	8	HGDP-CEPH
8	Italy (Tuscan)	Ita_Tusc	10	HGDP-CEPH
9	Italy (Sardinian)	Ita_Sard	20	HGDP-CEPH
10	Utah residents with European ancestry	CEU	90	1000 Genomes
11	British	GBR	43	1000 Genomes
12	Finnish	FIN	36	1000 Genomes
13	Russia–Adygei	Russia–Adygei	17	HGDP-CEPH
14	Pakistan (Makrani)	Pak_Makrani	4	HGDP-CEPH
15	Pakistan (Sindhi)	Pak_Sindhi	24	HGDP-CEPH
16	Pakistan (Pathan)	Pak_Pathan	22	HGDP-CEPH
17	Pakistan (Kalash)	Pak_Kalash	16	HGDP-CEPH
18	Pakistan (Burusho)	Pak_Burusho	15	HGDP-CEPH
19	Pakistan (Hazara)	Pak_Hazara	20	HGDP-CEPH
20	Punjabi in Lahore, Pakistan	PJL	96	1000 Genomes
21	Bengali in Bangladesh	BEB	86	1000 Genomes
22	Gujarati Indian in Houston, Texas	GIH	103	1000 Genomes
23	Indian Telugu in the UK	ITU	102	1000 Genomes
24	Sri Lankan Tamil in the UK	STU	102	1000 Genomes
25	Han Chinese	CHB	68	1000 Genomes
26	Southern Han Chinese	CHS	25	1000 Genomes
27	Japanese	JPT	84	1000 Genomes
28	Japan	Japan	28	HGDP-CEPH
29	China–Uygur	China–Uygur	10	HGDP-CEPH