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Supplemental Data

Whole-Genome Genetic Diversity in a Sample of Australians with Deep Aboriginal Ancestry

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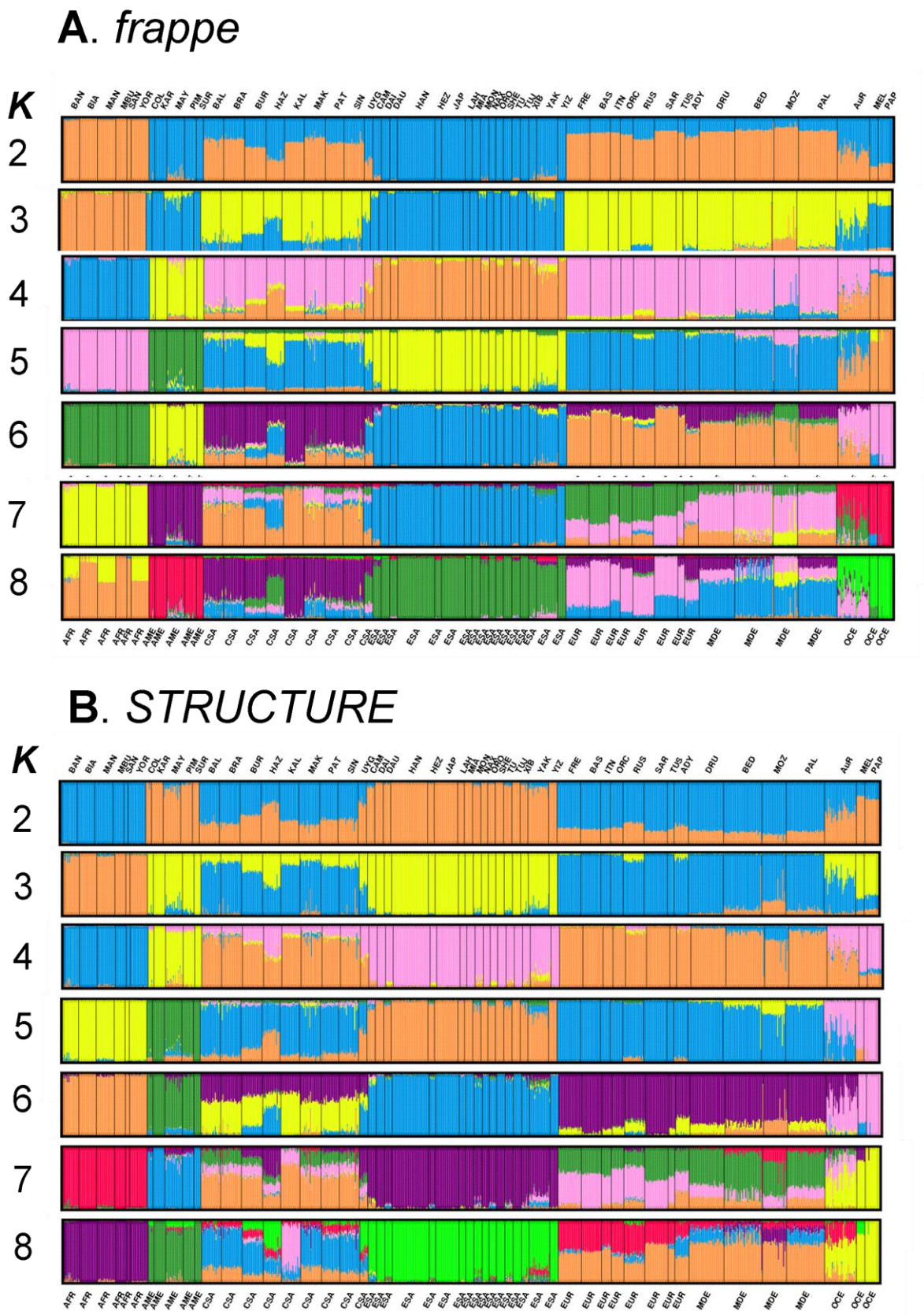

Figure S1– Individual ancestry proportions in the HGDP and Aboriginal Australians (AuR) population samples, estimated by **(A)** *frappe*, using all 155,166 autosomal markers and (**B**)

STRUCTURE analysis, using a one-tenth subset (15,516) of all autosomal SNPs. Each vertical line represents an individual and is divided into *K* (number of population clusters) coloured segments reflecting the estimated ancestry proportion from each cluster. Different geographic samples are divided by black lines with population and region indicated above and below the plot respectively. See **Supplementary Table 2** for an explanation of population codes. *frappe* runs used 5,000 EM iterations while STRUCTURE runs were conducted under the admixture model with a 25,000 replicate burn-in followed by 25,000 MCMC iterations.

Population	Population Code	Sample Size
African ancestry in Southwest USA	ASW	49
Utah residents with North and West European ancestry	CEU	112
Han Chinese in Beijing, China	CHB	84
Chinese in Metropolitan Denver, Colorado	CHD	85
Gujarati Indians in Houston, Texas	GIH	88
Japanese in Tokyo, Japan	JPT	86
Luhya in Webuye, Kenya	LWK	90
Mexican ancestry in Los Angeles, California	MEX	50
Maasai in Kinyawa, Kenya	MKK	143
Toscani in Italia	TSI	88
Yoruba in Ibadan, Nigeria	YRI	113

Table S1 – HapMap3 Dataset

Population	Population Code	Region	Region Code	Sample Size
Bantu	BNE	AFRICA	AFR	19
Biaka Pygmies	BIA	AFRICA	AFR	21
Mandenka	MAN	AFRICA	AFR	22
Mbuti Pygmies	MBU	AFRICA	AFR	13
San	SAN	AFRICA	AFR	5
Yoruba	YOR	AFRICA	AFR	21
		AFRICA TOTAL		**101**
Colombian	COL	AMERICA	AME	7
Karitiana	KAR	AMERICA	AME	14
Maya	MAY	AMERICA	AME	21
Pima	PIM	AMERICA	AME	14
Surui	SUR	AMERICA	AME	8
		AMERICA TOTAL		**64**
Balochi	BAL	CENTRAL/SOUTH_ASIA	CSA	24
Brahui	BRA	CENTRAL/SOUTH_ASIA	CSA	25
Burusho	BUR	CENTRAL/SOUTH_ASIA	CSA	25
Hazara	HAZ	CENTRAL/SOUTH_ASIA	CSA	22
Kalash	KAL	CENTRAL/SOUTH_ASIA	CSA	23
Makrani	MAK	CENTRAL/SOUTH_ASIA	CSA	25
Pathan	PAT	CENTRAL/SOUTH_ASIA	CSA	22
Sindhi	SIN	CENTRAL/SOUTH_ASIA	CSA	24
Uygur	UYG	CENTRAL/SOUTH_ASIA	CSA	10
		CENTRAL/SOUTH ASIA		**200**
Cambodian	CAM	EAST-ASIA	ESA	10
Dai	DAI	EAST-ASIA	ESA	10
Daur	DAU	EAST-ASIA	ESA	9
Druze	DRU	EAST-ASIA	ESA	42
Han	HAN	EAST-ASIA	ESA	44
Hezhen	HEZ	EAST-ASIA	ESA	8
Japanese	JAP	EAST-ASIA	ESA	28
Lahu	LAH	EAST-ASIA	ESA	8
Miaozu	MIA	EAST-ASIA	ESA	10
Mongola	MON	EAST-ASIA	ESA	10
Naxi	NAX	EAST-ASIA	ESA	8
Oroqen	ORO	EAST-ASIA	ESA	9
She	SHE	EAST-ASIA	ESA	10
Tu	TU	EAST-ASIA	ESA	10
Tujia	TUJ	EAST-ASIA	ESA	10
Xibo	XIB	EAST-ASIA	ESA	9
Yakut	YAK	EAST-ASIA	ESA	25
Yizu	YIZ	EAST_ASIA	ESA	10
		EAST ASIA TOTAL		**270**
Adygei	ADY	EUROPE	EUR	17
French	FRE	EUROPE	EUR	28
French Basque	BAS	EUROPE	EUR	24
North Italian	ITN	EUROPE	EUR	12
Orcadian	ORC	EUROPE	EUR	15
Russian	RUS	EUROPE	EUR	25
Sardinian	SAR	EUROPE	EUR	28
Tuscan	TUS	EUROPE	EUR	8
		EUROPE TOTAL		**157**
Bedouin	BED	MIDDLE-EAST	MDE	46
Mozabite	MOZ	MIDDLE-EAST	MDE	29
Palestinian	PAL	MIDDLE-EAST	MDE	46
		MIDDLE-EAST TOTAL		**121**
NAN Melanesian	MEL	OCEANIA	OCE	10
Papuan	PAP	OCEANIA	OCE	17
		OCEANIA TOTAL		**27**

Table S2 - HGDP Dataset

SNP ID	Chromosome	NCBI 36 Position	F_{ST} (HM3 versus AuR)
rs324425	1	46653940	0.769952262
rs486706	1	57315371	0.691178832
rs17095579	1	74799846	0.674039353
rs17109273	1	83065455	0.693082651
rs10914054	1	178858423	0.858421486
rs12026494	1	207161387	0.74969442
rs12124089	1	214993567	0.806406762
rs16847561	1	225536172	0.694384985
rs6541321	1	228750799	0.678118368
rs10180540	2	57803608	0.659604282
rs4671871	2	68139145	0.671381176
rs10520235	2	79382202	0.672881307
rs13031410	2	103891273	0.662861477
rs1074886	2	230945817	0.653205133
rs10510663	3	35534244	0.667696526
rs12715516	3	57670241	0.673383903
rs16835687	3	125809937	0.650544073
rs6806485	3	156852784	0.729718386
rs4679883	3	161608297	0.770338402
rs11946368	4	4990324	0.651234629
rs12512962	4	25504356	0.691136015
rs17713792	4	71189199	0.723171145
rs13151168	4	106155819	0.733525876
rs244044	4	111446758	0.658708408
rs4466024	4	154679865	0.693886898
rs26878	5	4956383	0.66742965
rs10520827	5	15929687	0.717467992
rs2455206	5	28292633	0.667172593
rs4242264	5	36451181	0.738400712
rs6897035	5	56030704	0.651158532
rs2640715	5	64709498	0.683179883
rs1043526	5	67630080	0.757287922
rs17335290	5	94226564	0.674099082
rs3792884	5	131679160	0.655199786
rs17287322	5	141824272	0.669501492
rs10516081	5	170645136	0.667959186
rs10484347	6	14121739	0.684794609
rs1459047	6	21308369	0.673047531
rs853884	6	36576111	0.741335048
rs16885425	6	54508750	0.667696526
rs9363705	6	67933518	0.66108951
rs6941356	6	88024355	0.695536842
rs3734193	6	90133404	0.74640639

rs10484828	6	144077122	0.669072986
rs17077242	6	148056993	0.76007467
rs6977948	7	13605417	0.655912619
rs4722596	7	26457759	0.799333187
rs7801956	7	55181937	0.646216169
rs10266293	7	94571571	0.69409234
rs2041001	7	107870335	0.747406223
rs17544734	7	116899358	0.704465673
rs17076075	8	5969264	0.650616844
rs17749155	8	10105483	0.650823365
rs7846685	8	16906553	0.739345744
rs17818622	8	25944469	0.711027259
rs17211259	8	64486476	0.672089445
rs13282976	8	84592073	0.686296779
rs4242384	8	128587736	0.686985451
rs17587374	8	137814753	0.692825807
rs17797668	8	140696013	0.709712033
rs10810132	9	14328470	0.684466745
rs17801563	9	81653626	0.736065991
rs2766996	9	112727548	0.686305027
rs1144522	10	29421508	0.663406457
rs282689	10	60326415	0.661241795
rs35662	10	80158207	0.696238141
rs17330985	10	89972718	0.825578335
rs1982199	10	92899015	0.726444523
rs10509685	10	97011379	0.691527233
rs1889301	10	111647838	0.707662689
rs3895063	11	745659	0.782366902
rs1911627	11	7173601	0.655265962
rs11606785	11	19987006	0.76757936
rs1509595	11	24567047	0.729253135
rs728633	11	27738555	0.657009315
rs17284675	11	96778653	0.693366005
rs17510714	12	31997716	0.748527377
rs11172790	12	57555007	0.760418076
rs11831622	12	70518453	0.799107108
rs6561323	13	46083602	0.751442693
rs12585139	13	48247271	0.844889801
rs10140911	14	23985223	0.729396161
rs12882445	14	79918202	0.743789187
rs10141420	14	96385663	0.658167355
rs8036639	15	96536631	0.697604607
rs11645952	16	3312482	0.697293702
rs4619385	16	21035675	0.656275393
rs17210989	16	53730595	0.731035465
rs727108	17	44669714	0.675587278

rs1991549	17	49927285	0.669404213
rs9908046	17	50918781	0.828609677
rs722168	17	53267969	0.692551181
rs9909857	17	62347107	0.873656696
rs12458349	18	58505190	0.890010967
rs12953809	18	73087637	0.672790434
rs6030465	20	40836112	0.656716452
rs6071491	20	59117976	0.716495841
rs2826174	21	20619946	0.667082883
rs10482931	21	23199934	0.645946823
rs2838019	21	41643654	0.694348989

Table S3 – Oceania Ancestry Informative Markers (AIMs)