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Supplemental information

Reconstructing the population history of the Sinhalese, the major ethnic group in Śrī Lāṅkā

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Table S1: f_3 -admix showing source population for A) Sinhalese, and B) Śrī Laṅkā Tamils of UK (STU) with rest of the South Asian populations related to Figures 2 and 3.

Source1	Source2	Target	f_3	std. Dev	Z	SNPs
Kshatriya	Ho	Sinhala	-0.00214	0.000251	-8.525	252802
Gujaratis	Gond	Sinhala	-0.00143	0.000158	-9.04	255048
Kalash	Jamatia	Sinhala	-0.00117	0.000393	-2.965	253515
Brahmin_WB	Asur	Sinhala	-0.00105	0.000321	-3.255	252787
Pathan	Khasi	Sinhala	-0.00099	0.000348	-2.855	253635
Lambadi	Pulliyar	Sinhala	-0.0009	0.000788	-1.143	245859
Kurmi	Halakipikki	Sinhala	-0.00064	0.000663	-0.96	245986
UP_Low_Caste	Irula	Sinhala	-0.00043	0.000283	-1.505	251136
Dusadh	Sakilli	Sinhala	-0.0004	0.000325	-1.231	249749
Santhal	STU	Sinhala	-0.00037	0.000161	-2.273	254856
Dhurwa	TN_Low_Caste	Sinhala	-0.00013	0.000841	-0.156	244960
Bengali	Savara	Sinhala	0.000012	0.000867	0.014	244969
Maratha	Kurumba	Sinhala	0.000021	0.000315	0.065	249659
Dharkars	Piramalai_Kallars	Sinhala	0.000063	0.000252	0.248	251565
Harijan	Pallan	Sinhala	0.000231	0.000192	1.203	252820
Muslim	Chenchus	Sinhala	0.000351	0.000347	1.01	249125
Kanjars	Velmas	Sinhala	0.000435	0.000252	1.726	251489
Kol	North_Kannadi	Sinhala	0.000656	0.00021	3.127	252405
Brahmin_Guj	Lambadi	Sinhala	0.002073	0.000479	4.332	252356
Brahmin_Man	Bengali	Sinhala	0.002419	0.000558	4.339	251562
Burusho	Kusundas	Sinhala	0.003196	0.000324	9.872	253949
Khatri	Iyer	Sinhala	0.003888	0.000222	17.515	254103
Birhor	Kadar	Sinhala	0.006069	0.000303	20.049	251769
Bonda	Malayan	Sinhala	0.006503	0.000606	10.736	247002
Tharu	Bonda	Sinhala	0.012248	0.000395	31.026	251952

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Kharia	Birhor	Sinhala	0.014865	0.000525	28.328	248972
Garo	Burmese	Sinhala	0.043637	0.000642	67.985	250906
Naga	Han	Sinhala	0.06567	0.000816	80.467	250967

Source1	Source2	Target	<i>f3</i>	std.	Z	SNPs
Kshatriya	Ho	STU	-0.00152	0.000179	-8.513	254873
Kalash	Jamatia	STU	-0.0012	0.000313	-3.837	254943
Pathan	Khasi	STU	-0.00092	0.000255	-3.598	254919
Gujaratis	Gond	STU	-0.00081	0.000073	-11.086	255063
Brahmin_WB	Asur	STU	-0.00066	0.000228	-2.909	254835
Lambadi	Pulliyar	STU	-0.00028	0.000683	-0.413	254089
Kurmi	Halakipikki	STU	0.000003	0.000559	0.005	254077
UP_Low_Caste	Irula	STU	0.000208	0.000224	0.93	254759
Dusadh	Sakilli	STU	0.000236	0.000262	0.899	254699
Dharkars	Piramalai_Kallars	STU	0.000237	0.000164	1.448	254749
Bengali	Savara	STU	0.000474	0.000792	0.599	254123
Dhurwa	TN_Low_Caste	STU	0.000704	0.000762	0.923	254336
Maratha	Kurumba	STU	0.000712	0.000242	2.937	254698
Kanjars	Velmas	STU	0.000747	0.000158	4.738	254741
Muslim	Chenchus	STU	0.00094	0.000276	3.407	254688
Harijan	Pallan	STU	0.000964	0.000101	9.507	254819
Santhal	Sinhala	STU	0.000987	0.000129	7.67	254856
Kol	North_Kannadi	STU	0.001216	0.000136	8.962	254804
Brahmin_Guj	Lambadi	STU	0.002131	0.000358	5.944	254279
Brahmin_Man	Bengali	STU	0.002446	0.00046	5.32	254380
Khatri	Iyer	STU	0.003669	0.000115	31.879	254909
Burusho	Kusundas	STU	0.003747	0.000232	16.164	254934
Birhor	Kadar	STU	0.007075	0.000218	32.434	254804

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Bonda	Malayan	STU	0.007451	0.000519	14.371	254685
Tharu	Bonda	STU	0.013786	0.000323	42.728	254881
Kharia	Birhor	STU	0.015587	0.00043	36.226	254731
Garo	Burmese	STU	0.04492	0.000551	81.481	254870
Naga	Han	STU	0.066816	0.000734	91.068	254891

(B) **Table S2:** D statistic showing gene flow with various population groups, related to Figures 2 and 3 (A) D statistic with Sinhalese; (B) D statistic with Śrī Laṅkā Tamil from Sri Lanka (STS); (C) D statistic with Śrī Laṅkā Tamil from UK (STU).

Pop A	Pop B	Pop C	Pop D	D-Stat	SD	Z-Score	ABBA	BABA	SNPs
Yorubas	Sinhala	Brahmin_Guj	Gond	0.0081	0.00095	8.493	18430	18135	255057
Yorubas	Sinhala	Kamboj	Pulliyar	0.0114	0.001495	7.621	18550	18132	255057
Yorubas	Sinhala	Brahmin_WB	Halakipikki	0.0077	0.001224	6.289	18304	18024	255057
Yorubas	Sinhala	Kshatriya	Santhal	0.0057	0.001153	4.985	18322	18112	255057
Yorubas	Sinhala	Brahmins_UP	Chenchus	0.0057	0.001291	4.413	18238	18032	255057
Yorubas	Sinhala	Khatri	Gadaba	0.0073	0.002135	3.411	18564	18295	254635
Yorubas	Sinhala	Dharkars	Kadar	0.0019	0.001055	1.802	18151	18082	255057
Yorubas	Sinhala	Dhurwa	Kurumba	0.0039	0.00223	1.737	18110	17971	254760
Yorubas	Sinhala	UP_Low_Caste	Halakipikki	0.0017	0.001345	1.296	18046	17983	255057
Yorubas	Sinhala	Kanjars	TN_Low_Caste	0.001	0.001634	0.614	18128	18091	255055
Yorubas	Sinhala	Maratha	Piramalai_Kallars	-0.0006	0.001072	-0.58	18038	18060	255057
Yorubas	Sinhala	Bengali	Brahmin_Man	-0.0067	0.002067	-3.233	18040	18283	254535
Yorubas	Sinhala	Harijan	Juang	-0.0063	0.001675	-3.741	17868	18093	255057
Yorubas	Sinhala	Kol	Kharia	-0.0076	0.001643	-4.619	17923	18197	255057
Yorubas	Sinhala	Ror	Onge	-0.0121	0.001772	-6.813	18467	18918	255057
Yorubas	Sinhala	Korwa	Khasi	-0.0115	0.001426	-8.057	17603	18012	255056

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Pop A	Pop B	Pop C	Pop D	D-Stat	SD	Z-Score	ABBA	BABA	SNPs
Yorubas	STS	Brahmin_Guj	Gond	0.0062	0.001069	5.792	18422	18195	255051
Yorubas	STS	Kamboj	Pulliyar	0.0091	0.00166	5.495	18541	18206	255051
Yorubas	STS	Brahmin_WB	Halakipikki	0.0063	0.001317	4.755	18310	18082	255051
Yorubas	STS	Kshatriya	Santhal	0.0056	0.001306	4.285	18343	18139	255051
Yorubas	STS	Brahmins_UP	Chenchus	0.0054	0.001411	3.821	18256	18060	255051
Yorubas	STS	Khatri	Gadaba	0.005	0.002387	2.114	18549	18363	254629
Yorubas	STS	Kanjars	TN_Low_Caste	0.0018	0.001794	1.025	18177	18110	255049
Yorubas	STS	UP_Low_Caste	Halakipikki	0.0007	0.00153	0.451	18058	18033	255051
Yorubas	STS	Dhurwa	Kurumba	0.0011	0.002523	0.435	18097	18057	254755
Yorubas	STS	Dharkars	Kadar	-0.0005	0.001141	-0.464	18135	18155	255051
Yorubas	STS	Maratha	Piramalai_Kallars	-0.0007	0.001248	-0.537	18069	18094	255051
Yorubas	STS	Bengali	Brahmin_Man	-0.0043	0.002204	-1.935	18097	18252	254529
Yorubas	STS	Harijan	Juang	-0.0083	0.001806	-4.6	17852	18151	255051
Yorubas	STS	Kol	Kharia	-0.0086	0.001799	-4.774	17933	18244	255051
Yorubas	STS	Ror	Onge	-0.0121	0.001981	-6.111	18503	18957	255051
Yorubas	STS	Korwa	Khasi	-0.0113	0.00156	-7.228	17632	18034	255050

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Pop A	Pop B	Pop C	Pop D	D-Stat	SD	Z-Score	ABBA	BABA	SNPs
Yorubas	STU	Brahmin_Guj	Gond	0.006	0.000866	6.877	18389	18171	255063
Yorubas	STU	Kamboj	Pulliyar	0.009	0.00166	5.495	18541	18206	255051
Yorubas	STU	Brahmin_WB	Halakipikki	0.0069	0.001103	6.226	18289	18040	255063
Yorubas	STU	Kshatriya	Santhal	0.0038	0.001044	3.64	18282	18143	255063
Yorubas	STU	Brahmins_UP	Chenchus	0.0052	0.001201	4.334	18227	18038	255063
Yorubas	STU	Khatri	Gadaba	0.0049	0.001959	2.518	18518	18336	254641
Yorubas	STU	Kanjars	TN_Low_Caste	0.0017	0.001474	1.181	18143	18080	255061
Yorubas	STU	UP_Low_Caste	Halakipikki	0.0011	0.001251	0.868	18035	17996	255063
Yorubas	STU	Dhurwa	Kurumba	0.0041	0.001973	2.083	18112	17964	254766
Yorubas	STU	Dharkars	Kadar	0.0007	0.000957	0.713	18129	18104	255063
Yorubas	STU	Maratha	Piramalai_Kallars	0	0.000983	0.017	18050	18050	255063
Yorubas	STU	Bengali	Brahmin_Man	-0.008	0.001865	-4.272	18012	18301	254541
Yorubas	STU	Harijan7	Juang	-0.0079	0.001518	-5.191	17832	18115	255063
Yorubas	STU	Kol	Kharia	-0.007	0.001484	-4.722	17930	18183	255063
Yorubas	STU	Ror	Onge	-0.0143	0.001681	-8.519	18427	18963	255063
Yorubas	STU	Korwa	Khasi	-0.011	0.001288	-8.548	17602	17994	255062

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9.00E +02	STU	Gon d	Jamat ia	0.0 1	2. 25	2. 33	35%	56.7 8	+	258. 31	6.88E -06	+	0.001 129	76.1	+	19. 16	8.27 E- 06	+	3.67 E- 06	53.6 4	+	14. 26	1.48E -05	+	6.32 E- 06
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