

Supplementary Table 3

ID	First Author	Year	Country	N	Survey location	Population	Source	CBR (2012)	HbS allele frequency	HbC allele frequency	$F_{IS}^{(%)}$	HbCC newborn estimate			HbSC newborn estimate		
												HWE ⁽¹⁾	HWE+ $F_{IS}^{(2)}$	Ratio ^{(2)/(1)}	HWE ⁽¹⁾	HWE+ $F_{IS}^{(2)}$	Ratio ^{(2)/(1)}
Sub-Saharan Africa																	
1	McGann	2013	Angola	36,453	Luanda	1,822,407	UN	44.3	0.120	0.0004	0.62	0	0	/	7	7	1.0
2	Kafando	2005	Burkina Faso	2,341	Ouagadougou	1,475,223	UN	41.1	0.048	0.1038	5.45	653	961	1.5	608	574	0.9
10	Mutesa	2007	DRC	84	Goma	1,000,000	Wikipedia	42.9	0.024	0.0119	-2.86	6	-8	-1.3	24	25	1.0
25	Ohene-Frempong	<i>Pers.com.</i>	Ghana	343,355	Kumasi	1,922,130	UN	31.1	0.080	0.0529	3.92	167	285	1.7	507	487	1.0
27	Diallo	2008	Mali	1,025	Bamako	2,037,000	CIA	47.3	0.055	0.0598	2.55	344	482	1.4	638	622	1.0
28	Kulkarni	1986	Nigeria	700	Kaduna	1,524,000	CIA	41.5	0.127	0.0121	10.00	9	85	9.4	195	176	0.9
29	Odunvbun	2008	Nigeria	644	Benin City	1,147,188	UN	41.5	0.132	0.0062	8.71	2	27	/	78	71	0.9
31	Mutesa	2007	Rwanda	1,104	Kigali & Butare	740,383	UN	35.4	0.014	0.0009	4.95	0	1	/	1	1	1.0
32	Oudart	1968	Senegal	345	Dakar	1,056,009	UN	38.1	0.042	0.0087	7.40	3	29	9.7	29	27	0.9
33	Mbodji	2003	Senegal	479	Dakar	1,056,009	Census	38.1	0.059	0.0063	25.69	2	66	33.0	30	22	0.7
34	Tchamago	2006	Senegal	944	Dakar (CHAN & HPD)	1,056,009	UN	38.1	0.052	0.0048	5.87	1	12	12.0	20	19	1.0
39	North	1988	Togo	385	Lomé	1,524,000	CIA	36.7	0.110	0.0532	-0.99	159	131	0.8	658	664	1.0
40	Segbena	2002	Togo	171	Lomé	1,524,000	CIA	36.7	0.105	0.0906	-3.26	460	309	0.7	1067	1,102	1.0
North Africa																	
42	Fattoum	2006	Tunisia	2,029	Tunis	702,330	UN	17.3	0.011	0.0042	-1.22	0	0	/	1	1	/
43	Fattoum	2006	Tunisia	335	Nabeul	56,387	Wikipedia	17.3	0.003	0.0015	-0.35	0	0	/	0	0	/
	Fattoum^z	2006	Tunisia	2,628	Tunis + Nabeul + Béja	865,158	Sum	17.3	0.012	0.0034	-1.25	0	0	/	1	1	/
45	Hajer	2012	Tunisia	9,148	Tunis	702,330	UN	17.3	0.010	0.0021	1.32	0	0	/	1	0	0.0
Middle East																	
50	Khoriaty	2014	Lebanon	10,095	Countrywide	5,882,562	CIA	13.5	0.009	0.0003	9.93	0	2	/	0	0	/
57	Al Hosani	2005	UAE	9,165	UAE (citizens)	1,400,000	Wikipedia	14.8	0.008	0.0002	7.14	0	0	/	0	0	/
58	Al Hosani	2005	UAE	13,035	UAE (non-citizens)	7,800,000	Wikipedia	14.8	0.004	0.0004	6.33	0	3	/	0	0	/
	Al Hosani^z	2005	UAE	22,200	UAE	9,200,000	Wikipedia	14.8	0.006	0.0003	6.84	0	3	/	0	0	/
59	Al Hosani	2014	UAE	542,286	UAE	9,200,000	Wikipedia	14.8	0.005	0.0001	8.13	0	1	/	0	0	/