

**TABLE 6**

**CONSANGUINEOUS MARRIAGE IN POPULATION MINORITIES, ISOLATES AND MIGRANTS**

<b>Region/country</b>	<b>Location</b>	<b>Collection period</b>	<b>Study population</b>	<b>Sample size</b>	<b>Consanguinity (%)</b>	<b>Consanguinity types</b>	<b>Coefficient of inbreeding (<math>\alpha</math>)</b>	<b>Reference</b>
<b>Northern Africa</b>								
<b>Sudan</b>	Tir ( <i>Dinka</i> )	1954	Household survey	375	-	-	0.0015	Roberts (1956)
	Nyertiti ( <i>Fur</i> )	-	Household survey	99	70.7%	1C,1 <sup>1/2</sup> C,2C	0.0415	Bayoumi <i>et al.</i> (1985)
	Nyertiti ( <i>Baggara</i> )	-	Household survey	46	71.7	1C,1 <sup>1/2</sup> C	0.0442	Bayoumi <i>et al.</i> (1985)
<b>Southern Africa</b>								
<b>Tristan da Cunha</b>	All-island	1961	Pedigree analysis	267	-	-	0.0400	Roberts (1980)
<b>Northern America</b>								
<b>Canada</b>	New Brunswick (Bathurst)	1959	RC dispensation	686	4.8	1C,1 <sup>1/2</sup> C,2C	0.0010	Freire-Maia (1968)

	Quebec (Gaspé)	1959	RC dispensation	600	6.0%	1 <sup>1/2</sup> C,2C	0.0012	Freire-Maia (1968)
	Newfoundland (Trepassey)	1960/79	Pedigree analysis	545	-	-	0.0032	Bear <i>et al.</i> (1988)
	Newfoundland (West Coast)	1960/79	Pedigree analysis	613	-	-	0.0171	Bear <i>et al.</i> (1988)
	Newfoundland (Southeast Labrador)	1960/79	Pedigree analysis	376	-	-	0.0007	Bear <i>et al.</i> (1988)
<b>U.S.A.</b>	Kentucky (Beech Creek)	1942	Household survey	107	18.7	1C,1 <sup>1/2</sup> C,2C	0.0061	Brown (1951)
	Ramah Navaho	1950/64	Pedigree analysis	1,074	-	-	0.0026	Spuhler (1989)
	New Mexico (Gallup)	1959	RC dispensation	370	1.4	1C,1 <sup>1/2</sup> C,2C	0.0004	Freire-Maia (1968)
	Texas (Austin)	1959	RC dispensation	675	1.3	1C,2C	0.0006	Freire-Maia (1968)
	Kansas (Mennonites)	1980	Pedigree analysis	194	33.0	-	0.0030	Moore (1987)
	Pennsylvania (Amish farmers)	1950/-	Pedigree analysis	909	-	-	0.0012	Khoury <i>et al.</i> (1987)
	Pennsylvania (Amish non-farmers)	1950/-	Pedigree analysis	1,014	-	-	0.0008	Khoury <i>et al.</i> (1987)

	Boston (Gypsies)	1980s	Pedigree analysis	21	61.9%	1C,2C,3C	0.0170	Thomas <i>et al.</i> (1987)
<b>South America</b>								
<b>Brazil</b>	South (Amerindians)	1959/60	Field study	465	13.1	UN,1C,1 <sup>1/2</sup> C,2C	0.0052	Salzano (1961)
	South (Jewish)	1959/60	Household survey	150	2.7	1C,1 <sup>1/2</sup> C	0.0013	Freire-Maia and Krieger (1963)
<b>Central Asia</b>								
<b>Tajikistan</b>	Urgut (Samarkand)	-	Household survey	-	-	-	0.0280	Paradeeva and Revasov (1987)
	Taimyr (Nganasans)	1974/6	Household survey	223	20.0	2C	0.0022	Goltzova (1981)
<b>Turkmenistan</b>	Ashkhabad	-	Household survey	1,596	-	-	0.0023	Revasov <i>et al.</i> (1983)
	Nochur	-	Household survey	600	-	-	0.0330	Revasov <i>et al.</i> (1984)
<b>Uzbekhistan</b>	Tersak IV	-	Household survey	-	-	-	0.0190	Ginter <i>et al.</i> (1980)
	Tersak III	-	Household survey	-	-	-	0.0078	Ginter <i>et al.</i> (1980)

Kizil-Ketman	-	Household survey	-	-	-	0.0109	Ginter <i>et al.</i> (1980)
Zum	-	Household survey	-	-	-	0.0158	Ginter <i>et al.</i> (1980)
Arab-Chona	-	Household Survey	-	-	-	0.0271	Ginter <i>et al.</i> (1980)
Abron	-	Household survey	-	-	-	0.0131	Ginter <i>et al.</i> (1980)

#### East Asia

##### Japan

Kurodani	1968/	Household survey	83	9.6%	1C,1 <sup>1/2</sup> C	0.0049	Yamamoto <i>et al.</i> (1972)
Okukurodani	1968/	Household survey	48	29.2	1C,1 <sup>1/2</sup> C,2C	0.0124	Yamamoto <i>et al.</i> (1972)
Arihara	1968/	Household survey	69	47.8	1C,1 <sup>1/2</sup> C,2C	0.0184	Yamamoto <i>et al.</i> (1972)
Mukugawa	1968/	Household survey	83	21.6	1C,1 <sup>1/2</sup> C,2C	0.0068	Yamamoto <i>et al.</i> (1972)
Aso	1968/	Household survey	95	15.8	1C,11/2C,2C	0.0084	Yamamoto <i>et al.</i> (1972)
Mishima I	-	Household survey	517	15.5	1C,1 <sup>1/2</sup> C,2C	0.0075	Fujiki <i>et al.</i> (1982)
Mishima II	-	Household survey	192	18.8	1C,1 <sup>1/2</sup> C,2C	0.0093	Fujiki <i>et al.</i> (1982)

Nuwajima I	-	Household survey	340	12.4%	1C,1 <sup>1/2</sup> C,2C	0.0055	Fujiki <i>et al.</i> (1982)
Nuwajima II	-	Household survey	175	6.3	1C,1 <sup>1/2</sup> C,2C	0.0030	Fujiki <i>et al.</i> (1982)
Okishima	-	Household survey	286	24.5	1C,1 <sup>1/2</sup> C,2C	0.0110	Fujiki <i>et al.</i> (1982)
Midono	-	Household survey	54	16.7	1C,2C	0.0087	Fujiki <i>et al.</i> (1982)
Kurodani I	-	Household survey	85	9.4	1C,1 <sup>1/2</sup> C	0.0048	Fujiki <i>et al.</i> (1982)
Kurodani II	-	Household survey	48	29.2	1C,1 <sup>1/2</sup> C,2C	0.0124	Fujiki <i>et al.</i> (1982)
Arihana	-	Household survey	69	47.8	1C,1 <sup>1/2</sup> C,2C	0.0184	Fujiki <i>et al.</i> (1982)
Mukugawa	-	Household survey	83	22.9	1C,1 <sup>1/2</sup> C,2C	0.0075	Fujiki <i>et al.</i> (1982)
Azo	-	Household survey	95	17.9	1C,1 <sup>1/2</sup> C,2C	0.0097	Fujiki <i>et al.</i> (1982)
Tomiyama	-	Household survey	156	27.6	1C,1 <sup>1/2</sup> C,2C	0.0115	Fujiki <i>et al.</i> (1982)
Miyama-co	-	Household survey	271	15.7	1C,1 <sup>1/2</sup> C,2C	0.0066	Fujiki <i>et al.</i> (1986)

## South Asia

India (South)								
Andhra Pradesh								
Chittoor Banjara (Lambani)	1972/3	Household survey	167	41.3	UN,1C	0.0299	Saheb and Naik (1983)	
Nelgonda Banjara (Lambani)	1979/80	Household survey	113	10.6	1C	0.0066	Saheb and Naik (1983)	
East Godavari Konda Reddis	-	-	137	51.8	UN,1C	0.0392	Veerraju (1978)	
East Godavari Koya Doras I	-	-	154	51.3	UN,1C	0.0467	Veerraju (1978)	
East Godavari Konda Reddis II	-	-	152	61.8	UN,1C,2C	0.0398	Veerraju (1978)	
East Godavari Konda Kammaras	-	-	150	65.6%	UN,1C	0.0571	Veerraju (1978)	
East Godavari Koya Doras II	-	-	140	70.6	UN,1C,2C	0.0490	Veerraju (1978)	
Vishakapatnam Valmiki I	-	-	119	69.2	UN,1C	-	Veerraju (1978)	
Vishakapatnam Valmiki II	-	-	119	52.1	UN,1C	0.0363	Veerraju (1978)	
Vishakapatnam Bagathas	-	-	123	62.7	UN,1C	0.0427	Veerraju (1978)	
Vishakapatnam Gadabas	-	-	128	60.2	UN,1C	0.0395	Veerraju (1978)	

Srikakulam Savaras	-	-	100	72.0	-	-	Veerraju (1978)
Adilabad Kolams I	-	-	680	20.0	UN,1C	0.0157	Veerraju (1978)
Adilabad Kolams II	-	-	283	45.6	UN,1C	0.0287	Veerraju (1978)
Adilabad Raj Gonds	-	-	397	34.5	1C	0.0216	Veerraju (1978)
Adilabad Pardhans	-	-	114	53.5	1C	0.0334	Veerraju (1978)
Adilabad Andhs	-	-	99	22.2	UN,1C	0.0146	Veerraju (1978)

	Adilabad Mathuras	-	-	93	6.5%	UN,1C	0.0047	Veerraju (1978)
	Mahaboobnagar Chenchu	1981	Household survey	504	26.4	UN,1C,11/2C	0.0150	Sirajuddin and Basu (1984)
Karnataka	Siddis (Hindu)	1980/81	Household survey	47	38.3	UN,AN,1C,2C	0.0263	Vijayakumar and Malhotra (1983)
	Siddis (Muslim)	1980/81	Household survey	65	46.2	UN,1C,2C	0.0269	Vijayakumar and Malhotra (1983)
	Siddis (Christian)	1980/81	Household survey	156	24.4	UN,AN,1C,2C	0.0169	Vijayakumar and Malhotra (1983)
	Kodagu Kodavas	-	Household survey	535	2.4	1C,1 <sup>1/2</sup> C,2C	0.0014	Saheb <i>et al.</i> (1981)
	Kodagu Amma Kodagus	-	Household survey	130	6.9	1C,1 <sup>1/2</sup> C,2C	0.0032	Saheb <i>et al.</i> (1981)
Tamil Nadu	North Arcot Irular	1982	Household survey	216	44.0	UN,1C,1 <sup>1/2</sup> C	0.0334	Saheb and Bhanu (1983)
India (West)	Bombay (Irani)	1961/72	Obstetric inpatients	195	22.1	1C,1 <sup>1/2</sup> C,2C	0.0091	Undevia and Balakrishnan (1978)

## West Asia

<b>Iraq</b>	Kurds (Hamawand)	1951	Household survey	21	57.1%	UN,1C	0.0417	Barth (1954)
	Kurds (South Kurdistan)	1951	Household survey	46	17.4	UN,1C	0.0122	Barth (1954)
<b>Israel</b>	Samaritans	1960	Household survey	28	46.4	1C,1 <sup>1/2</sup> C,2C	0.0190	Bonné (1963)
	Jews (Cochin)	1958	Household survey	59	15.3	UN,1C	0.0117	Goldschmidt (1963)
<b>Lebanon</b>	Palestinians	1998	Household survey	3,972	19.8	D1C,1C	0.0142	Pedersen (2002)
<b>Jordan</b>	Palestinians	1996	National survey	4,950	26.1	D1C,1C	0.0186	Pedersen (2002)
	Palestinians	1999	Household survey	2,888	26.0	D1C,1C	0.0178	Pedersen (2002)
<b>Syria</b>	Palestinians	2001	Household survey	4,195	18.3	D1C,1C	0.0134	Pedersen (2002)

## Eastern Europe

<b>Slovakia</b>	Slovak Roma I	-	Pedigree analysis	34	14.7%	D1C,1C,1 <sup>1/2</sup> C	0.0184	Siváková <i>et al.</i> (1994)
	Slovak Roma II	-	Pedigree analysis	69	10.1	D1C,1C,1 <sup>1/2</sup> C	0.0082	Siváková <i>et al.</i> (1994)

## Northern Europe

<b>Great Britain</b>	Orkney	1910/49	Parish records	63	9.5	1C,2C	0.0017	Roberts <i>et al.</i> (1979)
	Colonsay	1977	Pedigree analysis	65	-	-	0.0023	Sheets (1980)
	Jura	1977	Pedigree analysis	65	-	-	0.0044	Sheets (1980)
	Eriskay (Hebrides)	1960/79	RC dispensation	22	18.2	2C	0.0028	Robinson (1983)
	Welsh Romany	1970s	Pedigree analysis	99	36.3	1C,2C	0.0123	Williams and Harper (1977)
	Birmingham (Pakistani)	1982/83	Obstetric inpatients	260	46.9	1C	0.0293	Honeyman <i>et al.</i> (1987)
	Bradford (Pakistani)	-	Obstetric inpatients	100	67.0	1C,1 <sup>1/2</sup> C,2C	0.0377	Darr and Modell (1988)
	Birmingham (Afro-	1986/87	Obstetric inpatients	509	0.4	1C,2C	0.0002	Bunday <i>et al.</i> (1990)

	Caribbean)							
<b>Ireland (Northern)</b>	All counties (Travellers)	1989	Household/itinerant survey	203	65.5%	1C,<1C	-	Gordon <i>et al.</i> (1991)
<b>Ireland (Republic)</b>	Westmeath (Travellers)	1970/86	Household/itinerant survey	141	71.6	1C,1 <sup>1/2</sup> C,2C	0.0312	Flynn (1986)
<b>Russian Republic</b>	Archangel (Pinega)	-	-	-	-	-	0.0015	Revasov <i>et al.</i> (1979)
<b>Sweden</b>	North (Junosuando)	1947	Parish records	281	2.8	1C	0.0018	Böök (1948)
	North (Muonion-alusta)	1947	Parish records	191	6.8	1C	0.0042	Böök (1948)
	South	1901/52	Marriage/parish/birth records	576	1.7	1C	0.0011	Larson (1956)
	West (Ostmarkt)	1901/41	Household survey	535	1.3	1C	0.0008	Böök and Mawe (1955)
	Norrbotten	1946/48	Household Survey	8,667	0.4	1C	0.0003	Böök (1957)

## Western Europe

<b>Belgium</b>	All-Belgium (Moroccan)	1994/96	Household survey	591	28.0%	1C	0.0175	Reniers (1998)
	All-Belgium (Turkish)	1994/96	Household survey	995	22.0	1C	0.0138	Reniers (1998)

## Oceania

<b>Australia</b>	New South Wales (Lebanese)	1984/6	Obstetric inpatients	400	35.8	D1C,1C,2C	0.0128	de Costa (1988)
------------------	-------------------------------	--------	-------------------------	-----	------	-----------	--------	-----------------