

Table S1. Genotype and allele frequencies of the *MTHFR* C677T polymorphism (rs1801133) in ethnic groups and Mestizo population of Mexico

Geographical region	State	Population	N	<i>MTHFR</i> C677T genotype (%)			T allele frequency (%)	Reference
				CC	CT	TT		
North	Baja California Norte	Mestizo	150	0.42	0.40	0.18	0.38	[73]
	Sonora	Mestizo	166	0.34	0.48	0.17	0.42	[74]
	Sonora	Mayo	28	0.36	0.46	0.18	0.41	[75]
	Sonora	Seri	19	0.74	0.26	0.00	0.13	[75]
	Sonora	Yaqui	37	0.24	0.57	0.19	0.47	[75]
	Sonora	Yaqui	27	0.33	0.41	0.26	0.46	[76]
	Chihuahua	Mestizo	197	0.27	0.61	0.12	0.42	[77]
	Chihuahua	Tarahumara	88	0.46	0.44	0.10	0.32	[75]
	Chihuahua	Tarahumara	38	0.45	0.39	0.16	0.36	[78]
	Durango	Mestizo (women)	194	0.28	0.50	0.22	0.47	[33]
	Zacatecas	Mestizo	181	0.28	0.49	0.23	0.47	[74]
	Nuevo León	Mestizo (women)	41	0.29	0.46	0.25	0.48	[79]
	Nuevo León	Mestizo	533	0.26	0.54	0.20	0.47	[80]
	Nuevo León	Mestizo (men)	60	0.23	0.62	0.15	0.46	[81]
Central West	Nayarit	Mestizo	184	0.28	0.50	0.22	0.47	*
	Nayarit	Huichol	95	0.25	0.43	0.32	0.53	*
	Nayarit	Huichol	15	0.20	0.53	0.27	0.53	[76]
	Nayarit	Huichol	50	0.16	0.56	0.28	0.56	[78]
	Jalisco	Mestizo	101	0.31	0.50	0.19	0.44	[78]
	Jalisco	Mestizo	170	0.35	0.46	0.19	0.42	[34]
	Jalisco	Mestizo (Gdl)	768	0.30	0.51	0.20	0.45	*
	Jalisco	Mestizo-EUR (Cuq)	131	0.34	0.44	0.23	0.45	*
	Jalisco	Mestizo-EUR (V.P.)	32	0.41	0.40	0.19	0.39	*
	Jalisco	Nahua	84	0.16	0.44	0.41	0.63	*

Central East	Guanajuato	Mestizo	184	0.22	0.53	0.24	0.51	[74]
	Michoacán	Purépecha	29	0.07	0.45	0.48	0.71	[76]
	Michoacán	Purépecha	21	0.19	0.48	0.33	0.57	[78]
	Michoacán	Purépecha	14	0.43	0.43	0.14	0.36	[75]
	San Luis Potosí	Nahua	44	0.09	0.52	0.39	0.65	[75]
	San Luis Potosí	Huasteco	79	0.11	0.41	0.48	0.68	[75]
	San Luis Potosí	Pame	10	0.30	0.70	0.00	0.35	[75]
	Hidalgo	Otomí	220	0.13	0.38	0.49	0.68	[75]
	Mexico State	Mazahua	10	0.00	0.60	0.40	0.72	[75]
	Mexico State	Nahua	22	0.14	0.45	0.41	0.64	[75]
	Mexico City	Mestizo	71	0.24	0.46	0.30	0.53	[76]
	Mexico City	Nahua	150	0.07	0.35	0.59	0.76	[74]
	Mexico City	Nahua	52	0.13	0.48	0.38	0.63	[75]
	Morelos	Mestizo (women)	130	0.22	0.52	0.26	0.52	[82]
	Morelos	Mestizo (women)	74	0.21	0.53	0.26	0.52	[83]
	Morelos	Nahua	44	0.14	0.59	0.27	0.57	[75]
	Puebla	Mestizo	28	0.07	0.36	0.57	0.75	[84]
	Puebla	Nahua	52	0.06	0.48	0.46	0.70	[75]
	Veracruz	Mestizo	182	0.18	0.52	0.30	0.56	[74]
South	Veracruz	Totonaco	97	0.08	0.35	0.57	0.74	[75]
	Veracruz	Totonaco	25	0.08	0.56	0.36	0.64	[74]
	Veracruz	Popoluca de la Sierra	36	0.14	0.50	0.36	0.61	[75]
	Guerrero	Mestizo	181	0.19	0.48	0.33	0.57	[74]
	Guerrero	Mestizo (women)	112	0.22	0.51	0.27	0.52	[85]
	Guerrero	Mestizo (women)	196	0.17	0.44	0.39	0.61	[86]
	Guerrero	Mixteco (women)	124	0.10	0.40	0.50	0.70	[86]
	Guerrero	Nahua (women)	135	0.05	0.43	0.52	0.73	[86]
	Oaxaca	Chinanteco	81	0.05	0.27	0.68	0.81	[75]
	Oaxaca	Mazateco	59	0.07	0.36	0.58	0.75	[75]
	Oaxaca	Mixteco	134	0.11	0.30	0.59	0.74	[75]

South East	Oaxaca	Mixe	89	0.13	0.48	0.38	0.62	[75]
	Oaxaca	Zapoteco	66	0.06	0.29	0.65	0.80	[75]
	Oaxaca	Zapoteco	42	0.17	0.21	0.62	0.73	[74]
	Oaxaca	Chontal de Oaxaca	44	0.23	0.36	0.41	0.59	[75]
	Oaxaca	Huave	26	0.42	0.50	0.08	0.33	[75]
	Oaxaca	Trikis	89	0.00	0.16	0.84	0.92	[76]
	Chiapas	Kaqchikel	36	0.00	0.31	0.69	0.85	[75]
	Chiapas	Mocho	15	0.00	0.20	0.80	0.90	[75]
	Chiapas	Chuj	17	0.06	0.24	0.71	0.82	[75]
	Chiapas	Kanjobal	29	0.07	0.31	0.62	0.78	[75]
	Chiapas	Jakalteco	40	0.08	0.25	0.68	0.80	[75]
	Chiapas	Mam	45	0.09	0.38	0.53	0.72	[75]
	Chiapas	Tojolabal	46	0.13	0.61	0.26	0.57	[75]
	Yucatán	Mestizo	174	0.26	0.55	0.19	0.46	[74]
	Yucatán	Mestizo	110	0.22	0.48	0.30	0.54	[87]
	Yucatán	Maya	234	0.21	0.48	0.31	0.55	[75]
	Yucatán	Maya	54	0.13	0.52	0.35	0.61	[76]

* Genotyped in the present study.

Table S2. Genotype and allele frequencies of the *ABCA1* Arg230Cys (rs9282541) polymorphism in ethnic groups and Mestizo population of Mexico

Geographical region	State	Population	N	<i>ABCA1</i> R230C genotype (%)			C allele frequency (%)	Reference
				RR	RC	CC		
North	Sonora	Yaqui	45	0.67	0.24	0.09	0.21	[42]
	Sonora	Yaqui	37	0.70	0.19	0.11	0.20	[40]
	Sonora	Pima	2563	0.92	0.07	0.01	0.04	[42]
	Sonora	Seri	87	1.00	0.00	0.00	0.00	[42]
	Chihuahua	Tarahumara	109	0.74	0.21	0.05	0.15	[42]
Central West	Nayarit	Mestizo	183	0.87	0.12	0.02	0.07	*
	Nayarit	Huichol	92	0.53	0.40	0.07	0.27	*
	Nayarit	Cora	123	0.50	0.42	0.08	0.29	[42]
	Jalisco	Mestizo (Gdl)	357	0.85	0.15	0.00	0.08	*
	Jalisco	Mestizo-EUR (V.P.)	32	0.88	0.09	0.03	0.08	*
	Jalisco	Mestizo-EUR (Cuq)	129	0.86	0.14	0.00	0.07	*
	Jalisco	Mestizo-EUR (S.M.)	33	0.94	0.06	0.00	0.03	*
	Jalisco	Nahua	84	0.82	0.17	0.01	0.09	*
	Michoacán	Purépecha	35	0.63	0.31	0.06	0.21	[40]
	San Luis Potosí	Teneek	67	0.67	0.30	0.03	0.18	[40]
Central East	Hidalgo	Otomí	42	0.83	0.17	0.00	0.08	[42]
	Mexico State	Mazahua	88	0.82	0.17	0.01	0.10	[40]
	Mexico City	Mestizo	429	0.80	0.18	0.02	0.11	[40]
	Veracruz	Nahua	267	0.69	0.28	0.03	0.17	[42]
	Veracruz	Totonaca	113	0.76	0.21	0.03	0.13	[42]
	Oaxaca	Zapoteca	106	0.59	0.40	0.01	0.21	[42]
South	Oaxaca	Mixe	19	0.79	0.21	0.00	0.11	[19]
	Oaxaca	Mixteco	4	1.00	0.00	0.00	0.00	[19]
	Yucatán	Maya	40	0.45	0.52	0.03	0.28	[40]

* Genotyped in the present study.

Table S3. APOE allele frequencies in ethnic groups and Mestizo population of Mexico

Geographical region	State	Population	N	APOE alleles (%)			Reference
				E2	E3	E4	
North	Durango	Mestizo	30	0.00	0.88	0.12	[20]
	Sinaloa	Mestizo	101	0.06	0.78	0.16	[88]
Central West	Nayarit	Mestizo	61	0.02	0.87	0.11	[20]
	Nayarit	Mestizo	110	0.03	0.87	0.10	*
	Nayarit	Huichol	40	0.00	0.71	0.29	[20]
	Nayarit	Huichol	99	0.00	0.73	0.27	*
	Nayarit	Huichol	31	0.00	0.76	0.24	[89]
	Nayarit	Cora	44	0.00	0.84	0.16	[89]
	Jalisco	Mestizo	179	0.08	0.84	0.08	[20]
	Jalisco	Mestizo	370	0.08	0.84	0.08	[51]
	Jalisco	Mestizo (Gdl)	527	0.05	0.86	0.09	*
	Jalisco	Mestizo-EUR (V.P.)	32	0.01	0.96	0.03	*
	Jalisco	Mestizo-EUR (S.M.)	32	0.09	0.88	0.03	*
	Jalisco	Nahua	83	0.03	0.87	0.10	*
	Michoacán	Purépecha	142	0.02	0.80	0.18	[54]
	Mexico City	Mestizo	224	0.03	0.87	0.10	[89]
Central East	Mexico City	Mestizo	278	0.03	0.89	0.08	[41]
	Mexico City	Mestizo	83	0.00	0.92	0.08	[90]
	Morelos	Nahua	186	0.01	0.90	0.09	[91]
	Veracruz	Mestizo	80	0.00	0.91	0.09	[89]
	Veracruz	Nahua	120	0.01	0.94	0.05	[89]
	Guerrero	Mestizo (women)	400	0.06	0.76	0.18	[50]
South	Oaxaca	Mazateco	75	0.00	0.90	0.10	[90]
	Yucatán	Maya	135	0.00	0.91	0.09	[92]

* Genotyped in the present study.

Table S4. Genotype and allele frequencies of the *LCT* (*MCM6*) C-13910T (rs4988235) polymorphism in ethnic groups and Mestizo population of Mexico

Geographical region	State	Population	N	<i>LCT</i> (<i>MCM6</i>) C-13910T genotype (%)			T allele frequency (%)	Reference
				CC	CT	TT		
North	Sonora	Pima	50	1.00	0.00	0.00	0.00	[10]
Central West	Nayarit	Mestizo	185	0.69	0.31	0.00	0.16	[24]
	Nayarit	Huichol	95	1.00	0.00	0.00	0.00	[24]
	Jalisco	Mestizo-EUR (V.P.)	32	0.44	0.47	0.09	0.33	[24]
	Jalisco	Mestizo-EUR (Cuq)	99	0.55	0.37	0.08	0.27	[24]
	Jalisco	Mestizo (Gdl)	699	0.64	0.32	0.04	0.20	[24]
	Jalisco	Nahua	86	0.98	0.02	0.00	0.01	[24]