

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Association Analysis Between HLA Class 1 Types and SJS/TEN With SOC

HLA Genotype	Carrier-frequency				Gene-frequency			
	SJS (N=74)	Normal (N=133)	p value	Odds Ratio (95% CI)	SJS (N=148)	Normal (N=266)	p value	Odds Ratio (95% CI)
HLA-A								
A*01:01	5.4% (4/74)	15.0% (20/133)	0.042	0.32 (0.11-0.98)	2.7% (4/148)	8.3% (22/266)	0.033	0.31 (0.10-0.91)
A*02:02	12.2% (9/74)	3.8% (5/133)	0.039	3.54 (1.1-11.0)	6.8% (10/148)	1.9% (5/266)	0.024	3.8 (1.3-11.3)
A*66:01	10.8% (8/74)	0.8% (1/133)	0.0013	16.0 (2.0-131)	5.60% (8/148)	0.40% (1/266)	0.0015	15.1 (1.9-122)
HLA-B								
B*07:02	4.1% (3/74)	12.8% (17/133)	0.050	0.29 (0.082-1.0)	2.0% (3/148)	6.8% (18/266)	0.037	0.29 (0.083-0.98)
B*08:01	4.1% (3/74)	15.0% (20/133)	0.020	0.24 (0.068-0.83)	2.0% (3/148)	7.9% (21/266)	0.015	0.24 (0.071-0.82)
B*15:17	4.1% (3/74)	0.0% (0/133)	0.044	13.1* (0.67-257)	2.00% (3/148)	0.0% (0/266)	0.045	12.8* (0.66-250)
B*38:01	8.1% (6/74)	1.5% (2/133)	0.026	5.78 (1.1-29.4)	4.1% (6/148)	0.8% (2/266)	0.027	5.6 (1.1-28.0)
B*44:03	24.3% (18/74)	11.3% (15/133)	0.018	2.53 (1.2-5.4)	12.8% (19/148)	5.6% (15/266)	0.014	2.5 (1.2-5.0)
HLA-C								
C*04:01					27.0% (40/148)	16.2% (43/266)	0.01	1.92 (1.2\3.1)
C*07:02	8.1% (6/74)	18.8% (25/133)	0.043	0.38 (0.15-0.98)	4.1% (6/148)	10.9% (29/266)	0.016	0.35 (0.14-0.85)
C*12:03	14.9% (11/74)	3.8% (5/133)	0.0061	4.5 (1.5-13.4)	8.1% (12/148)	1.9% (5/266)	0.0035	4.6 (1.6-13.3)

*, Woolf's correction

p value; fisher exact test

OR; odds ratio

CI; confidence interval

eTable 2. HLA-A Analysis With Brazilian CM-SJS/TEN With SOC

HLA-A	Carrier-frequency				Gene-frequency			
	CM-SJS/TEN (N=39)	Controls (N=133)	p value	OR (95% CI)	CM-SJS/TEN (N=78)	Controls (N=266)	p value	OR (95% CI)
A*01:01	5.1% (2/39)	15.0% (20/133)	0.170		2.6% (2/78)	8.3% (22/266)	0.126	
A*02:01	46.2% (18/39)	45.9% (61/133)	1.00		25.6% (20/78)	25.9% (69/266)	1.00	
A*02:02	2.6% (1/39)	3.8% (5/133)	1.00		1.3% (1/78)	1.9% (5/266)	1.00	
A*02:05	7.7% (3/39)	2.3% (3/133)	0.131		3.8% (3/78)	1.1% (3/266)	0.133	
A*03:01	20.5% (8/39)	12.0% (16/133)	0.193		10.3% (8/78)	6.8% (18/266)	0.331	
A*11:01	0.0% (0/39)	14.3% (19/133)	0.00791	0.0743* (0.00438 ~1.26)	0.0% (0/78)	7.1% (19/266)	0.00976	0.0808* (0.00483 ~1.35)
A*23:01	10.3% (4/39)	9.8% (13/133)	1.00		5.1% (4/78)	4.9% (13/266)	1.00	
A*24:02	5.1% (2/39)	13.5% (18/133)	0.253		2.6% (2/78)	7.5% (20/266)	0.185	
A*26:01	5.1% (2/39)	3.0% (4/133)	0.619		2.6% (2/78)	1.5% (4/266)	0.622	
A*29:02	10.3% (4/39)	9.0% (12/133)	0.761		5.1% (4/78)	4.5% (12/266)	0.765	
A*30:01	7.7% (3/39)	5.3% (7/133)	0.696		3.8% (3/78)	3.0% (8/266)	0.717	
A*30:02	5.1% (2/39)	3.0% (4/133)	0.619		2.6% (2/78)	1.5% (4/266)	0.622	
A*31:01	10.3% (4/39)	9.8% (13/133)	1.00		5.1% (4/78)	4.9% (13/266)	1.00	
A*32:01	2.6% (1/39)	3.8% (5/133)	1.00		1.3% (1/78)	1.9% (5/266)	1.00	
A*33:03	2.6% (1/39)	3.8% (5/133)	1.00		1.3% (1/78)	1.9% (5/266)	1.00	
A*34:02	5.1% (2/39)	2.3% (3/133)	0.318		2.6% (2/78)	1.1% (3/266)	0.318	
A*36:01	5.1% (2/39)	5.3% (7/133)	1.00		2.6% (2/78)	2.6% (7/266)	1.00	
A*66:01	15.4% (6/39)	0.8% (1/133)	0.000575	24.0 (2.79 ~ 206)	7.7% (6/78)	0.4% (1/266)	0.000667	22.1 (2.62 ~ 186)
A*68:01	7.7% (3/39)	6.8% (9/133)	0.735		3.8% (3/78)	3.4% (9/266)	0.738	
A*68:02	5.1% (2/39)	4.5% (6/133)	1.00		2.6% (2/78)	2.3% (6/266)	1.00	
A*74:01	5.1% (2/39)	4.5% (6/133)	1.00		2.6% (2/78)	2.3% (6/266)	1.00	
others	10.3% (4/39)	10.5% (14/133)	1.00		5.1% (4/78)	5.3% (14/266)	1.00	

eTable 3. HLA-B Analysis With Brazilian CM-SJS/TEN With SOC

HLA-B	Carrier-frequency				Gene-frequency			
	CM-SJS/TEN (N=39)	Controls (N=133)	p value	OR (95% CI)	CM-SJS/TEN (N=78)	Controls (N=266)	p value	OR (95% CI)
B*07:02	2.6% (1/39)	12.8% (17/133)	0.0779		1.3% (1/78)	6.8% (18/266)	0.0872	
B*08:01	2.6% (1/39)	15% (20/133)	0.0483	0.149 (0.0193~1.15)	1.3% (1/78)	7.9% (21/266)	0.0351	0.152 (0.0201~1.14)
B*13:02	2.6% (1/39)	2.3% (3/133)	1.00		1.3% (1/78)	1.1% (3/266)	1.00	
B*14:01	0.0% (0/39)	3% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
B*15:01	2.6% (1/39)	4.5% (6/133)	1.00		1.3% (1/78)	2.3% (6/266)	1.00	
B*15:10	2.6% (1/39)	3% (4/133)	1.00		1.3% (1/78)	1.5% (4/266)	1.00	
B*18:01	7.7% (3/39)	5.3% (7/133)	0.696		3.8% (3/78)	2.6% (7/266)	0.700	
B*27:05	5.1% (2/39)	2.3% (3/133)	0.318		2.6% (2/78)	1.1% (3/266)	0.318	
B*35:01	10.3% (4/39)	13.5% (18/133)	0.787		5.1% (4/78)	6.8% (18/266)	0.794	
B*35:02	5.1% (2/39)	2.3% (3/133)	0.318		2.6% (2/78)	1.1% (3/266)	0.318	
B*35:03	5.1% (2/39)	3.0% (4/133)	0.619		2.6% (2/78)	1.5% (4/266)	0.622	
B*35:08	0.0% (0/39)	3% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
B*38:01	7.7% (3/39)	1.5% (2/133)	0.0775		3.8% (3/78)	0.8% (2/266)	0.0790	
B*39:03	2.6% (1/39)	3.0% (4/133)	1.00		1.3% (1/78)	1.5% (4/266)	1.00	
B*40:01	2.6% (1/39)	2.3% (3/133)	1.00		1.3% (1/78)	1.1% (3/266)	1.00	
B*40:02	5.1% (2/39)	2.3% (3/133)	0.318		2.6% (2/78)	1.1% (3/266)	0.318	

B*41:01	0.0% (0/39)	3% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
B*42:01	5.1% (2/39)	4.5% (6/133)	1.00		2.6% (2/78)	2.3% (6/266)	1.00	
B*44:02	15.4% (6/39)	9% (12/133)	0.248		9.0% (7/78)	5.3% (14/266)	0.279	
B*44:03	25.6% (10/39)	11.3% (15/133)	0.0371	2.71 (1.11~ 6.65)	14.1% (11/78)	5.6% (15/266)	0.0250	2.75 (1.21~ 6.26)
B*45:01	2.6% (1/39)	3% (4/133)	1.00		1.3% (1/78)	1.5% (4/266)	1.00	
B*49:01	7.7% (3/39)	6.8% (9/133)	0.735		3.8% (3/78)	3.4% (9/266)	0.738	
B*50:01	5.1% (2/39)	1.5% (2/133)	0.222		2.6% (2/78)	0.8% (2/266)	0.222	
B*51:01	5.1% (2/39)	18.8% (25/133)	0.0448	0.234 (0.0527~ 1.03)	2.6% (2/78)	9.8% (26/266)	0.0563	
B*52:01	0.0% (0/39)	4.5% (6/133)	0.339		0.0% (0/78)	2.3% (6/266)	0.344	
B*53:01	10.3% (4/39)	9.0% (12/133)	0.761		5.1% (4/78)	4.5% (12/266)	0.765	
B*55:01	2.6% (1/39)	3.0% (4/133)	1.00		1.3% (1/78)	1.5% (4/266)	1.00	
B*56:01	0.0% (0/39)	3.0% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
B*57:01	5.1% (2/39)	6.0% (8/133)	1.00		2.6% (2/78)	3% (8/266)	1.00	
B*57:03	0.0% (0/39)	3.0% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
B*58:01	12.8% (5/39)	5.3% (7/133)	0.146		6.4% (5/78)	2.6% (7/266)	0.153	
B*58:02	7.7% (3/39)	4.5% (6/133)	0.426		3.8% (3/78)	2.3% (6/266)	0.429	
others	25.6% (10/39)	19.5% (26/133)	0.5018		12.8% (10/78)	10.5% (28/266)	0.5435	

eTable 4. HLA-C Analysis With Brazilian CM-SJS/TEN With SOC

HLA-C	Carrier-frequency				Gene-frequency			
	CM-SJS/TEN (N=39)	Controls (N=133)	p value	OR (95% CI)	CM-SJS/TEN (N=78)	Controls (N=266)	p value	OR (95% CI)
C*01:02	2.6% (1/39)	6.0% (8/133)	0.686		1.3% (1/78)	3.0% (8/266)	0.690	
C*02:02	10.3% (4/39)	7.5% (10/133)	0.524		6.4% (5/78)	3.8% (10/266)	0.345	
C*03:02	2.6% (1/39)	4.5% (6/133)	1.00		1.3% (1/78)	2.3% (6/266)	1.00	
C*03:03	5.1% (2/39)	8.3% (11/133)	0.735		2.6% (2/78)	4.1% (11/266)	0.740	
C*03:04	5.1% (2/39)	8.3% (11/133)	0.735		2.6% (2/78)	4.5% (12/266)	0.744	
C*04:01	38.5% (15/39)	30.8% (41/133)	0.438		23.1% (18/78)	16.2% (43/266)	0.178	
C*05:01	17.9% (7/39)	7.5% (10/133)	0.0687		9.0% (7/78)	4.5% (12/266)	0.157	
C*06:02	23.1% (9/39)	11.3% (15/133)	0.0702		11.5% (9/78)	6.0% (16/266)	0.133	
C*07:01	25.6% (10/39)	32.3% (43/133)	0.555		15.4% (12/78)	18.0% (48/266)	0.734	
C*07:02	12.8% (5/39)	18.8% (25/133)	0.477		6.4% (5/78)	10.9% (29/266)	0.287	
C*07:04	0.0% (0/39)	3.0% (4/133)	0.575		0.0% (0/78)	1.5% (4/266)	0.578	
C*08:02	0.0% (0/39)	5.3% (7/133)	0.353		0.0% (0/78)	2.6% (7/266)	0.357	
C*12:03	17.9% (7/39)	3.8% (5/133)	0.00613	5.60 (1.67~18.8)	10.3% (8/78)	1.9% (5/266)	0.00242	5.97 (1.89~18.8)
C*14:02	0.0% (0/39)	4.5% (6/133)	0.339		0.0% (0/78)	2.3% (6/266)	0.344	
C*15:02	5.1% (2/39)	9.8% (13/133)	0.525		2.6% (2/78)	4.9% (13/266)	0.535	
C*16:01	7.7% (3/39)	11.3% (15/133)	0.767		3.8% (3/78)	5.6% (15/266)	0.773	
C*17:01	5.1% (2/39)	7.5% (10/133)	1.00		2.6% (2/78)	3.8% (10/266)	1	
others	2.6% (1/39)	8.3% (11/133)	0.302		1.3% (1/78)	4.1% (11/266)	0.31	

others include the alleles which total number <4. *; Woolf's correction; p value; fisher exact test; OR; odds ratio; CI; confidence interval.

eTable 5. Significant Thresholds of the HLA Alleles in the Permutation Test

HLA	all CM-SJS/TEN		Pardo Caucasian CM-SJS/TEN		European ancestry CM-SJS/TEN	
	Carrier-frequency	Gene-frequency	Carrier-frequency	Gene-frequency	Carrier-frequency	Gene-frequency
HLA-A	0.00588	0.00514	0.00766	0.00679	0.00815	0.00908
HLA-B	0.00405	0.00267	0.00766	0.00831	0.00815	0.00908
HLA-C	0.00671	0.00514	0.00766	0.00679	0.00815	0.00657