

Table e-1.
Total overview of HLA allele frequencies in MOG-IgG seropositive patients and controls

Antigen	MOG-IgG			Control			Woolf-Haldane			Fisher's Exact (2-sided)	
	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
A*01	19	24	44.2	1887	3717	33.7	1.57	0.863	2.849	0.1484	0.9598
A*02	24	19	55.8	2745	2859	49.0	1.31	0.720	2.378	0.4445	1.0000
A*03	15	28	34.9	1640	3964	29.3	1.31	0.706	2.446	0.4051	1.0000
A*11	6	37	14.0	649	4955	11.6	1.32	0.573	3.053	0.6299	1.0000
A*23	1	42	2.3	134	5470	2.4	1.44	0.279	7.380	1.0000	1.0000
A*24	4	39	9.3	921	4683	16.4	0.58	0.218	1.539	0.2988	0.9992
A*25	0	43	0.0	122	5482	2.2	0.51	0.031	8.405	1.0000	1.0000
A*26	2	41	4.7	248	5356	4.4	1.30	0.360	4.683	0.7157	1.0000
A*29	2	41	4.7	299	5305	5.3	1.07	0.296	3.845	1.0000	1.0000
A*30	3	40	7.0	276	5328	4.9	1.67	0.555	4.997	0.4701	1.0000
A*31	2	41	4.7	314	5290	5.6	1.01	0.281	3.650	1.0000	1.0000
A*32	2	41	4.7	355	5249	6.3	0.89	0.247	3.202	1.0000	1.0000
A*33	0	43	0.0	113	5491	2.0	0.56	0.034	9.090	1.0000	1.0000
A*34	0	43	0.0	17	5587	0.3	3.67	0.217	62.000	1.0000	1.0000
A*36	0	43	0.0	9	5595	0.2	6.77	0.388	118.154	1.0000	1.0000
A*66	0	43	0.0	33	5571	0.6	1.91	0.115	31.700	1.0000	1.0000
A*68	0	43	0.0	517	5087	9.2	0.11	0.007	1.838	0.0299	0.4554
A*69	0	43	0.0	9	5595	0.2	6.77	0.388	118.154	1.0000	1.0000
A*74	0	43	0.0	5	5599	0.1	11.70	0.637	214.910	1.0000	1.0000
A*80	0	43	0.0	2	5602	0.0	25.76	1.219	544.467	1.0000	1.0000
B*07	11	32	25.6	1391	4213	24.8	1.07	0.545	2.105	0.8609	1.0000
B*08	18	25	41.9	1436	4168	25.6	2.11	1.154	3.842	0.0217	0.5834
B*13	3	40	7.0	229	5375	4.1	2.02	0.674	6.081	0.2588	1.0000
B*14	0	43	0.0	217	5387	3.9	0.28	0.017	4.640	0.4123	1.0000
B62	10	33	23.3	837	4732	15.0	1.77	0.882	3.556	0.1353	0.9970
B63	0	43	0.0	44	5525	0.8	1.43	0.087	23.548	1.0000	1.0000
B75	1	42	2.3	16	5553	0.3	11.88	2.173	64.930	0.1227	0.9947
B76	0	43	0.0	1	5568	0.0	42.67	1.714	1062.147	1.0000	1.0000
B77	0	43	0.0	9	5560	0.2	6.73	0.385	117.415	1.0000	1.0000
B*18	1	42	2.3	414	5190	7.4	0.44	0.086	2.259	0.3704	1.0000
B*27	1	42	2.3	405	5199	7.2	0.45	0.089	2.313	0.3676	1.0000
B*35	8	35	18.6	1090	4514	19.5	0.99	0.468	2.101	1.0000	1.0000
B*37	2	41	4.7	181	5423	3.2	1.80	0.498	6.506	0.6499	1.0000
B*38	1	42	2.3	186	5418	3.3	1.03	0.200	5.259	1.0000	1.0000
B*39	1	42	2.3	229	5375	4.1	0.83	0.161	4.235	1.0000	1.0000
B60	5	38	11.6	676	4832	12.3	1.02	0.416	2.503	1.0000	1.0000
B61	2	41	4.7	198	5310	3.6	1.61	0.446	5.821	0.6677	1.0000
B*41	0	43	0.0	86	5518	1.5	0.73	0.045	12.009	1.0000	1.0000
B*42	0	43	0.0	9	5595	0.2	6.77	0.388	118.154	1.0000	1.0000
B*44	9	34	20.9	1257	4347	22.4	0.95	0.463	1.958	1.0000	1.0000

Antigen	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
B*45	1	42	2.3	60	5544	1.1	3.23	0.622	16.807	0.3742	1.0000
B*46	0	43	0.0	9	5595	0.2	6.77	0.388	118.154	1.0000	1.0000
B*47	0	43	0.0	29	5575	0.5	2.17	0.131	36.124	1.0000	1.0000
B*48	0	43	0.0	5	5599	0.1	11.70	0.637	214.910	1.0000	1.0000
B*49	0	43	0.0	84	5520	1.5	0.75	0.046	12.300	1.0000	1.0000
B*50	2	41	4.7	84	5520	1.5	3.94	1.079	14.360	0.1389	0.9975
B*51	5	38	11.6	590	5014	10.5	1.21	0.494	2.976	0.8015	1.0000
B*52	0	43	0.0	50	5554	0.9	1.26	0.077	20.821	1.0000	1.0000
B*53	0	43	0.0	40	5564	0.7	1.58	0.096	26.096	1.0000	1.0000
B*54	0	43	0.0	2	5602	0.0	25.76	1.219	544.467	1.0000	1.0000
B*55	0	43	0.0	239	5365	4.3	0.26	0.016	4.196	0.2616	1.0000
B*56	0	43	0.0	77	5527	1.4	0.82	0.050	13.437	1.0000	1.0000
B*57	1	42	2.3	368	5236	6.6	0.50	0.098	2.564	0.5265	1.0000
B*58	0	43	0.0	93	5511	1.7	0.68	0.041	11.089	1.0000	1.0000
B*67	0	43	0.0	1	5603	0.0	42.94	1.725	1068.823	1.0000	1.0000
B71	0	43	0.0	19	5550	0.3	3.27	0.194	55.053	1.0000	1.0000
B72	0	43	0.0	26	5543	0.5	2.40	0.144	40.088	1.0000	1.0000
B*73	0	43	0.0	2	5602	0.0	25.76	1.219	544.467	1.0000	1.0000
B*78	0	43	0.0	3	5601	0.1	18.40	0.936	361.528	1.0000	1.0000
B*81	0	43	0.0	3	5601	0.1	18.40	0.936	361.528	1.0000	1.0000
C*01	2	41	4.7	323	5281	5.8	0.98	0.273	3.542	1.0000	1.0000
C*02	4	39	9.3	575	5029	10.3	1.00	0.374	2.650	1.0000	1.0000
C*03	11	32	25.6	1665	3939	29.7	0.84	0.426	1.644	0.6187	1.0000
C*04	10	33	23.3	1287	4317	23.0	1.05	0.524	2.108	1.0000	1.0000
C*05	7	36	16.3	764	4840	13.6	1.30	0.591	2.865	0.6535	1.0000
C*06	8	35	18.6	898	4706	16.0	1.25	0.591	2.660	0.6752	1.0000
C*07	25	18	58.1	3140	2464	56.0	1.08	0.593	1.973	0.8778	1.0000
C*08	1	42	2.3	233	5371	4.2	0.81	0.159	4.159	1.0000	1.0000
C*12	2	41	4.7	466	5138	8.3	0.66	0.185	2.386	0.5785	1.0000
C*14	0	43	0.0	117	5487	2.1	0.54	0.033	8.772	1.0000	1.0000
C*15	2	41	4.7	287	5317	5.1	1.11	0.309	4.015	1.0000	1.0000
C*16	3	40	7.0	343	5261	6.1	1.32	0.442	3.966	0.7457	1.0000
C*17	0	43	0.0	97	5507	1.7	0.65	0.040	10.623	1.0000	1.0000
C*18	0	43	0.0	2	5602	0.0	25.76	1.219	544.467	1.0000	1.0000
DRB1*01	9	34	20.9	1234	4370	22.0	0.97	0.474	2.005	1.0000	1.0000
DRB1*03#	13	30	30.2	1524	3990	27.6	1.16	0.609	2.205	0.7326	1.0000
DR18	0	43	0.0	8	5506	0.1	7.45	0.423	131.038	1.0000	1.0000
DRB1*04	13	30	30.2	1557	4047	27.8	1.15	0.604	2.189	0.7334	1.0000
DRB1*07	9	34	20.9	1098	4506	19.6	1.13	0.549	2.323	0.8469	1.0000
DRB1*08	3	40	7.0	361	5243	6.4	1.25	0.418	3.755	0.7553	1.0000
DRB1*09	1	42	2.3	160	5444	2.9	1.20	0.233	6.147	1.0000	1.0000
DRB1*10	1	42	2.3	132	5472	2.4	1.46	0.283	7.495	1.0000	1.0000
DRB1*11	7	36	16.3	930	4674	16.6	1.03	0.469	2.272	1.0000	1.0000
DRB1*12	1	42	2.3	210	5394	3.7	0.90	0.176	4.636	1.0000	1.0000

Antigen	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
DRB1*13	7	36	16.3	1393	4211	24.9	0.62	0.282	1.366	0.2190	0.9686
DRB1*14	2	41	4.7	373	5231	6.7	0.84	0.234	3.037	1.0000	1.0000
DRB1*15	16	27	37.2	1356	4248	24.2	1.88	1.018	3.470	0.0718	0.6477
DRB1*16	0	43	0.0	165	5439	2.9	0.38	0.023	6.163	0.6374	1.0000
DQ7	11	32	25.6	1641	3894	29.6	0.84	0.427	1.649	0.6190	0.9988
DQ8	11	32	25.6	1073	4462	19.4	1.47	0.748	2.891	0.3317	0.9405
DQ9	2	41	4.7	504	5031	9.1	0.60	0.167	2.160	0.4287	0.9801
DQB1*02	21	22	48.8	2204	3400	39.3	1.47	0.814	2.668	0.2129	0.8128
DQB1*04	3	40	7.0	340	5264	6.1	1.34	0.446	4.004	0.7442	0.9999
DQB1*05	12	31	27.9	1840	3764	32.8	0.81	0.421	1.567	0.6250	0.9990
DQB1*06	23	20	53.5	2470	3134	44.1	1.45	0.802	2.636	0.2215	0.8267
DRB3	26	17	60.5	3744	1860	66.8	0.75	0.410	1.380	0.4170	0.8019
DRB4	21	22	48.8	2608	2996	46.5	1.10	0.606	1.987	0.7619	0.9865
DRB5	16	27	37.2	1508	4096	26.9	1.63	0.882	3.008	0.1659	0.4196

DRB1*03 comprises DR17.

C.I. = confidence interval; MOG-IgG = myelin oligodendrocyte glycoprotein antibody; neg = negative; OR = odds ratio, pc = corrected for multiple testing with Sidak's method; pos = positive.

Table e-2.
Total overview of HLA allele frequencies in AQP4-IgG seropositive patients and controls

Antigen	AQP4-IgG			Control			Woolf-Haldane			Fisher's Exact (2-sided)	
	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
A*01	26	16	61.9	1887	3717	33.7	3.16	1.707	5.863	0.0002	0.0045
A*02	13	29	31.0	2745	2859	49.0	0.48	0.250	0.910	0.0204	0.3379
A*03	14	28	33.3	1640	3964	29.3	1.23	0.652	2.320	0.6099	1.0000
A*11	7	35	16.7	649	4955	11.6	1.61	0.730	3.558	0.3281	0.9996
A*23	0	42	0.0	134	5470	2.4	0.48	0.029	7.817	0.6263	1.0000
A*24	5	37	11.9	921	4683	16.4	0.75	0.304	1.829	0.5340	1.0000
A*25	0	42	0.0	122	5482	2.2	0.53	0.032	8.606	1.0000	1.0000
A*26	1	41	2.4	248	5356	4.4	0.78	0.152	3.992	1.0000	1.0000
A*29	0	42	0.0	299	5305	5.3	0.21	0.013	3.395	0.1699	0.9759
A*30	1	41	2.4	276	5328	4.9	0.70	0.136	3.567	0.7219	1.0000
A*31	3	39	7.1	314	5290	5.6	1.49	0.497	4.473	0.5098	1.0000
A*32	5	37	11.9	355	5249	6.3	2.17	0.879	5.334	0.1887	0.9847
A*33	0	42	0.0	113	5491	2.0	0.57	0.035	9.307	1.0000	1.0000
A*34	0	42	0.0	17	5587	0.3	3.76	0.222	63.483	1.0000	1.0000
A*36	0	42	0.0	9	5595	0.2	6.93	0.397	120.978	1.0000	1.0000
A*66	0	42	0.0	33	5571	0.6	1.96	0.118	32.458	1.0000	1.0000
A*68	3	39	7.1	517	5087	9.2	0.87	0.291	2.609	1.0000	1.0000
A*69	0	42	0.0	9	5595	0.2	6.93	0.397	120.978	1.0000	1.0000
A*74	0	42	0.0	5	5599	0.1	11.98	0.652	220.045	1.0000	1.0000
A*80	0	42	0.0	2	5602	0.0	26.36	1.247	557.468	1.0000	1.0000
B*07	6	36	14.3	1391	4213	24.8	0.54	0.234	1.245	0.1497	0.9985
B*08	26	16	61.9	1436	4168	25.6	4.66	2.513	8.643	0.0000	0.0000
B*13	1	41	2.4	229	5375	4.1	0.85	0.165	4.340	1.0000	1.0000
B*14	0	42	0.0	217	5387	3.9	0.29	0.018	4.751	0.4095	1.0000
B62	3	39	7.1	837	4732	15.0	0.50	0.167	1.498	0.1936	0.9998
B63	0	42	0.0	44	5525	0.8	1.46	0.089	24.111	1.0000	1.0000
B75	0	42	0.0	16	5553	0.3	3.96	0.234	67.078	1.0000	1.0000
B76	0	42	0.0	1	5568	0.0	43.67	1.754	1087.491	1.0000	1.0000
B77	0	42	0.0	9	5560	0.2	6.89	0.394	120.222	1.0000	1.0000
B*18	0	42	0.0	414	5190	7.4	0.15	0.009	2.398	0.0715	0.9487
B*27	1	41	2.4	405	5199	7.2	0.46	0.091	2.370	0.3652	1.0000
B*35	7	35	16.7	1090	4514	19.5	0.87	0.397	1.928	0.8447	1.0000
B*37	2	40	4.8	181	5423	3.2	1.84	0.510	6.673	0.3972	1.0000
B*38	1	41	2.4	186	5418	3.3	1.05	0.205	5.389	1.0000	1.0000
B*39	3	39	7.1	229	5375	4.1	2.08	0.690	6.241	0.2477	1.0000
B60	6	36	14.3	676	4832	12.3	1.27	0.550	2.942	0.6376	1.0000
B61	2	40	4.8	198	5310	3.6	1.65	0.457	5.970	0.6633	1.0000
B*41	0	42	0.0	86	5518	1.5	0.75	0.046	12.296	1.0000	1.0000
B*42	0	42	0.0	9	5595	0.2	6.93	0.397	120.978	1.0000	1.0000
B*44	8	34	19.0	1257	4347	22.4	0.85	0.401	1.809	0.7122	1.0000

Antigen	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
B*45	0	42	0.0	60	5544	1.1	1.08	0.066	17.723	1.0000	1.0000
B*46	0	42	0.0	9	5595	0.2	6.93	0.397	120.978	1.0000	1.0000
B*47	1	41	2.4	29	5575	0.5	6.83	1.288	36.242	0.2011	0.9999
B*48	0	42	0.0	5	5599	0.1	11.98	0.652	220.045	1.0000	1.0000
B*49	0	42	0.0	84	5520	1.5	0.77	0.047	12.594	1.0000	1.0000
B*50	0	42	0.0	84	5520	1.5	0.77	0.047	12.594	1.0000	1.0000
B*51	1	41	2.4	590	5014	10.5	0.31	0.060	1.569	0.1226	0.9947
B*52	0	42	0.0	50	5554	0.9	1.29	0.079	21.319	1.0000	1.0000
B*53	0	42	0.0	40	5564	0.7	1.62	0.098	26.720	1.0000	1.0000
B*54	0	42	0.0	2	5602	0.0	26.36	1.247	557.468	1.0000	1.0000
B*55	3	39	7.1	239	5365	4.3	1.99	0.660	5.968	0.4257	1.0000
B*56	2	40	4.8	77	5527	1.4	4.40	1.204	16.103	0.1164	0.9929
B*57	3	39	7.1	368	5236	6.6	1.26	0.420	3.776	0.7543	1.0000
B*58	0	42	0.0	93	5511	1.7	0.69	0.042	11.354	1.0000	1.0000
B*67	0	42	0.0	1	5603	0.0	43.95	1.765	1094.325	1.0000	1.0000
B71	0	42	0.0	19	5550	0.3	3.35	0.199	56.369	1.0000	1.0000
B72	0	42	0.0	26	5543	0.5	2.46	0.148	41.046	1.0000	1.0000
B*73	0	42	0.0	2	5602	0.0	26.36	1.247	557.468	1.0000	1.0000
B*78	0	42	0.0	3	5601	0.1	18.83	0.958	370.164	1.0000	1.0000
B*81	0	42	0.0	3	5601	0.1	18.83	0.958	370.164	1.0000	1.0000
C*01	2	40	4.8	323	5281	5.8	1.01	0.280	3.633	1.0000	1.0000
C*02	5	37	11.9	575	5029	10.3	1.28	0.522	3.150	0.6149	1.0000
C*03	14	28	33.3	1665	3939	29.7	1.20	0.638	2.271	0.6131	1.0000
C*04	6	36	14.3	1287	4317	23.0	0.60	0.259	1.379	0.2668	0.9870
C*05	0	42	0.0	764	4840	13.6	0.07	0.005	1.212	0.0049	0.0659
C*06	8	34	19.0	898	4706	16.0	1.29	0.607	2.743	0.5316	1.0000
C*07	32	10	76.2	3140	2464	56.0	2.43	1.209	4.880	0.0116	0.1504
C*08	0	42	0.0	233	5371	4.2	0.27	0.017	4.412	0.4189	0.9995
C*12	2	40	4.8	466	5138	8.3	0.68	0.189	2.447	0.5775	1.0000
C*14	1	41	2.4	117	5487	2.1	1.69	0.328	8.695	0.5895	1.0000
C*15	0	42	0.0	287	5317	5.1	0.22	0.013	3.545	0.2738	0.9887
C*16	2	40	4.8	343	5261	6.1	0.95	0.262	3.407	1.0000	1.0000
C*17	0	42	0.0	97	5507	1.7	0.66	0.041	10.877	1.0000	1.0000
C*18	0	42	0.0	2	5602	0.0	26.36	1.247	557.468	1.0000	1.0000
DRB1*01	9	32	22.0	1234	4370	22.0	1.03	0.501	2.138	1.0000	1.0000
DRB1*03#	21	20	51.2	1524	3990	27.6	2.75	1.495	5.042	0.0014	0.0199
DR18	0	41	0.0	8	5506	0.1	7.81	0.443	137.455	1.0000	1.0000
DRB1*04	5	36	12.2	1557	4047	27.8	0.39	0.159	0.962	0.0231	0.2792
DRB1*07	7	34	17.1	1098	4506	19.6	0.89	0.404	1.970	0.8439	1.0000
DRB1*08	5	36	12.2	361	5243	6.4	2.19	0.886	5.391	0.1869	0.9448
DRB1*09	1	40	2.4	160	5444	2.9	1.26	0.244	6.459	1.0000	1.0000
DRB1*10	2	39	4.9	132	5472	2.4	2.61	0.720	9.494	0.2542	0.9835
DRB1*11	3	38	7.3	930	4674	16.6	0.46	0.153	1.367	0.1387	0.8764
DRB1*12	2	39	4.9	210	5394	3.7	1.62	0.448	5.867	0.6664	1.0000

Antigen	pos	neg	%	pos	neg	%	OR	95% C.I.		p	pc
DRB1*13	8	33	19.5	1393	4211	24.9	0.77	0.360	1.632	0.5858	1.0000
DRB1*14	3	38	7.3	373	5231	6.7	1.27	0.424	3.823	0.7521	1.0000
DRB1*15	8	33	19.5	1356	4248	24.2	0.79	0.373	1.691	0.5849	1.0000
DRB1*16	1	40	2.4	165	5439	2.9	1.22	0.237	6.257	1.0000	1.0000
DQ7	7	34	17.1	1641	3894	29.6	0.52	0.234	1.138	0.0867	0.4698
DQ8	3	38	7.3	1073	4462	19.4	0.38	0.126	1.131	0.0482	0.2922
DQ9	5	36	12.2	504	5031	9.1	1.50	0.610	3.701	0.4184	0.9775
DQB1*02	24	17	58.5	2204	3400	39.3	2.16	1.167	3.998	0.0155	0.1035
DQB1*04	5	36	12.2	340	5264	6.1	2.33	0.944	5.749	0.1024	0.5307
DQB1*05	15	26	36.6	1840	3764	32.8	1.20	0.638	2.245	0.6188	0.9988
DQB1*06	16	25	39.0	2470	3134	44.1	0.82	0.441	1.528	0.5332	0.9952
DRB3	28	13	68.3	3744	1860	66.8	1.05	0.548	2.009	1.0000	1.0000
DRB4	12	29	29.3	2608	2996	46.5	0.49	0.251	0.945	0.0281	0.0821
DRB5	9	32	22.0	1508	4096	26.9	0.79	0.384	1.639	0.5964	0.9343

DRB1*03 comprises DR17.

AQP4-IgG = aquaporin-4 antibody; C.I. = confidence interval; neg = negative; OR = odds ratio, pc = corrected for multiple testing with Sidak's method; pos = positive.