

Exome-wide association study identified genetic variants contributing to the risk of cerebral palsy **Supplementary information**

Supplementary Table 1. The correlation between clinical variables.

	Sex	GW	BW	BA	Subtype	PVL	MI
Sex	1						
GW	-0.032	1					
BW	-0.062	0.67	1				
BA	-0.042	-0.15	-0.095	1			
Subtype	-0.004	-0.17	-0.184	0.15	1		
PVL	-0.013	-0.32	-0.284	0.11	0.15	1	
MI	0.039	0.062	0.078	0.0072	0.042	0.15	1

GW gestational week, BW birth weight, BA birth asphyxia, PVL periventricular

leukomalacia, MI maternal infection during pregnancy. Numbers represent Pearson's correlation coefficients.

Supplementary Table 2. Characteristics of HLA typing in all individuals.

Allele	Allele Numbers Detected		Success typing rate (%)
	Cases (n = 1, 090)	Controls (n = 1, 100)	
A	49	46	100
B	81	86	100
C	40	39	100
DRB1	49	50	100
DRB2	1	1	50.27
DRB3	13	17	59.12
DRB4	6	7	63.57
DRB5	12	18	39.09
DRB6	3	3	39.55
DRB7	1	1	63.24
DRB8	1	1	61.73
DRB9	1	2	94.18
DRA	2	3	99.91
DQA1	19	18	99.95
DQB1	23	29	100
DPA1	9	11	100
DPB1	31	36	99.95
DMA	4	4	99.86
DMB	4	6	99.91
DOA	3	3	99.91
DOB	5	5	99.95
E	4	3	100
F	3	4	100
G	7	6	100
H	8	12	97.71
J	1	2	99.95
K	3	3	89.14
L	2	2	99.95
V	1	1	99.73

Supplementary Table 3. Hardy-Weinberg equilibrium tests for HLA loci in 1,100

controls.

Locus	HWE test P value	Heterozygosity	
		Observed (%)	Expected (%)
A	0.25	88.77	88.91
B	0.67	95.16	95.21
C	0.65	89.98	90.77
DRB1	0.62	92.06	92.96
DRA	0.036	39.72	40.07
DQA1	0.22	88.60	89.85
DQB1	0.80	88.26	88.96
DPA1	0.22	64.42	60.04
DPB1	0.40	82.73	80.50
DMA	0.0067	39.38	43.21
DMB	0.0049	46.11	50.70
DOA	1.00	2.94	2.90
DOB	0.0001	29.02	32.35
E	0.14	44.56	48.09
F	1.00	7.60	7.33
G	1.00	46.11	48.21
L	0.051	52.16	48.10
V	-	0	0

HWE Hardy-Weinberg equilibrium.