

Appendix

SUPPLEMENTARY TABLE 1.

Significant Correlations

Automated Whole CC	Eye Movement			Ambulation			Speech			Swallowing			Motor		
	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>
FA															
L genu	0.01	−0.37	6.11	<0.01	−0.65	27.71	<0.01	−0.55	16.16	<0.01	−0.58	19.13	<0.01	−0.68	31.97
L body	0.03	−0.34	4.91	<0.01	−0.65	26.56	<0.01	−0.55	15.82	<0.01	−0.55	15.66	<0.01	−0.66	28.21
L splenium	0.04	−0.32	4.16	<0.01	−0.57	18.21	<0.01	−0.45	9.57	<0.01	−0.51	12.73	<0.01	−0.6	21.07
R genu	0.39	−0.14	0.74	<0.01	−0.59	19.52	<0.01	−0.38	6.19	<0.01	−0.49	11.7	<0.01	−0.53	14.31
R body	0.01	−0.4	7.13	<0.01	−0.71	37.39	<0.01	−0.59	19.37	<0.01	−0.6	20.7	<0.01	−0.71	36.84
R splenium	0.04	−0.32	4.42	<0.01	−0.57	18.39	<0.01	−0.46	9.82	<0.01	−0.48	11.15	<0.01	−0.59	20.42
TOTAL	0.03	−0.33	4.55	<0.01	−0.67	29.67	<0.01	−0.53	14.16	<0.01	−0.57	17.81	<0.01	−0.67	29.75
Volume															
L genu	0.08	−0.28	3.24	<0.01	−0.6	21.36	<0.01	−0.45	9.79	<0.01	−0.51	13.23	<0.01	−0.49	12.08
L body	0.01	−0.36	6.12	<0.01	−0.62	26.72	<0.01	−0.5	14.01	<0.01	−0.5	13.37	<0.01	−0.55	17.5
L splenium	0.06	−0.29	3.59	<0.01	−0.63	26.24	<0.01	−0.49	12.51	<0.01	−0.55	17.35	<0.01	−0.57	18.72
R genu	0.08	−0.28	3.19	<0.01	−0.62	23.73	<0.01	−0.44	8.81	<0.01	−0.5	12.44	<0.01	−0.5	12.22
R body	<0.01	−0.4	7.66	<0.01	−0.68	37.02	<0.01	−0.56	18.71	<0.01	−0.55	17.27	<0.01	−0.58	21.09
R splenium	0.04	−0.31	4.16	<0.01	−0.59	22.07	<0.01	−0.47	10.97	<0.01	−0.52	15.1	<0.01	−0.54	16.23
TOTAL	0.03	−0.33	4.77	<0.01	−0.65	28.99	<0.01	−0.5	13.29	<0.01	−0.54	16.53	<0.01	−0.56	17.99
Manual midsagittal															
FA midsagittal	0.02	−0.37	5.83	<0.01	−0.68	31.42	<0.01	−0.54	15.49	<0.01	−0.54	15.23	<0.01	−0.64	25.67
Area midsagittal	0.08	−0.28	3.19	<0.01	−0.69	33.95	<0.01	−0.55	16.03	<0.01	−0.61	21.78	<0.01	−0.6	21.07
Automated midsagittal															
FA midsagittal	0.07	−0.29	3.37	<0.01	−0.69	34.14	<0.01	−0.51	12.97	<0.01	−0.53	14.28	<0.01	−0.66	28.59
Area midsagittal	0.23	−0.18	1.45	<0.01	−0.55	17.84	<0.01	−0.37	6.65	<0.01	−0.42	9.08	<0.01	−0.39	7.17

Abbreviations:

L = Left

R = Right

CC = Corpus callosum

FA = Fractional anisotropy

Area mentioned here refers to the cross-sectional area.

Nonsignificant *P* values >0.05 are distinguished by bold values.CoQ10 therapy analyses do not have *r* and *F* values because of Mann-Whitney test used.

SUPPLEMENTARY TABLE 1.
Significant Correlations

Cognition			Memory			Seizures			Narcolepsy			Hyperreflexia			Incontinence			CoQ10 Therapy	
<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	
FA																			
<0.01	-0.64	26.04	<0.01	-0.56	17.28	<0.01	-0.6	20.84	<0.01	-0.42	8.22	0.01	-0.37	6.1	<0.01	-0.67	31.13	0.60	
<0.01	-0.58	18.91	<0.01	-0.54	15.58	<0.01	-0.56	19.27	<0.01	-0.32	4.17	0.03	-0.33	4.64	<0.01	-0.61	22.27	0.32	
<0.01	-0.5	12.17	<0.01	-0.5	12.2	<0.01	-0.4	7.27	0.59	-0.08	0.29	0.25	-0.19	1.36	<0.01	-0.56	17.19	0.38	
<0.01	-0.53	14.4	<0.01	-0.38	6.17	<0.01	-0.48	11.14	0.02	-0.35	5.12	0.04	-0.32	4.22	<0.01	-0.51	13.11	0.69	
<0.01	-0.62	23.67	<0.01	-0.6	20.99	<0.01	-0.63	24.86	0.02	-0.36	5.53	0.01	-0.39	6.78	<0.01	-0.64	26.03	0.25	
<0.01	-0.5	12.8	<0.01	-0.49	11.97	<0.01	-0.43	8.32	0.41	-0.13	0.7	0.20	-0.21	1.7	<0.01	-0.56	17.42	0.32	
<0.01	-0.6	21.23	<0.01	-0.54	15.42	<0.01	-0.56	17.24	0.04	-0.32	4.14	0.03	-0.33	4.62	<0.01	-0.63	24.78	0.66	
Volume																			
<0.01	-0.5	12.94	<0.01	-0.46	10.08	<0.01	-0.54	15.27	0.03	-0.33	4.63	0.02	-0.37	5.9	<0.01	-0.49	11.66	0.43	
<0.01	-0.53	15.81	<0.01	-0.51	14.84	<0.01	-0.53	16.29	0.07	-0.27	3.32	0.02	-0.35	5.5	<0.01	-0.5	14.04	0.03	
<0.01	-0.48	11.79	<0.01	-0.46	10.34	<0.01	-0.48	11.77	0.59	-0.25	2.52	0.03	-0.34	4.97	<0.01	-0.49	12.14	0.08	
<0.01	-0.52	14.2	<0.01	-0.43	8.53	<0.01	-0.5	12.46	0.06	-0.3	3.64	0.03	-0.34	4.98	<0.01	-0.47	10.86	0.33	
<0.01	-0.56	18.87	<0.01	-0.53	15.57	<0.01	-0.52	14.96	0.13	-0.23	2.32	0.04	-0.32	4.42	<0.01	-0.49	12.92	0.01	
<0.01	-0.48	11.71	<0.01	-0.43	8.89	<0.01	-0.44	9.55	0.16	-0.22	2.04	0.02	-0.35	5.6	<0.01	-0.45	10.18	0.06	
<0.01	-0.53	15.23	<0.01	-0.48	11.95	<0.01	-0.51	14.14	0.08	-0.27	3.14	0.02	-0.36	5.69	<0.01	-0.5	13.01	0.19	
Manual midsagittal																			
<0.01	-0.55	16	<0.01	-0.55	15.69	<0.01	-0.56	16.81	0.06	-0.3	3.7	0.12	-0.25	2.52	<0.01	-0.62	23.72	0.60	
<0.01	-0.51	13.36	<0.01	-0.54	15.54	<0.01	-0.55	16.33	0.12	-0.25	2.42	0.10	-0.27	2.84	<0.01	-0.48	11.39	0.13	
Automated midsagittal																			
<0.01	-0.52	14.02	<0.01	-0.45	9.15	<0.01	-0.58	18.64	0.04	-0.33	4.51	0.04	-0.33	4.42	<0.01	-0.56	16.53	0.45	
<0.01	-0.39	7.6	<0.01	-0.39	7.49	<0.01	-0.43	9.2	0.27	-0.17	1.25	0.16	-0.22	2.04	0.01	-0.39	7.23	0.15	

SUPPLEMENTARY TABLE 2.
Nonsignificant Correlations

Automated Whole CC	Eye Movement			Ambulation			Speech			Swallowing			Motor	
	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>	<i>F</i>	<i>P</i>	<i>r</i>
FA														
L genu	0.01	−0.37	6.11	<0.01	−0.65	27.71	<0.01	−0.55	16.16	<0.01	−0.58	19.13	<0.01	−0.68
L body	0.03	−0.34	4.91	<0.01	−0.65	26.56	<0.01	−0.55	15.82	<0.01	−0.55	15.66	<0.01	−0.66
L splenium	0.04	−0.32	4.16	<0.01	−0.57	18.21	<0.01	−0.45	9.57	<0.01	−0.51	12.73	<0.01	−0.6
R genu	0.39	−0.14	0.74	<0.01	−0.59	19.52	<0.01	−0.38	6.19	<0.01	−0.49	11.7	<0.01	−0.53
R body	0.01	−0.4	7.13	<0.01	−0.71	37.39	<0.01	−0.59	19.37	<0.01	−0.6	20.7	<0.01	−0.71
R splenium	0.04	−0.32	4.42	<0.01	−0.57	18.39	<0.01	−0.46	9.82	<0.01	−0.48	11.15	<0.01	−0.59
TOTAL	0.03	−0.33	4.55	<0.01	−0.67	29.67	<0.01	−0.53	14.16	<0.01	−0.57	17.81	<0.01	−0.67
Volume														
L genu	0.08	−0.28	3.24	<0.01	−0.6	21.36	<0.01	−0.45	9.79	<0.01	−0.51	13.23	<0.01	−0.49
L body	0.01	−0.36	6.12	<0.01	−0.62	26.72	<0.01	−0.5	14.01	<0.01	−0.5	13.37	<0.01	−0.55
L splenium	0.06	−0.29	3.59	<0.01	−0.63	26.24	<0.01	−0.49	12.51	<0.01	−0.55	17.35	<0.01	−0.57
R genu	0.08	−0.28	3.19	<0.01	−0.62	23.73	<0.01	−0.44	8.81	<0.01	−0.5	12.44	<0.01	−0.5
R body	<0.01	−0.4	7.66	<0.01	−0.68	37.02	<0.01	−0.56	18.71	<0.01	−0.55	17.27	<0.01	−0.58
R splenium	0.04	−0.31	4.16	<0.01	−0.59	22.07	<0.01	−0.47	10.97	<0.01	−0.52	15.1	<0.01	−0.54
TOTAL	0.03	−0.33	4.77	<0.01	−0.65	28.99	<0.01	−0.5	13.29	<0.01	−0.54	16.53	<0.01	−0.56
Manual midsagittal														
FA midsagittal	0.02	−0.37	5.83	<0.01	−0.68	31.42	<0.01	−0.54	15.49	<0.01	−0.54	15.23	<0.01	−0.64
Area midsagittal	0.08	−0.28	3.19	<0.01	−0.69	33.95	<0.01	−0.55	16.03	<0.01	−0.61	21.78	<0.01	−0.6
Automated midsagittal														
FA midsagittal	0.07	−0.29	3.37	<0.01	−0.69	34.14	<0.01	−0.51	12.97	<0.01	−0.53	14.28	<0.01	−0.66
Area midsagittal	0.23	−0.18	1.45	<0.01	−0.55	17.84	<0.01	−0.37	6.65	<0.01	−0.42	9.08	<0.01	−0.39

Abbreviations:

L = Left

R = Right

CC = Corpus callosum

FA = Fractional anisotropy

Area mentioned here refers to the cross-sectional area.

Significant *P* values <0.05 are distinguished by bold values.

CoQ10 therapy analyses do not have *r* and *F* values because of Mann-Whitney test used.

SUPPLEMENTARY TABLE 2.

Nonsignificant Correlations

Motor F	Cognition			Memory			Seizures			Narcolepsy			Hyperreflexia			Incontinence			CoQ10 Therapy P
	P	r	F	P	r	F	P	r	F	P	r	F	P	r	F	P	r	F	
FA																			
31.97	<0.01	-0.64	26.04	<0.01	-0.56	17.28	<0.01	-0.6	20.84	<0.01	-0.42	8.22	0.01	-0.37	6.1	<0.01	-0.67	31.13	0.60
28.21	<0.01	-0.58	18.91	<0.01	-0.54	15.58	<0.01	-0.56	19.27	<0.01	-0.32	4.17	0.03	-0.33	4.64	<0.01	-0.61	22.27	0.32
21.07	<0.01	-0.5	12.17	<0.01	-0.5	12.2	<0.01	-0.4	7.27	0.59	-0.08	0.29	0.25	-0.19	1.36	<0.01	-0.56	17.19	0.38
14.31	<0.01	-0.53	14.4	<0.01	-0.38	6.17	<0.01	-0.48	11.14	0.02	-0.35	5.12	0.04	-0.32	4.22	<0.01	-0.51	13.11	0.69
36.84	<0.01	-0.62	23.67	<0.01	-0.6	20.99	<0.01	-0.63	24.86	0.02	-0.36	5.53	0.01	-0.39	6.78	<0.01	-0.64	26.03	0.25
20.42	<0.01	-0.5	12.8	<0.01	-0.49	11.97	<0.01	-0.43	8.32	0.41	-0.13	0.7	0.20	-0.21	1.7	<0.01	-0.56	17.42	0.32
29.75	<0.01	-0.6	21.23	<0.01	-0.54	15.42	<0.01	-0.56	17.24	0.04	-0.32	4.14	0.03	-0.33	4.62	<0.01	-0.63	24.78	0.66
Volume																			
12.08	<0.01	-0.5	12.94	<0.01	-0.46	10.08	<0.01	-0.54	15.27	0.03	-0.33	4.63	0.02	-0.37	5.9	<0.01	-0.49	11.66	0.430
17.5	<0.01	-0.53	15.81	<0.01	-0.51	14.84	<0.01	-0.53	16.29	0.07	-0.27	3.32	0.02	-0.35	5.5	<0.01	-0.5	14.04	0.03
18.72	<0.01	-0.48	11.79	<0.01	-0.46	10.34	<0.01	-0.48	11.77	0.59	-0.25	2.52	0.03	-0.34	4.97	<0.01	-0.49	12.14	0.08
12.22	<0.01	-0.52	14.2	<0.01	-0.43	8.53	<0.01	-0.5	12.46	0.06	-0.3	3.64	0.03	-0.34	4.98	<0.01	-0.47	10.86	0.33
21.09	<0.01	-0.56	18.87	<0.01	-0.53	15.57	<0.01	-0.52	14.96	0.13	-0.23	2.32	0.04	-0.32	4.42	<0.01	-0.49	12.92	0.01
16.23	<0.01	-0.48	11.71	<0.01	-0.43	8.89	<0.01	-0.44	9.55	0.16	-0.22	2.04	0.02	-0.35	5.6	<0.01	-0.45	10.18	0.06
17.99	<0.01	-0.53	15.23	<0.01	-0.48	11.95	<0.01	-0.51	14.14	0.08	-0.27	3.14	0.02	-0.36	5.69	<0.01	-0.5	13.01	0.19
Manual midsagittal																			
25.67	<0.01	-0.55	16	<0.01	-0.55	15.69	<0.01	-0.56	16.81	0.06	-0.3	3.7	0.12	-0.25	2.52	<0.01	-0.62	23.72	0.60
21.07	<0.01	-0.51	13.36	<0.01	-0.54	15.54	<0.01	-0.55	16.33	0.12	-0.25	2.42	0.10	-0.27	2.84	<0.01	-0.48	11.39	0.13
Automated midsagittal																			
28.59	<0.01	-0.52	14.02	<0.01	-0.45	9.15	<0.01	-0.58	18.64	0.04	-0.33	4.51	0.04	-0.33	4.42	<0.01	-0.56	16.53	0.45
7.17	<0.01	-0.39	7.6	<0.01	-0.39	7.49	<0.01	-0.43	9.2	0.27	-0.17	1.25	0.16	-0.22	2.04	0.01	-0.39	7.23	0.15

SUPPLEMENTARY TABLE 3.
Nonsignificant Correlations

Automated Whole CC	Hearing			Cataplexy			Behavior			Psych			ABR			Age at First Symptoms			Duration of Neuro Symptoms			Miglustat Therapy	
	P	r	F	P	r	F	P	r	F	P	r	F	P	r	F	P	r	F	P	r	F	P	
FA																							
L genu	0.32	0.16	0.98	0.09	-0.27	2.99	0.86	0.02	0.03	0.29	-0.17	1.13	0.97	0.005	0.0009	0.3	0.18	1.09	0.3	-0.18	1.08	0.57	
L body	0.6	0.08	0.27	0.14	-0.23	2.17	0.88	0.02	0.02	0.42	-0.13	0.65	0.69	-0.06	0.15	0.27	0.19	1.23	0.27	-0.19	1.21	0.92	
L splenium	0.62	0.08	0.24	0.5	-0.11	0.45	0.7	0.06	0.14	0.2	-0.2	1.65	0.95	0.01	0.003	0.11	0.28	2.69	0.11	-0.28	2.7	0.37	
R genu	0.63	0.07	0.22	0.23	-0.19	1.47	0.78	0.04	0.07	0.25	-0.19	1.35	0.52	0.1	0.41	0.33	0.17	0.97	0.33	-0.17	0.97	0.98	
R body	0.7	0.06	0.14	0.09	-0.27	2.87	0.83	0.03	0.04	0.32	-0.16	0.98	0.84	-0.03	0.04	0.21	0.22	1.63	0.21	-0.22	1.6	0.91	
R splenium	0.5	0.11	0.45	0.3	-0.16	1.06	0.58	0.09	0.3	0.31	-0.16	1.01	0.94	0.01	0.004	0.13	0.26	2.31	0.13	-0.26	2.3	0.54	
TOTAL	0.53	0.1	0.39	0.16	-0.23	2.04	0.77	0.04	0.08	0.27	-0.18	1.24	0.95	0.009	0.003	0.2	0.22	1.65	0.21	-0.22	1.63	0.67	
Volume																							
L genu	0.17	0.22	1.88	0.43	-0.13	0.63	0.54	0.1	0.37	0.31	-0.16	1.05	0.69	0.06	0.15	0.85	0.03	0.03	0.85	-0.03	0.03	1.00	
L body	0.68	0.06	0.16	0.2	-0.2	1.69	0.56	0.06	0.34	0.27	-0.17	1.2	0.89	-0.02	0.01	0.54	0.1	0.37	0.55	-0.1	0.35	0.55	
L splenium	0.47	0.11	0.53	0.46	-0.11	0.54	0.3	0.16	1.06	0.28	-0.17	1.15	0.47	0.11	0.52	0.25	0.2	1.33	0.25	-0.2	1.32	0.84	
R genu	0.37	0.14	0.82	0.33	-0.15	0.94	0.69	0.06	0.15	0.28	-0.17	1.18	0.36	0.14	0.83	0.58	0.09	0.3	0.59	-0.09	0.29	0.83	
R body	0.8	-0.03	0.05	0.24	-0.18	1.37	0.57	0.09	0.31	0.3	-0.16	1.07	0.89	-0.02	0.01	0.35	0.16	0.88	0.36	-0.16	0.85	0.61	
R splenium	0.43	0.12	0.61	0.53	-0.1	0.4	0.28	0.17	1.19	0.34	-0.15	0.92	0.45	0.12	0.55	0.31	0.17	1.04	0.31	-0.17	1.03	0.80	
TOTAL	0.49	0.11	0.48	0.35	-0.15	0.87	0.43	0.12	0.61	0.28	-0.17	1.17	0.62	0.07	0.23	0.42	0.14	0.65	0.42	-0.14	0.64	0.89	
Manual midsagittal																							
FA midsagittal	0.36	0.15	0.83	0.19	-0.21	1.74	0.65	0.07	0.2	0.29	-0.17	1.13	0.75	-0.05	0.09	0.24	0.21	1.38	0.24	-0.2	1.37	0.91	
Area midsagittal	0.98	-0.01	0.0005	0.34	-0.15	0.89	0.79	0.04	0.06	0.25	-0.18	1.33	0.83	-0.03	0.04	0.16	0.25	2.02	0.16	-0.24	1.98	0.81	
Automated midsagittal																							
FA midsagittal	0.86	-0.02	0.02	0.08	-0.28	3.18	0.83	0.03	0.04	0.34	-0.15	0.91	0.61	0.08	0.25	0.22	0.22	1.55	0.22	-0.21	1.52	0.78	
Area midsagittal	0.28	0.16	1.15	0.66	-0.06	0.19	0.44	0.12	0.59	0.26	-0.17	1.27	0.7	0.06	0.14	0.76	0.05	0.08	0.77	-0.05	0.08	0.84	

Abbreviations:

ABR = Auditory brainstem response

L = Left

R = Right

CC = Corpus callosum

FA = Fractional anisotropy

Area mentioned here refers to the cross-sectional area.

Miglustat therapy analyses do not have *r* and *F* values because of Mann-Whitney test used.