

		Pearson's R							P-value							FDR adjusted P-threshold
		Synapsin	Gephyrin	PSD95	UBE3A	Synaptophysin	GluA2	MBP	Synapsin	Gephyrin	PSD95	UBE3A	Synaptophysin	GluA2	MBP	(q = 0.10)
Normal	Synapsin	1.0000	0.6649	0.7753	0.8931	0.0303	0.4090	0.0536		0.1496	0.0700	0.0165	0.9545	0.4207	0.9196	0.0190
	Gephyrin	0.6649	1.0000	0.9268	0.9192	0.4807	0.6020	0.5357	0.1496		0.0078	0.0095	0.3345	0.2061	0.2733	
	PSD95	0.7753	0.9268	1.0000	0.9585	0.4323	0.3867	0.4008	0.0700	0.0078		0.0025	0.3919	0.4488	0.4310	
	UBE3A	0.8931	0.9192	0.9585	1.0000	0.2655	0.5257	0.3909	0.0165	0.0095	0.0025		0.6112	0.2841	0.4435	
	Synaptophysin	0.0303	0.4807	0.4323	0.2655	1.0000	-0.1690	-0.0273	0.9545	0.3345	0.3919	0.6112		0.7490	0.9591	
	GluA2	0.4090	0.6020	0.3867	0.5257	-0.1690	1.0000	0.4166	0.4207	0.2061	0.4488	0.2841	0.7490		0.4113	
	MBP	0.0536	0.5357	0.4008	0.3909	-0.0273	0.4166	1.0000	0.9196	0.2733	0.4310	0.4435	0.9591	0.4113		
FLX	Synapsin	1.0000	0.2227	0.2123	0.4170	0.5481	-0.7729	-0.0789		0.5960	0.5960	0.6138	0.3041	0.1596	0.0245	0.8526
	Gephyrin	0.2227	1.0000	0.9257	0.8068	-0.0677	-0.6222	0.5033	0.5960		0.0010	0.0155	0.8734	0.0995	0.2035	
	PSD95	0.2123	0.9257	1.0000	0.8636	-0.2587	-0.6408	0.3402	0.6138	0.0010		0.0057	0.5362	0.0869	0.4096	
	UBE3A	0.4170	0.8068	0.8636	1.0000	0.0461	-0.5498	0.2244	0.3041	0.0155	0.0057		0.9136	0.1580	0.5932	
	Synaptophysin	0.5481	-0.0677	-0.2587	0.0461	1.0000	-0.2252	0.3865	0.1596	0.8734	0.5362	0.9136		0.5918	0.3443	
	GluA2	-0.7729	-0.6222	-0.6408	-0.5498	-0.2252	1.0000	-0.2324	0.0245	0.0995	0.0869	0.1580	0.5918		0.5797	
	MBP	-0.0789	0.5033	0.3402	0.2244	0.3865	-0.2324	1.0000	0.8526	0.2035	0.4096	0.5932	0.3443	0.5797		
MD IPSI	Synapsin	1.0000	0.8270	0.7657	0.9119	0.9611	-0.1982	0.5735		0.0423	0.0759	0.0113	0.0022	0.7066	0.2340	
	Gephyrin	0.8270	1.0000	0.8921	0.9351	0.6544	0.3060	0.5306	0.0423		0.0168	0.0062	0.1585	0.5553	0.2788	
	PSD95	0.7657	0.8921	1.0000	0.9015	0.6388	0.4124	0.1531	0.0759	0.0168		0.0141	0.1722	0.4165	0.7722	
	UBE3A	0.9119	0.9351	0.9015	1.0000	0.7782	0.2074	0.5369	0.0113	0.0062	0.0141		0.0683	0.6934	0.2721	
	Synaptophysin	0.9611	0.6544	0.6388	0.7782	1.0000	-0.4126	0.4596	0.0022	0.1585	0.1722	0.0683		0.4162	0.3591	
	GluA2	-0.1982	0.3060	0.4124	0.2074	-0.4126	1.0000	-0.2293	0.7066	0.5553	0.4165	0.6934	0.4162		0.6620	
	MBP	0.5735	0.5306	0.1531	0.5369	0.4596	-0.2293	1.0000	0.2340	0.2788	0.7722	0.2721	0.3591	0.6620		
MD CON	Synapsin	1.0000	0.6040	0.6022	0.8131	0.2276	0.3930	0.7521		0.2042	0.2042	0.2059	0.0491	0.6645	0.0846	
	Gephyrin	0.6040	1.0000	0.9662	0.7053	0.5108	0.7493	0.8168	0.2042		0.0017	0.1175	0.3004	0.0864	0.0473	
	PSD95	0.6022	0.9662	1.0000	0.5621	0.6896	0.8299	0.8552	0.2059	0.0017		0.2456	0.1296	0.0409	0.0299	
	UBE3A	0.8131	0.7053	0.5621	1.0000	-0.1050	0.2491	0.6184	0.0491	0.1175	0.2456		0.8431	0.6341	0.1907	
	Synaptophysin	0.2276	0.5108	0.6896	-0.1050	1.0000	0.7151	0.6627	0.6645	0.3004	0.1296	0.8431		0.1102	0.1515	
	GluA2	0.3930	0.7493	0.8299	0.2491	0.7151	1.0000	0.5268	0.4409	0.0864	0.0409	0.6341	0.1102		0.2829	
	MBP	0.7521	0.8168	0.8552	0.6184	0.6627	0.5268	1.0000	0.0846	0.0473	0.0299	0.1907	0.1515	0.2829		
FLX MD IPSI	Synapsin	1.0000	0.1563	-0.1698	-0.1266	-0.3116	-0.0409	-0.0128		0.7117	0.7117	0.6876	0.7652	0.4525	0.9760	
	Gephyrin	0.1563	1.0000	0.8097	0.3895	0.3005	0.1642	0.1596	0.7117		0.0149	0.3402	0.4696	0.6977	0.7058	
	PSD95	-0.1698	0.8097	1.0000	0.2245	0.5416	0.3970	0.5560	0.6876	0.0149		0.5930	0.1656	0.3302	0.1524	
	UBE3A	-0.1266	0.3895	0.2245	1.0000	0.7149	-0.2191	-0.1147	0.7652	0.3402	0.5930		0.0463	0.6022	0.7869	
	Synaptophysin	-0.3116	0.3005	0.5416	0.7149	1.0000	-0.1070	0.3571	0.4525	0.4696	0.1656	0.0463		0.8010	0.3852	
	GluA2	-0.0409	0.1642	0.3970	-0.2191	-0.1070	1.0000	0.5548	0.9235	0.6977	0.3302	0.6022	0.8010		0.1535	
	MBP	-0.0128	0.1596	0.5560	-0.1147	0.3571	0.5548	1.0000	0.9760	0.7058	0.1524	0.7869	0.3852	0.1535		
FLX MD CON	Synapsin	1.0000	0.5401	0.4506	0.4483	0.2184	-0.0823	0.1759		0.1670	0.2625	0.2652	0.6033	0.8464	0.6769	
	Gephyrin	0.5401	1.0000	0.9892	0.9889	0.8194	-0.1984	0.3298	0.1670		0.0000	0.0000	0.0128	0.6377	0.4250	
	PSD95	0.4506	0.9892	1.0000	0.9906	0.8335	-0.1601	0.3816	0.2625	0.0000		0.0000	0.0101	0.7050	0.3509	
	UBE3A	0.4483	0.9889	0.9906	1.0000	0.8454	-0.1687	0.3343	0.2652	0.0000	0.0000		0.0082	0.6896	0.4183	
	Synaptophysin	0.2184	0.8194	0.8335	0.8454	1.0000	-0.3026	0.3148	0.6033	0.0128	0.0101	0.0082		0.4664	0.4477	
	GluA2	-0.0823	-0.1984	-0.1601	-0.1687	-0.3026	1.0000	-0.0179	0.8464	0.6377	0.7050	0.6896	0.4664		0.9665	
	MBP	0.1759	0.3298	0.3816	0.3343	0.3148	-0.0179	1.0000	0.6769	0.4250	0.3509	0.4183	0.4477	0.9665		

Supplementary Datasheet S2. A Table of Pearson's R values corresponding to the correlation matrices presented in Figure 4. The correlations between pairs of proteins for each of the treatment conditions presented in Figure 4. The corresponding p-values for the correlations are shown, and p-values below the False Discovery Rate (q = 0.10) are coloured red.