

Supplementary table 2: Identified and significantly altered metabolites between ischemic (PI) and contralateral (CL) side brain samples (arranged based on p-value)

Compound	Control CL		Control PI		HX600 CL		HX600 PI		Control CL vs Control PI		HX600 PI vs Control PI	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	p-value	Cohen's d	p-value	Cohen's d
N-acetylaspartate	14278726	609629	11237016	667075	13348316	1367266	12124516	893748	0.00002	-4.76	0.10552	1.14
Adenosine 5'-monophosphate (AMP)	4798288	367662	3306735	282481	4608484	227732	3614380	638265	0.00003	-4.59	0.34759	0.67
5-hydroxyindoleacetic acid (5-HIAA)	61459	7390	94763	8981	59278	6547	85221	21547	0.00008	4.07	0.38221	-0.63
Ethanolamine phosphate	564902	18791	436903	45574	512200	39375	447333	52680	0.00017	-3.98	0.74469	0.21
Acylcarnitine 22:6	10236	2031	321082	121339	10151	2715	218363	119333	0.00019	5.04	0.20690	-0.85
Adenosine	7903693	450127	6349527	412867	6772215	607548	5799205	1118279	0.00020	-3.60	0.32625	-0.72
LysoPC 22:6	2052559	645084	4675535	925141	1842462	609804	3669387	985099	0.00040	3.34	0.12693	-1.05
Guanosine 5'-monophosphate	230310	18418	170666	18465	214975	10137	172428	25706	0.00045	-3.23	0.90339	0.08
Adenine	1469775	158028	1029084	129650	1293169	193498	987959	296703	0.00070	-3.06	0.78220	-0.19
LysoPC 20:4	1596678	376136	2779420	446648	1489946	322241	2569271	595159	0.00109	2.87	0.54188	-0.40
Acylcarnitine 6:0	115448	18751	154701	5642	105087	35482	121653	42426	0.00117	3.22	0.11495	-1.38
LysoPC 16:1	77782	15412	138040	26975	74938	18970	104412	18007	0.00147	2.84	0.04288	-1.50
Threonine	134477	95534	421593	113518	65367	40796	356599	201957	0.00150	2.75	0.54452	-0.41
Lyso PC 14:0	79215	17893	141595	27678	74464	12680	97993	15600	0.00174	2.74	0.01187	-2.01
LysoPC 18:1	8826249	2248645	17080658	3782499	8951671	2264456	12289569	1869302	0.00184	2.74	0.02941	-1.70
Acylcarnitine 18:2	215236	75950	592979	193337	209159	55782	356055	120443	0.00226	2.81	0.04235	-1.51
5-Aminosalicylic acid	1018226	18273	979249	12005	1038030	9303	979210	26293	0.00258	-2.57	0.99764	0.00
Oxidized glutathione	670270	137680	358673	109736	543678	148433	481387	66296	0.00270	-2.52	0.05801	1.39
Acylcarnitine 4:0	1161278	210482	1744276	253817	1051130	237121	1323595	358567	0.00271	2.51	0.05791	-1.37
Citrulline	516477	67054	723645	105366	470320	61603	675246	167336	0.00405	2.40	0.59619	-0.35
Acylcarnitine 10:0	52686	11709	79248	10981	46900	6835	55746	9386	0.00411	2.34	0.00455	-2.31
Phosphocholine	16269720	1781938	12973953	976629	14913441	2178677	13823097	3115578	0.00464	-2.39	0.57376	0.42
LysoPC 22:4	106399	22459	248475	87042	101331	33619	182283	61989	0.00541	2.59	0.19614	-0.89
LysoPC 16:0	15731716	4197768	31050741	8750763	17147177	5272621	19225068	4371327	0.00545	2.37	0.02219	-1.80
LysoPE 22:5	63367	13202	135674	44018	60674	25320	98549	22129	0.00555	2.53	0.12290	-1.12
Acylcarnitine 18:0	175660	101001	863831	427921	193372	49950	362041	96166	0.00573	2.60	0.02846	-1.91
Glutathione	6570689	463001	5797864	182475	6529833	395716	5589184	897754	0.00600	-2.39	0.62156	-0.39
Trigonelline	215336	32544	444938	145624	192033	48063	461032	189226	0.00632	2.58	0.88320	0.10
Acylcarnitine 18:3	60814	19192	103784	20749	46739	11456	70671	17580	0.00678	2.15	0.02146	-1.73
Palmitoylethanolamide (PEA)	114139	38123	6518554	4350473	89289	31979	2945785	2466617	0.00813	2.92	0.14125	-1.05
LysoPC 18:2	393517	95779	579232	84497	375880	69650	484925	60479	0.00870	2.06	0.06988	-1.30
Acetylcarnitine	26658686	2359056	31158289	2014859	25977798	3885495	29372344	3999121	0.00882	2.06	0.39345	-0.59
5'-Methylthioadenosine	1387051	132676	1602449	71918	1457997	113940	1457895	267270	0.00963	2.11	0.26996	-0.85
N-oleoylethanolamine (OEA)	137818	43519	2904144	1937988	122338	35215	1632989	1022278	0.00964	2.79	0.22367	-0.86
4-(diaminomethylideneamino)butanoic acid	214722	24396	250945	7158	219256	27155	233241	44231	0.00972	2.30	0.39770	-0.69
Glycine betaine	3834837	959071	6846618	1939411	2913380	1184349	7507410	2526164	0.01101	2.08	0.65262	0.30
L-a-Lysophosphatidylserine	159107	31139	299349	97782	162845	43825	195455	73206	0.01213	2.18	0.08635	-1.22
LysoPE 22:6	2284058	516505	3832939	1011993	2081926	905968	3493359	1142687	0.01229	2.03	0.62962	-0.32
Acylcarnitine 16:3	111087	27274	184999	46879	102676	12869	107380	19549	0.01231	1.99	0.00658	-2.34
Taurine	3368610	166828	2959221	261311	3155695	188409	2952059	319384	0.01447	-1.91	0.96981	-0.02
Aspartic acid	1130281	89701	967719	85576	1022514	68690	947966	70645	0.01499	-1.85	0.69897	-0.25
Docosahexaenoic acid (DHA)	4661129	834761	9092925	3432787	4266118	978065	8943819	3154369	0.01863	2.08	0.94440	-0.05
Glutamate	16374399	588848	15240980	704693	16218731	574918	15343940	1128295	0.02014	-1.75	0.86605	0.11
acylcarnitine 16:0	1687587	815916	3510659	1238967	1786085	483474	1903706	541180	0.02055	1.77	0.02399	-1.81

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	Mean	SD	Mean	SD	Mean	SD	Mean	SD	p-value	Cohen's d	p-value	Cohen's d
Adenosine 5'-diphosphoribose	43851	9785	58312	6603	40917	9175	36112	4631	0.02085	1.76	0.00011	-3.95
Acylcarnitine 18:1	1570946	687131	2924529	866657	1521428	315268	1902479	397090	0.02095	1.74	0.03749	-1.62
N-acetylgarginine	73469	10283	90312	9254	71470	5605	95357	23281	0.02147	1.72	0.66208	0.31
Acylcarnitine 20:1	47106	28798	119533	52578	49715	16057	65826	16594	0.02225	1.78	0.05441	-1.55
LysoPE 18:1	368566	91732	580337	158613	369377	126299	414086	95970	0.02721	1.69	0.07275	-1.31
Guanosine	269882	48082	206342	26710	208725	21573	178587	39441	0.02727	-1.70	0.22182	-0.84
N-Acetylneuraminate	533745	67721	436465	52724	477058	73630	479626	37216	0.02964	-1.62	0.16567	0.96
Docosatetraenoic acid	366711	101436	913068	486881	352253	129943	846930	385818	0.03388	1.86	0.81664	-0.15
LysoPC 18:0	3240252	1210122	7260571	3480025	4265381	1697418	3574995	1301207	0.03485	1.71	0.05085	-1.54
PE 38:6	1323219	832676	381160	272432	785191	885796	606912	462129	0.03704	-1.70	0.36888	0.61
Plasmenyl-PC 37:1; PC(P-15:0/22:1)	2689888	1715810	808182	595876	1720055	2080563	1278705	1051368	0.04303	-1.63	0.40438	0.57
PE 36:4; PE(18:2/18:2)	377086	241426	114972	78978	236444	268816	186039	143527	0.04370	-1.64	0.35491	0.64
Plasmenyl-PE 38:6; PE(P-16:0/22:6)	1538909	1078756	379243	347532	917401	1247135	681264	564171	0.04517	-1.63	0.33213	0.66
LysoPE 16:0	289211	60645	393143	81587	277278	69950	285116	85788	0.04531	1.46	0.06861	-1.29
LysoPE 22:4	177250	37922	277695	91545	189557	106468	206406	60068	0.04684	1.55	0.17610	-0.94
Plasmenyl-PE 36:4; PE(P-16:0/20:4)	6817481	4922640	1469820	1951149	4682403	8449282	3242407	3254121	0.04751	-1.56	0.32078	0.68
Plasmenyl-PC 39:3; PC(P-17:0/22:3)	2151035	1393612	674757	460045	1531762	1749750	933998	800356	0.04824	-1.59	0.54412	0.41

Values from mode with largest abundance is shown. Legend: CL, contra lateral side; PI, ischemic side; p-value, p-value from Student's t-test; Cohen's d, Cohen's d effect size.