

Supplementary Table 1.

Log2(fold change) and Log10(p value) values of the ratios AD_Lesional/Normal Controls and AD_Non-Lesional/Normal Controls for each lipid species represented in Figure 2

Lipid Species	AD Lesonal versus Healthy Controls		AD Non-Lisonal versus Healthy Controls	
	Log2(Fold Change)	Log10(p value)	Log2(Fold Change)	Log10(p value)
14:0-LPC	2.445	6.348	0.876	1.493
16:0-LPC	2.322	8.100	0.845	1.406
18:0-LPC	2.494	7.015	0.728	1.445
18:1-LPC	2.643	6.830	0.559	0.958
18:2-LPC	1.578	5.088	-0.361	0.248
18:3-LPC	0.100	1.381	-1.547	0.409
20:0-LPC	0.938	0.781	0.289	0.577
20:1-LPC	3.717	9.777	2.174	1.627
20:2-LPC	5.266	1.591	1.357	0.414
20:4-LPC	4.804	5.784	1.513	2.932
22:0-LPC	-1.003	5.312	-0.050	0.145
24:0-LPC	-1.354	9.298	-0.188	1.404
26:0-LPC	-1.505	9.517	-0.285	2.508
28:0-LPC	-1.220	6.152	0.127	0.649
30:0-LPC	-1.130	4.371	0.285	1.346
16:0-SM	0.924	4.947	0.242	0.336
17:0-SM	-2.123	0.679	-1.049	0.156
18:0-SM	-0.057	0.365	-0.049	0.405
20:0-SM	-2.072	4.870	-0.861	1.787
22:0-SM	-2.296	6.725	-0.724	2.800
24:1-SM	0.944	2.961	0.733	2.757
24:0-SM	-0.158	0.261	0.133	0.820
26:1-SM	-1.729	0.012	-1.362	0.383
26:0-SM	-0.626	1.666	-0.110	0.306
28:0-SM	-1.246	1.380	-0.411	0.677
DH-16:0-SM	-0.606	0.588	0.309	0.230
DH-17:0-SM	3.869	0.742	0.852	0.280
DH-18:0-SM	3.688	0.730	1.791	1.361
DH-20:0-SM	1.537	0.462	0.850	0.393
DH-22:0-SM	-1.641	1.445	0.005	0.052
DH-24:1-SM	-1.186	0.106	0.462	0.902
DH-24:0-SM	-2.252	2.160	-0.569	0.743
DH-26:0-SM	-2.291	1.796	-0.526	0.662
16:0-OH-SM	-0.970	0.712	-0.721	0.788
14:0-NS-CER	1.129	3.037	0.387	0.779
16:0-NS-CER	0.920	2.179	0.391	0.661
18:1-NS-CER	-0.275	0.443	-0.296	0.731
18:0-NS-CER	0.668	5.256	0.122	0.466
20:0-NS-CER	1.027	4.380	0.396	2.031

Lipid Species	AD Lesonal versus Healthy Controls		AD Non-Lisonal versus Healthy Controls	
	Log2(Fold Change)	Log10(p value)	Log2(Fold Change)	Log10(p value)
22:1-NS-CER	1.574	3.129	0.462	0.568
22:0-NS-CER	0.609	3.681	0.202	1.126
24:1-NS-CER	-0.120	0.155	-0.375	0.667
24:0-NS-CER	-0.120	0.738	0.074	0.554
26:1-NS-CER	-0.762	1.600	-0.411	0.964
26:0-NS-CER	-0.429	2.635	-0.043	0.123
28:1-NS-CER	0.549	3.354	0.394	1.996
28:0-NS-CER	-0.343	0.607	-0.448	1.316
30:1-NS-CER	2.987	3.429	1.598	1.998
30:0-NS-CER	-0.676	0.438	-1.329	1.290
32:1-NS-CER	3.995	3.089	2.131	1.542
32:0-NS-CER	-1.420	0.931	-1.853	1.822
16:0-NDS-CER	0.698	1.393	-0.170	0.300
18:1-NDS-CER	-0.246	8.986	-1.136	1.659
18:0-NDS-CER	0.291	0.294	-0.166	0.351
20:0-NDS-CER	0.599	2.615	0.215	0.822
22:0-NDS-CER	-0.296	2.193	-0.064	0.397
24:1-NDS-CER	1.625	3.090	0.625	1.042
24:0-NDS-CER	-0.516	6.378	-0.176	2.314
26:1-NDS-CER	1.099	0.702	0.661	0.545
26:0-NDS-CER	0.298	0.506	0.564	1.258
28:1-NDS-CER				
28:0-NDS-CER	2.167	3.397	1.424	1.451
30:1-NDS-CER	-0.257	0.007	-0.914	0.337
30:0-NDS-CER	3.791	4.189	3.113	2.187
14:0-AS-CER	3.032	4.258	0.956	1.230
16:0-AS-CER	0.646	3.150	0.244	0.932
18:0-AS-CER	-0.322	0.413	-0.541	1.094
20:0-AS-CER	0.612	1.832	0.062	0.098
22:0-AS-CER	0.475	1.373	0.042	0.046
24:1-AS-CER	0.688	0.288	-0.116	0.279
24:0-AS-CER	-0.176	1.044	-0.013	0.218
26:1-AS-CER	-0.510	0.550	0.299	0.215
26:0-AS-CER	-0.443	2.690	-0.040	0.233
28:1-AS-CER	-1.385	1.658	0.276	0.190
28:0-AS-CER	-1.376	6.700	-0.463	2.298
C20-14:0-NS-CER	0.360	0.765	0.783	2.505
C20-16:0-NS-CER	0.111	0.153	0.239	0.520
C20-18:1-NS-CER	0.368	1.097	0.613	2.229
C20-18:0-NS-CER	1.110	2.678	0.572	1.964
C20-20:0-NS-CER	0.641	1.955	0.385	1.307
C20-22:0-NS-CER	0.176	0.453	0.291	0.792
C20-24:1-NS-CER	-0.007	0.003	-0.033	0.068
C20-24:0-NS-CER	0.181	1.437	0.213	1.444

Lipid Species	AD Lesonal versus Healthy Controls		AD Non-Lisonal versus Healthy Controls	
	Log2(Fold Change)	Log10(p value)	Log2(Fold Change)	Log10(p value)
C20-26:1-NS-CER	-0.400	2.311	-0.506	2.748
C20-26:0-NS-CER	0.109	1.860	-0.028	0.320
C20-28:1-NS-CER	1.315	2.831	1.052	2.604
C20-28:0-NS-CER	-0.402	2.955	-0.227	1.892
C20-30:1-NS-CER	2.716	2.522	2.279	4.427
C20-30:0-NS-CER	-0.924	3.449	-0.444	1.891
C20-32:1-NS-CER	3.701	1.828	2.851	3.522
C20-32:0-NS-CER	-1.587	3.354	-0.773	1.708
C20-14:0-AS-CER			-0.010	0.042
C20-16:0-AS-CER	-0.656	1.517	0.766	3.501
C20-18:0-AS-CER	0.713	3.029	3.932	5.990
C20-20:0-AS-CER	4.506	4.321	0.195	0.291
C20-22:0-AS-CER	0.740	1.355	0.116	0.635
C20-24:0-AS-CER	0.433	2.070	-0.235	1.466
C20-26:0-AS-CER	0.190	0.512	-0.580	1.927
C20-28:0-AS-CER	-0.511	1.966		
C22-14:0-NS-CER	0.964	1.740	0.158	0.407
C22-16:0-NS-CER	1.439	3.477	0.820	2.963
C22-18:1-NS-CER	0.877	1.674	0.850	2.765
C22-18:0-NS-CER	1.564	2.730	0.852	3.120
C22-20:0-NS-CER	0.836	2.278	0.477	1.075
C22-22:0-NS-CER	0.844	2.379	0.499	1.622
C22-24:1-NS-CER	0.268	0.554	-0.110	0.237
C22-24:0-NS-CER	0.539	3.373	0.209	1.413
C22-26:1-NS-CER	-0.500	3.266	-0.633	3.592
C22-26:0-NS-CER	-0.104	0.670	-0.100	0.977
C22-28:0-NS-CER	-0.425	2.545	-0.106	1.307
C22-30:0-NS-CER	-0.921	3.054	-0.163	0.747
C22-32:0-NS-CER	-1.457	3.065	-0.441	0.848
C22-14:0-AS-CER	0.419	0.467	0.771	2.231
C22-16:0-AS-CER	0.609	1.701	1.035	5.855
C22-18:0-AS-CER	0.684	2.311	0.829	4.105
C22-20:0-AS-CER	3.622	6.341	3.417	5.674
C22-22:0-AS-CER	0.920	2.707	0.540	1.049
C22-24:0-AS-CER	0.103	0.492	-0.073	0.946
C22-26:0-AS-CER	-0.312	4.115	-0.294	4.688
C22-28:0-AS-CER	-0.525	1.772	-0.322	0.935
14:0-NP-CER	6.652	1.736	4.422	0.681
16:0-NP-CER	2.658	2.198	1.484	2.814
18:0-NP-CER	0.756	0.849	0.504	0.501
20:0-NP-CER	6.130	2.289	4.373	2.361
22:0-NP-CER	2.270	2.404	1.100	1.687
24:0-NP-CER	-0.201	1.293	-0.052	0.422

Lipid Species	AD Lesonal versus Healthy Controls		AD Non-Lisonal versus Healthy Controls	
	Log2(Fold Change)	Log10(p value)	Log2(Fold Change)	Log10(p value)
26:0-NP-CER	-0.442	1.433	-0.089	0.174
28:0-NP-CER	-0.494	1.726	-0.257	0.796
30:0-NP-CER	-0.733	1.680	-0.460	0.948
16:0-AP-CER	1.630	10.136	1.035	4.376
18:0-AP-CER	0.899	3.547	-0.361	0.411
20:0-AP-CER	0.270	0.402	1.273	2.789
22:0-AP-CER	1.387	3.479	-0.140	4.928
24:0-AP-CER	-0.203	5.487	-0.587	3.239
26:0-AP-CER	-0.809	5.836	-1.454	2.320
28:0-AP-CER	-0.981	1.716		
EO30S18	0.287	1.434	-0.181	0.524
EO32S18	1.057	1.580	-0.185	0.758
EO30S20	-0.249	0.939	-0.010	0.052
EO32S20	-0.135	1.175	-0.121	0.594
EO30S22	-0.467	1.203	0.400	2.167
EO32S22	-0.445	1.274	0.203	0.297