List of assigned statistically significant lipids after comparison of the CUMS group with the control group

Lipidation	RT	CalcMz	VIP	P	Fold change
Cer(d15:0/28:1)	10.98	662.65	1.24	1.69E-06	5.74
Cer(d18:1/14:0)	7.47	508.47	1.14	2.12E-04	5.14
Cer(d18:1/18:2)	5.61	562.52	1.11	2.54E-03	5.22
Cer(d18:1/24:2)	12.61	646.61	1.21	2.42E-03	6.25
Cer(d18:2/16:0)*	7.53	534.49	1.25	1.13E-06	7.64
Cer(d34:0	5.64	562.52	1.12	8.77E-03	5.97
CL(18:1/16:0/18:1/20:0)	8.63	1460.06	1.21	1.82E-05	6.54
CL(20:4/18:0/18:0/18:0)	8.57	1484.06	1.06	1.28E-03	5.67
DG(34:1e)	12.51	603.53	1.31	2.74E-04	6.40
DG(36:2p)	6.13	605.55	1.24	1.34E-03	22.86
FA(24:5)	3.62	357.28	1.14	2.35E-04	6.09
LPC(16:0)*	2.50	518.32	1.08	2.04E-03	5.60
LPC(16:0e)	2.46	504.34	1.07	1.48E-02	8.46
LPC(16:0p)	2.31	502.33	1.00	7.33E-03	12.68
LPC(18:0)*	4.43	546.35	1.20	1.08E-03	6.83
LPC(18:0p)	3.30	530.36	1.05	5.81E-03	8.88
LPC(18:1p)	2.48	528.34	1.13	7.49E-03	8.79
LPC(18:2p)	2.48	504.34	1.10	9.62E-03	8.55
LPC(19:0)*	3.37	582.38	1.06	1.40E-03	6.51
LPC(19:1)	2.54	558.35	1.14	1.39E-03	5.63
LPC(19:3)	2.46	532.34	1.05	6.21E-03	5.88
LPC(20:3)	3.31	546.36	1.01	4.27E-03	7.05
LPC(21:3)	3.36	560.37	1.00	1.73E-02	10.69
LPC(21:4)	2.53	558.36	1.12	1.58E-03	5.33
LPC(22:1)*	4.02	622.41	1.11	5.14E-04	5.03
LPC(22:3)	2.51	596.37	1.10	7.10E-04	6.11
LPC(22:5)	1.55	614.35	1.06	1.23E-03	6.17
LPC(23:1)	4.58	636.42	1.08	8.39E-04	5.01
LPC(23:4)	3.48	586.39	1.15	4.94E-03	7.71
LPC(24:0)*	6.18	630.45	1.06	1.73E-02	6.15
LPC(24:6)*	2.52	596.37	1.19	7.42E-04	6.06
LPC(25:0)	6.74	666.47	1.04	1.89E-03	7.59
LPC(26:1)*	6.22	656.46	1.11	1.01E-02	8.54
LPC(26:3)	6.20	630.45	1.07	1.65E-02	5.97
LPC(28:1)	7.27	662.51	1.14	5.37E-03	7.13
LPC(28:4)	6.26	656.46	1.14	7.63E-03	7.77
LPE(17:0)*	2.50	466.29	1.03	2.14E-03	11.53
LPE(18:0)*	2.95	480.31	1.07	1.09E-03	5.30
LPE(18:0e)*	3.46	490.33	1.08	8.92E-03	5.09
LPE(18:0p)	3.33	488.31	1.11	1.88E-03	5.04
LPE(18:1p)*	2.52	462.30	1.15	1.33E-04	8.57
LPE(18:2)	1.62	476.28	1.05	1.53E-03	5.78
LPE(19:0)	3.47	494.33	1.03	2.47E-03	16.57
LPE(20:0)*	3.99	508.34	1.14	2.30E-04	6.63
LPE(20:0p)	4.44	516.34	1.12	5.56E-03	6.51
LPE(20:1p)	3.47	514.33	1.08	1.02E-02	10.65
LPE(20:5)	1.27	498.26	1.09	7.42E-04	5.67
LPE(22:0)	5.11	536.37	1.11	4.87E-04	7.05
LPE(24:1)*	5.17	562.39	1.08	9.40E-04	8.18
LPG(16:0)	1.62	483.27	1.12	3.22E-04	8.90
LPG(18:1)	1.74	509.29	1.16	1.20E-04	12.56
LPG(20:3)	1.27	557.28	1.02	3.88E-04	7.53
LPG(20:4)	1.36	531.27	1.19	3.47E-05	15.87
LPG(22:4)	1.65	559.30	1.11	5.08E-04	29.68
LPG(22:5)	1.53	557.29	1.21	1.69E-05	52.52
LPG(22:6)*	1.26	555.27	1.13	2.95E-04	13.90
LPI(16:0)	1.64	571.29	1.13	2.57E-04	17.03
LPI(18:0)*	2.30	599.32	1.13	2.54E-04	12.65
LPI(18:1)	1.73	597.30	1.13	2.65E-04	15.69
LPI(20:4)*	1.25	619.29	1.17	8.83E-05	11.22
LPS(18:1)	1.88	522.28	1.17	9.20E-05	12.80
LPS(22:4)	1.63	572.30	1.04	2.04E-03	19.15
LPS(22:6)	1.31	592.26	1.21	3.13E-06	8.47
MGMG(16:0)	2.18	537.33	1.15	1.58E-04	5.10
MGMG(18:1)	2.29	563.34	1.12	3.85E-04	6.70
OAHFA(42:4)	4.58	641.55	1.17	9.33E-05	13.31
OAHFA(42:8)	3.20	633.49	1.18	6.03E-05	49.02
OAHFA(46:10)	3.30	685.52	1.21	1.46E-05	9.93
PA(34:1)	16.13	697.48	1.19	8.13E-04	11.90
PA(34:2e)	17.04	657.49	1.21	1.31E-05	5.41
PA(36:1)	15.76	725.51	1.17	4.82E-06	5.48
PA(43:7)	8.02	787.53	1.11	4.78E-04	5.61
PC(16:0/20:3)*	7.14	784.59	1.25	4.93E-04	9.09
PC(16:0e/24:1)	11.09	874.69	1.07	1.00E-03	5.26
PC(21:0e)	4.48	588.40	1.08	1.49E-02	5.42
PC(21:1e)	3.49	586.38	1.14	5.35E-03	7.15
PC(23:0e)	5.65	616.43	1.04	2.15E-02	5.77
PC(23:0p)	4.54	614.42	1.01	2.86E-02	14.43
PC(23:2p)	4.46	588.40	1.07	1.60E-02	5.47
PC(25:0p)	5.68	620.46	1.00	3.07E-02	5.31
PC(25:1/18:1)	10.87	928.70	1.13	2.43E-04	5.09
PC(25:3e)	5.62	616.43	1.05	1.62E-02	6.08
PC(25:3p)	4.52	614.42	1.00	3.00E-02	15.13
PC(30:0)	6.85	706.54	1.08	9.67E-03	5.60
PC(32:0)	0.52	734.57	1.22	1.94E-03	5.50
PC(32:1p)	7.55	716.56	1.23	3.37E-04	6.35
PC(34:0)	8.03	762.60	1.22	2.20E-03	5.36
PC(34:1)	2.55	782.57	1.12	9.05E-03	5.48
PC(36:1)	0.52	788.62	1.26	9.77E-04	9.57
PC(38:5)	6.85	808.59	1.21	2.43E-03	6.08
PC(40:2e)	10.95	828.68	1.17	3.32E-03	6.49
PC(46:2)	11.69	926.76	1.13	5.63E-03	5.71
PE(14:0/22:6)	6.63	734.48	1.09	7.78E-04	5.91
PE(16:1/22:6)	6.68	760.49	1.18	6.21E-05	5.02
PE(18:0/20:5)	6.86	766.54	1.12	7.86E-04	7.99
PE(18:1/23:0)	10.64	814.63	1.18	5.04E-05	5.00
PE(18:1/23:1)	10.11	812.62	1.13	3.07E-04	5.16
PE(20:4/22:6)*	6.62	810.51	1.11	4.92E-04	5.11
PE(22:1/22:6)	8.41	844.59	1.10	5.34E-04	211.65
PE(25:0/18:1)	11.12	842.66	1.21	1.63E-05	5.21
PE(36:3)	7.15	742.54	1.18	3.39E-03	9.14
PE(37:0)	7.13	784.58	1.09	1.57E-03	9.79
PE(37:3)	8.05	754.54	1.25	1.30E-06	7.32
PE(39:4)	8.10	780.55	1.28	2.17E-08	6.26
PE(39:6)	7.73	778.54	1.01	3.25E-03	9.68
PE(41:8)	6.96	800.52	1.17	6.65E-05	11.17
PE(43:6)	6.90	856.58	1.02	3.00E-03	6.43
PE(44:10)*	6.51	838.54	1.00	3.67E-03	5.00
PG(16:0/16:1)	6.38	719.49	1.00	3.48E-03	5.64
PG(18:1/22:6)*	6.77	819.52	1.05	1.74E-03	12.18
PG(18:2/18:2)	5.75	769.50	1.12	3.51E-04	6.81
PG(18:2/20:4)	5.74	793.50	1.02	2.91E-03	5.75
PG(22:4/20:4)	6.26	845.53	1.14	1.98E-04	6.89
PG(22:4/22:5)	6.63	871.55	1.15	1.32E-04	6.97
PG(22:5/20:4)	5.97	843.52	1.09	6.97E-04	5.10
PG(22:5/22:5)	6.31	869.53	1.17	7.27E-05	6.04
PG(36:4p)	3.29	753.51	1.12	3.38E-04	9.08
phSM(d24:0)	2.04	581.43	1.20	3.10E-03	5.46
PI(14:0/20:4)	5.94	829.49	1.15	1.33E-04	7.26
PI(15:0/20:4)	6.40	843.50	1.09	6.83E-04	5.03
PI(16:0/20:3)	7.20	859.53	1.13	2.99E-04	5.74
PI(16:0/20:4)*	6.82	857.52	1.07	1.04E-03	5.39
PI(16:0e/20:4)	7.30	843.54	1.14	2.27E-04	5.64
PI(16:0p/20:4)	7.17	841.52	1.13	2.55E-04	5.85
PI(18:0p/20:4)	7.34	869.55	1.16	1.08E-04	5.98
PI(18:1/18:1)*	7.77	861.55	1.19	3.75E-05	5.08
PI(18:1p/20:4)	7.22	867.54	1.16	1.05E-04	6.51
PI(19:1/20:4)	7.31	897.55	1.16	1.24E-04	5.32
PI(20:4/20:4)*	5.98	905.52	1.13	2.52E-04	5.57
PI(20:4/22:6)*	5.70	929.52	1.06	1.39E-03	7.35
PI(22:4/20:4)	6.65	933.55	1.00	3.45E-03	5.78
PI(36:4e)	7.30	845.55	1.11	8.28E-05	7.66
PI(38:4p)	7.34	871.57	1.15	7.04E-04	6.94
PS(18:0/18:1)*	12.02	812.54	1.30	1.88E-04	7.83
PS(18:0/20:1)*	9.56	816.58	1.14	2.28E-04	6.67
PS(18:0/22:6)*	5.71	836.54	1.33	2.35E-05	6.96
PS(18:0/24:6)	8.16	862.56	1.04	1.93E-03	6.68
PS(18:0p/22:6)	7.95	818.53	1.07	1.17E-03	5.89
PS(18:1/18:1)*	8.01	786.53	1.11	4.39E-04	5.76
PS(18:1/20:4)	7.18	808.51	1.12	3.20E-04	6.23
PS(18:1/22:1)	9.66	842.59	1.00	3.65E-03	7.18
PS(18:1/24:0)	15.52	872.64	1.18	6.15E-05	6.45
PS(18:1/24:1)	10.45	870.62	1.15	1.40E-04	5.30
PS(20:1/22:6)	7.52	860.54	1.06	1.44E-03	15.99
PS(22:4/22:6)	6.68	882.53	1.04	1.83E-03	5.85
PS(22:5/22:6)*	6.83	880.51	1.10	5.61E-04	8.07
PS(24:5/18:0)	8.65	864.58	1.06	1.37E-03	5.36
PS(36:1)	6.69	790.56	1.41	1.93E-06	11.18
PS(36:2)	0.52	788.54	1.19	3.28E-03	5.45
PS(38:1)	16.83	840.57	1.26	8.77E-04	5.43
PS(38:2)	9.78	814.56	1.16	1.27E-04	5.69
PS(38:3)	15.84	836.54	1.22	2.95E-05	5.13
PS(38:4)	15.40	834.53	1.31	1.79E-04	7.03
PS(40:2)	18.29	844.61	1.22	2.20E-03	5.30
PS(40:4)*	0.81	840.57	1.08	1.45E-02	7.02
PS(40:6)	6.26	858.53	1.04	2.02E-02	5.23
PS(40:7p)	6.63	816.52	1.07	1.13E-03	11.67
PS(41:1)	10.89	860.64	1.19	3.47E-03	7.38
PS(42:2)	18.28	872.64	1.23	1.86E-03	5.40
SM(d18:1/16:1)	6.86	701.56	1.05	1.67E-02	10.76
SM(d33:1)	7.28	689.56	1.12	7.88E-03	6.91
SM(d43:1)	10.87	829.72	1.16	5.62E-03	6.02
SM(d43:2)	10.25	871.69	1.19	3.83E-05	6.45
SM(d48:3)	11.23	895.76	1.07	1.22E-02	0.13
So(d25:0)	5.63	400.41	1.15	5.47E-03	7.04
SQDG(38:5)	7.23	867.53	1.14	1.91E-04	6.46
SQDG(40:2)	2.08	947.61	1.00	3.57E-03	9.23
SQDG(42:3)	2.07	973.63	1.03	2.40E-03	6.79
SQDG(44:2)	2.92	1003.68	1.03	2.41E-03	9.76
SQDG(44:4)	2.09	999.64	1.05	1.54E-03	7.41
TG(18:3/18:2/18:2)	11.24	894.75	1.07	1.40E-02	0.12

Fold change = CUMS/Control, *Detected with statistical significance in both polarities.