**Table S3. Correlation of lipids with sex, age, PMI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | Parameters | | |
| Number | **Ionization MS mode** | **Lipid name** | **Sex** | **Age** | **PMI** |
| 1 | neg | CerP(d18:1/20:0) |  | YES (↓) |  |
|  |  |  |  |  |  |
| 2 | pos | DG(18:0\_19:0) |  | Yes (↓) |  |
| 3 | pos | DG(20:4\_24:4) |  |  | Yes (↓) |
| 4 | pos | DG(20:5\_18:1) |  | Yes (↑) |  |
| 5 | pos | DG(22:0\_25:0) |  |  | Yes (↓) |
| 6 | pos | DG(22:6\_18:0) |  | Yes (↑) |  |
|  |  |  |  |  |  |
| 7 | pos | lysoPE(22:4) |  |  | Yes (↓) |
|  |  |  |  |  |  |
| 8 | pos | PA(18:0\_17:0) |  | Yes (↑) |  |
| 9 | pos | PA(18:2\_18:0) |  |  | Yes (↑) |
| 10 | pos | PA(20:5\_20:1) |  |  | Yes (↓) |
| 11 | pos | PA(22:6\_14:0) |  | Yes (↓) |  |
| 12 | pos | PA(22:6\_22:2) |  |  | Yes (↓) |
|  |  |  |  |  |  |
| 13 | pos | PC(P-16:0\_17:0) |  | Yes (↑) |  |
|  |  |  |  |  |  |
| 14 | pos | PE(16:1\_18:0) |  |  | Yes (↓) |
| 15 | neg | PE(18:1\_20:2) |  | YES (↑) |  |
| 16 | pos | PE(18:2\_18:0) |  |  | Yes (↓) |
| 17 | neg | PE(18:2\_24:1) |  | YES (↓) |  |
| 18 | neg | PE(18:3\_21:0) | YES (\*) |  |  |
| 19 | pos | PE(20:1\_17:0) |  |  | Yes (↓) |
| 20 | neg | PE(20:5\_20:0) |  |  | YES (↓) |
| 21 | neg | PE(22:6\_20:0) |  | YES (↑) |  |
|  |  |  |  |  |  |
| 22 | pos | PE(P-18:0\_20:2) |  | Yes (↑) |  |
| 23 | neg | PE(P-18:0\_22:1) | YES (\*) |  |  |
| 24 | pos | PE(P-20:0\_20:3) |  | Yes (↑) | Yes (↑) |
|  |  |  |  |  |  |
| 25 | neg | PG(20:4\_17:0) |  | YES (↑) |  |
|  |  |  |  |  |  |
| 26 | neg | PS(18:0\_24:0) |  | YES (↑) |  |
| 27 | neg | PS(18:1\_17:0) |  | YES (↑) |  |
| 28 | neg | PS(18:1\_21:0) |  |  | YES (↓) |
| 29 | neg | PS(18:2\_18:0) |  | YES (↓) |  |
| 30 | neg | PS(20:4\_20:0) |  |  | YES (↓) |
| 31 | neg | PS(22:6\_22:5) |  | YES (↑) |  |
|  |  |  |  |  |  |
| 32 | pos | SM(d17:0/24:0) |  |  | Yes (↓) |

\*; p<0.05