Table S7. Lipids that were significantly (*P* ≤ 0.05) correlated with redness (*a\**) using Pearson’s correlation as a distance measure.

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| --- | --- | --- |
| Lipid | Correlation | *P*-value |
| PG(34:1) | 0.55 | 0.005 |
| PG(36:2) | 0.54 | 0.006 |
| TG 18:0\_32:3 | 0.54 | 0.007 |
| Stearoylcarnitine | -0.51 | 0.010 |
| TG 18:2\_32:1 | -0.51 | 0.011 |
| TG 18:2\_34:0 | -0.50 | 0.013 |
| TG | 0.48 | 0.017 |
| TG 16:1\_38:2 | -0.48 | 0.018 |
| Arachidyl carnitine, O-[(9Z)-17-carboxyheptadec-9-enoyl]carnitine | -0.48 | 0.018 |
| PG(34:2) | 0.48 | 0.018 |
| O-(11-carboxyundecanoyl)carnitine | 0.48 | 0.019 |
| TG 18:1\_34:0 | -0.48 | 0.019 |
| PG(32:1) | 0.47 | 0.021 |
| TG 18:1\_34:1 | -0.47 | 0.021 |
| TG 18:1\_32:3 | 0.46 | 0.023 |
| TG 18:2\_36:1 | -0.46 | 0.025 |
| TG 18:0\_32:1 | -0.45 | 0.026 |
| Palmitoylcarnitine, (5Z)-13-carboxytridec-5-enoylcarnitine | -0.45 | 0.027 |
| SM(d18:0/24:0) | -0.45 | 0.027 |
| PEo(38:6) | 0.45 | 0.027 |
| TG 18:1\_34:4 | -0.45 | 0.027 |
| TG 16:0\_32:0 | -0.45 | 0.028 |
| Hexadecanedioic acid mono-L-carnitine ester | -0.45 | 0.029 |
| PC(34:3) | -0.44 | 0.030 |
| Dodecanoylcarnitine, O-dodecanoylcarnitine | -0.44 | 0.030 |
| PG(36:1) | 0.44 | 0.031 |
| TG 18:0\_34:2 | 0.44 | 0.031 |
| SM(d18:1/14:0) | 0.44 | 0.032 |
| DG 16:0\_16:1 | 0.44 | 0.033 |
| TG 18:0\_30:2 | 0.44 | 0.033 |
| TG 16:1\_36:0 | -0.44 | 0.033 |
| Fumarycarnitine, Hexanoylcarnitine | 0.43 | 0.034 |
| TG 18:0\_36:1 | -0.43 | 0.034 |
| TG 18:2\_36:0 | -0.43 | 0.035 |
| TG 16:0\_38:0 | -0.43 | 0.036 |
| TG 16:1\_38:0 | -0.43 | 0.038 |
| Tetradecanoylcarnitine, O-tetradecanoylcarnitine | -0.42 | 0.041 |
| TG 16:1\_38:3 | -0.42 | 0.043 |
| SM(d16:1/22:1) | -0.41 | 0.044 |
| TG 16:0\_34:3 | 0.41 | 0.047 |
| Decanoylcarnitine | -0.41 | 0.047 |
| TG 16:0\_36:0 | -0.41 | 0.047 |
| TG 18:2\_34:1 | -0.41 | 0.049 |

TG = triglyceride, PG = phosphatidylglycerol, SM = sphingomyelin, PE = phosphatidylethanolamine, PC = phosphatidylcholine, and DG = diglyceride.