Table S8. Lipids that were significantly (*P* < 0.05) correlated with Warner-Bratzler shear force (WBSF) using Pearson’s correlation as a distance measure.

|  |  |  |
| --- | --- | --- |
| Lipids | Correlation | *P*-value |
| PE(18:2), Lyso PE(18:2) | 0.76 | 0.001 |
| TG 18:1\_36:2 | 0.60 | 0.002 |
| PE(18:1), Lyso PE(18:1) | 0.60 | 0.002 |
| TG 16:1\_32:0 | 0.59 | 0.002 |
| TG 18:0\_30:0 | 0.58 | 0.003 |
| PE(20:4), Lyso PE(20:4) | 0.58 | 0.003 |
| TG 16:1\_38:5 | 0.56 | 0.005 |
| PC(40:4) | 0.55 | 0.005 |
| Lyso PC(18:1) | 0.55 | 0.005 |
| TG 16:1\_32:1 | 0.55 | 0.005 |
| Lyso PC(18:3) | 0.55 | 0.005 |
| TG 18:2\_30:1 | 0.55 | 0.006 |
| TG 20:0\_36:2 | 0.54 | 0.006 |
| Lyso PC(17:1) | 0.54 | 0.006 |
| TG 18:1\_36:5 | 0.54 | 0.006 |
| TG 18:0\_36:7 | 0.54 | 0.007 |
| TG 18:1\_36:7 | 0.54 | 0.007 |
| TG 18:0\_36:5 | 0.54 | 0.007 |
| TG 18:1\_36:3 | 0.53 | 0.007 |
| PE(20:1), Lyso PE(20:1) | 0.53 | 0.007 |
| Lyso PC(22:5) | 0.53 | 0.008 |
| TG 16:0\_38:8 | 0.53 | 0.008 |
| TG 16:0\_36:5 | 0.53 | 0.008 |
| TG 16:0\_38:2 | 0.53 | 0.008 |
| TG 16:1\_36:5 | 0.53 | 0.008 |
| PE(20:3), Lyso PE(20:3) | 0.53 | 0.008 |
| TG 20:0\_34:8 | 0.53 | 0.008 |
| TG 18:0\_36:6 | 0.52 | 0.008 |
| TG 18:0\_38:7 | 0.52 | 0.009 |
| TG 16:1\_42:4 | 0.52 | 0.009 |
| TG 20:0\_32:2 | 0.52 | 0.009 |
| TG 20:4\_30:2 | 0.52 | 0.009 |
| TG 20:0\_36:0 | 0.52 | 0.009 |
| TG 18:1\_36:1 | 0.52 | 0.010 |
| TG 16:0\_38:4 | 0.52 | 0.010 |
| PC(40:2) | 0.52 | 0.010 |
| TG 16:1\_42:8 | 0.51 | 0.010 |
| TG 20:0\_34:7 | 0.51 | 0.010 |
| TG 20:4\_32:1 | 0.51 | 0.010 |
| TG 16:1\_38:4 | 0.51 | 0.010 |
| TG 16:0\_36:6 | 0.51 | 0.010 |
| TG 20:0\_34:0 | 0.51 | 0.011 |
| TG 20:0\_32:1 | 0.51 | 0.011 |
| TG 18:1\_38:5 | 0.51 | 0.011 |
| TG 18:2\_32:0 | 0.51 | 0.011 |
| TG 18:1\_38:3 | 0.51 | 0.011 |
| TG 18:1\_40:8 | 0.51 | 0.011 |
| TG 18:2\_38:1 | 0.51 | 0.011 |
| TG 16:1\_40:1 | 0.51 | 0.011 |
| PC(34:4) | 0.51 | 0.011 |
| TG 18:1\_36:4 | 0.51 | 0.012 |
| TG 18:2\_36:4 | 0.51 | 0.012 |
| TG 18:1\_38:6 | 0.50 | 0.012 |
| SM(d18:0/24:0) | 0.50 | 0.012 |
| TG 20:4\_30:0 | 0.50 | 0.012 |
| TG 18:2\_38:2 | 0.50 | 0.013 |
| TG 20:0\_36:1 | 0.50 | 0.013 |
| TG 16:1\_36:3 | 0.50 | 0.013 |
| TG 16:1\_40:5 | 0.50 | 0.013 |
| TG 18:0\_38:6 | 0.50 | 0.014 |
| TG 20:4\_36:1 | 0.50 | 0.014 |
| TG 18:1\_36:0 | 0.50 | 0.014 |
| TG 20:0\_32:0 | 0.50 | 0.014 |
| TG 16:0\_40:0 | 0.49 | 0.014 |
| TG 20:4\_32:0 | 0.49 | 0.014 |
| TG 18:0\_36:0 | 0.49 | 0.014 |
| TG 16:1\_34:3 | 0.49 | 0.014 |
| TG 18:2\_30:0 | 0.49 | 0.014 |
| TG 20:0\_36:3 | 0.49 | 0.015 |
| TG 18:1\_32:0 | 0.49 | 0.015 |
| PE(34:3) | 0.49 | 0.015 |
| PE(22:4), Lyso PE(22:4) | 0.49 | 0.015 |
| Lyso PC(20:0) | 0.49 | 0.015 |
| TG 16:1\_40:7 | 0.49 | 0.015 |
| PC(42:9), PCo(42:2) | 0.49 | 0.016 |
| PC(36:7) | 0.49 | 0.016 |
| PE(36:0), PEp(36:6) | 0.49 | 0.016 |
| PEo(36:2) | 0.48 | 0.016 |
| TG 18:0\_34:5 | 0.48 | 0.016 |
| Lyso PC(20:1) | 0.48 | 0.017 |
| TG 16:1\_40:0 | 0.48 | 0.017 |
| TG 20:4\_36:0 | 0.48 | 0.017 |
| SM(d18:2/20:1) | 0.48 | 0.017 |
| TG 20:4\_36:2 | 0.48 | 0.017 |
| PC(40:10), PCo(40:3) | 0.48 | 0.018 |
| TG 18:2\_34:2 | 0.48 | 0.018 |
| TG 18:1\_38:4 | 0.48 | 0.018 |
| Lyso PC(20:5) | 0.48 | 0.018 |
| TG 18:2\_36:3 | 0.48 | 0.018 |
| Lyso PC(17:0) | 0.48 | 0.019 |
| PE(38:8), PEo(38:1) | 0.48 | 0.019 |
| TG 16:0\_38:3 | 0.47 | 0.019 |
| PC(38:4) | -0.47 | 0.020 |
| Lyso PC(15:0) | 0.47 | 0.021 |
| PE(38:9), PEo(38:2) | 0.47 | 0.021 |
| TG 20:0\_44:2 | 0.47 | 0.021 |
| TG 20:4\_34:1 | 0.47 | 0.022 |
| PC(32:5) | 0.47 | 0.022 |
| TG 18:0\_34:4 | 0.46 | 0.023 |
| TG 16:1\_40:4 | 0.46 | 0.023 |
| PC(42:5) | 0.46 | 0.023 |
| TG 18:1\_38:1 | 0.46 | 0.023 |
| TG 16:1\_40:2 | 0.46 | 0.024 |
| TG 18:1\_38:7 | 0.46 | 0.024 |
| PC(42:10), PCo(42:3) | 0.46 | 0.024 |
| TG 18:0\_38:2 | 0.46 | 0.024 |
| TG 16:0\_36:4 | 0.45 | 0.027 |
| TG 18:0\_34:0 | 0.45 | 0.028 |
| PE(18:3), Lyso PE(18:3) | 0.44 | 0.030 |
| PE(20:5), Lyso PE(20:5) | 0.44 | 0.030 |
| PC(40:0), PCp(42:6) | 0.44 | 0.030 |
| PI | -0.44 | 0.031 |
| TG 18:2\_32:4 | 0.44 | 0.031 |
| Lyso PC(19:1) | 0.44 | 0.032 |
| TG 18:1\_38:0 | 0.44 | 0.032 |
| PE(18:0), Lyso PE(18:0) | 0.44 | 0.033 |
| TG 16:1\_34:2 | 0.44 | 0.033 |
| Lyso PC(16:1) | 0.43 | 0.034 |
| Lyso PC(19:0) | 0.43 | 0.035 |
| TG 18:2\_32:1 | 0.43 | 0.035 |
| TG 18:0\_30:3 | 0.43 | 0.037 |
| SM(d18:1/26:1)17Z)) | 0.42 | 0.039 |
| PC(44:7) | 0.42 | 0.040 |
| TG 16:1\_40:8 | 0.42 | 0.040 |
| PC(40:8), PCo(40:1) | 0.42 | 0.041 |
| PC(40:1) | 0.42 | 0.041 |
| PC(42:7), PCo(42:0) | 0.42 | 0.042 |
| C16:0 | 0.42 | 0.043 |
| TG 16:1\_36:2 | 0.41 | 0.045 |
| TG 16:1\_38:3 | 0.41 | 0.048 |
| PE(20:2), Lyso PE(20:2) | 0.41 | 0.048 |
| TG 20:0\_34:1 | 0.41 | 0.048 |

TG = triglyceride, SM = sphingomyelin, PE = phosphatidylethanolamine, PC = phosphatidylcholine, and PI = phosphatidylinositol.