**Table S2.** Pathway analysis of metabolites found to be different in the group with vibration-induced white fingers (VWF) compared to those without VWF, after vibration exposure.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Pathway Name | Match Status | p-value (Fisher) | log(p) | Holm p | FDR | Impact | Metabolites |
| Aminoacyl-tRNA biosynthesis | 4/75 | 0.0005 | 7.6 | 0.04 | 0.04 | 0.056 | L-Arginine; L-Glutamine; Glycine; L-Lysine |
| Pentose phosphate pathway | 2/32 | 0.012 | 4.4 | 0.96 | 0.29 | 0.022 | Beta-D-Glucose; Glyceric acid |
| Glutathione metabolism | 2/38 | 0.017 | 4.1 | 1 | 0.29 | 0.0019 | Glycine; Pyroglutamic acid |
| Nitrogen metabolism | 2/39 | 0.018 | 4 | 1 | 0.29 | 0 | L-Glutamine; Glycine |
| Primary bile acid biosynthesis | 2/47 | 0.025 | 3.7 | 1 | 0.29 | 0.063 | Cholesterol; Glycine |
| Lysine degradation | 2/47 | 0.025 | 3.7 | 1 | 0.29 | 0.15 | L-Lysine; Glycine |
| Glycine, serine and threonine metabolism | 2/48 | 0.026 | 3.6 | 1 | 0.29 | 0.19 | Glyceric acid; Glycine |
| Starch and sucrose metabolism | 2/50 | 0.029 | 3.6 | 1 | 0.29 | 0.043 | D-Maltose; Beta-D-Glucose |
| D-Arginine and D-ornithine metabolism | 1/8 | 0.042 | 3.2 | 1 | 0.38 | 0 | L-Arginine |
| Biotin metabolism | 1/11 | 0.058 | 2.8 | 1 | 0.42 | 0 | L-Lysine |
| D-Glutamine and D-glutamate metabolism | 1/11 | 0.058 | 2.8 | 1 | 0.42 | 0.027 | L-Glutamine |
| Arginine and proline metabolism | 2/77 | 0.063 | 2.8 | 1 | 0.42 | 0.13 | L-Glutamine; L-Arginine |
| Cyanoamino acid metabolism | 1/16 | 0.083 | 2.5 | 1 | 0.49 | 0 | Glycine |
| Purine metabolism | 2/92 | 0.086 | 2.5 | 1 | 0.49 | 0 | L-Glutamine; Glycine |
| Thiamine metabolism | 1/24 | 0.12 | 2.1 | 1 | 0.61 | 0 | Glycine |
| Alanine, aspartate and glutamate metabolism | 1/24 | 0.12 | 2.1 | 1 | 0.61 | 0.21 | L-Glutamine |
| Glycolysis or Gluconeogenesis | 1/31 | 0.16 | 1.9 | 1 | 0.64 | 0 | Beta-D-Glucose |
| Glycerolipid metabolism | 1/32 | 0.16 | 1.8 | 1 | 0.64 | 0.021 | Glyceric acid |
| Lysine biosynthesis | 1/32 | 0.16 | 1.8 | 1 | 0.64 | 0.1 | L-Lysine |
| Vitamin B6 metabolism | 1/32 | 0.16 | 1.8 | 1 | 0.64 | 0.1 | Pyridoxine |
| Methane metabolism | 1/34 | 0.17 | 1.8 | 1 | 0.64 | 0 | Glycine |
| Ascorbate and aldarate metabolism | 1/45 | 0.22 | 1.5 | 1 | 0.79 | 0.008 | Threonic acid |
| Glyoxylate and icarboxylate metabolism | 1/50 | 0.24 | 1.4 | 1 | 0.83 | 0.033 | Glyceric acid |
| Pyrimidine metabolism | 1/60 | 0.28 | 1.3 | 1 | 0.93 | 0 | L-Glutamine |
| Steroid hormone biosynthesis | 1/99 | 0.42 | 0.86 | 1 | 1 | 0.0039 | Cholesterol |
| Porphyrin and chlorophyll metabolism | 1/104 | 0.44 | 0.83 | 1 | 1 | 0 | Glycine |