**Table S1.** Pathway analysis of metabolites found to be different in the group with vibration-induced white fingers (VWF) compared to those without VWF, before vibration exposure.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Pathway Name | Match Status | p-value (Fisher) | log(p) | Holm p | FDR | Impact | Metabolites |
| Aminoacyl-tRNA biosynthesis | 3/75 | 0.0015 | 6.5 | 0.12 | 0.12 | 0.056 | L-Glutamine; Glycine; L-Lysine |
| Pentose phosphate pathway | 2/32 | 0.0046 | 5.4 | 0.36 | 0.13 | 0.022 | Beta-D-Glucose; Glyceric acid |
| Nitrogen metabolism | 2/39 | 0.0067 | 5 | 0.53 | 0.13 | 0 | L-Glutamine; Glycine |
| Primary bile acid biosynthesis | 2/47 | 0.0097 | 4.6 | 0.75 | 0.13 | 0.063 | Cholesterol; Glycine |
| Lysine degradation | 2/47 | 0.0097 | 4.6 | 0.75 | 0.13 | 0.15 | L-Lysine; Glycine |
| Glycine, serine and threonine metabolism | 2/48 | 0.01 | 4.6 | 0.76 | 0.13 | 0.19 | Glyceric acid; Glycine |
| Purine metabolism | 2/92 | 0.035 | 3.4 | 1 | 0.32 | 0 | L-Glutamine; Glycine |
| Biotin metabolism | 1/11 | 0.036 | 3.3 | 1 | 0.32 | 0 | L-Lysine |
| D-Glutamine and D-glutamate metabolism | 1/11 | 0.036 | 3.3 | 1 | 0.32 | 0.027 | L-Glutamine |
| Cyanoamino acid metabolism | 1/16 | 0.052 | 3 | 1 | 0.42 | 0 | Glycine |
| Thiamine metabolism | 1/24 | 0.077 | 2.6 | 1 | 0.51 | 0 | Glycine |
| Alanine, aspartate and glutamate metabolism | 1/24 | 0.077 | 2.6 | 1 | 0.51 | 0.21 | L-Glutamine |
| Glycolysis or Gluconeogenesis | 1/31 | 0.099 | 2.3 | 1 | 0.54 | 0 | Beta-D-Glucose |
| Glycerolipid metabolism | 1/32 | 0.1 | 2.3 | 1 | 0.54 | 0.021 | Glyceric acid |
| Lysine biosynthesis | 1/32 | 0.1 | 2.3 | 1 | 0.54 | 0.1 | L-Lysine |
| Methane metabolism | 1/34 | 0.11 | 2.2 | 1 | 0.54 | 0 | Glycine |
| Glutathione metabolism | 1/38 | 0.12 | 2.1 | 1 | 0.56 | 0 | Glycine |
| Ascorbate and aldarate metabolism | 1/45 | 0.14 | 2 | 1 | 0.62 | 0.008 | Threonic acid |
| Starch and sucrose metabolism | 1/50 | 0.15 | 1.9 | 1 | 0.62 | 0.00079 | Beta-D-Glucose |
| Glyoxylate and dicarboxylate metabolism | 1/50 | 0.15 | 1.9 | 1 | 0.62 | 0.033 | Glyceric acid |
| Pyrimidine metabolism | 1/60 | 0.18 | 1.7 | 1 | 0.7 | 0 | L-Glutamine |
| Arginine and proline metabolism | 1/77 | 0.23 | 1.5 | 1 | 0.83 | 0 | L-Glutamine |
| Steroid hormone biosynthesis | 1/99 | 0.29 | 1.3 | 1 | 0.99 | 0.0039 | Cholesterol |
| Porphyrin and chlorophyll metabolism | 1/104 | 0.3 | 1.2 | 1 | 0.99 | 0 | Glycine |