**Table S1.** Differentially regulated metabolites between samples from patients with male pattern baldness treated with finasteride for a year, and control subjects

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metabolite | Related pathway | VIP | P value | FC | p(corr) | Regulation |
| N(pi)-Methyl-L-histidine | Histidine metabolism | 1.39 | 2.09E-07 | 6.76 | 0.39 | Up |
| Estrone | Steroid hormone biosynthesis | 1.45 | 4.35E-08 | 0.86 | -0.10 | Down |
| 5-Aminoimidazole | Purine metabolism | 1.61 | 0.0254 | 1.31 | -0.22 | Down |
| Agmatine | Arginine and proline metabolism | 1.76 | 0.0131 | 1.56 | -0.09 | Down |
| Unknown (RT = 8.6262) | NA | 1.95 | 0.0029 | 0.66 | 0.21 | Up |
| Unknown (RT = 0.5564) | NA | 2.03 | 0.0192 | 1.44 | 0.22 | Up |
| 1-Methylhistidine | NA | 2.11 | 0.0394 | 0.85 | 0.37 | Up |
| 4-Hydroxytoluene | Protein digestion and absorption | 2.13 | 0.0008 | 1.56 | 0.05 | Up |
| L-Tyrosine | Tyrosine metabolism | 2.16 | 0.0250 | 1.24 | 0.12 | Up |
| Dehydroalanine | Cysteine and methionine metabolism | 2.16 | 0.0097 | 1.30 | 0.29 | Up |
| L-Rhamnose | Fructose and mannose metabolism | 2.17 | 0.0340 | 1.25 | 0.15 | Up |
| Traumatic acid | alpha-Linolenic acid metabolism | 2.45 | 0.0453 | 1.97 | 0.31 | Up |
| Quercetin | AMPK signaling pathway | 2.60 | 6.02E-15 | 0.84 | 0.02 | Up |
| 4-Trimethylammoniobutanal | Lysine degradation | 2.69 | 0.00289 | 0.50 | 0.04 | Up |
| Unknown (RT = 3.0999) | NA | 2.70 | 2.13E-06 | 1.76 | 0.12 | Up |
| 2-Hydroxyestrone | Steroid hormone biosynthesis | 2.74 | 0.0020 | 0.83 | -0.01 | Down |
| 4-Hydroxy-L-threonine | Vitamin B6 metabolism | 3.28 | 0.0131 | 0.75 | 0.45 | Up |
| Unknown (RT = 5.1955) | NA | 3.40 | 0.0009 | 0.80 | 0.02 | Up |
| Triethanolamine | Glycerophospholipid metabolism | 3.68 | 0.0015 | 1.30 | 0.19 | Up |
| 4-Hydroxyphenylacetaldehyde | Tyrosine metabolism | 4.22 | 2.91E-06 | 0.50 | 0.13 | Up |

FC, fold-change, mean value of peak area obtained from the male pattern baldness patients/mean value of peak area obtained from the normal controls. An FC value < 1 indicates that metabolites are fewer in patients with male pattern baldness treated with finasteride for 1 year than in controls; RT, retention time; Unknown, not identified by library and standards; NA, not available; P(corr), Pearson correlation coefficient.