**Table S2 The analysis results from the concentrations of forty-eight differential metabolites between MOD and AMY groups**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Matabolites** | **CON** | **MOD** | **AMY** |
| 1 | Nicotinic acid mononucleotide | 737.78±201.16 | 2722.68±1121.99 | 916.53±257.65\* |
| 2 | Neuraminic acid | 5686.36±711.05 | 16413.70±2863.12 | 6324.60±736.61\* |
| 3 | Aminoparathion | 14502.46±736.32 | 4838.10±1367.96 | 19677.08±8080.62\* |
| 4 | Propionylcholine | 3663.36±525.10 | 836.55±217.08 | 3211.08±708.32\* |
| 5 | Tetrahydrofolyl-[Glu](2) | 13480.34±2117.87 | 2004.08±1017.79 | 6122.73±1396.73\* |
| 6 | Succinyladenosine | 1674.33±348.07 | 5150.04±1348.47 | 2188.25±595.82\* |
| 7 | dIMP | 2079.71±328.22 | 1022.30±330.53 | 2366.20±367.83\* |
| 8 | 4-Imidazolone-5-propionic acid | 226597.03±30073.28 | 103891.66±21517.01 | 224730.92±26054.24\* |
| 9 | Phenylalanyl-Threonine | 6498.78±675.55 | 1026.29±274.57 | 8589.58±993.50\* |
| 10 | Methionyl-Threonine | 1113.57±144.67 | 311.79±103.95 | 1150.54±271.08\* |
| 11 | Homoanserine | 2607.45±1030.99 | 703.12±253.22 | 2748.10±419.52\* |
| 12 | 3-Hydroxypicolinic acid | 62923.51±10812.23 | 16157.11±6393.17 | 61052.73±14388.82\* |
| 13 | Hydroxyprolyl-Isoleucine | 11319.77±2205.54 | 2788.20±310.35 | 14106.23±856.53\* |
| 14 | Acetyl-N-formyl-5-methoxykynurenamine | 7054.25±1615.33 | 1599.42±471.19 | 7790.07±2384.19\* |
| 15 | Inodxyl glucuronide | 432.49±62.45 | 1433.83±688.55 | 411.00±82.06\* |
| 16 | Dopamine glucuronide | 1354.54±629.37 | 2138.79±267.87 | 919.54±254.43\* |
| 17 | Tyrosyl-Tyrosine | 1801.65±1526.62 | 296.26±46.22 | 1690.35±943.06\* |
| 18 | 5,6-Dihydrouridine | 11080.31±984.75 | 5123.36±957.15 | 10256.95±760.19\* |
| 19 | Deuteroporphyrin IX | 5374.64±797.42 | 522.81±122.86 | 5143.41±1323.26\* |
| 20 | Caproylcholine | 4605.17±261.16 | 1142.69±201.47 | 5096.74±618.26\* |
| 21 | Kinetin-7-N-glucoside | 1408.28±439.17 | 3025.04±278.51 | 1173.19±300.27\* |
| 22 | 3-Hydroxy-11Z-octadecenoylcarnitine | 2740.21±302.72 | 6056.01±717.077 | 2688.87±542.60\* |
| 23 | 3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid | 1063.42±530.59 | 590.65±190.72 | 1742.18±432.33 |
| 24 | 3-Hydroxyhexadecadienoylcarnitine | 658.50±302.75 | 352.94±70.92 | 804.55±121.18\* |
| 25 | 3-Hydroxy-9-hexadecenoylcarnitine | 1152.03±455.21 | 2837.44±541.23 | 1153.68±382.80\* |
| 26 | m-Aminobenzoic acid | 1422.32±588.22 | 401.45±122.51 | 1089.93±410.07\* |
| 27 | Kinetensin 1-3 | 2218.58±869.45 | 2279.41±1267.29 | 4772.44±487.42 |
| 28 | 1,3-Diisopropylbenzene | 6649.81±773.97 | 12806.32±1595.82 | 6075.15±2670.99\* |
| 29 | Homovanillic acid sulfate | 12385.43±6536.93 | 16388.16±920.231 | 8135.81±2713.04 |
| 30 | 5'-Phosphoribosyl-N-formylglycinamide | 195.82±94.89 | 139.57±39.25 | 4000.97±1203.19 |
| 31 | 4-ethylamino-6-isopropylamino-1,3,5-triazin-2-ol | 5801.51±2957.15 | 19091.69±6012.57 | 4171.11±1026.38\* |
| 32 | D-Glucuronic acid 1-phosphate | 3843.31±214.07 | 1184.95±327.12 | 8834.33±3979.96 |
| 33 | Testolactone | 363.91±91.16 | 1560.94±248.45 | 473.09±83.35\* |
| 34 | N-acetyltryptophan | 352.03±55.53 | 238.88±15.51 | 1299.84±487.58 |
| 35 | S-Nitrosoglutathione | 239.09±84.09 | 539.23±96.63 | 186.29±89.24\* |
| 36 | Acetaminophen glucuronide | 1279.77±263.44 | 993.15±370.22 | 4991.41±367.12 |
| 37 | S-(9-deoxy-delta9,12-PGD2)-glutathione | 555.22±139.91 | 1272.41±508.50 | 521.50±78.29\* |
| 38 | Capryloylglycine | 3812.61±573.70 | 7842.65±602.54 | 3265.60±886.35\* |
| 39 | N-Acetyl-L-phenylalanine | 40435.78±5516.91 | 10618.81±4229.37 | 40204.63±9515.25\* |
| 40 | Arginyl-Proline | 4048.31±679.93 | 10473.05±5876.81 | 2420.97±855.70\* |
| 41 | Adrenochrome | 945.37±108.53 | 339.41±72.50 | 881.15±111.62\* |
| 42 | Glutamyl-Gamma-glutamate | 6946.23±2172.02 | 5403.63±947.37 | 19589.92±4775.96 |
| 43 | Histidinyl-Proline | 1214.46±270.52 | 807.86±221.44 | 2344.60±649.25 |
| 44 | Indole-5,6-quinone | 1132.84±314.95 | 1647.54±549.77 | 648.65±121.96\* |
| 45 | Cysteinyl-Histidine | 1176.48±382.93 | 1156.29±447.19 | 2735.49±851.40 |
| 46 | Tuftsin | 2359.37±450.58 | 2154.38±538.29 | 5217.18±1264.40 |
| 47 | Hydroxyprolyl-Valine | 1469.55±547.86 | 1133.35±245.28 | 4937.18±1510.56 |
| 48 | Kynuramine | 4184.74±1053.63 | 14024.71±6268.02 | 4799.79±410.42\* |

Note：compare with MOD, \* P <0.05.