

Supplementary Table 5: The concentration of Try and Try catabolites in fecal samples of APC min/+ mice under different treatments.

| Sample Name | APC-BHI-102 | APC-BHI-114 | APC-BHI-117 | APC-BHI-130 | APC-BHI-131 | APC-BHI-141 | APC-E.coli-13 | APC-E.coli-13 | APC-E.coli-13 | APC-E.coli-14 | APC-E.coli-14 | APC-E.coli-15 | APC-E.coli-16 | APC-Lg-134 | APC-Lg-166 | APC-Lg-167 | APC-Lg-175 | APC-Lg-178 | APC-Lg-195 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|------------|------------|
| Mass/mg | 49.9 | 50.6 | 50.9 | 50.5 | 49.8 | 50.6 | 50.3 | 50.7 | 50.9 | 50.4 | 50.1 | 50.9 | 50.7 | 50.8 | 50.9 | 49.7 | 50.7 | 50.5 | |
| 3-HAA | 35.08 | 107.34 | 32.57 | 34.60 | 20.24 | 20.06 | 21.48 | 22.91 | 47.68 | 106.03 | 16.43 | 28.13 | 64.62 | 48.39 | 145.91 | 22.22 | 78.42 | 64.38 | |
| 3-HK | 17.99 | 13.67 | 6.76 | 16.81 | 9.46 | 10.50 | 13.39 | 10.07 | 5.73 | 21.04 | 7.63 | 8.08 | 32.76 | 20.73 | 13.21 | 22.09 | 22.44 | 7.60 | |
| 5-HIAA | 1458.22 | 8548.58 | 5724.61 | 2052.60 | 6088.89 | 2462.98 | 2367.67 | 2310.95 | 6459.87 | 2439.02 | 5998.90 | 1956.03 | 1516.07 | 1244.83 | 6277.05 | 1056.55 | 7650.28 | 7450.52 | |
| 5-HT | 895.08 | 701.17 | 652.56 | 1094.95 | 384.96 | 1136.66 | 628.06 | 471.62 | 845.33 | 1521.94 | 1489.20 | 140.91 | 52.22 | 177.69 | 11.60 | 122.39 | 161.75 | 95.35 | |
| 5-HTOL | 97.24 | 104.73 | 76.49 | 128.33 | 110.94 | 76.82 | 69.91 | 85.17 | 131.84 | 83.16 | 131.11 | 131.19 | 95.49 | 148.20 | 186.08 | 98.69 | 101.23 | 311.74 | |
| 5-HTP | 3.16 | 1.53 | 1.47 | 2.06 | 2.19 | 2.17 | 2.37 | 2.18 | 2.75 | 2.30 | 4.02 | 4.01 | 3.30 | 3.43 | 3.29 | 3.04 | 4.10 | 8.20 | |
| 5-Me-IAA | 0.96 | 0.75 | 1.04 | 1.79 | 1.91 | 1.48 | 1.41 | 1.16 | 1.31 | 0.99 | 1.78 | 2.11 | 1.16 | 1.03 | 1.17 | 1.60 | 1.53 | 1.10 | |
| AA | 136.03 | 154.65 | 113.84 | 158.97 | 100.32 | 149.04 | 135.69 | 122.33 | 163.72 | 148.25 | 149.33 | 176.29 | 164.66 | 131.24 | 169.97 | 151.53 | 122.19 | 154.18 | |
| IA | 24.54 | 19.63 | 33.97 | 45.60 | 32.60 | 24.51 | 26.28 | 30.52 | 44.44 | 18.56 | 64.95 | 21.09 | 19.69 | 17.65 | 14.07 | 22.11 | 18.38 | 16.29 | |
| IAA | 903.37 | 773.05 | 961.85 | 835.17 | 1413.46 | 689.11 | 803.61 | 1066.48 | 1009.82 | 685.19 | 1003.40 | 1054.10 | 849.18 | 861.09 | 1134.94 | 801.74 | 914.71 | 682.02 | |
| IAA-Ala | N/A | N/A | N/A | N/A | N/A | 0.05 | N/A | N/A | 0.05 | N/A | 0.06 | 0.31 | 0.19 | N/A | N/A | N/A | 0.18 | 0.26 | |
| IAA-Asp | 0.66 | N/A | 0.23 | 0.25 | 0.51 | 1.37 | 0.29 | 0.59 | 0.26 | 0.74 | 0.83 | 0.64 | 0.18 | 0.15 | 0.46 | 0.15 | N/A | 0.42 | |
| IAM | 30.26 | 26.13 | 17.16 | 17.63 | 13.30 | 18.92 | 19.75 | 13.58 | 26.43 | 17.36 | 22.60 | 23.27 | 18.70 | 21.79 | 14.42 | 19.06 | 27.18 | 12.14 | |
| IAN | 7.79 | 7.60 | 7.51 | 8.50 | 7.23 | 8.27 | 7.75 | 6.94 | 7.96 | 7.87 | 8.59 | 7.21 | 8.28 | 8.09 | 7.15 | 7.51 | 6.93 | 7.65 | |
| ICA | 2945.21 | 1565.29 | 4379.89 | 4849.29 | 3783.22 | 4619.37 | 5756.10 | 3853.91 | 6802.75 | 332.68 | 6105.91 | 4902.49 | 2027.57 | 3438.01 | 924.07 | 7512.07 | 5886.48 | 851.13 | |
| IE | 8256.97 | 8603.46 | 3798.98 | 7010.99 | 2277.38 | 5205.41 | 2751.97 | 2908.54 | 2920.77 | 8195.63 | 5193.08 | 2242.72 | 3085.34 | 3636.40 | 2581.08 | 1248.02 | 1804.42 | 3938.65 | |
| IGA | 1058.98 | 3071.52 | 3694.40 | 1518.73 | 6526.81 | 1931.49 | 3048.65 | 2052.73 | 4046.17 | 577.44 | 4225.73 | 1930.65 | 565.23 | 695.38 | 1412.16 | 1223.80 | 4507.40 | 1920.88 | |
| ILA | 73.51 | 70.88 | 56.17 | 60.59 | 78.54 | 58.24 | 75.64 | 88.06 | 67.92 | 66.43 | 65.91 | 96.43 | 92.91 | 80.19 | 92.78 | 67.17 | 67.25 | 100.09 | |
| Indican | 1131.96 | 1387.95 | 965.37 | 1101.45 | 609.09 | 1153.92 | 862.49 | 808.18 | 1015.57 | 968.24 | 893.40 | 1102.13 | 1813.03 | 1292.52 | 1522.37 | 599.93 | 1072.03 | 1522.16 | |
| Indole | 57.68 | 74.43 | 103.68 | 129.07 | 103.76 | 133.86 | 113.39 | 84.48 | 95.83 | 79.79 | 91.91 | 147.93 | 74.60 | 278.97 | 74.91 | 136.58 | 148.97 | 93.68 | |
| IPA | 993.27 | 514.71 | 527.89 | 708.05 | 406.87 | 477.88 | 559.37 | 459.92 | 1008.86 | 721.47 | 785.73 | 614.02 | 724.37 | 539.08 | 393.75 | 648.91 | 420.34 | 244.99 | |
| IS | N/A | 1.69 | 11.63 | 0.74 | 26.50 | N/A | 6.85 | 14.33 | 39.92 | N/A | 23.78 | 63.56 | 9.19 | 2.37 | 2.43 | 5.13 | 14.03 | 160.17 | |
| KYN | 320.40 | N/A | N/A | 239.71 | N/A | 507.38 | N/A | N/A | 691.77 | N/A | 416.68 | 353.47 | N/A | N/A | N/A | N/A | N/A | 532.43 | N/A |
| KYNA | 816.49 | 932.62 | 868.38 | 982.96 | 786.66 | 754.14 | 947.09 | 941.38 | 868.77 | 756.94 | 695.17 | 1049.12 | 1184.96 | 969.07 | 1027.10 | 1039.61 | 1004.26 | 1232.96 | |
| Melatonin | 55.58 | 40.41 | 22.77 | N/A | N/A | 56.81 | 52.69 | 2.28 | 55.85 | 6.02 | 24.01 | 11.11 | 15.51 | N/A | N/A | N/A | 9.96 | 47.77 | |
| NA | 94253.85 | 84581.51 | 90808.32 | 119005.30 | 70310.72 | 122823.16 | 95931.21 | 77636.59 | 110588.72 | 88199.49 | 102066.45 | 80867.03 | 77595.31 | 84411.71 | 55183.48 | 93718.55 | 74540.75 | 56638.48 | |
| NAS | 4.29 | 4.47 | 3.59 | 2.92 | 1.74 | 2.18 | 2.97 | 2.32 | 6.13 | 2.49 | 5.04 | 2.76 | 3.88 | 4.31 | 2.63 | 3.86 | 6.53 | 6.29 | |
| Skatole | 4788.42 | 24456.88 | 13249.32 | 4121.42 | 14178.78 | 10261.15 | 6305.20 | 4586.36 | 7932.76 | 4894.75 | 8480.54 | 5562.69 | 3553.60 | 2573.77 | 11542.16 | 1921.24 | 9323.01 | 11536.89 | |
| Trp | 16866.32 | 8344.14 | 5413.69 | 4056.18 | 6687.13 | 6014.94 | 12629.27 | 13856.97 | 11662.07 | 6486.90 | 22757.82 | 68263.42 | 27241.70 | 28333.17 | 49712.54 | 22647.12 | 20409.31 | 56599.80 | |
| Tryptamine | 21346.21 | 21299.33 | 11917.74 | 14132.21 | 6975.43 | 14563.52 | 9764.75 | 8876.95 | 10028.20 | 24535.49 | 13379.02 | 3813.31 | 5444.20 | 4436.16 | 5072.95 | 2880.70 | 4103.90 | 4824.34 | |
| Xa | 219.73 | 316.04 | 226.76 | 325.07 | 500.77 | 197.27 | 266.83 | 814.33 | 293.59 | 168.55 | 328.63 | 1446.74 | 415.54 | 435.60 | 731.00 | 494.24 | 337.08 | 1030.70 | |

| Sample Name | APC-BHI-102 | APC-BHI-114 | APC-BHI-117 | APC-BHI-130 | APC-BHI-131 | APC-BHI-141 | APC-E.coli-13 | APC-E.coli-13 | APC-E.coli-14 | APC-E.coli-14 | APC-E.coli-15 | APC-E.coli-16 | APC-Lg-134 | APC-Lg-166 | APC-Lg-167 | APC-Lg-175 | APC-Lg-178 | APC-Lg-195 | |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|------------|------------|--|
| Mass/mg | 49.9 | 50.6 | 50.9 | 50.5 | 49.8 | 50.6 | 50.3 | 50.7 | 50.9 | 50.4 | 50.1 | 50.9 | 50.7 | 50.8 | 50.9 | 49.7 | 50.7 | 50.5 | |
| 3-HAA | 87.89 | 265.17 | 79.98 | 85.66 | 50.80 | 49.54 | 53.37 | 56.48 | 117.09 | 262.97 | 41.00 | 69.08 | 159.33 | 119.07 | 358.32 | 55.88 | 193.34 | 159.36 | |
| 3-HK | 45.07 | 33.78 | 16.60 | 41.61 | 23.74 | 25.94 | 33.28 | 24.83 | 14.07 | 52.18 | 19.03 | 19.85 | 80.77 | 51.01 | 32.43 | 55.57 | 55.34 | 18.82 | |
| 5-HIAA | 3652.87 | 21118.04 | 14058.48 | 5080.68 | 15283.35 | 6084.44 | 6883.88 | 5697.60 | 15864.12 | 6049.15 | 14967.32 | 4803.60 | 3737.85 | 3063.07 | 15415.16 | 2657.33 | 18861.64 | 18441.87 | |
| 5-HT | 2242.18 | 1732.13 | 1602.55 | 2710.28 | 966.27 | 2807.95 | 1560.78 | 1162.78 | 2075.95 | 3774.65 | 3715.56 | 346.04 | 128.74 | 437.22 | 28.49 | 307.81 | 398.79 | 236.01 | |
| 5-HTOL | 243.59 | 258.71 | 187.85 | 317.64 | 278.45 | 189.77 | 173.73 | 209.99 | 323.77 | 206.26 | 327.12 | 322.17 | 235.43 | 364.67 | 456.97 | 248.21 | 249.57 | 771.64 | |
| 5-HTP | 7.91 | 3.78 | 3.60 | 5.10 | 5.49 | 5.37 | 5.90 | 5.37 | 6.74 | 5.71 | 10.03 | 9.86 | 8.14 | 8.45 | 8.07 | 7.65 | 10.11 | 20.30 | |
| 5-Me-IAA | 2.42 | 1.86 | 2.56 | 4.44 | 4.79 | 3.65 | 3.50 | 2.86 | 3.23 | 2.45 | 4.44 | 5.19 | 2.86 | 2.52 | 2.87 | 4.03 | 3.78 | 2.73 | |
| AA | 340.76 | 382.04 | 279.57 | 393.49 | 251.81 | 368.18 | 337.19 | 301.60 | 402.06 | 367.68 | 372.59 | 432.93 | 405.97 | 322.92 | 417.42 | 381.10 | 301.25 | 381.63 | |
| IA | 61.46 | 48.48 | 83.43 | 112.87 | 81.84 | 60.54 | 65.31 | 75.24 | 109.13 | 46.03 | 162.06 | 51.79 | 48.55 | 43.44 | 34.56 | 55.61 | 45.33 | 40.32 | |
| IAA | 2262.95 | 1909.71 | 2362.11 | 2067.26 | 3547.84 | 1702.34 | 1997.03 | 2629.40 | 2479.90 | 1699.37 | 2503.48 | 2588.65 | 2093.65 | 2118.83 | 2787.18 | 2016.45 | 2255.20 | 1688.18 | |
| IAA-Ala | N/A | N/A | N/A | N/A | N/A | 0.12 | N/A | N/A | 0.13 | N/A | 0.16 | 0.77 | 0.47 | N/A | N/A | N/A | 0.44 | 0.65 | |
| IAA-Asp | 1.66 | N/A | 0.58 | 0.62 | 1.29 | 3.39 | 0.72 | 1.45 | 0.65 | 1.83 | 2.07 | 1.56 | 0.43 | 0.37 | 1.14 | 0.39 | N/A | 1.05 | |
| IAM | 75.79 | 64.56 | 42.13 | 43.64 | 33.39 | 46.75 | 49.08 | 33.47 | 64.90 | 43.07 | 56.39 | 57.14 | 46.12 | 53.63 | 35.42 | 47.95 | 67.01 | 30.06 | |
| IAN | 19.51 | 18.78 | 18.44 | 21.03 | 18.14 | 20.43 | 19.26 | 17.10 | 19.55 | 19.52 | 21.42 | 17.71 | 20.42 | 19.90 | 17.55 | 18.90 | 17.09 | 18.93 | |
| ICA | 7377.78 | 3866.83 | 10756.11 | 12003.19 | 9496.05 | 11411.49 | 14304.42 | 9501.76 | 16706.15 | 825.10 | 15234.31 | 12039.51 | 4998.95 | 8459.68 | 2269.32 | 18893.53 | 14513.02 | 2106.75 | |
| IE | 20683.80 | 21253.61 | 9329.53 | 17353.94 | 5716.31 | 12859.21 | 6838.89 | 7170.95 | 7172.83 | 20326.45 | 12956.78 | 5507.65 | 7606.86 | 8948.06 | 6338.59 | 3138.89 | 4448.76 | 9749.13 | |
| IGA | 2652.76 | 7587.74 | 9072.68 | 3759.23 | 16382.57 | 4771.48 | 7576.16 | 5060.97 | 9936.57 | 1432.15 | 10543.24 | 4741.27 | 1393.57 | 1711.08 | 3467.98 | 3077.96 | 1112.91 | 4754.65 | |
| ILA | 184.13 | 175.10 | 137.93 | 149.97 | 197.14 | 143.87 | 187.96 | 217.12 | 166.81 | 164.77 | 164.44 | 236.81 | 229.07 | 197.32 | 227.86 | 168.94 | 165.80 | 247.75 | |