Supporting information

**Table S1.** HRMS performances. RT (retention time, min); TM (theoretical mass); EM (experimental mass, [M+H]^+); error (Δ ppm). The following compounds were quantified using chemical similarities toward the analytes in parenthesis (SciFinder, ACS 2018): 3-(2-hydroxyethyl)indole (indole-acetic acid), oxindole (indole), 3-methyl indole (indole), indole-3-acetaldehyde (indole-3-aldehyde).

| Compound Name                                    | RT | Elemental Composition | TM       | EM       | Δ ppm |
|--------------------------------------------------|----|-----------------------|----------|----------|-------|
| L-kynurenine                                     | 2.3| C10H12N2O3            | 209.09207| 209.09275| 3.3   |
| indole-3-acetaldehyde                            | 2.6| C10H9NO               | 160.07569| 160.07549| -1.2  |
| 3-hydroxyanthranilic acid                       | 3.2| C7H7NO3               | 154.04987| 154.04991| 0.3   |
| tryptophan                                       | 4.1| C11H12N2O2            | 205.09715| 205.09754| 1.9   |
| 3-methyl indole                                  | 4.3| C9H9N                | 132.08078| 132.08028| -3.8  |
| tryptamine                                       | 4.4| C10H12N2             | 161.10732| 161.10719| -0.8  |
| kynurenic acid                                   | 4.6| C10H7NO3             | 190.04987| 190.04963| -1.3  |
| anthranilic acid                                 | 4.9| C7H7NO2              | 138.05496| 138.05490| -0.4  |
| indole-3-aldehyde                                | 5.5| C9H7NO               | 146.06004| 146.05990| -1.0  |
| indole-3-acetic acid                             | 5.6| C10H9NO2             | 176.07061| 176.07021| -2.3  |
| 3-(2-hydroxyethyl)indole                        | 5.8| C10H11NO             | 162.09134| 162.09155| 1.3   |
| indole-3-propionic acid                          | 6.2| C11H11NO2            | 190.08626| 190.08611| -0.8  |
| indole                                           | 6.7| C8H7N                | 118.06513| 118.06509| -0.3  |
| oxindole                                         | 6.8| C8H7NO               | 134.06004| 134.06022| 1.3   |
| 6-formylindolo(3,2-b)carbazole                   | 8.6| C19H12N2O            | 285.10224| 285.10199| -0.9  |
**Figure S1.** Relative abundance of microbiota used in the TWINSHIME® fermentation of 2 different donors before oregano treatment given in phylum level, analyzed by 16S sequencing. AC1/AC2 represents ascending colon donor 1/2; TC1/TC2 represents transverse colon donor 1/2; DC1/DC2 represents descending colon donor 1/2.
**Figure S2.** Concentration of tryptophan and tryptophan derivatives in ascending (AC), transverse (TC) and descending (DC) colon, n=2 donors.