Table S8: Functional pathways predicted by Tax4Fun analyses altered by diet in colon of growing pigs provided inulin

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| --- | --- | --- | --- |
| Tax4Fun-based Pathways | | Inu Relative to Con | |
| Fold Difference3 | *P*4 |
| ko00720 | Carbon fixation pathways in prokaryotes | -0.14 | <0.01 |
| ko00623 | Toluene degradation | -0.20 | <0.01 |
| ko05206 | MicroRNAs in cancer | 0.25 | <0.01 |
| ko04066 | HIF-1 signaling pathway | 0.12 | <0.01 |
| ko01502 | Vancomycin resistance | 0.18 | <0.01 |
| ko00984 | Steroid degradation | -0.05 | <0.01 |
| ko00010 | Glycolysis / Gluconeogenesis | 0.17 | <0.01 |
| ko00626 | Naphthalene degradation | 0.20 | <0.01 |
| ko00531 | Glycosaminoglycan degradation | -0.16 | <0.05 |
| ko00622 | Xylene degradation | -0.14 | <0.05 |
| ko00361 | Chlorocyclohexane and chlorobenzene degradation | -0.21 | <0.05 |
| ko04917 | Prolactin signaling pathway | 0.07 | <0.05 |
| ko04016 | MAPK signaling pathway - plant | 0.29 | <0.05 |
| ko00562 | Inositol phosphate metabolism | 0.20 | <0.05 |
| ko00603 | Glycosphingolipid biosynthesis - globo and isoglobo series | 0.44 | <0.05 |
| ko00600 | Sphingolipid metabolism | 0.22 | <0.05 |
| ko00330 | Arginine and proline metabolism | -0.16 | <0.05 |
| ko00524 | Neomycin, kanamycin and gentamicin biosynthesis | 0.06 | <0.05 |
| ko04212 | Longevity regulating pathway - worm | 0.06 | <0.05 |
| ko00642 | Ethylbenzene degradation | -0.10 | <0.05 |
| ko00592 | alpha-Linolenic acid metabolism | -0.10 | <0.05 |
| ko00052 | Galactose metabolism | 0.21 | <0.05 |
| ko05133 | Pertussis | -0.22 | <0.05 |
| ko01501 | beta-Lactam resistance | -0.23 | <0.05 |
| ko04973 | Carbohydrate digestion and absorption | 0.18 | <0.05 |
| ko03320 | PPAR signaling pathway | -0.33 | <0.05 |
| ko01200 | Carbon metabolism | -0.08 | <0.05 |
| ko00362 | Benzoate degradation | -0.35 | <0.05 |
| ko00072 | Synthesis and degradation of ketone bodies | -0.10 | <0.05 |
| ko04622 | RIG-I-like receptor signaling pathway | -0.10 | <0.05 |
| ko00281 | Geraniol degradation | -0.27 | <0.05 |
| ko04070 | Phosphatidylinositol signaling system | 0.08 | <0.05 |
| ko00521 | Streptomycin biosynthesis | 0.05 | <0.05 |
| ko04918 | Thyroid hormone synthesis | 0.11 | <0.05 |

1 Pairwise comparisons of diet group using Mann-Whitney U Test.

2 Functional pathway prediction based on Silva123 Database and showed at level 3.

3 Log2 fold differences.

4 Benjamini and Hochberg FDR correction.