**Supplemental Table 2.** KEGG level 2 and level 3 categories that varied significantly in fecal metagenomic libraries constructed from 6-week old infants delivered vaginally or by C-section. KEGG pathway identifiers are designated following “PATH:ko”.

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| --- | --- | --- |
| **KEGG Category** | | **P-value** |
| KO2: Amino Acid Metabolism | | .009 |
| KO2: Cancers | | .069 |
|  | KO3: Prostate cancer [PATH:ko05215] | .000 |
|  | KO3: Viral carcinogenesis [PATH:ko05203] | .017 |
| KO2: Carbohydrate Metabolism | | .001 |
|  | KO3: Citrate cycle (TCA cycle) [PATH:ko00020] | .043 |
|  | KO3: Fructose and mannose metabolism [PATH:ko00051] | .003 |
| KO2: Cell growth and death | | .87 |
|  | KO3: Apoptosis [PATH:ko04210] | .035 |
| KO2: Endocrine and metabolic diseases | | .014 |
|  | KO3: Type I diabetes mellitus [PATH:ko04940] | .014 |
| KO2: Endocrine system | | .047 |
|  | KO3: Insulin signaling pathway [PATH:ko04910] | .047 |
| KO2: Environmental adaptation | | .004 |
|  | KO3: Plant-pathogen interaction [PATH:ko04626] | .004 |
| KO2: Folding, sorting and degradation | | .29 |
|  | KO3: Proteasome [PATH:ko03050] | .043 |
| KO2: Infectious diseases | | .97 |
|  | KO3: Salmonella infection [PATH:ko05132] | .021 |
|  | KO3: Staphylococcus aureus infection [PATH:ko05150] | .007 |
| KO2: Lipid metabolism | | .97 |
|  | KO3: Steroid hormone biosynthesis [PATH:ko00140] | .017 |
| KO2: Membrane Transport | | .017 |
|  | KO3: ABC transporters [PATH:ko02010] | .030 |
| KO2: Metabolism of cofactors and vitamins | | .97 |
|  | KO3: Biotin metabolism [PATH:ko00780] | .036 |
| KO2: Metabolism of other amino acids | | .030 |
|  | KO3: Selenocompound metabolism [PATH:ko00450] | .030 |
| KO2: Metabolism of Terpenoids and Polyketides | | .017 |
|  | KO3: Geraniol degradation [PATH:ko00281] | .007 |
| KO2: Signal transduction | | .97 |
|  | KO3: PI3K-Akt signaling pathway [PATH:ko04151] | .021 |
| KO2: Xenobiotics Biodegradation and Metabolism | | .002 |
|  | KO3: Dioxin degradation [PATH:ko00621] | .045 |
|  | KO3: Polycyclic aromatic hydrocarbon degradation [PATH:ko00624] | .002 |