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| **Supplemental Table 3.** PICRUSt-predictedKEGG pathways significantly associated with TGFβ2 (FDR adjusted p-value<0.05). Pathways are ordered by direction of association and effect size. |
| **KEGG Pathway** | **Estimate\*** | **FDR-adjusted p-value** |
| **Positive Association with TGFβ2** |
| Metabolism |  Lipid Metabolism |  Steroid biosynthesis | 3.13 | 8.56E-06 |
| Metabolism |  Lipid Metabolism |  Fatty acid elongation in mitochondria | 3.13 | 1.07E-02 |
| Metabolism |  Biosynthesis of Other Secondary Metabolites |  Caffeine metabolism | 3.07 | 2.90E-03 |
| Organismal Systems |  Endocrine System |  Renin-angiotensin system | 2.96 | 6.49E-07 |
| Metabolism |  Biosynthesis of Other Secondary Metabolites |  Flavonoid biosynthesis | 2.37 | 2.40E-13 |
| Organismal Systems |  Immune System |  Fc gamma R-mediated phagocytosis | 2.35 | 2.90E-03 |
| Organismal Systems |  Endocrine System |  GnRH signaling pathway | 2.35 | 2.90E-03 |
| Cellular Processes |  Transport and Catabolism |  Endocytosis | 2.35 | 2.90E-03 |
| Human Diseases |  Immune System Diseases |  Systemic lupus erythematosus | 2.30 | 1.78E-05 |
| Organismal Systems |  Environmental Adaptation |  Circadian rhythm - plant | 2.16 | 6.30E-05 |
| Human Diseases |  Neurodegenerative Diseases |  Parkinson's disease | 1.57 | 6.06E-05 |
| Organismal Systems |  Circulatory System |  Cardiac muscle contraction | 1.57 | 6.06E-05 |
| Human Diseases |  Infectious Diseases |  Shigellosis | 1.55 | 2.90E-03 |
| Organismal Systems |  Endocrine System |  Melanogenesis | 0.99 | 1.34E-07 |
| Metabolism |  Biosynthesis of Other Secondary Metabolites |  Betalain biosynthesis | 0.99 | 1.34E-07 |
| Human Diseases |  Cardiovascular Diseases |  Hypertrophic cardiomyopathy (HCM) | 0.99 | 9.73E-279 |
| Metabolism |  Biosynthesis of Other Secondary Metabolites |  Isoflavonoid biosynthesis | 0.93 | 3.62E-150 |
| Human Diseases |  Infectious Diseases |  Influenza A | 0.42 | 2.32E-02 |
| Human Diseases |  Cancers |  Small cell lung cancer | 0.42 | 2.32E-02 |
| Human Diseases |  Infectious Diseases |  Toxoplasmosis | 0.42 | 2.32E-02 |
| Human Diseases |  Cardiovascular Diseases |  Viral myocarditis | 0.42 | 2.32E-02 |
| Cellular Processes |  Cell Growth and Death |  p53 signaling pathway | 0.42 | 2.32E-02 |
| Human Diseases |  Cancers |  Colorectal cancer | 0.42 | 2.32E-02 |
| Cellular Processes |  Cell Growth and Death |  Meiosis - yeast | 0.04 | 0.00E+00 |
| **Negative Association with TGFβ2** |
| Human Diseases |  Infectious Diseases |  Vibrio cholerae infection | -1.34 | 1.54E-03 |
| Metabolism |  Lipid Metabolism |  alpha-Linolenic acid metabolism | -0.71 | 1.67E-02 |
| Human Diseases |  Infectious Diseases |  Pertussis | -0.66 | 1.84E-02 |
| Metabolism |  Metabolism of Terpenoids and Polyketides |  Biosynthesis of siderophore group nonribosomal peptides | -0.63 | 2.59E-02 |
| \**Difference in log mean abundance for a 1-unit increase in log(TGFβ2).* |