**Additional file 6: Table S3.** The common differential metabolic pathways with differential metabolites ≥ 2 in ESI+ or ESI− mode during *Toxocara canis* infection in Beagle dogs at 24 hpi, 10 dpi and 36 dpi.

|  |  |  |
| --- | --- | --- |
| Ion mode | Metabolic pathways | Number of enriched metabolites in a pathway |
| 24 hpi | 10 dpi | 36 dpi |
| ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(+)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−)ESI(−) | Metabolic pathwaysSteroid hormone biosynthesisPrimary bile acid biosynthesisSerotonergic synapseBile secretion2-Oxocarboxylic acid metabolismBiosynthesis of unsaturated fatty acidsFerroptosisArginine and proline metabolismUbiquinone and other terpenoid-quinone biosynthesisPorphyrin and chlorophyll metabolismBiosynthesis of amino acidsInflammatory mediator regulation of TRP channelsTerpenoid backbone biosynthesisNeomycin, kanamycin and gentamicin biosynthesisNeuroactive ligand-receptor interactionPurine metabolismProtein digestion and absorptionRetrograde endocannabinoid signalingProlactin signaling pathwayTaste transductionHistidine metabolismThiamine metabolismCentral carbon metabolism in cancerMetabolic pathwaysArachidonic acid metabolismSerotonergic synapsePentose and glucuronate interconversionsBile secretionCarbon metabolismGalactose metabolismAscorbate and aldarate metabolismFructose and mannose metabolismBiosynthesis of amino acidsPentose phosphate pathwayGlucagon signaling pathwayPrimary bile acid biosynthesisPurine metabolism Phenylalanine, tyrosine and tryptophan biosynthesis | 35\*914211176523242211211111271510145638244111 | 98351018841113332516422232211113241716114672721311 | 46311691323652412321122222941235122211122 |

\* Number of differentially abundant metabolites involved in metabolic pathways.