## **Microbes Module Metabolites Module** Porphyromonas.asaccharolytica, Coprobacter.sp..2CBH44, Phoenicibacter.congonensis, Propionibacterium.acidifaciens Barnesiella.viscericola **Enriched in Healthy** Treponema.sp..RCC2812, Olsenella.sp..GAM18, Dialister.massiliensis Intestinibaculum.porci 7 (6) 1-palmitoyl-2-palmitoleoyl-GPC (16:0/16:1)\* Alistipes.communis 6 sphingomyelin (d18:1/18:1, d18:2/18:0), sphingomyelin (d18:1/14:0, d16:1/16:0)\*, sphingomyelin (d18:2/24:1, d18:1/24:2)\*, N-stearoyl-sphingadienine (d18:2/18:0)\* Lautropia mirabilis, Trueperella, pyogenes 1-palmitoleoyl-2-linolenoyl-GPC (16:1/18:3)\*, sphingomyelin (d17:1/14:0, d16:1/15:0)\*, lactosyl-N-nervonoyl-sphingosine (d18:1/24:1)\*, 1,5-anhydroglucitol (1,5-AG), lactosyl-N-nervonoyl-sphingosine (d18:1/24:1)\* Clostridium.perfringens (4) 1,6-anhydroglucose, eicosenedioate (C20:1-DC)\* Bacteroides.helcogenes, Blautia.sp.LZL.3, Anaerocolumna.sp..CTTW (3) Bacteroides.fragilis Phocaeicola.coprophilus, Prevotella.copri, Bifidobacterium.animalis **Enriched in Cirrhosis** 7 1-ribosyl-imidazoleacetate\*, 2-oleoylglycerol (18:1), indoleacetylglutamine 4) 2-O-methylascorbic acid, 7-methylguanine, 2,3-dihydroxy-2-methylbutyrate, 2S,3R-dihydroxybutyrate, 4-hydroxyhippurate 1-myristoylglycerol (14:0), palmitoyl-linoleoyl-glycerol (16:0/18:2) [2]\*, 2-linoleoylglycerol (18:2) Taurolithocholate, taurocholenate sulfate\*, 4-hydroxycoumarin, glutamine