

Supplementary Table S7 (with Figure 4). Metabolites changed in relation to time point of sampling

Changed at all timepoints (31 metabolites)	Changed in early and intermediate sampling experiments (38 metabolites)	Changed in early and late sampling experiments (10 metabolites)
<u>Acylcarnitines</u> Hexanoylcarnitine (6:0) Octanoylcarnitine (8:0) Decanoylcarnitine (10:0) Decenoylcarnitine (10:1) Dodecanoylcarnitine (12:0) <u>Fatty acids</u> Tetradecanoate (14:0) 9-Tetradecenoate (14:1n5) Hexadecenoate (16:1n7) Octadecenoate (18:1) Linoleate (18:2) Linolenate (18:3n3) Octadecatetraenoate (18:4n3) Eicosenoate (20:1) Dihomo-linoleate (20:2n6) Dihomo-linolenate (20:3n3 or n6) Eicosapentaenoate (20:5n3) Docosadienoate (22:2n6) Docosapentaenoate (22:5n3) Docosahexaenoate (22:6n3) Dodecanedioate (12:0) Tetradecanedioate (14:0) Hexadecanedioate (16:0) Heptadecanoate (17:0) 10-Heptadecenoate (17:1n7) 10-Nonadecenoate (19:1n9) <u>Ketone bodies</u> 3-Hydroxybutyrate Acetoacetate <u>Glycerophospholipids</u> 1-Palmitoyl-GPE (16:0) 1-Oleoyl-GPE (18:1) 1-Arachidonoyl-GPE (20:4n6) <u>Bile acids</u> Cholate	<u>Acylcarnitines</u> Tetradecanoylcarnitine(14:0) Myristoleoylcarnitine (14:1) Oleoylecarnitine (18:1) Linoleoylcarnitine (18:2) <u>Fatty acids</u> Decanedioate (10:0) Dodecanoate (12:0) 5-Dodecenoate (12:1n7) Pentadecanoate (15:0) Linoleate (18:2) a or g Docosatrienoate (22:3) 9-Heptadecanoate (17:0) 3-Hydroxydecanoate 3-Hydroxydodecanoate 3-Hydroxydecanedioate Hexanoylglycine <u>Ketone bodies</u> 2-Hydroxybutyrate <u>TCA cycle intermediates</u> Itaconate Malate Aconitate <u>Steroids</u> 11b-Hydroxyandrost-4-ene-3,17-dione Cortisone <u>Amino acids</u> 2-Aminoadipate 3-Aminoisobutyrate Aniline Alanine Choline Isoleucine Leucine Proline Lysine Methionine Ornithine Phenylalanine Tyrosine Valine <u>Carbohydrate metabolism</u> Glycerol <u>Vitamins & Cofactors</u> Niacinamide Xenobiotics Benzoate	<u>Acylcarnitines</u> Isovalerylcarnitine <u>Fatty acids</u> Octadecanedioate (18:0) <u>Glycerophospholipids</u> 2-Linoleoyl-GPE <u>Amino acids</u> 4-Hydroxyphenylpyruvate N-acetylphenylalanine <u>Bile acids</u> Glycochenodeoxycholate Glycocholate Glycodeoxycholate Taurocholate Taurodeoxycholate

Changed in early sampling experiments only (44 metabolites)	Changed in intermediate sampling experiments only (26 metabolites)	Changed in late sampling experiments only (1 metabolites)
<u>Acylcarnitines</u> Acetylcarnitine (2:0) Propionylcarnitine (3:0) Butyrylcarnitine (4:0) Pentanoylcarnitine (5:0) Octenoylcarnitine (8:1) Nonanoylcarnitine (9:0) Dodecenoylcarnitine (12:1) Tetradecanoylcarnitine (14:0) Tetradecenoylcarnitine/isomer (14:1) Arachidonoylcarnitine (20:6-Keto-decanoylcarnitine <u>Amino acids</u> Arginine Arginosuccinate Aspartate Betaine Citrulline Glutamate Glutamine Glycine Histidine Kynurenate Pyrrole-2-carboxylate O-acetyl-l-homoserine Serine Threonine Tryptophan 5-Hydroxyindolepyruvate Hydroxyphenyllactate Taurine Uridine Urocanate <u>Fatty acids</u> Hydroxypentanoate Hexadecanedioate monocarnitineester <u>Carbohydrate metabolism</u> Glucose Lactate Rhamnose or isomer <u>TCA cycle intermediates</u> Citrate Succinate Pyruvate <u>Nucleotides</u> Hypoxanthine <u>Vitamins and Cofactors</u> Gamma-tocopherol <u>Ketone bodies</u> 2-Oxoisocaproate <u>Steroids</u> Cholestane-tetrol-glucuronide	<u>Fatty acids</u> Octanoate (8:0) Octadecanoate (18:0) Hexadecanoate (16:0) Docosanoate (22:0) <u>Nucleotides</u> Cytidine Inosine Urate N2-N2-Dimethylguanosine N6-Methyladenosine <u>Amino acid & peptides</u> 3-Hydroxy-3-methylglutarate 3-Hydroxytetradecanedioate 3-Hydroxytryptophan Beta-alanine Creatinine Glycyl-L-leucine <u>Carbohydrate metabolism</u> Myo-inositol <u>Xenobiotics</u> Acesulfame Erythritol Quinate Gluconate <u>Glycerophospholipids</u> Sphingosine-1-phosphate <u>Bile acids</u> Glycochenodeoxycholate glucuronide Tauroolithocholate-3-sulfate <u>Steroids</u> Androsteroid monosulfate Androstenediol (3a, 17a) monosulfate Etiocholanolone glucuronide	<u>Ketone bodies</u> 3-Hydroxyisobutyrate

