Figure S: (1) Heatmap of hierarchical clustering analysis for group WT vs Model. (2) Heatmap of hierarchical clustering analysis for group Model vs CRD. The horizontal axis in the figure represents different experimental groups, the vertical axis represents the differential metabolites compared in the group, the color blocks at different positions represent the relative expression levels of corresponding metabolites, the red color indicates high expression of the substance in the group, and the blue color indicates low expression of the substance in the group.

Figure S1: Heatmap of hierarchical clustering analysis for group WT vs Model
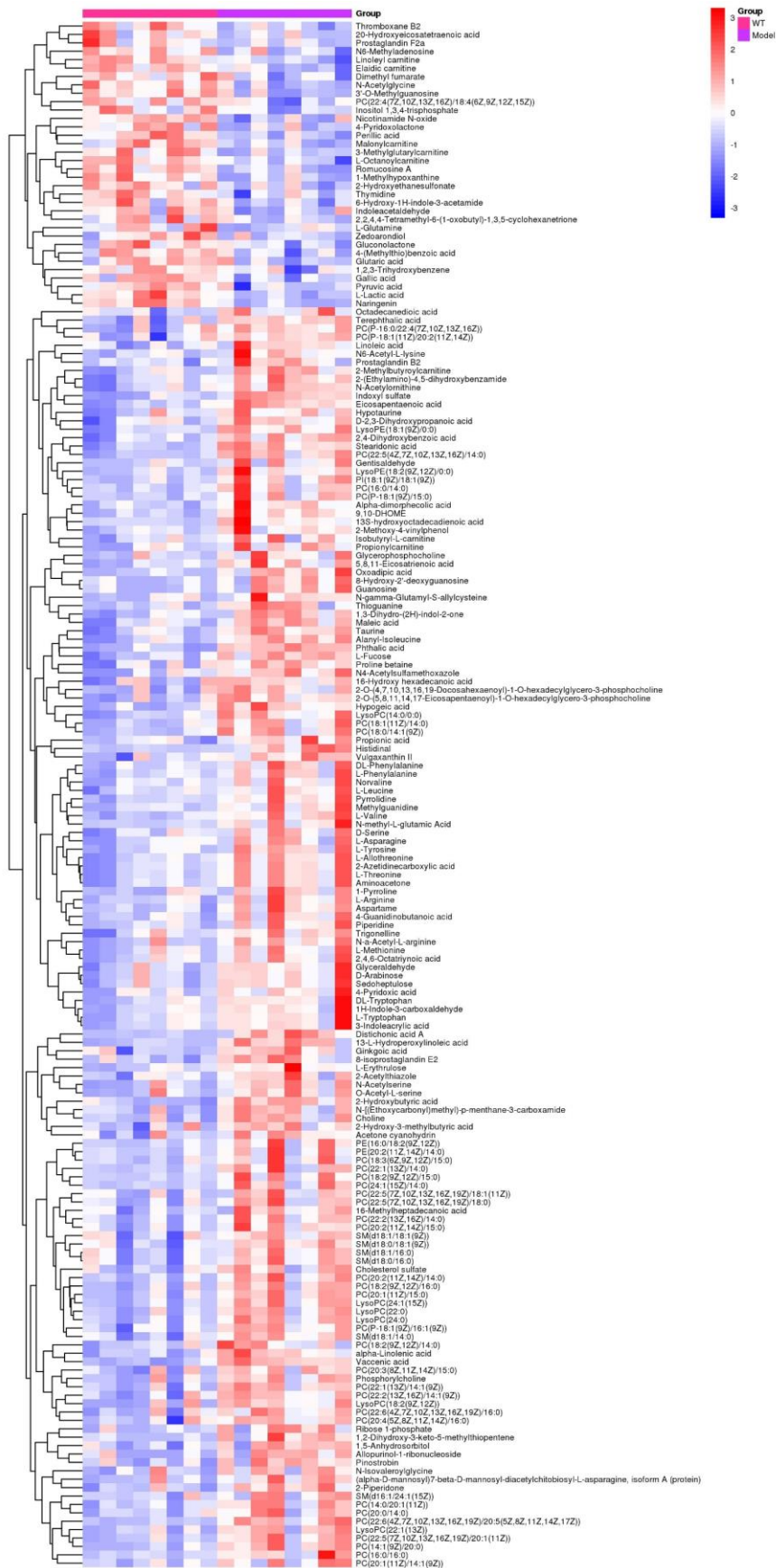
Figure S2: Heatmap of hierarchical clustering analysis for group Model vs CRD

Group
- Model
- CRD

PI(20:3(5Z,8Z,11Z)/18:1(11Z))
PE(P-18:1(11Z)/22:4(7Z,10Z,13Z,16Z))
D-Pantothenic acid
1-Aminopropan-2-ol
Daidzin
Thymidine
6-Hydroxy-1H-indole-3-acetamide
Nicotinamide N-oxide
1-Methylnicotinamide
Palmitic acid
Mesylate
N-Acetylgalactosamine 6-sulfate
L-Phosphoarginine
N2-Oxalylarginine
2-Hydroxyethanesulfonate
Perillic acid
3-Methylglutarylcarnitine
Gallic acid
Inositol 1,3,4-trisphosphate
Ginkgoic acid
3,4,5-Trimethoxycinnamic acid
Andrographolide
Dehydrocholic acid
Daidzein 4'-O-glucuronide
Daidzein
Rhein
Sedoheptulose 7-phosphate(2-)
Vanillactic acid
Sakuranetin
L-Glutamine
N-Acryloylglycine
(R)-lipoic acid
PC(P-18:1(9Z)/16:1(9Z))
2-O-(4,7,10,13,16,19-Docosahexaenoyl)-1-O-hexadecylglycero-3-phosphocholine
16-Hydroxy hexadecanoic acid
LysoPE18:1(9Z)/0:0)
PC(22:2(13Z,16Z)/14:1(9Z))
1-(gamma-Glutamylamino)cyclopropanecarboxylic acid
N-[(Ethoxycarbonyl)methyl]-p-menthane-3-carboxamide
Choline
MethylIndole-3-acetate
3-Hydroxydecanoic acid
13-L-Hydroperoxylinoleic acid
Maleic acid
Allantoin
1,3-Dihydro-(2H)-indol-2-one
Proline betaine
N-Acetylserine
O-Acetyl-L-serine
Cytidine
Cytosine
L-Erythrulose
Itaconic acid
trans-Aconitic acid
Valyl-Lysine
2-Acetylthiazole
Piceatannol 4'-galloylglucoside
Allopurinol-1-ribonucleoside
Hypoxanthine
Oxypurinol
Anserine
PC(22:5(4Z,7Z,10Z,13Z,16Z)/20:5(5Z,8Z,11Z,14Z,17Z))
Methylmalonic acid
PC(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/18:1(11Z))
Hypogeic acid
Methyl hippurate
3-Hydroxybenzoic acid
N-gamma-Glutamyl-S-allylcysteine
PC(16:0/14:0)
Pyro-glutaminyl-L-glutamine
PE(16:0/18:2(9Z,12Z))
PC(18:3(6Z,9Z,12Z)/15:0)
Aspartame
Imidazole-4-acetaldehyde
L-Hypoglycin A
alpha-Ketocaproic acid
2-Piperidone
Isobutyryl-L-carnitine
Propionylcarnitine
4-Trimethylammoniobutanoic acid
2-(Ethylamino)-4,5-dihydroxybenzamide
N-Acetylornithine
2-Methylbutyroylcarnitine
Acetone cyanohydrin
Eicosapentaenoic acid
Phenyllactic acid
Hepoxilin B3
2-Methoxy-4-vinylphenol
Alpha-dimorphecolic acid
9,10-DHOME
13S-hydroxyoctadecadienoic acid
Pyrimidine
Glycine
Hypotaurine
PC(18:2(9Z,12Z)/14:0)
Stearidonic acid
12-HEPE
8-isoprostaglandin E2
2-Hydroxybutyric acid
Phthalic acid
2-Hydroxy-3-methylbutyric acid
2-Ethyl-2-Hydroxybutyric acid
L-Aspartic acid
2-Methylpiperidine
Kynurenic acid
5-Methylcytosine
Alanyl-Isoleucine
L-Allothreonine
L-Tyrosine
DL-Phenylalanine
L-Phenylalanine
Norvaline
Pyrrolidine
N-Acetyl-L-phenylalanine
Butylamine
PC(20:3(8Z,11Z,14Z)/15:0)
2,4-Dihydroxybenzoic acid
1-Methyl-L-Histidine
8-Hydroxy-2'-deoxyguanosine
Guanosine
LysoPC(22:1(13Z))
PC(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/20:1(11Z))
Taurine
Indolelactic acid
N-TRANS-CINNAMOYLGLYCINE
L-Fucose
(alpha-D-mannosyl)7-beta-D-mannosyl-diacetylchitobiosyl-L-asparagine, isoform A (protein)
1,2-Dihydroxy-3-keto-5-methylthiopentene
Histidinal
N-Isovaleroylglycine
Trimethylaminoacetone
(2E)-Decenoyl-ACP
L-Pipecolic acid
Serotonin
PC(22:5(7Z,10Z,13Z,16Z,19Z)/18:2(9Z,12Z))
PC(20:3(8Z,11Z,14Z)/14:0)
PC(18:1(11Z)/14:0)
PC(18:0/14:1(9Z))
LysoPC(16:1(9Z)/0:0)
LysoPC(14:0/0:0)
PC(20:4(5Z,8Z,11Z,14Z)/16:0)
LysoPC(22:0)
LysoPC(24:0)
PC(20:2(11Z,14Z)/14:0)
PC(18:2(9Z,12Z)/16:0)
PC(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/20:5(5Z,8Z,11Z,14Z,17Z))
PC(24:1(15Z)/14:0)
L-Valine
PC(22:5(7Z,10Z,13Z,16Z,19Z)/20:1(11Z))
PC(14:1(9Z)/20:0)
N-a-Acetyl-L-arginine
PC(22:5(4Z,7Z,10Z,13Z,16Z)/14:0)
LysoPC(24:1(15Z))
PC(14:0/20:1(11Z))
PC(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/16:0)
PC(22:5(7Z,10Z,13Z,16Z,19Z)/16:1(9Z))
PC(20:1(11Z)/15:0)
3-Hydroxyisovalerylcarnitine
Methylmalonic acid semialdehyde
Oxidized-adrenal-ferredoxin
L-Carnitine