

Table S1 Compositions and ingredients of the diet

Ingredients	Content (%)	
	basal diet	high n-6 PUFAs
Corn	72.30	62.50
Soybean meal	22.00	14.00
full-fat soybean	0.00	15.00
Soybean oil	1.56	4.17
Dicalcium phosphate	1.20	1.34
Limestone	0.90	0.90
Salt	0.40	0.40
Lysine	0.43	0.45
Methionine	0.06	0.08
Threonine	0.12	0.13
Choline chloride	0.03	0.03
Premix ¹	1.00	1.00
Total	100.0	100.0
Nutrient levels ²		
Metabolizable energy, Mcal/kg	3.20	3.42
Crude fat	5.09	7.82
Crude protein	17.57	18.71
Lysine	0.98	1.06
Methionine	0.28	0.31
Threonine	0.60	0.63
Tryptophan	0.18	0.19
Calcium	0.66	0.71
Available phosphorus	0.26	0.28
Sodium	0.17	0.17
Chlorine	0.27	0.27

¹ Provided the following per kilogram of diet: Fe, 140 mg; Cu, 25 mg; Mn, 35 mg; Zn, 80 mg; Se, 0.4 mg; I, 0.5 mg; vitamin A, 10, 000 IU; vitamin D, 3, 3000 IU; vitamin E, 63 mg; vitamin K3, 3 mg; vitamin B1, 3 mg; vitamin B2, 9.6 mg; vitamin B6, 4.5 mg; vitamin B12, 0.04 mg; niacin, 36 mg; d-pantothenic acid, 30 mg; d-biotin, 0.24 mg; and folate, 1.8 mg.

² Crude fat and crude protein were analyzed values, and the rest were calculated values.

Table S2 The qRT-PCR primer sequences used in this study

Gene ¹	Primer sequence (5'-3')	Accession number
β-actin	F: GGCACCACACCTTCTACAACGAG	XM_003124280.5
	R: TCATCTTCTCACGGTTGGCTTTGG	
IL-1β	F: GCCAACGTGCAGTCTATGGAGTG	NM_214055.1
	R: GGTGGAGAGCCTTCAGCATGTG	
IL-4	F: CCAGAGAACACGACGGAGAAGG	NM_214256.1
	R: TGCCATGCTGCTCAGGTTCC	
IL-10	F: CGGCCAGTGAAGAGTTTCT	NM_214041.1
	R: TGCCTTCGGCATTACGTCTT	
TNF-α	F: GCACTGAGAGCATGATCCGAGAC	NM_214022.1
	R: CGACCAGGAGGAAGGAGAAGAGG	
MUC2	F: TCCCAGGTCGAGTACATCCT	XM_021082584.1
	R: CTATAGTGCGGGGGGTGCTGAC	
MUC4	R: GGAAGTGTGAGCAGTGGAAGTTG	XM_021068273.1
	R: TCTCAGCAGCGTCTATACTGGTCTC	

Table S3 Analysis of all differential metabolites between the three groups

CON vs. CL

Upregulated

Asparaginy-Phenylalanine	PG(i-24:0/20:3(5Z,8Z,11Z)-O(14R,15S))	cis-3-Decene
3-Hydroxynorvaline	28-Glucosyloleanolic acid 3-[arabinosyl-(1->2)-6-methylglucuronide]	Rumenic acid
Deoxyribose	CL(8:0/11:0/11:0/11:0)	Galactosyl 4-hydroxyproline
3-Dehydroquinic acid	Dehydroxypaxilline	L-2-Aminoethyl seryl phosphate
dioxybenzone	PE-NMe2(22:4(7Z,10Z,13Z,16Z)/22:5(4Z,7Z,10Z,13Z,16Z))	3,6-Nonadienal
Olprinone	PI(18:0/PGF2alpha)	3-Palmitoylcatechin
Lividomycin A	PS(22:1(13Z)/16:0)	Prallethrin
D-Glucono-1,5-lactone 6-phosphate	PI(16:0/PGF1alpha)	3-ketosphingosine
2',4-Dihydroxy-4',6'-dimethoxychalcone	Hydroxyspheroidenone	gamma-CEHC glucuronide
2,5-Diamino-6-(5-phospho-D-ribitylamino)pyrimidin-4(3H)-one	SM(d16:2(4E,8Z)/23:0)	Estreptoquinasa
L-Leucine	SM(d18:1/PGF2alpha)	Ecklonialactone A
Vanillic acid 4-O-sulfate	PA(PGJ2/24:0)	Docosatrienoic Acid
Guanosine	geneticin	1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Inosine	5-Isopropyl-2-(2-methylpropyl)-2-cyclohexen-1-one	1-H-Inden-1-one,2,3-dihydro-3,3,5,6-tetramethyl
5-(2'-Formylethyl)-4,6-dihydroxypicolinate	Tetradecanedioic acid	Isoleucylhydroxyproline
Imidazole-4-acetate	Adynerin	3,4-Dihydroxy-2-methoxy-4-methyl-3-[2-methyl-3-(3-methyl-but-2-enyl)-oxiranyl]-cyclohexanone
Pantothenol	PA(24:0/20:3(8Z,11Z,14Z)-2OH(5,6))	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine
6-Hydroxy-3,4-dihydro-2(1H)-quinolinone	Goshuyic acid	VIQUALINE
16-phenoxy tetranor Prostaglandin A2	Antroquinonol	2alpha-Fluoro-17beta-hydroxyandrost-4-en-3-one
PA(8:0/PGE2)	Capsaicin	15(R)-PGF2 伪
Fallypride	2,4-Decadienamide,5-(4-methoxyphenyl)-N-[(1R)-1-methyl-4-(3-pyridinyl)butyl]-, (2E,4E)-	Illicifolinoside A
Isopentyl gentiobioside	DG(10:0/TXB2/0:0)	Arg Pro Lys
Hydromorphone-3-glucoside	(6E,8R,10Z)-8-hydroxy-3-oxohexadecadienoic acid	Glycocholic Acid
PE(18:3(6Z,9Z,12Z)/PGJ2)	2-Hydroxymyristic acid	PI(20:1(11Z)/20:3(8Z,11Z,14Z)-2OH(5,6))
N(2)-phenylacetyl-L-glutamate	Nebramine	(-)-5-(2-Propenyl)-2-oxazolidinethione
Neoisomidecamycin	5-Hydroxytrideca-8,11-dienoylcarnitine	Deoxycholylicitrulline
PGP(a-21:0/PGJ2)	Dextilidine	Pro Lys Leu Ser
N-Acetyl-DL-methionine	1-Dodecylimidazole	PI(20:4(5Z,8Z,11Z,14Z)/20:0)
CDP-DG(i-22:0/a-21:0)	Cadin-9-en-1-ol	PS(20:4(6Z,8E,10E,14Z)-2OH(5S,12R)/22:0)
Pro-Pro-Phe	Tetranorprostanedioic acid	(真)16-HDoHE
Topiramate	trans-Jasmone	Lysyltryptophan
4,1-Benzoxazepine	9-Decenoylcholine	Nebracetam
2,4-Quinolinediol	N-palmitoyl-phosphoethanolamine	5,8-Dimethoxychalepensis
Glucuronolactone	L-Proline, 1-(1-L-leucyl-L-prolyl)-	5(S),11(R)-DiHETE
Chymostatin	Prostaglandin A2	Primaquine
beta-Neendorphin	Dimethylsphingosine	Ciclesonide

3-Aminocaproic acid	Diplodiatoxin	Arginyllysine
Articainic acid	Phorbol myristate	Sarcodon scabrosus Depsipeptide
3-Butyn-2-amine, 2-methyl-	Epoxysiderol	(+)-Lysergic acid
N-Carboxyacetyl-D-phenylalanine	Saponin H	16-phenoxy tetranor PGF2 伪 cyclopropyl methyl amide
N-Formylmethionine	PS(24:0/20:4(5Z,8Z,11Z,14Z)-OH(20))	7-oxo-11E,13-Tetradecadienoic acid
INDOLE-3-CARBINOL	PG(i-20:0/20:4(5Z,8Z,11Z,14Z)-OH(20))	B-Octylglucoside
Indole	11'-Carboxy-alpha-tocotrienol	Phenazocine
3'-Deoxyderhamnosylmaysin	Cer(d18:2(4E,14Z)/6 keto-PGF1alpha)	2-[Octahydro-4,7-dimethyl-1-oxocyclopenta[c]pyran-3-yl]nepetalactam
Cysteinyl-Proline	1-Stearoyl-2-Docosahexaenoyl-sn-Glycero-3-[Phospho-rac-(1-glycerol)]	Stachyflin
Tropine	PS(24:0/18:1(12Z)-O(9S,10R))	methoxycatecholamine
N(tele)-methylhistaminium	(Z)-7-Hexadecen-1,16-olide	2-(1,3-Benzodioxol-5-yl)-3,5,6,8-tetramethoxy-7-[(3-methyl-2-butenyl)oxy]-4H-1-benzopyran-4-one
11-Hydroxyprogesterone 11-glucuronide	9-Hydroxy-12-oxo-10(E),15(Z)-octadecadienoic acid	3-Hydroxypregn-4-en-20-one
Tryptophyl-Gamma-glutamate	Methoprene acid	Glycohyocholate
Norfuraneol	Hexadecanedioic acid	Cytochalasin B
Tragopogonsaponin D	12(S)-HpEPE	Cyclohexenyl
2-Hydroxyglutaric acid lactone	13(S)-HODE	Tetralin
2,6,6-Trimethyl-2-cyclohexene-1,4-dione	19-Norandrosterone	1-Methyl-2-propylbenzene
Oxiracetam	LysoPE(0:0/18:2(9Z,12Z))	Edrophonium
Aminochrome o-semiquinone	1,25-Dihydroxy-19-norvitamin D3	L-2-Amino-3-methylenehexanoic acid
Nalidixic acid	PC(24:1(15Z)/22:6(5Z,7Z,10Z,13Z,16Z,19Z)-OH(4))	7,8-Diaminononanoate
4-Methoxybenzenepropanol 1-(2-sulfoglucoside)	PE-NMe(20:3(5Z,8Z,11Z)/20:1(11Z))	4-Acetoxy-2-hexyltetrahydrofuran
Suberic acid	(反)13-HpODE	2,3-Dihydroxypropyl octanoate
CDP-DG(a-13:0/20:3(5Z,8Z,11Z)-O(14R,15S))	Linoleamide	1-Deoxypentalenate
AB-Fubinaca	Dicyclomine	Histidyllysine
Pipemicidic acid	PE(18:2(9Z,12Z)/20:5(5Z,8Z,11Z,14Z,17Z))	Lotusine
Baicalin	9(R)-HETE	Prostaglandin D1
Swainsonine	Palatinose	Deoxycholic acid glycine conjugate
Fibrin	20-Dihydrodyrogesterone	PC(20:0/PGD1)
Aminophenetole	2,22-Dideoxy-3-dehydroecdysone	Sodium glycochenodeoxycholate
Glutaminy-Gamma-glutamate	(13R,14R)-8-Labdene-13,14,15-triol	PS(PGF1alpha/22:2(13Z,16Z))
Decarbamoylneosaxitoxin	MG(24:6(6Z,9Z,12Z,15Z,18Z,21Z)/0:0/0:0)	Leridol
Nabumetone	11-deoxy-PGE1	Glycyl-l-histidyl-l-lysine
Paeonimetabolin I	LysoPE(0:0/18:1(11Z))	Absinthin
2-Hydroxy-lauroylcarnitine	PE(18:1(11Z)/20:0)	Aab(1) avermectin
2-Methyl-4-(pyridin-3-ylethynyl)thiazole	9,10-Epoxyoctadecanoic acid	Streptomycin
5-Methylthiopentanaldoxime	PE-NMe2(18:1(11Z)/20:1(11Z))	Momordicoside B
Jasmonic acid	Palmitoylglycine	Anomurine
Goshonoside F6	trans-16-Octadecenoic acid	Lysergic acid
Nartograstim	20-Hydroxy-6Z,15Z-eicosadienoic acid	Anhydrocinnzeylanol
AzIV	Dehydrophytosphingosine	PC(20:5(5Z,8Z,11Z,14Z,17Z)/PGF1alpha)
Peperinic acid	Boviquinone 4	12-oxo-5E,8E,10Z-dodecatrienoic acid

5-Amino-5-(4-hydroxybenzyl)-6-(D-ribitylimino)-5,6-dihydrouracil	Androsterone glucuronide	Didesmethylimipramine
Brefeldin A	MEDICA 16	(E)-2-methyl-4-((3aS)-1-methyl-2,3,8,8a-tetrahydropyrrolo[2,3-b]indol-3a(1H)-yl)but-2-en-1-ol
2"-N-Acetyl-6"-deamino-6"-hydroxyneomycin C	isopimaric acid	Ipomeamaronol
Dibutyl malate	3b,15b,17a-Trihydroxy-pregnenone	Lilopristone
Ancymidol	PE(18:0/18:1(12Z)-O(9S,10R))	5alpha-Pregnan-20alpha-ol-3-one
2-Hydroxy-2,4-pentadienoate	4-Oxoretinol	PI(22:5(7Z,10Z,13Z,16Z,19Z)/PGD1)
Toluene-cis-dihydrodiol	Hexadecanoic acid	Lysyl-aspartyl-glutamyl-leucine
7-Hydroxy-3-(3-hydroxy-4-methoxybenzyl)-5-methoxy-4-chromanone	Glycylhydroxyproline	Hexadecyl Acetyl Glycerol
Neocasomorphin (1-5)	(4E,7E,10Z,13E,16E,19E)-docosa-4,7,10,13,16,19-hexaenoic acid	Red chlorophyll catabolite
5-O-Ethyl 3-O-methyl (4S)-2,6-dimethyl-4-(3-nitrophenyl)-3,4-dihydropyridine-3,5-dicarboxylate	8,11-eicosadiynoic acid	1-(2-Furanyl)-1-pentanone
PA(8:0/5-iso PGF2VI)	Pregnanetriolone	Geranyl-hydroxybenzoate
alpha-Hydroxymetoprolol	L-Metanephrine	8-iso PGF3 伪
Baicalein	Vinaginsenoside R16	9alpha-Fluoro-11beta-hydroxy-6alpha-methylpregn-4-ene-3,20-dione
N-Acetyl-9-aminomincycline, (4R)-	1,5-Dibutyl methyl hydroxycitrate	Leu Val Arg Tyr
11,13-Dihydrotaraxinic acid glucosyl ester	Biocytin	Oleandolide
PS(18:4(6Z,9Z,12Z,15Z)/20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15))	Arginyltryptophan	Lunamarine
Osmundalactone	N-Jasmonoyltyrosine	PG(PGE2/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
Urate-3-ribonucleoside	Dicaffeoylputrescine	14-Deoxyandrographolide
Asteltoxin	P-Hydroxyhippuryl-his-leu-OH	Thromboxane B2
Oxonol	Riboflavin	Nandrolone phenpropionate
Pelubiprofen	Succinate	Ixocarpanolide
8-Azaxanthine	Sclareol	PS(15:0/PGE2)
b-D-Xylopyranosyl-(1->4)-a-L-rhamnopyranosyl-(1->2)-L-arabinose	5-N-Acetyl-7-N-(D-alanyl)-legionaminic acid	Octadecanoic acid
Blumealactone C	(S)-3-{4-[2-(5-Methyl-2-phenyl-oxazol-4-yl)-ethoxy]-phenyl}-2-propylamino-propionic acid	6E,8E,12E,14E-Hexadecatetraen-10-ynoic acid
N-Acetyl desmethyl frovatriptan	Dihydrofolate	2,4-Dimethylpyridine
N-Docosahexaenoyl Histidine	6'-Apiosyllotaustralin	L-Pipecolate
Pyranomamma C	Risperidone	(R)-1-Methylpiperidine-2-carboxylic acid
7-(1,3-Cyclohexadienyl)-5-hydroxy-2,6-dimethyl-2-hepten-4-one	Dehydroepiandrosterone sulfate	1,2-Dihydro-1,1,6-trimethylnaphthalene
Pinacidil pyridine N-oxide	17-O-acetylnorajmaline	(-)-Jasmonic acid
4-Trimethylammoniobutanoate	2,3-Dehydrosalvipisone	Dehydrocostus lactone
milbemycin alpha9	Acorafloxacin	TMB (hydrochloride hydrate)
Steviobioside	Kurarinone	Valerenolic acid
Lansiumarin C	Glucose-6-glutamate	1-Piperidinepropanol, alpha-cyclohexyl-4-(3-hydroxyphenyl)-3,4-dimethyl-

Colforsin daropate	Desacetylvindoline	3alpha,7alpha,12beta-Trihydroxy-5beta-cholanoic acid
5-Hydroxydodeca-7,9-dienoylcarnitine	S-adenosyl-L-methioninamine	PGP(18:3(6Z,9Z,12Z)/PGF1alpha)
Dodecadienoic acid	O-Demethylencaïnide	alpha-Linolenic acid
Ovalicin	Posiphen	Formylisoglutamine
Strictosidine aglycone	Moxifloxacin	L-Nicotianine
2,6 Dimethylheptanoyl carnitine	Cer(d17:1/PGF2alpha)	Methyl 4-tert-butylphenylacetate
9-Oxononanoic acid	UDP-L-rhamnose	Phytosphingosine
Menthyl pyrrolidone carboxylate	Hypromellose	9-F1-phytoprostane
15-Deacetylneosalaniol	1H-Indole-3-carboxylic acid, 1-methyl-, (1-(2-((methylsulfonyl)amino)ethyl)-4-piperidinyl)methyl ester	10-OPDA
Dihydroroseoside	latrunculin B	PGP(20:3(5Z,8Z,11Z)/PGF1alpha)
Sebacic acid	Tetrahydrofolate	6'-Sialyllactosamine
2'-Deamino-2'-hydroxyparamamine	Parsalmide	7-hydroxyoct-6-enoylglycine
N-Myristoyl Glutamic acid	Arbutin	Oblongolide
Glutathionylspermine	His Phe Val His	Lithocholic acid glycine conjugate
Menthone 1,2-glyceryl ketal	Thr Thr Phe Tyr	3-methylheptanedioylcarnitine
PI(20:4(5Z,8Z,11Z,14Z)/PGE2)	N-(Tricosanoyl)-4E,14Z-sphingadienine	1,2,3,4,5,6-Hexahydro-5-(1-hydroxyethylidene)-7H-cyclopenta[b]pyridin-7-one
5-Hydroxybuspirone	1,2-Didecanoyl-sn-glycerol	His Tyr Phe
Etimicin	2-Ethylsulfanyl-1H-benzimidazole	Glyceryl 5-hydroxydecanoate
Dodecenoylcarnitine	Mdbbp	(1S,2S,4R,5S,7S)-2,5,7-Fenchanetriol 2-O-b-D-glucoside
Undec-5-enedioylcarnitine	PC(24:1(15Z)/PGF2alpha)	N6-Ethanimidoyl-D-lysine
(6beta,7alpha,12beta,13beta)-7-Hydroxy-11,16-dioxo-8,14-apianadien-22,6-olide	3-hydroxybenzoic acid-3-O-sulphate	Styrene
PI(22:4(10Z,13Z,16Z,19Z)/PGF2alpha)	Feruloylputrescine	3,7-Dihydroxytetradecanoylcarnitine
(2s)-2-[[[(2s)-2-Acetamido-5-[[n-(Methylcarbamoyl)carbamimidoyl]amino]pentanoyl]-Methyl-Amino]-3-Phenyl-Propanoic Acid	Guanidine, N-((2S,3S,4R)-6-amino-2-(dimethoxymethyl)-3,4-dihydro-3-hydroxy-2-methyl-2H-1-benzopyran-4-yl)-N'-cyano-N''-(phenylmethyl)-	3-[[[3-Methoxy-5-(1H-pyrrol-2-yl)pyrrol-2-ylidene]methyl]-1,4-dimethyl-4,5,6,7-tetrahydro-2H-isoindole
2-Hydroxydodeca-4,6-dienoylcarnitine	Gamma glutamyl ornithine	Arginylhydroxyproline
N-Formyl-4-amino-5-aminomethyl-2-methylpyrimidine	Taribavirin	Prodigiosin
Donepezil	PE(TXB2/14:1(9Z))	(-)-trans-Carveol glucoside
Pectachol	5-Ribosylparamamine	11,14,15-THETA
Cerivastatin	p-CHLOROPHENYLALANINE	N-Eicosapentaenoyl Phenylalanine
alpha-Turmerone	Aminoethylcysteine ketimine	Erythromycin C
Humulenol I	Cardiogenol C	PE(20:4(8Z,11Z,14Z,17Z)/22:2(13Z,16Z))
5,7-Megastigmadien-9-ol glucoside	alpha-((2,3-Dimethyl-1-aziridinyl)methyl)-2-nitro-1H-imidazole-1-ethanol	Gly Trp Ile
N-[2-(3,5-Dioxopiperazino)propyl]-N-(2-amino-2-oxoethyl)glycine	3-(4-Iodophenyl)-2-mercapto-(Z)-2-propenoic acid	Toluene
Cholyasparagine	GDC-0834 Racemate	N(6)-Methyllysine
Ethyl 7-epi-12-hydroxyjasmonate glucoside	Lividamine	N6-Acetyl-N6-hydroxy-L-lysine
Sorbitan palmitate	2-(3-Carboxy-3-(methylammonio)propyl)-L-histidine	cis-6-Nitro-p-mentha-1(7),2-diene
Lavoltidine	Allosamidin	3,4-Dihydrocadalene
Genistein	Mozenavir	(Z)-alpha-Bergamotenoic acid

Cerulenin	Flobetair	3,4-Dimethyl-5-pentyl-2-furanpropanoic acid
Verapamil	[(2R)-Oxiran-2-yl]methyl 2-methylprop-2-enoate	Phencyclidine
Ganoderenic acid A	Ttatpn	12-Oxo-2,3-dinor-10,15-phytodienoic acid
Isobutylxanthine	5,9,11-trihydroxyprosta-6E,14Z-dien-1-oate	12-OPDA
	Thr His Phe His	9,10,13-Trihydroxystearic acid
Small bacteriocin	PIP(20:3(5Z,8Z,11Z)/PGE2)	17(18)-EpETE
PI(22:2(13Z,16Z)/6 keto-PGF1alpha)	PS(20:5(5Z,8Z,11Z,14Z,17Z)/20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15))	HT-2 Toxin
6-Hydroxynon-7-enoylcarnitine	Tropolone	Chenodeoxycholic Acid
Bargustanine	(+)-Carbovir	Lansioside C
MG(0:0/14:1(9Z)/0:0)	Thr Trp Tyr Gln	PC(16:0/PGD2)
Rimiterol	Rebaudioside B	methyl 2-Pyrimidine Carboxylate
PC(P-18:1(11Z)/LTE4)	cis-1,2-Dihydrobenzene-1,2-diol	Oleoyl glycine
Cucurbitic acid	Dakh peptide	14(15)-EET-d11
CAY10598	herbimycin a	Premazepam
N-[(3a,5b,7b)-7-hydroxy-24-oxo-3-(sulfooxy)cholan-24-yl]-Glycine	Isopentenyladenine-9-N-glucoside	2-Hydroxypropyl 2-isopropyl-5-methylcyclohexyl carbonate
PA(20:1(11Z)/PGF1alpha)	Neuromedin B (4-10)	17alpha-Trenbolone
13(S)-HpOTrE	Satratoxin G	Baikiain
4-(Dodecylamino)Phenol	Andersoline	Aethusin
CAY10580	Myrigalone H	Borrerine
Furanofukinin	gamma-L-Glutamyl-butirosin B	Polyethylene, oxidized
Prodolic acid	Bms-275183	PGF2 伪 1,11-lactone
(5Z,8Z,11Z,14Z)-N-(4-Hydroxy-2-methylphenyl)-5,8,11,14-icosatetraenamide	Thr Phe Phe Phe	16b-Hydroxystanozolol
13,14-dihydro-15-keto-tetranor PGF1 尾	PGP(i-13:0/18:3(10,12,15)-OH(9))	1-(4-Hydroxyphenyl)-4,8-dimethyl-10-(2,6,6-trimethylcyclohexen-1-yl)deca-3,5,7,9-tetraen-2-one
Lycoperoside D	Primary fluorescent chlorophyll catabolite	1,5,5,8-Tetramethyl-12-thiabicyclo[9.1.0]dodeca-3,7-diene
PC(DiMe(13,5)/22:6(5Z,8E,10Z,13Z,15E,19Z)-2OH(7S,17S))	2-OH-benzyl	Gibberellin A4
N-Palmitoyl tyrosine	2-Methoxy-estradiol-17beta 3-glucuronide	Sagittoside B
(5E)-7-{4,6-Dihydroxy-2-[(1E,5E)-3-hydroxyocta-1,5-dien-1-yl]oxan-3-yl}hept-5-enoylcarnitine	2-Hydroxypropyl starch	4,4'-Methylene bis(2-methylaniline)
3-Oxotridecanoylcarnitine	Lochnerinine	Gentamicin C2
N-Linoleoyl Valine	Desglugastrin	3H-Pyrido(1,2-c)pyrimidin-3-one, 4-(2-(bis(1-methylethyl)amino)ethyl)-4,4a,5,6,7,8-hexahydro-1-methyl-4-phenyl-, trans-(+)-
SM(d19:1/PGF2alpha)	Ibudilast	Isopropyl beta-D-glucoside
PC(PGF1alpha/22:3(10Z,13Z,16Z))	Propanoic acid, 2-hydroxy-3-[(4-hydroxy-1-naphthalenyl)oxy]-	7-Mercaptoheptanoylthreonine
Undecaprenyl phosphate alpha-L-Ara4N	9-beta-d-Arabinofuranosylguanidine	5S,6S-epoxy-15R-hydroxy-ETE
Carrageenan, potassium salt of	Coumarin	Butyl butyryllactate
Ciraparantag	5-(3-Pyridyl)-2-hydroxytetrahydrofuran	5,8,11-Heptadecatriynoic acid
PG(18:1(12Z)-2OH(9,10)/i-24:0)	N-Acetylneuraminate 9-phosphate	Prostaglandin B1

Demethoxyrapamycin	(+)-Galeon	5-Phosphooxy-L-lysine
Deoxychylserine	Neomycin	7,10-Hexadecadiynoic acid
Formylfusarochromanone	Dihydrotestosterone diglucuronide	Di(2-ethylhexyl) adipate
Dodecanedioylcarnitine	Atorvastatin	3-oxocholest-4-en-26-oate
Antibiotic CP 412065	5-(3'-Carboxy-3'-oxopropenyl)-4,6-dihydroxypicolinate	L-Thyronine
(2E,4E)-Dodeca-2,4-dienoylcarnitine	3-(4-Hydroxyphenyl)-3,5,6,8-tetrahydro-2H-chromene-4,7-dione	Sphingosine-1-phosphate
Nelipepimut-S heptanoate	Coeligin	LysoPC(20:5(5Z,8Z,11Z,14Z,17Z)/0:0)
1-[(2R)-2-(1,3-Benzodioxol-4-yl)heptyl]-3-[2,6-di(propan-2-yl)phenyl]urea	Perilloside B	LysoPG(18:2(9Z,12Z)/0:0)
7,8-Dihydromethanopterin	Glutamyl-Serine	PS(PGF1alpha/18:2(9Z,12Z))
4alpha-carboxy-5alpha-cholesta-8,24-dien-3beta-ol	(2R,4S)-1-Tert-Butyl 2-methyl 4-aminopyrrolidine-1,2-dicarboxylate	Aminopropanol
Dibenzepin	1-(2-Hydroxyethyl-2-hydroxymethyl)-5-nitro-imidazole	1,2,3,4,tetrahydro-1,5,7-trimethylnaphthalene
(3a,5b,7a)-23-Carboxy-7-hydroxy-24-norcholan-3-yl-b-D-Glucopyranosiduronic acid	5-Formiminotetrahydrofolic acid	3-(4-Isopropylphenyl)propanal
Periandrin V	8-Hydroxyacyclovir	7-Ethyl-3,6-dihydro-1,4-dimethylazulene
11beta,17alpha,21-Trihydroxy-5beta-pregnane-3,20-dione	PIP(PGJ2/18:2(9Z,12Z))	[3-(2-Aminopropyl)-6-methylidene-cyclohexa-1,3-dien-1-yl]methanediol
Curcumadiol	Combrestatin A4	alpha-Campholene acetate
N-[Diaminophosphoryloxy-[di(propan-2-yl)amino]phosphoryl]-N-propan-2-ylpropan-2-amine	PS(18:0/PGF2alpha)	alpha-Irone
Janthitrem E	(1R,6R)-6-hydroxy-2-succinylcyclohexa-2,4-diene-1-carboxylate	1-Acetyl-2-methylcyclopentene
8-[(2R,3S)-3-(8-Hydroxyoctyl)oxiran-2-yl]octanoylcarnitine	Litcubine	Germacrene
(7Z,9E)-Dodeca-7,9-dienoylcarnitine	Melatonin	(6Z,9Z,12Z)-Octadecatrienoic acid
Octadeca-2,4-dienedioic acid	S-(Hydroxymethyl)glutathione	pyrrolostatin
PG(16:0/5-iso PGF2VI)	PG(18:1(11Z)/LTE4)	Ipomeatetrahydrofuran
10-Deoxymethymycin	3-Methyl-2-oxindole	(α)12,13-DiHOME
Cyclosquamosin A	Cornoside	Docosahexaenoic Acid ethyl ester
gamma-Chaconine	PI(5-iso PGF2VI/22:6(4Z,7Z,10Z,13Z,16Z,19Z))	SM(d18:0/20:4(6E,8Z,11Z,13E)-2OH(5S,15S))
p-Coumaroylagmatine	3'-Deoxythymidine	isoamyl
Germacrenone	Mytilin A	3-Methyl-2-(3-pyridyl)-1-indoleoctanoic acid
Temsirolimus	PGP(20:1(11Z)/PGE2)	3-Hydroxyhexadecanoylcarnitine
PI(20:0/6 keto-PGF1alpha)	Furfural diethyl acetal	[3h]Thienylcyclohexylpiperidine
2,3-Dinor-8-iso prostaglandin F2alpha	2,2-Bis(4-hydroxyphenyl)-propanoic acid	Tetraazacyclododecanetetraacetic acid
beta-Citraurol	FUSARENON X	Norethindrone
PI(PGF1alpha/20:3(5Z,8Z,11Z))	5,7-Dimethoxy-6-C-methylflavanone	Leucyl-Tryptophan
N-Myristoyl Proline	Daidzein	Tryptophyl-Cysteine
PI(20:1(11Z)/6 keto-PGF1alpha)	(R)-pantoate	N,N-dimethyl-Safingol
PA(13:0/PGD1)	BYSSOCHLAMIC ACID	4alpha-carboxy-ergosta-7,24(241)-dien-3beta-ol
PA(22:2(13Z,16Z)/20:0)	Dacarbazine	Octanoic acid
PE(14:0/PGJ2)	Milbemycin A3	1-(3-Hydroxy-2,2,6-trimethyl-3,4-dihydrochromen-4-yl)pyrrolidin-2-one
	Niveusin C	Didemnin C

Noberastine	4-Amino-1-[(2R,5R)-5-(aminomethyl)-3,4-dihydroxyoxolan-2-yl]pyrimidin-2-one	6-Keto-prostaglandin E1
Avermectin B1b monosaccharide	(2S)-2-(Butanoylamino)-5-[[[(1R)-2-(carboxymethylamino)-2-oxo-1-(sulfanylmethyl)ethyl]amino]-5-oxo-pentanoic acid	1,2-Dimethyl-4-(6-methyl-4-heptenyl)-1,3-cyclohexadiene
PA(10:0/20:4(5Z,8Z,11Z,14Z)-OH(20))	L-4-Hydroxyglutamate semialdehyde	1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate
6-Gingerol	Littorine	2-Hydroxylinolenic acid
Hydroxyisobobilin	3,3'-Dihydroxy-4',5,7-trimethoxyflavan	Fluridone
Sirolimus	N-Nitroso(2-hydroxypropyl)(2-oxopropyl)amine	PS(22:2(13Z,16Z)/18:2(10E,12Z))+O(9))
Soyasaponin gamma-A	L-Threonine	Phenylethylamine
Dodeca-2,4,6-trienoylcarnitine	Hydantoin-5-propionic acid	(S)-(-)-Perillyl alcohol
PA(PGE2/18:2(9Z,12Z))	Arg His Ala Met	Palmitoyl-L-carnitine
PS(22:5(4Z,7Z,10Z,13Z,16Z)/PGJ2)	Dehydroepiandrosterone	N-Lauroyl Glutamic acid
PG(a-25:0/20:4(6E,8Z,11Z,14Z))+O(5))	Sphingosine 1-phosphate	Glycine
PI(22:3(10Z,13Z,16Z)/PGE2)	4-Hydroxy-3-prenylbenzoic acid glucoside	Tsuzuic acid
PI(22:2(13Z,16Z)/PGF2alpha)	Benzoylmesaconine	N1-(5-Phospho-a-D-ribosyl)-5,6-dimethylbenzimidazole
Gentamicin C1	Kamahine C	24-Hydroxytetracosanoic acid
Pravastatin	Lys His Val Asp	Ser Ser Asp
Amyloid beta-peptide(25-35)	Pro Ile Trp Thr	L-Isoleucine
PE(20:4(5Z,8Z,11Z,14Z)/22:1(13Z))	Farnesiferol B	11,13-dimethoxy-12-hydroxy-9-octadecenoic acid
2-Methoxyestrone	gamma-Aminobutyric acid-betaxanthin	9(R)-HODE
(3b,6b,8a,12a)-8,12-Epoxy-7(11)-eremophilene-6,8,12-trimethoxy-3-ol	Ala Phe	Neryl glucoside
solasodine 3-O-beta-D-glucopyranoside	1-Octen-3-yl glucoside	Pinolenic Acid
C75	Seriny-Tyrosine	12,13-DHOME
3,5-Dimethyl-3'-isopropyl-L-thyronine	Lys Arg Tyr Ala	Imazodan
DG(2:0/PGJ2/0:0)	Gly Lys Pro Val	4-Hydroxypromazine
5,6,7,8-Tetrahydromethanopterin	Diosbulbin D	3-Hydroxy-5,9,17-trioxo-4,5:9,10-disecoandrosta-1(10),2-dien-4-oate
(5Z,8S,9E,11Z,14Z)-8-Hydroxyicosa-5,9,11,14-tetraenoylcarnitine	Androsta-1,4-diene-3,17-dione	PC(2:0/20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15))
Tridecanoic acid	(+)-trans-C75	Arginyl-Gamma-glutamate
7,8-Dihydrovomifoliol 9-[rhamnosyl-(1->6)-glucoside]	Taurodeoxycholic acid	PGF2alpha-d4
Auxin b	PA(18:0/0:0)	6-Carboxy-5,6,7,8-tetrahydropterin
9-Pentadecenoic acid	17-trifluoromethylphenyl trinor PGF2 伪 ethyl amide	Collettiside I
Tridecanedioylcarnitine	Pro Pro Glu Arg	CP 47,497-C8-homolog C-8-hydroxy metabolite
(6S,3'S,5'R,6'R)-6,3',5'-Trihydroxy-4,5,6',7'-tetrahydro-7,8,5',6'-tetrahydro-beta,beta-carotene-3,8-dione	Bis(agmatine)oxalamide	3-Ketopetromyzonol sulfate
bufalin	5-Hydroxyindoleacetyl glycine	Benzenediazonium
7-Ethyl-2,3,6,7-tetrahydrocyclopent[b]azepin-8(1H)-one	gibberellin A8-catabolite	Eticyclidine
(6beta,8betaOH)-6,8-Dihydroxy-7(11)-eremophilen-12,8-olide	His Arg Met Trp	dehydroabietadienol
2,3-Dinor-8-iso prostaglandin F1alpha	5-Fluorodeoxyuridine	PS(P-16:0/13:0)
Irbesartan	Antramycin	1-arachidonoyl-2-hydroxy-sn-glycero-3-phosphate
7alpha-hydroxy-3-oxochol-4-en-24-oic Acid	Cucurbitacin P	20-HETE ethanolamide

1,11-Undecanedicarboxylic acid	Threonylarginine	MG(18:3(6Z,9Z,12Z)/0:0/0:0)
Cholic acid	Dimethylphysostigmine	PGP(a-21:0/20:3(6,8,11)-OH(5))
3b,12a-Dihydroxy-5a-cholanoic acid	(1(10)E,4a,5E)-1(10),5-Germacradiene-12-acetoxy-4,11-diol	(9Z)-Hexadecenoic acid
PG(a-21:0/PGJ2)	PGF3	Hypothiocyanite
13-Hydroxy-9-methoxy-10-oxo-11-octadecenoic acid	Bucromarone	Triethylenemelamine
Antein B	PE(17:2(9Z,12Z)/0:0)	Vinagensenoside R4
3-Nonaprenyl-4-hydroxybenzoate	PC(O-6:0/2:0)[U]	5'-Butyrylphosphoinosine
trans-EKODE-(E)-Ib	Coutaric acid	D-Glycerate
Auxin a	PA(14:0/20:4(7E,9E,11Z,13E)-3OH(5S,6R,15S))	Isoleucyl-Glutamine
Phospho-anandamide	(3xi,5Z)-1,5-Octadien-3-ol	N-(1-Deoxy-1-fructosyl)alanine
5-Nonyltetrahydro-2-oxo-3-furancarboxylic acid	N-Isobutyloctadeca-trans-2-trans-4-dienamide	Thienamycin
18-carboxy dinor Leukotriene B4	Tetramethylchromanol glucoside	Bethanechol
Tetradecadienylcarnitine	Rocuronium	(10S)-Juvenile hormone III diol phosphate
9,12,13-TriHOME	N-Stearoyl Asparagine	Trandolaprilat
2-(2-Methylbutanoyl)-9-(3-methyl-2E-pentenoyl)-2b,9a-dihydroxy-4Z,10(14)-oplopadien-3-one	SM(d20:1/5-iso PGF2VI)	2-Butyl-5-[2-(4-hydroxy-3-methoxyphenyl)ethyl]furan
DG(22:6(5Z,8E,10Z,13Z,15E,19Z)-2OH(7S, 17S)/12:0/0:0)	1 伪,25-dihydroxy-11-(4-hydroxymethylphenyl)-9,11-didehydrovitamin D3 / 1 伪,25-dihydroxy-11-(4-hydroxymethylphenyl)-9,11-didehydrocholecalciferol	(1R,4E,6S,7S,17R)-4-Ethylidene-7-hydroxy-7-(hydroxymethyl)-6-methyl-2,9-dioxo-14-azatricyclo[9.5.1.014,17]heptadec-11-ene-3,8-dione
SM(d17:2(4E,8Z)/6 keto-PGF1alpha)	2-[[[3-Cyclohexyl-1-[2-[3-(diaminomethylideneamino)propylcarbamoyl]piperidin-1-yl]-1-oxopropan-2-yl]amino]acetic acid	(S)-N-((S)-1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-2-((S)-2-mercapto-4-(3,4,4-trimethyl-2,5-dioximidazolidin-1-yl)butanamido)-N,4-dimethylpentanamide
(1S,2R,3R,4R,5R,6S,7S,8R,9R,10R,13R,14R,16S,17S,18R)-6,16,18-Trimethoxy-13-(methoxymethyl)-11-methyl-11-azahexacyclo[7.7.2.12,5.01,10.03,8.013,17]nonadecane-4,5,7,8,14-pentol	(E)-4-[[[(1R)-2-[[[(2R)-2-(2-Adamantylloxycarbonylamino)-3-(1H-indol-3-yl)-2-methylpropanoyl]amino]-1-phenylethyl]amino]-4-oxobut-2-enoic acid	5-Chloro-2,4-dihydroxy-6-methyl-3-[(2E,4Z)-3-methyl-5-(1,2,6-trimethyl-3-oxocyclohexyl)penta-2,4-dienyl]benzaldehyde
Downregulated		
Gly-arg-gly-glu-ser-pro	(5alpha,8beta,9beta)-5,9-Epoxy-3,6-megastigmadien-8-ol	CE(22:6(5Z,8E,10Z,13Z,15E,19Z)-2OH(7S, 17S))
Validoxyamine A 7'-phosphate	Leukotriene C4	Momorcharaside B
DG(14:1(9Z)/20:5(5Z,8Z,11Z,14Z,17Z)/0:0)	PC(PGE1/2:0)	PA(10:0/i-24:0)
DG(17:0/22:6(4Z,7Z,10Z,12E,16Z,19Z)-OH(14)/0:0)	Palmitoyl Ara-C	DG(15:0/22:5(4Z,7Z,10Z,13Z,16Z)/0:0)
Tyr Lys Arg Glu	LysoPC(15:0/0:0)	PC(16:1(9Z)/6 keto-PGF1alpha)
milbemycin beta3	PG(20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15)/i-24:0)	PE(P-18:1(11Z)/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
N-Oleoyleyl Glutamine	Tilmicosin	PA(18:2(9Z,12Z)/16:0)
L-a-Lysophosphatidylserine	di-trans,poly-cis-Undecaprenyl diphosphate	L-Phosphoarginine
6"-Deamino-6"-hydroxyparomomycin II	1-Palmitoyl Lysophosphatidic Acid	Sphingosine
(9Z)-12-oxo-dodec-9-enoate	Cholythreonine	PS(14:0/18:2(9Z,12Z))
Coniferyl alcohol	Maraviroc	Cholesterol
all-trans-4-Oxoretinoic acid	Pexacerfont	MG(0:0/20:2(11Z,14Z)/0:0)
[12]-Gingerdione	Cholyhistidine	Ganglioside GM3 (d18:0/12:0)
Urocortisol	PE-NMe2(20:0/18:1(11Z))	Polyporusterone B
(+)-Setoclavine	7',8'-Dihydro-8'-hydroxycitrinaxanthin	Ecdysone
LysoPE(P-16:0/0:0)	Destruxin E	LysoPC(22:4(7Z,10Z,13Z,16Z))
Prostaglandin E2 methyl ester	Glycerol 2-(9Z,12Z-octadecadienoate) 1-hexadecanoate 3-O-	Irinotecan

[alpha-D-galactopyranosyl-(1->6)-beta-D-galactopyranoside]

Plactin D	PG(a-25:0/20:5(5Z,8Z,11Z,14Z,16E)-OH(18R))	TetraHCA
L-Arginine	DG(10:0/PGE1/0:0)	N-Myristoyl Glutamine
CDP-DG(PGF2alpha/20:2(11Z,14Z))	Momordicine III	Corosin
(2beta,3alpha,9alpha,24R)-Ergosta-7,22-diene-2,3,9-triol	Glycochenodeoxycholate	Sapacitabine
PA(19:0/PGE1)	LysoPC(18:1(9Z)/0:0)	N-Linoleoyl GABA
PG(18:1(11Z)/18:3(6Z,9Z,12Z))	DG(8:0/PGJ2/0:0)	PE(P-18:1(9Z)/18:3(10,12,15)-OH(9))
PA(a-25:0/PGE1)	(5Z)-7-[(1R,2R,3R)-3-Hydroxy-2-[(1E,3S)-3-hydroxy-5-phenylpent-1-en-1-yl]-5-oxocyclopentyl]hept-5-enoylcarnitine	PS(18:0/20:3(8Z,11Z,14Z)-2OH(5,6))
Ponasterone A	Chenodeoxycholyproline	PC(P-18:0/PGD2)
(8S,9S,10S,11S,13S,14S,17R)-11,17-Dihydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-9-nonyl-1,2,6,7,8,11,12,14,15,16-decahydrocyclopenta[a]phenanthren-3-one	(24E)-3alpha-Acetoxy-15alpha,22S-dihydroxylanosta-7,9(11),24-trien-26-oic acid	(1R,4R,4'R,5S,5'S,6R,6'S,7R,9R,11R,12R,13S,14S)-12-[(3R,4S,6R)-4-(Dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-4-ethyl-5,5',6,11-tetrahydroxy-4'-methoxy-4',5,6',7,9,11,13-heptamethylspiro[3,15,17-trioxabicyclo[12.4.0]octadecane-16,2'-oxane]-2,8-dione
(2E,4E)-N-[2-[[[(2R,3R,4R,5R,6S)-2-(1,2-Dihydroxyethyl)-4,5-dihydroxy-6-(7H-purin-6-ylamino)oxan-3-yl]amino]-2-oxoethyl]tetradeca-2,4-dienamide	1-O-Hexadecyl-sn-glycero-3-phosphocholine	Filipin II
Octaethylene glycol	Hovenidulcigenin B	11-((2-Dimethylaminoethyl)oxymethyl)erythromycin A 9-methoxime
7-[(1R,2R,3R)-3-Hydroxy-2-[(1E,3S)-3-Hydroxyoct-1-en-1-yl]-5-oxocyclopentyl]heptanoylcarnitine	Elamipretide	20-Oxo-5-O-beta-mycaminosyltylactone
Bafilomycin A1(Baf-A1)	Cholylserine	PE(18:3(9Z,12Z,15Z)/24:1(15Z))
LysoPG(16:0/0:0)	Phoenicoxanthin	PE(5-iso PGF2VI/22:0)
Ternatin	N(4)-Oleoylcytosine arabinoside	Adrenoyl ethanolamide
24-Methylcholestanol ferulate	(Z)-3-Nonen-1-ol	DG(22:6(4Z,7Z,10Z,12E,16Z,19Z)-OH(14)/10:0/0:0)
PE(20:0/18:1(12Z)-2OH(9,10))	Glycocholic acid 3-sulfate	LysoPE(P-18:0/0:0)

CL vs. CH

Downregulated

Valylglutamine	Gentamicin C1	Aminoethylcysteine ketimine
Carboxyethyl-hydroxychroman	Pikromycin	Ethyl L-tryptophanate
Valylthreonine	Pravastatin	1-Methoxy-4-[5-(4-methoxyphenoxy)-3-penten-1-ynyl]benzene
Maleic acid	Amyloid beta-peptide(25-35)	3-(4-Iodophenyl)-2-mercapto-(Z)-2-propenoic acid
L-Malic acid	PE(20:4(5Z,8Z,11Z,14Z)/22:1(13Z))	GDC-0834 Racemate
Amyl 2-furoate	C75	Lividamine
5-(3',5'-Dihydroxyphenyl)-gamma-valerolactone-O-sulphate-O-methyl	DG(2:0/PGJ2/0:0)	2-ISOPROPYL-3-METHOXYCINNAMIC ACID
Uric acid	5,6,7,8-Tetrahydromethanopterin	Pinolidoxin
2-Methyl-3-oxopropanoic acid	(5Z,8S,9E,11Z,14Z)-8-Hydroxyicosa-5,9,11,14-tetraenoylcarnitine	Deferiprone
1,7-Diphospho-1-epi-valienol	Tridecanoic acid	Caranine
Cephameycin C	7,8-Dihydrovomifoliol 9-[rhamnosyl-(1->6)-glucoside]	Myricanone

3-Hydroxynorvaline	3-Hydroxylinoleoylcarnitine	5-(3-Methoxy-4-((4-methoxybenzyl)oxy)benzyl)pyrimidine-2,4-diamine
Xanthine	LysoPE(P-16:0/0:0)	Cheirotoxol
3-Dehydroquinic acid	Senegenin	(2R,5R)-2-[6-(Cyclopentylamino)-8-(methylamino)purin-9-yl]-5-(hydroxymethyl)oxolane-3,4-diol
Olprinone	PI(20:3(5Z,8Z,11Z)/TXB2)	Pro Ala Met His
EMycin E	Soyasaponin I	2-(3-Carboxy-3-(methylammonio)propyl)-L-histidine
Marmesin galactoside	1,11-Undecanedicarboxylic acid	Allosamidin
Egonol gentiobioside	13-Hydroxy-9-methoxy-10-oxo-11-octadecenoic acid	midecamycin
2',4-Dihydroxy-4',6'-dimethoxychalcone	Antcin B	Mozenavir
2,5-Diamino-6-(5-phospho-D-ribitylamino)pyrimidin-4(3H)-one	PI(PGJ2/18:2(9Z,12Z))	Flobetair
Rhizoctin A	Esculeogenin A	Melibiotol
3-Dehydroquinate	(ent-2b,4S,9a)-2,4,9-Trihydroxy-10(14)-oplopen-3-one 2-(2-methylbutanoate) 9-(3-methyl-2E-pentenoate)	Cytochalasin Npho
Guanosine	SM(d17:2(4E,8Z)/6 keto-PGF1alpha)	Ttatpn
Inosine	Brefeldin A	Histidylglutamine
Succinic acid	3-Palmitoylcatechin	5,9,11-trihydroxyprosta-6E,14Z-dien-1-oate
Xanthosine	Prallethrin	Thr His Phe His
2,3,4,5-Tetrahydro-7,8-dihydroxy-1-phenyl-1H-3-benzazepine	11-Ketotestosterone	PIP(20:3(5Z,8Z,11Z)/PGE2)
2-Amino-6-methyl-2,3,6,7-tetrahydro-1H-pteridin-4-one	PG(i-24:0/20:3(5Z,8Z,11Z)-O(14R,15S))	PS(20:5(5Z,8Z,11Z,14Z,17Z)/20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15))
Methyl-3H-thymidine	28-Glucosyloleanolic acid 3-[arabinosyl-(1->2)-6-methylglucuronide]	Tropolone
trans-Zeatin	CL(8:0/11:0/11:0/11:0)	(+)-Carbovir
Zipeprol	Dehydroxypaxilline	Annomuricatin A
4-ethylamino-6-isopropylamino-1,3,5-triazin-2-ol	PE-NMe2(22:4(7Z,10Z,13Z,16Z)/22:5(4Z,7Z,10Z,13Z,16Z))	Thr Trp Tyr Gln
6-Hydroxy-3,4-dihydro-2(1H)-quinolinone	PI(18:0/PGF2alpha)	Rebaudioside B
16-phenoxy tetranor Prostaglandin A2	PS(22:1(13Z)/16:0)	cis-1,2-Dihydrobenzene-1,2-diol
DG(12:0/22:6(4Z,7Z,11E,13Z,15E,19Z)-2OH(10S,17)/0:0)	PI(16:0/PGF1alpha)	Dakh peptide
DG(17:0/22:6(4Z,7Z,10Z,12E,16Z,19Z)-OH(14)/0:0)	geneticin	herbimycin a
Prostalene	5-Isopropyl-2-(2-methylpropyl)-2-cyclohexen-1-one	Isopentenyladenine-9-N-glucoside
Pubescenol	Tetradecanedioic acid	Neuromedin B (4-10)
L-a-Lysophosphatidylserine	Adynerin	Satratoxin G
PE(18:3(6Z,9Z,12Z)/PGJ2)	Ser Gln Leu Lys	Andersoline
3-Oxodecanoic acid	Nateglinide	Myrigalone H
Neoisomidecamycin	N-Stearoyl tyrosine	Naldemedine
4'-Hydroxyacetophenone	Nebramine	Pyripropene A
Loganin	PE(20:0/LTE4)	gamma-L-Glutamyl-butirosin B
PGP(a-21:0/PGJ2)	Hovenine A	Amino (2S)-2-amino-4-methylpentanoate
Buflomedil	PG(18:1(11Z)/18:3(6Z,9Z,12Z))	Bms-275183
CDP-DG(PGE2/a-25:0)	9-Decenoylcholine	beta-D-Glucopyranosyl-11-hydroxyjasmonic acid
CDP-DG(i-22:0/a-21:0)	Nigericin	Physagulin C

Valerylglycine	(S)-2-Aminobutanoate	Thr Phe Phe Phe
Pro-Pro-Phe	Cer(d18:2(4E,14Z)/6 keto-PGF1alpha)	Paromamine
Topiramate	O-Acetyl-L-serine	5-Amino-2,3-dihydro-6-(3-hydroxy-4-methoxy-1-oxobutyl)-2,2-dimethyl-4H-1-benzopyran-4-one
4,1-Benzoxazepine	2-Methyl-1,3-cyclohexadiene	Gly Lys Tyr Gly
PA(14:1(9Z)/TXB2)	O-Acetylserine	Guan-fu base A
CDP-DG(i-12:0/5-iso PGF2VI)	Isohumulone A	Arginyl-glycyl-glutamyl-serine
Avermectin	gamma-Tocotrienol	Nefiracetam
PS(5-iso PGF2VI/18:2(9Z,12Z))	2-carboxy-L-xylonolactone	PGP(i-13:0/18:3(10,12,15)-OH(9))
Methyl 5-(hydroxymethyl)pyrrolidine-3-carboxylate	6'-Oxogentamicin X2	4-Hydroxy-5-phenyltetrahydro-1,3-oxazin-2-one
CDP-DG(22:3(10Z,13Z,16Z)/PGF2alpha)	1,25-Dihydroxy-19-norvitamin D3	2-OH-benzyl
Castanospermine	14-OH Clarithromycin	2-Methoxy-estradiol-17beta 3-glucuronide
beta-Neoeendorphin	PC(24:1(15Z)/22:6(5Z,7Z,10Z,13Z,16Z,19Z)-OH(4))	alpha-Campholonic acid
CDP-DG(a-15:0/20:3(6,8,11)-OH(5))	Glu Ile Arg Glu	2-Hydroxypropyl starch
Articainic acid	PG(i-24:0/PGF1alpha)	Lochnerinine
Asparasaponin II	9(R)-HETE	Desglugastrin
Cucurbitacin B 2-sulfate	(1E,4S,5E,7R)-Germacra-1(10),5-dien-11-ol	(3xi,6xi)-Cyclo(alanylvalyl)
Reduced FMN	Glucosylxanthone	Ibudilast
Neuropeptide FF	PC(15:0/P-16:0)	L-phenylalanyl-L-hydroxyproline
Dihydrooucanate	Pyropheophorbide a	TRIMETHYLCOLCHICINIC ACID
5-Pyrimidinecarboxylic acid, 1,4-dihydro-2-((2-(2-methylpropoxy)phenyl)amino)-4-oxo-	1-Stearoylglycerophosphoserine	Propanoic acid, 2-hydroxy-3-[(4-hydroxy-1-naphthalenyl)oxy]-
CDP-DG(a-25:0/PGF2alpha)	PG(a-25:0/20:5(5Z,8Z,11Z,14Z,16E)-OH(18R))	9-beta-d-Arabinofuranosylguanine
CDP-DG(TXB2/i-22:0)	LysoPE(P-18:1(9Z)/0:0)	Coumarin
2'-Fluoro-2',3'-dideoxyinosine	Cholylserine	5-(3-Pyridyl)-2-hydroxytetrahydrofuran
N-Formylmethionine	(2R,3R)-3-Methylornithinyl-N6-lysine	(E)-5-(1-(2-Hydroxyethyl)-3-(pyridin-4-yl)-1H-pyrazol-4-yl)-2,3-dihydro-1H-inden-1-one oxime
3-Methylhippuric acid	20-Oxo-5-O-beta-mycaminosyltylactone	N-Acetylneuraminate 9-phosphate
Indole	Dynorphin A (6-8)	L-Phosphoarginine
3'-Deoxyderhamnosylmaysin	Volicitin	(+)-Galeon
CDP-DG(i-14:0/18:1(9Z)-O(12,13))	LysoPE(P-18:0/0:0)	Neomycin
Hexanoylglycine	Juvenile hormone III	Dihydrotestosterone diglucuronide
N,N-Didesmethyltamoxifen	N-Linoleoyl Lysine	pyrithione
Bufotalin	LysoPG(16:0/0:0)	2-Hydroxycampholonic acid
Tryptophyl-Gamma-glutamate	Carbocyclic thromboxane A2	5-(3'-Carboxy-3'-oxopropenyl)-4,6-dihydroxypicolinate
Norfuraneol	(3b,16a,21b,22a)-12-Oleanene-3,16,21,23,28-pentol-22-angeloyloxy-23-al	Iminoaspartic acid
Tragopogonsaponin D	PE(20:0/18:1(12Z)-2OH(9,10))	4,6-O-Ethylidene-D-glucose
2-Hydroxyglutaric acid lactone	PS(15:0/24:1(15Z))	(2R,4S)-1-Tert-Butyl 2-methyl 4-aminopyrrolidine-1,2-dicarboxylate
Glycolate	3-Methylxanthine	1-(2-Hydroxyethyl-2-hydroxymethyl)-5-nitro-imidazole
2,6,6-Trimethyl-2-cyclohexene-1,4-dione	DG(15:0/22:6(5Z,7Z,10Z,13Z,16Z,19Z)-OH(4)/0:0)	Pro-phe-arg-mca
Linamarin	Pleurotin	5-Formiminotetrahydrofolic acid
3,4-Dihydro-4-[(5-methyl-2-furanyl)methylene]-2H-pyrrole	8,11-eicosadiynoic acid	PIP(PGJ2/18:2(9Z,12Z))

17beta-Estradiol-3,4-quinone	Pregnanetriolone	(R)-6'-O-(4-Geranyloxy-2-hydroxycinnamoyl)-marmin
Nalidixic acid	1-(9Z-tetradecenoyl)-glycero-3-phosphate	PS(22:0/20:3(6,8,11)-OH(5))
Phenol A	Isoacitrein	PS(18:0/PGF2alpha)
4-Methoxybenzenepropanol 1-(2-sulfoglucoside)	Biocytin	Fructosamine
CDP-DG(a-13:0/20:3(5Z,8Z,11Z)-O(14R,15S))	Gacyclidine	5-(3,4-Dihydroxy-1,5-cyclohexadien-1-yl)-5-ethylbarbituric acid
Glutamic acid diethyl ester	(S)-3-{4-[2-(5-Methyl-2-phenyl-oxazol-4-yl)-ethoxy]-phenyl}-2-propylamino-propionic acid	(1R,6R)-6-hydroxy-2-succinylcyclohexa-2,4-diene-1-carboxylate
Lentialexin	Fludrocortisone acetate	PE(22:4(7Z,10Z,13Z,16Z)/PGD2)
4-Hydroxycinnamyl aldehyde	6'-Apiosyllotaustralin	PS(20:2(11Z,14Z)/PGE2)
N-Acetyl-L-phenylalanine	Risperidone	PI(16:0/20:3(5Z,8Z,11Z)-O(14R,15S))
5-Hydroxyindoleacetaldehyde	PG(16:0/0:0)[U]	PG(18:1(11Z)/LTE4)
PIP(18:2(9Z,12Z)/PGE2)	Dehydroepiandrosterone sulfate	3-Methyl-2-oxindole
Baicalin	7Z, 10Z, 13Z, 16Z, 19Z-docosapentaenoic acid	2-Amino-5-formylamino-6-(5-phospho-D-riboseylamino)pyrimidin-4(3H)-one
Swainsonine	Biopterin	Methylpyrogallol sulfate 3
Cholylglutamine	DG(18:4(6Z,9Z,12Z,15Z)/20:1(11Z)/0:0)	PI(5-iso PGF2VI/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
Avermectin B1b aglycone	17-O-acetylnorajmaline	Neopeltitorine A
Indoleacetaldehyde	2,3-Dehydrosalvipisone	Methyl linolenate
Trihomomethionine	Acorafloxacin	Furfural diethyl acetal
5,7-Dihydroxyflavone	Corchoionol C 9-glucoside	2,2-Bis(4-hydroxyphenyl)-propanoic acid
N-Acetyl-DL-tryptophan	Kurarinone	5,7-Dimethoxy-6-C-methylflavanone
Nodularin	O-Demethylencaïnide	Fludara
Paeonimetabolin I	Posiphen	(R)-pantoate
N-Acetyl-D-phenylalanine	Moxifloxacin	21-Deoxycortisol
Aspartyl-Isoleucine	5-Chloro-2,4-dihydroxy-6-methyl-3-[(2E,4Z)-3-methyl-5-(1,2,6-trimethyl-3-oxocyclohexyl)penta-2,4-dienyl]benzaldehyde	4-Amino-1-[(2R,5R)-5-(aminomethyl)-3,4-dihydroxyoxolan-2-yl]pyrimidin-2-one
2-Methyl-4-(pyridin-3-ylethynyl)thiazole	UDP-L-rhamnose	2-Fluoroamphetamine
Jasmonic acid	Hypermellosum	L-4-Hydroxyglutamate semialdehyde
4-Coumaroylshikimate	1H-Indole-3-carboxylic acid, 1-methyl-, (1-(2-((methylsulfonyl)amino)ethyl)-4-piperidinyl)methyl ester	Littorine
Goshonoside F6	cis-3-Hexenyl b-primeveroside	trans-3-Hydroxy-L-proline
Nartograstim	latrunculin B	Vitamin D2 3-glucuronide
Intopicline	Linalool oxide D 3-[apiosyl-(1->6)-glucoside]	N-Nitroso(2-hydroxypropyl)(2-oxopropyl)amine
5-Amino-5-(4-hydroxybenzyl)-6-(D-ribitylimino)-5,6-dihydrouracil	Tetrahydrofolate	L-Threonine
2-Ethylsulfanyl-1H-benzoimidazole	N-Acetylgalactosamine	L-Alanine
2"-N-Acetyl-6"-deamino-6"-hydroxyncomycin C	N-Phenyl-1-naphthylamine	Pentylbenzene
Val-HoPhe-OH	Parsalmide	Hydantoin-5-propionic acid
2-Hydroxy-2,4-pentadienoate	PA(a-25:0/5-iso PGF2VI)	L-Proline
Toluene-cis-dihydrodiol	PG(20:4(5Z,8Z,11Z,14Z)-OH(20)/20:1(11Z))	Sphingosine 1-phosphate
7-Hydroxy-3-(3-hydroxy-4-methoxybenzyl)-5-methoxy-4-chromanone	Arbutin	4-Aminobutyraldehyde

PA(8:0/5-iso PGF2VI)	gamma-Aminobutyric acid cetyl ester	Kamahine C
Baicalein	beta-Tocotrienol	3-(4'-Methylthio)butylmalic acid
N-Docosahexaenoyl Histidine	Heneicosanoic acid	Methionyl-Proline
Chaetoglobosin N	PS(20:3(5Z,11Z,14Z)-O(8,9)/24:0)	Lys His Val Asp
estradiol alone	Fraxidin	L-Arginine, L-asparaginyglycyl-
Stevibioside	PI(18:0/PGJ2)	Farnesiferol B
Dalfopristin	PE(14:0/20:1(11Z))	gamma-Aminobutyric acid-betaxanthin
Ixabepilone	Hydroxylamine	2,3-Dihydroxypropyl 4-phenylbutanoate
Cascarillin	1,2-Epoxy-1,2,7',8,8',11,12-octahydro-psi,psi-carotene	Ala Phe
2,6 Dimethylheptanoyl carnitine	3-Methyl-L-histidine	2-Propylmalate
9-Oxononanoic acid	DG(16:0/TXB2/0:0)	6-methoxy Naphthalene Acetic Acid
Dihydrosesoside	Spirolide D	Diosbulbin D
16-Acetylpriverogenin A	PE(20:1(11Z)/18:1(12Z)-2OH(9,10))	Androsta-1,4-diene-3,17-dione
L-Urobilin	PE(24:0/PGE2)	Taurodeoxycholic acid
Sebacic acid	Muricatetrocin C	(-)-Fumigaclavine B
2'-Deamino-2'-hydroxyparomamine	DG(17:0/TXB2/0:0)	PA(18:0/0:0)
Glasdegib	DG(21:0/LTE4/0:0)	17-trifluoromethylphenyl trinor PGF2 伪 ethyl amide
O-Acetylcarnitine	N-Nervonoyl Glutamine	Pro Pro Glu Arg
Pentamorphone	Homodolicholide	Dimethyl peroxide
Etimicin	1,2-Didecanoyl-sn-glycerol	His Arg Met Trp
(2s)-2-[[[(2s)-2-Acetamido-5-[[n-(Methylcarbamoyl)carbamimidoyl]amino]pentanoyl]-Methyl-Amino]-3-Phenyl-Propanoic Acid	(E)-4-[[[(1R)-2-[[[(2R)-2-(2-Adamantylloxycarbonylamino)-3-(1H-indol-3-yl)-2-methylpropanoyl]amino]-1-phenylethyl]amino]-4-oxobut-2-enoic acid	1 伪,25-dihydroxy-11-(4-hydroxymethylphenyl)-9,11-didehydrovitamin D3 / 1 伪,25-dihydroxy-11-(4-hydroxymethylphenyl)-9,11-didehydrocholecalciferol
(24E)-3alpha-Acetoxy-15alpha-hydroxy-23-oxo-7,9(11),24-lanostatrien-26-oic acid	4-Formylsalicylic acid	Bucromarone
17alpha,21-Dihydroxy-5beta-pregnane-3,11,20-trione	Mdppb	PE(17:2(9Z,12Z)/0:0)
Ile Ser Val Asp	12-Ketodeoxycholic acid	Ile Ala
N-[(3a,5b,7a)-3-hydroxy-24-oxo-7-(sulfooxy)cholan-24-yl]-Glycine	Dactimicin	Zerumbone
Pectachol	Triphenylphosphine oxide	Ginsenoynne J
L-N2-(2-Carboxyethyl)arginine	2'-O-Methylcytidine	PA(14:0/20:4(7E,9E,11Z,13E)-3OH(5S,6R,15S))
L-Oleandrosyl-oleandolide	5-Methyl-2-furaldehyde	PGF3 伪
Eperezolid	Adipic acid	gamma-CEHC glucuronide
3-[2-[[[(1S,2R,3S)-3-[4-(Pentylcarbamoyl)-1,3-oxazol-2-yl]-7-oxabicyclo[2.2.1]heptan-2-yl]methyl]phenyl]propanoic acid	((2R,3S)-3-Amino-2-hydroxy-2-(1H-imidazol-4-ylmethyl)-5-methyl)-5-methylhexanoic Acid	Prenyl glucoside
Genistein	Torulene	Estreptoquinasa
Ganoderenic acid A	PE(P-18:1(11Z)/22:6(4Z,7Z,10Z,13Z,16Z,19Z))	Ecklonialactone A
19-Hydroxyandrost-4-ene-3,17-dione	PA(22:0/20:4(5Z,8Z,10E,14Z)-OH(12S))	Docosatrienoic Acid
Isobutylxanthine	SM(d16:2(4E,8Z)/5-iso PGF2VI)	1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
11-Dihydro-12-norneoquassin	Cer(d18:1/20:5(7Z,9Z,11E,13E,17Z)-3OH(5,6,15))	1-H-Inden-1-one,2,3-dihydro-3,3,5,6-tetramethyl
Dimethyltryptamine	6-Hydroxymethylpterin	Isoleucylhydroxyproline
Bargustanine	Cinitapride	3,4-Dihydroxy-2-methoxy-4-methyl-3-[2-methyl-3-(3-methyl-but-2-enyl)-oxiranyl]-cyclohexanone
Pracinostat	PG(a-13:0/i-16:0)	2-Ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine

PC(P-18:1(11Z)/LTE4)	PS(20:1(11Z)/14:0)	VIQUALINE
N-[(3a,5b,7b)-7-hydroxy-24-oxo-3-(sulfooxy)cholan-24-yl]-Glycine	Chrysin 7-[rhamnosyl-(1->4)-glucoside]	2alpha-Fluoro-17beta-hydroxyandrost-4-en-3-one
PA(20:1(11Z)/PGF1alpha)	Cer(d18:2(4E,14Z)/24:1(15Z))	15(R)-PGF2 伪
(5Z,8Z,11Z,14Z)-N-(4-Hydroxy-2-methylphenyl)-5,8,11,14-eicosatetraenamide	Methyl Heptadecanoic acid	Illicifolinolide A
PC(DiMe(13,5)/22:6(5Z,8E,10Z,13Z,15E,19Z)-2OH(7S,17S))	PC(24:1(15Z)/PGF2alpha)	Arg Pro Lys
N-Palmitoyl tyrosine	PA(18:2(9Z,12Z)/16:0)	Glycocholic Acid
(5E)-7-{4,6-Dihydroxy-2-[(1E,5E)-3-hydroxyocta-1,5-dien-1-yl]oxan-3-yl}hept-5-enoylcarnitine	Benzothiazepine	3-Carbamyl-(3'-picolyl)-4-methoxy-1-benzamide
(Z)-6-Nonenal	N-Oleoyl Asparagine	PI(20:1(11Z)/20:3(8Z,11Z,14Z)-2OH(5,6))
Anadur	Solanesol	(-)-5-(2-Propenyl)-2-oxazolidinethione
PC(PGF1alpha/22:3(10Z,13Z,16Z))	PE(16:1(9Z)/18:1(12Z)-O(9S,10R))	Deoxycholicitrulline
PG(18:1(12Z)-2OH(9,10)/i-24:0)	SM(d17:2(4E,8Z)/5-iso PGF2VI)	Pro Lys Leu Ser
Demethoxyrapamycin	PA(18:3(10,12,15)-OH(9)/22:2(13Z,16Z))	PI(20:4(5Z,8Z,11Z,14Z)/20:0)
Deoxychylserine	Thiazolidin-2-one	PS(20:4(6Z,8E,10E,14Z)-2OH(5S,12R)/22:0)
Ouabain	Fluorophosphoric acid	(凶)16-HDoHE
5-Oxo-delta-bilirubin	Biotin amide	Nebracetam
Nelipepimut-S	3-(1-Hydroxymethyl-1-propenyl)pentanedioic acid	1-Hexanol arabinosylglucoside
1-[(2R)-2-(1,3-Benzodioxol-4-yl)heptyl]-3-[2,6-di(propan-2-yl)phenyl]urea	3-hydroxybenzoic acid-3-O-sulphate	alpha-L-Rhamnopyranosyl-(1->3)-alpha-D-galactopyranosyl-(1->3)-L-fucose
4alpha-carboxy-5alpha-cholesta-8,24-dien-3beta-ol	p-Coumaroylagmatine	5(S),11(R)-DiHETE
Dibenzepin	D-Tryptophan	1,4-Dihydroxy-2-naphthoate
(3a,5b,7a)-23-Carboxy-7-hydroxy-24-norcholan-3-yl-b-D-Glucopyranosiduronic acid	Feruloylputrescine	Ciclesonide
Periandrin V	Ciprofloxacin-7-ethylenediamine	Sarcodon scabrosus Depsipeptide
Dodecanedioic acid	Taribavirin	PG(20:1(11Z)/PGE2)
Cyclosquamosin A	n6-phenylisopropyladenosine	Asiaticoside B
gamma-Chaconine	PE(TXB2/14:1(9Z))	(+)-Lysergic acid
Guanidine, N-((2S,3S,4R)-6-amino-2-(dimethoxymethyl)-3,4-dihydro-3-hydroxy-2-methyl-2H-1-benzopyran-4-yl)-N'-cyano-N''-(phenylmethyl)-	1H-2-Benzopyran-6-carboxamide, 1-(2-(4-(4-((2R,3S,4S,6R,7S,8R)-4-Ethenyl-3-hydroxy-2,4,7,14-tetramethyl-9-oxo-6-tricyclo[5.4.3.0.1,8]tetradecanyl) 2-[2-(diethylamino)ethylsulfanyl]acetate	2-(1,3-Benzodioxol-5-yl)-3,5,6,8-tetramethoxy-7-[(3-methyl-2-butenyl)oxy]-4H-1-benzopyran-4-one
Temsirolimus	Ureidoglycine	3-Hydroxypregn-4-en-20-one
PI(PGF1alpha/20:3(5Z,8Z,11Z))	alpha-Hydroxy-NDMA	Glycohyocholate
PA(13:0/PGD1)	5-Ribosylparomamine	Cyclohexenyl
PE(14:0/PGJ2)	2-Hydroxyethylphosphonate	Tetralin
Hydroxyisonobilin	p-CHLOROPHENYLALANINE	1-Methyl-2-propylbenzene
Sirolimus	Ergocornine	Edrophonium
Soyasaponin gamma-A	Didemethylcitalopram	L-2-Amino-3-methylenehexanoic acid
PE(PGJ2/20:4(8Z,11Z,14Z,17Z))	Dimethylnitramine	7,8-Diaminononanoate
PG(a-25:0/20:4(6E,8Z,11Z,14Z))+=O(5))	6'-Oxo-G418	4-Acetoxy-2-hexyltetrahydrofuran
PI(22:3(10Z,13Z,16Z)/PGE2)	PC(16:0/0:0)[U] / PC(16:0/0:0)[rac]	

PS(PGE1/20:0)	Mabioside D	2,3-Dihydroxypropyl octanoate
Prostaglandin D1	Erythromycin	1-Deoxypentalenate
Deoxycholic acid glycine conjugate	Glutamyl-Gamma-glutamate	Histidyllysine
PC(20:0/PGD1)	CDP-DG(PGF1alpha/i-19:0)	Lotusine
Sodium glycochenodeoxycholate	Tsuzaic acid	SM(d18:1/22:6(5Z,7Z,10Z,13Z,16Z,19Z)-OH(4))
PS(PGF1alpha/22:2(13Z,16Z))	Polyporusterone B	Arg Asn Val Phe
Ethyl 2-furanacrylate	Deoxycholyglutamic acid	Filipin II
Glycyl-L-histidyl-L-lysine	24-Hydroxytetracosanoic acid	(6S)-Tetrahydro-L-biopterin
(2S,3R)-2-Amino-3-[(2S)-2-amino-3-hydroxypropanoyl]oxybutanoic acid	Ser Ser Asp	(S)-Pterosin P
Absinthin	Everolimus	5-Nitroxystearic acid
Aab(1) avermectin	Pro Gly His	Salinomycin
Streptomycin	PE(P-16:0/0:0)	PC(24:0/PGF1alpha)
Momordicoside B	3-Methylcytidine	Valnemulin
Anomurine	Glycylglycylglycylglycine	Sphinganine 1-phosphate
3b,8a-Dihydroxy-6b-angeloyloxy-7(11)-eremophilene-12,8-olide	PC(O-16:1(11Z)/2:0)	PG(18:0/PGF1alpha)
Lysergic acid	n-methyl-2-(4'-methylaminophenyl)-6-hydroxybenzothiazole	4'-Apo-beta,psi-caroten-4'-al
PC(20:5(5Z,8Z,11Z,14Z,17Z)/PGF1alpha)	7-[(1R)-2-[(1E,3S)-3-Hydroxyoct-1-en-1-yl]-5-oxocyclopent-2-en-1-yl]heptanoylcarnitine	PS(22:0/20:4(5Z,8Z,11Z,14Z)-OH(20))
12-oxo-5E,8E,10Z-dodecatricenoic acid	Ecdysone	L-Serine-phosphoethanolamine
Didesmethylimipramine	DG(PGJ2/2:0/0:0)	Valylhydroxyproline
(E)-2-methyl-4-((3aS)-1-methyl-2,3,8,8a-tetrahydropyrrolo[2,3-b]indol-3a(1H)-yl)but-2-en-1-ol	LysoPC(22:4(7Z,10Z,13Z,16Z))	PE(20:4(5Z,8Z,11Z,14Z)/P-18:0)
Ipomeamaranol	Gentamicin C2b	DG(PGF1alpha/2:0/0:0)
Lilopristone	Pinolenic Acid	Phenylactate
N-Myristoyl Glutamine	12,13-DHOME	N-Hexadecanoylpyrrolidine
PI(22:5(7Z,10Z,13Z,16Z,19Z)/PGD1)	Gly Ile Gly His	Icosenoic acid
Lysyl-aspartyl-glutamyl-leucine	LysoPC(17:0/0:0)	Benzene
L-Olivosyl-oleandolide	Imazodan	Vecuronium
Hexadecyl Acetyl Glycerol	4-Hydroxypromazine	DG(2:0/0:0/PGF1alpha)
Red chlorophyll catabolite	Butanoyl (2S)-2-amino-5-(diaminomethylideneamino)pentanoate	N-Stearoyl Tryptophan
1-(2-Furanyl)-1-pentanone	Arginyl-Gamma-glutamate	L-Dihydroanticapsin
Geranyl-hydroxybenzoate	Elarofiban	1-(2-Hydroxyethoxy)methyl-5-methyluracil
Rescinnamine	TetraHCA	Prolyl-Arginine
Oleandolide	6-Carboxy-5,6,7,8-tetrahydropterin	Thymidine
Glutaminylleucine	PS(20:3(8Z,11Z,14Z)-2OH(5,6)/22:2(13Z,16Z))	Carbamazepine N-Glucuronide
DG(2:0/PGE2/0:0)	Stearoylglycine	Pro Ile Val Asp
Alfacalcidol	PC(O-14:1(1E)/0:0)	(Methyl-ONN-azoxy)methyl acetate
alpha-Linolenic acid	Gymnodimine	PG(a-13:0/i-12:0)
Phytosphingosine	7-Deoxyloganic alcohol	15-Deoxyprostaglandin J2
Solutol HS 15	Halleridone	PA(14:0/PGF1alpha)

(+)-4,11-Eudesmadien-3-one	Collettiside I	PE(P-18:0/PGJ2)
Polidocanol	Indinavir	PS(P-20:0/22:6(4Z,7Z,10Z,13Z,16Z,19Z))
Pandaroside B	CP 47,497-C8-homolog C-8-hydroxy metabolite	Farnesyl pyrophosphate
Tryptophyl-Proline	Corosin	Polyporusterone F
His Tyr Phe	Val-Tyr-Leu-Arg	PA(10:0/18:1(12Z)-2OH(9,10))
PG(PGF2alpha/22:6(4Z,7Z,10Z,13Z,16Z,19Z))	N-Nitrosotomatidine	Angiotensin II
N6-Ethanimidoyl-D-lysine	3-Ketopetromyzonol sulfate	PS(16:0/16:1(9Z))
Styrene	Benzenediazonium	4alpha-carboxy-4beta-methyl-5alpha-cholesta-8,24-dien-3beta-ol
3,7-Dihydroxytetradecanoylcarnitine	2-Methylindoline	PG(16:0/18:2(9Z,12Z))
Arginylhydroxyproline	Eticyclidine	PS(18:0/18:3(10,12,15)-OH(9))
Prodigiosin	PE(P-18:0/PGF2alpha)	Avermectin A1a
(-)-trans-Carveol glucoside	(13E)-11a-Hydroxy-9,15-dioxoprost-13-enoic acid	DG(12:0/TXB2/0:0)
11,14,15-THETA	dehydroabietadienol	Hydroxyspirilloxanthin
N-Eicosapentaenoyl Phenylalanine	Lithocholic acid	1-Deoxy-11-oxopentalenate
Erythromycin C	PE(18:0/0:0)	Alanylhydroxyproline
28-Glucosyloleanoic acid 3-[rhamnosyl-(1->2)-galactosyl-(1->3)-glucuronide]	PS(P-16:0/13:0)	Astaxanthin
PE(20:4(8Z,11Z,14Z,17Z)/22:2(13Z,16Z))	PGP(20:1(11Z)/20:3(6,8,11)-OH(5))	Ginsenoside Rb1
Toluene	1-arachidonoyl-2-hydroxy-sn-glycero-3-phosphate	Cer(d16:1/20:3(8Z,11Z,14Z)-O(5,6))
N(6)-Methyllysine	20-HETE ethanolamide	PC(16:0/PGD1)
N6-Acetyl-N6-hydroxy-L-lysine	(1R,7S,13S,15S)-2,15-Dihydroxy-7-methyl-6-oxabicyclo[11.3.0]hexadeca-3,11-dien-5-one	Arbaprostil
cis-6-Nitro-p-mentha-1(7),2-diene	Hypothiocyanite	Bipindogulomethylsoid
3,4-Dihydrocadalene	Catharanthine	Hexosylsphingosine
(Z)-alpha-Bergamotenoic acid	5-(3-Methyl-1-triazeno)imidazole-4-carboxamide	PIP(PGF2alpha/18:0)
3,4-Dimethyl-5-pentyl-2-furanpropanoic acid	Triethylenemelamine	3'-Sialyllactosamine
Phencyclidine	28-Norcasterone	Crocin 3
12-Oxo-2,3-dinor-10,15-phytodienoic acid	lasalocid	milbemycin alpha5
12-OPDA	Tragopogonsaponin A	PS(20:3(8Z,11Z,14Z)/24:0)
9,10,13-Trihydroxystearic acid	n-Pentyl	Ganoderiol B
17(18)-EpETE	Triethylene glycol monohexyl ether	2-Pentenal
HT-2 Toxin	Oleylethanolamide	Carpasemine
Chenodeoxycholic Acid	MG(0:0/21:0/0:0)	Muscomin
methyl 2-Pyrimidine Carboxylate	Vinaginsenoside R4	Penta-1,3-diene
Oleoyl glycine	DG(6 keto-PGF1alpha/2:0/0:0)	Ethen-1,1-diyl
14(15)-EET-d11	D-Glycerate	3-Hydroxyhept-4-enoylcarnitine
Leu Phe Val	Fluoronaphthiridone	Pro Pro Gly His
2-Hydroxypropyl 2-isopropyl-5-methylcyclohexyl carbonate	5-Carboxy-2-oxohept-3-enedioate	4-Hydroxyretinoic acid glucuronide
Bornaprolol	Isoleucyl-Glutamine	Zygadenine
Midecamycin acetate	N-(1-Deoxy-1-fructosyl)alanine	Tryptophyl-Cysteine
Lys Lys Thr Pro	Thienamycin	N,N-dimethyl-Safingol
Aethusin	Bethanechol	Phytal
Talaromycin A	(10S)-Juvenile hormone III diol phosphate	Phosphocholine

Polyethylene, oxidized	Trandolaprilat	4alpha-carboxy-ergosta-7,24(241)-dien-3beta-ol
1,5,5,8-Tetramethyl-12-thiabicyclo[9.1.0]dodeca-3,7-diene	3a,7b,12a-Trihydroxyoxocholanyl-Glycine	LysoPC(15:0)
Gibberellin A4	PC(14:1(9Z)/15:1(9Z))	Octanoic acid
7-Sulfocholic acid	2-Butyl-5-[2-(4-hydroxy-3-methoxyphenyl)ethyl]furan	1-(3-Hydroxy-2,2,6-trimethyl-3,4-dihydrochromen-4-yl)pyrrolidin-2-one
3'-Prenylapigenin 7-[rhamnosyl-(1->6)-glucoside]	hydroquinidine	O-Arachidonoyl Glycidol
Sagittatoside B	Cer(d17:1/PGF2alpha)	Lys Val Gln Gln
4,4'-Methylene bis(2-methylaniline)	Chymostatin	Vulgarone A
piperidino	Hydroxyspheroidenone	2-(Octadecyloxy)ethanol
Gentamicin C2	1-Isothiocyano-3-phenylpropane	Choline
9-Fluoro-16alpha-methylpregn-4-ene-3,11,20-trione	Rocuronium	Phosphorylcholine
Isopropyl beta-D-glucoside	Fasciculol F	Isotabtoxin
6-hydroxymethyl-7,8-dihydropterin	N-Stearoyl Asparagine	1-Linoleoylglycerophosphocholine
Sphinganine	Rumenic acid	LysoPC(20:4(5Z,8Z,11Z,14Z))
7-Mercaptoheptanoylthreonine	Narbomycin	Clavaminc acid
Butyl butyryllactate	Narbonolide	Cyclopropyl
5,8,11-Heptadecatriynoic acid	PE(22:2(13Z,16Z)/PGJ2)	LysoPC(18:2(9Z,12Z)/0:0)
5-Phosphoxy-L-lysine	L-2-Aminoethyl seryl phosphate	Sameridine
gamma-Glutamylproline	22-Angeloyltheasapogenol A	20alpha-Hydroxycholesterol
6-deoxoteasterone	3,6-Nonadienal	LysoPC(20:4(8Z,11Z,14Z,17Z)/0:0)
Palmitoyl Ethanolamide	(3xi,5Z)-1,5-Octadien-3-ol	Fluridone
QH(2)	D-(+)-dihydrocarvone	Palmitoyl-L-carnitine
Di(2-ethylhexyl) adipate	N-Isobutyloctadeca-trans-2-trans-4-dienamide	Lefamulin
xi-3,5-Dimethyl-2(5H)-furanone	Tetramethylchromanol glucoside	Biolimus A9
L-Thyronine	DG(20:5(5Z,8Z,11Z,14Z,16E)-OH(18R)/15:0/0:0)	Choline phosphate
2,3-Dimethyl-2-cyclohexen-1-one	Elatoside G	Pyro-L-glutaminy-L-glutamine
Chavicol	Sulforaphane-cysteine	3-Carboxy-2,3,4,9-tetrahydro-1H-pyrido[3,4-b]indole-1-propanoic acid
7,8-Dihydrobiopterin	4-Dedimethylamino sancycline	Isoprene
5'-N-Methylcarboxamidoadenosine	Prosaikogenin A	Verdamicin
Eplerenone	Maltol	Cucurbitacin IIa
Dubinidine	Asparaginy-L-Tyrosine	PS(14:0/18:1(12Z)-2OH(9,10))
Phenylalanyl-prolyl-arginine	Iodothyronine	Glycerophospho-N-Palmitoyl Ethanolamine
Doxepin N-oxide glucuronide	Hebevinoside V	3-Oxo-3-ureidopropanoate
6"-O-Carbamoylkanamycin A	PS(20:4(5Z,8Z,11Z,14Z)/6 keto-PGF1alpha)	3beta-hydroxy-4beta-methyl-5alpha-cholest-7-ene-4alpha-carboxylate
Sphingosine-1-phosphate	LysoPE(0:0/16:0)	Petasinine
Sphingosine	Isoleucyl-Arginine	CDP-DG(22:5(7Z,10Z,13Z,16Z,19Z)/18:3(10,12,15)-OH(9))
3-Fluoro-2-hydroxyquinoline	N-Lauroyl Glutamine	Isoartocarpesin
PS(14:0/18:2(9Z,12Z))	Leucyl-Gamma-glutamate	Asp Phe Tyr His
Lauroyl diethanolamide	(2S,3R,4R)-2-Amino-3,4-dihydroxy-2-(hydroxymethyl)-14-oxoicos-6-enoic acid	(S,E)-Zearalenone
Ethyl salicylate	Metabolite B	Lewis y Tetrasaccharide

Adipate semialdehyde	PC(18:0/20:4(5Z,8Z,11Z,14Z)-OH(20))	Mycinamicin III
PC(14:0/0:0)	Laccarin	Capsoside A
LysoPG(18:2(9Z,12Z)/0:0)	Glutaminyllsine	(-)-erythro-Anethole glycol 2-glucoside
Aminopropanol	4-Hydroxy-6-methyl-3-(1-oxobutyl)-2H-pyran-2-one	PI(22:4(10Z,13Z,16Z,19Z)/20:4(6Z,8E,10E,14Z)-2OH(5S,12R))
1,2,3,4,tetrahydro-1,5,7-trimethylnaphthalene	PE(22:5(7Z,10Z,13Z,16Z,19Z)/P-16:0)	Cholyphenylalanine
[3-(2-Aminopropyl)-6-methylidencyclohexa-1,3-dien-1-yl]methanediol	DG(20:0/20:5(5Z,8Z,11Z,14Z,17Z)/0:0)	PC(P-18:0/18:1(12Z)-O(9S,10R))
alpha-Campholene acetate	Asp Arg Ser Trp	(5Z,7E,9E,14Z,17Z)-Icosapentaenoate
alpha-Irone	Baccatin III	(1S,2S,4S,5S)-2,4-Thujanediol
Germacrone	PE(P-18:1(9Z)/18:3(10,12,15)-OH(9))	4-O-beta-D-Glucopyranoside
(α)12,13-DiHOME	2-Phenylethanol	N-Oleoyldopamine
isoamyl	DL-Ornithino-L-alanine	Oxyphenonium
Fusarin C	Anisomycin	2,3-Dinor-TXB1
3-Hydroxyhexadecanoylcarnitine	D-Lysopine	PA(17:0/PGF2alpha)
[3h]Thienylcyclohexylpiperidine	Fasciculic acid B	4b-Hydroxystanzolol
3-[[3-Methoxy-5-(1H-pyrrol-2-yl)pyrrol-2-ylidene]methyl]-1,4-dimethyl-4,5,6,7-tetrahydro-2H-isoindole	(1R,3S,5Z)-5-[(2E)-2-[(1R,3As,7aR)-1-[(2R)-3-ethoxy-7-ethyl-7-hydroxynon-4-yn-2-yl]-7a-methyl-2,3,3a,5,6,7-hexahydro-1H-inden-4-ylidene]ethylidene]-4-methylidencyclohexane-1,3-diol	Desogestrel
(S)-N-((S)-1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-2-((S)-2-mercapto-4-(3,4,4-trimethyl-2,5-dioxoimidazolidin-1-yl)butanamido)-N,4-dimethylpentanamide	(8S,9S,10S,11S,13S,14S,17R)-11,17-Dihydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-9-nonyl-1,2,6,7,8,11,12,14,15,16-decahydrocyclopenta[a]phenanthren-3-one	(1R,4E,5'R,6R,6'R,7S,8S,10S,11S,12R,14S,15R,16S,18E,20E,22S,25R,27S,29S)-22-Ethyl-7,11,14,15-tetrahydroxy-6'-(2-hydroxypropyl)-5',6,8,10,12,14,16,29-octamethylspiro[2,26-dioxabicyclo[23.3.1]nonacos-4,18,20-triene-27,2'-oxane]-3,9,13-trione
Norethindrone		3H-Pyrido(1,2-c)pyrimidin-3-one,
Upregulated		4-(2-(bis(1-methylethyl)amino)ethyl)-4,4a,5,6,7,8-hexahydro-1-methyl-4-phenyl-, trans-(+)-
Eicosen-1-ol	12,15-Epoxy-13,14-dimethyleicosa-10,12,14-trienoic acid	Maraviroc
S-Nitroso-L-cysteinylglycine	PE(18:3(9Z,12Z,15Z)/24:1(15Z))	Cholyhistidine
(+)-Setoclavine	Triterpenoid	PE-NMe2(20:0/18:1(11Z))
(E)-2-Octen-1-ol	PC(P-16:0/20:5(5Z,8Z,10E,14Z,17Z)-OH(12))	PS(20:0/PGD1)
PE(22:5(4Z,7Z,10Z,13Z,16Z)/P-18:0)		

Table S4 Correlation between plasma metabolites and gut microbiota

bacteria	metabolites	r	P
Campylobacterota	L-Leucine	0.847	0.001
Proteobacteria_Colon	Inosine	0.855	0.001
Erysipelotrichaceae	Inosine	0.864	0.001
Ruminococcaceae	Inosine	0.855	0.001
Prevotella_9	Inosine	0.920	0.000
Subdoligranulum	Inosine	0.864	0.001
Turicibacter	Inosine	0.818	0.002
Alloprevotella	Indole	0.818	0.002
Subdoligranulum	Sebacic acid	0.836	0.001
Alloprevotella	Sebacic acid	0.827	0.002
Ruminococcaceae	heptanoate	0.809	0.003
Prevotella_9	heptanoate	0.856	0.001
Proteobacteria_Colon	Cholic acid	0.827	0.002
Erysipelotrichaceae	Cholic acid	0.864	0.001
Ruminococcaceae	Cholic acid	0.882	0.000
Prevotella_9	Cholic acid	0.911	0.000
Subdoligranulum	Cholic acid	0.891	0.000
Turicibacter	Cholic acid	0.818	0.002
Ruminococcaceae	Hexadecanedioic acid	0.818	0.002
Prevotella_9	Hexadecanedioic acid	0.834	0.001
Subdoligranulum	Hexadecanedioic acid	0.809	0.003
Alloprevotella	Hexadecanedioic acid	0.845	0.001
Ruminococcaceae	9,10-Epoxyoctadecanoic acid	0.809	0.003
Prevotella_9	9,10-Epoxyoctadecanoic acid	0.852	0.001
Alloprevotella	9,10-Epoxyoctadecanoic acid	0.818	0.002
Ruminococcus	Glycochenodeoxycholate	0.809	0.003
Anaerococcus	Glycochenodeoxycholate	0.838	0.001
unclassified_Eggerthellaceae	Glycochenodeoxycholate	0.820	0.002
Gemella	Glycocholic acid 3-sulfate	0.834	0.001
Ruminococcaceae	Hexadecanoic acid	0.845	0.001
Subdoligranulum	Hexadecanoic acid	0.836	0.001
Alloprevotella	Hexadecanoic acid	0.809	0.003
Prevotella_9	Succinate	0.802	0.003
Alloprevotella	Succinate	0.864	0.001
Ruminococcaceae	Tetrahydrofolate	0.900	0.000
Prevotella_9	Tetrahydrofolate	0.884	0.000
Subdoligranulum	Tetrahydrofolate	0.900	0.000
Subdoligranulum	Glycocholic Acid	0.827	0.002
Proteobacteria_Colon	Deoxycholic acid glycine conjugate	0.818	0.002
Proteobacteria_Colon	Sodium glycochenodeoxycholate	0.818	0.002
Alloprevotella	alpha-Linolenic acid	0.864	0.001

Alloprevotella	Chenodeoxycholic Acid	0.818	0.002
Subdoligranulum	Sphingosine-1-phosphate	0.827	0.002
Oscillospiraceae	Sphingosine	0.827	0.002
Rikenellaceae	Sphingosine	0.836	0.001
Rikenellaceae_RC9_gut_group	Sphingosine	0.818	0.002
Anaerococcus	Sphingosine	0.897	0.000
Alloprevotella	L-Isoleucine	0.855	0.001
Lachnospiraceae	Indole	-0.86364	0.000612
Lachnospiraceae_AC2044_group	Indole	-0.85649	0.000761
Treponema	Indole	-0.84545	0.001045
unclassified_Christensenellaceae	Indole	-0.88182	0.00033
Ruminococcus	9-Oxononanoic acid	-0.90909	0.000106
Campylobacterota	9-Oxononanoic acid	-0.84545	0.001045
Lachnospiraceae	Sebacic acid	-0.86364	0.000612
unclassified_Christensenellaceae	Sebacic acid	-0.81818	0.002083
Ruminococcus	Sebacic acid	-0.85455	0.000807
Lachnospiraceae	heptanoate	-0.84545	0.001045
Treponema	heptanoate	-0.82727	0.001677
unclassified_Christensenellaceae	heptanoate	-0.84545	0.001045
Ruminococcus	heptanoate	-0.84545	0.001045
Lachnospiraceae	Hexadecanedioic acid	-0.88182	0.00033
Lachnospiraceae_AC2044_group	Hexadecanedioic acid	-0.80638	0.002715
Treponema	Hexadecanedioic acid	-0.88182	0.00033
unclassified_Christensenellaceae	Hexadecanedioic acid	-0.85455	0.000807
Ruminococcus	Hexadecanedioic acid	-0.80909	0.002559
Lachnospiraceae	9,10-Epoxyoctadecanoic acid	-0.84545	0.001045
Treponema	9,10-Epoxyoctadecanoic acid	-0.86364	0.000612
unclassified_Christensenellaceae	9,10-Epoxyoctadecanoic acid	-0.82727	0.001677
Turicibacter	Glycochenodeoxycholate	-0.80909	0.002559
Lachnospiraceae	Hexadecanoic acid	-0.84545	0.001045
Lachnospiraceae_AC2044_group	Hexadecanoic acid	-0.88383	0.000307
Treponema	Hexadecanoic acid	-0.85455	0.000807
unclassified_Christensenellaceae	Hexadecanoic acid	-0.87273	0.000455
Lachnospiraceae_AC2044_group	Succinate	-0.82005	0.001994
unclassified_Christensenellaceae	Succinate	-0.89091	0.000233
Ruminococcus	Succinate	-0.87273	0.000455
Lachnospiraceae	Tetrahydrofolate	-0.81818	0.002083
Lachnospiraceae_AC2044_group	Tetrahydrofolate	-0.82005	0.001994
Treponema	Tetrahydrofolate	-0.82727	0.001677
unclassified_Christensenellaceae	Tetrahydrofolate	-0.80909	0.002559
Ruminococcus	Tetrahydrofolate	-0.83636	0.001333
Oscillospiraceae	Taurodeoxycholic acid	-0.83636	0.001333
Campylobacterota	Taurodeoxycholic acid	-0.89091	0.000233
unclassified_Enterobacteriaceae	Taurodeoxycholic acid	-0.90661	0.000119

Campylobacterota	Glycocholic Acid	-0.88182	0.00033
unclassified_Enterobacteriaceae	Glycocholic Acid	-0.84738	0.000991
Lachnospiraceae	Deoxycholic acid glycine conjugate	-0.81818	0.002083
Campylobacterota	Deoxycholic acid glycine conjugate	-0.85455	0.000807
unclassified_Enterobacteriaceae	Deoxycholic acid glycine conjugate	-0.85649	0.000761
Lachnospiraceae	Sodium glycochenodeoxycholate	-0.85455	0.000807
Oscillospiraceae	Sodium glycochenodeoxycholate	-0.81818	0.002083
Campylobacterota	Sodium glycochenodeoxycholate	-0.83636	0.001333
unclassified_Enterobacteriaceae	Sodium glycochenodeoxycholate	-0.91572	7.58E-05
Lachnospiraceae	alpha-Linolenic acid	-0.84545	0.001045
Lachnospiraceae_AC2044_group	alpha-Linolenic acid	-0.80182	0.002993
Treponema	alpha-Linolenic acid	-0.84545	0.001045
unclassified_Enterobacteriaceae	alpha-Linolenic acid	-0.8246	0.001789
Lachnospiraceae	Chenodeoxycholic Acid	-0.89091	0.000233
Treponema	Chenodeoxycholic Acid	-0.84545	0.001045
Campylobacterota	Chenodeoxycholic Acid	-0.80909	0.002559
unclassified_Enterobacteriaceae	Chenodeoxycholic Acid	-0.83827	0.001268
Campylobacterota	Sphingosine-1-phosphate	-0.88182	0.00033
unclassified_Enterobacteriaceae	Sphingosine-1-phosphate	-0.84738	0.000991
Rikenellaceae	Octanoic acid	-0.81818	0.002083
unclassified_Enterobacteriaceae	Octanoic acid	-0.86105	0.000663
Lachnospiraceae	L-Isoleucine	-0.89091	0.000233
Treponema	L-Isoleucine	-0.9	0.00016
unclassified_Christensenellaceae	L-Isoleucine	-0.80909	0.002559

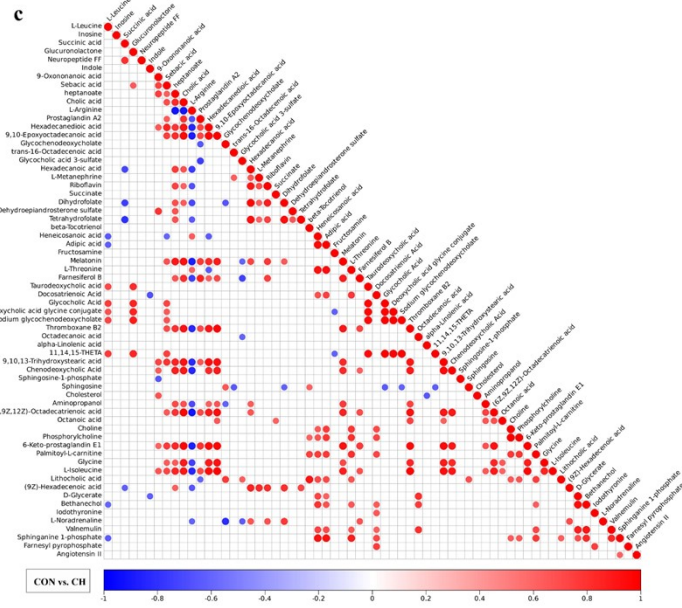
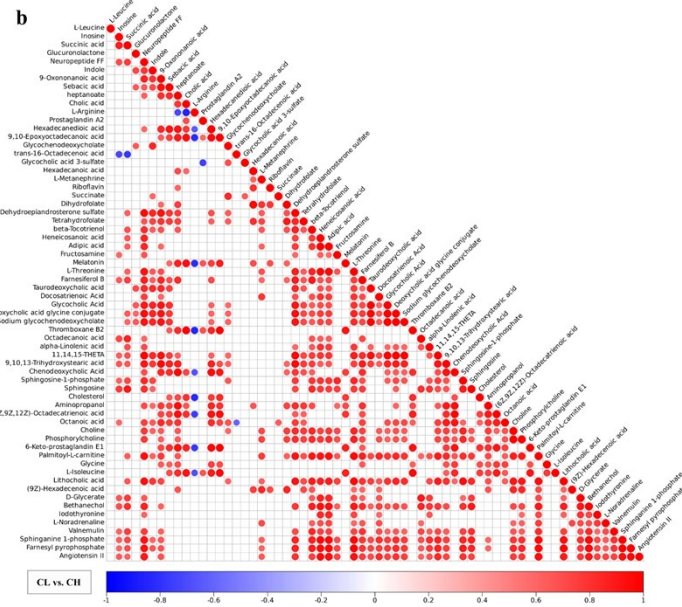
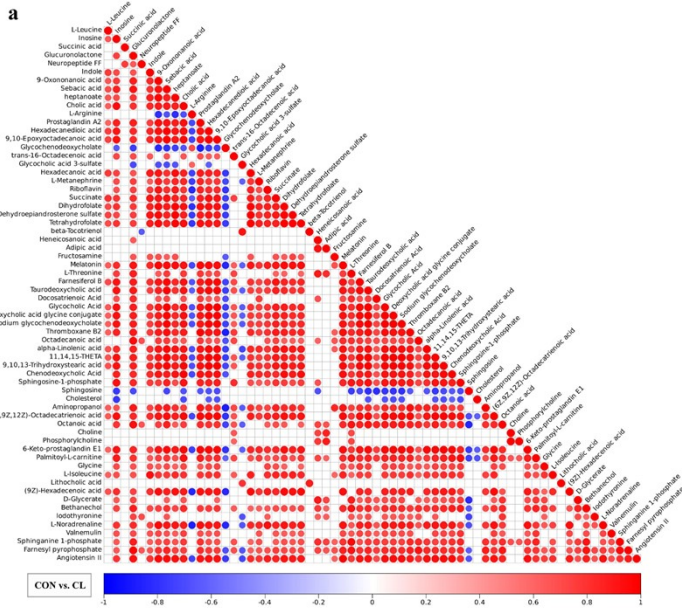


Fig S1: Correlation analysis of differential metabolites. (a) CON vs. CL. (b) CL vs. CH.
(c) CON vs. CH. Red for positive correlations and blue for negative.