

## Lipidomic Analyses Details

### Triglyceride species

(number of carbons, number of double bonds)

- o From 48:0 to 56:7

### Diacylglycerol isomers

(1,2- vs 1,3-) and species

- o di12:0DG
- o di14:0DG
- o 14:0/16:1DG
- o 12:0/18:0DG
- o 14:0/16:0DG
- o di16:1DG
- o 14:0/18:1DG
- o 16:0/16:1DG
- o 14:0/18:0DG
- o di16:0DG
- o 16:0/18:2DG
- o 16:1/18:1DG
- o 16:0/18:1DG
- o 18:0/16:1DG
- o 16:0/18:0DG
- o 16:0/20:4DG
- o di18:2DG
- o 16:0/20:3DG
- o 18:0/18:3DG
- o 18:2/18:1DG
- o 16:0/20:2DG
- o 18:0/18:2DG
- o di18:1DG

### Lactosylceramides

- o 16:0LacCer
- o 18:0LacCer
- o 20:0LacCer
- o 22:0LacCer
- o 23:0LacCer
- o 24:0LacCer
- o 24:1LacCer

### Sphingosine

#### Sphingosine-1-phosphate

#### Ceramide phosphate species

- o 16:0
- o 18:0
- o 20:0
- o 22:0
- o 24:0
- o 24:1

### Acyl-carnitine species

- o 4:0AC
- o 6:0AC
- o 8:0AC
- o 10:0AC
- o 12:0 AC
- o 14:0 AC
- o 16:0 AC
- o 16:1 AC
- o 18:0 AC
- o 18:1 AC
- o 18:2 AC
- o 18:3 AC

### Sphingomyelin species

- o 14:0SPM
- o 16:0SPM
- o 16:1SPM
- o 18:0SPM
- o 18:1SPM
- o 18:2SPM
- o 20:0SPM
- o 20:1SPM
- o 20:2SPM
- o 22:0SPM
- o 22:1SPM
- o 23:0SPM
- o 24:0SPM
- o 24:1SPM
- o 24:2SPM
- o 24:3SPM

### Eicosanoids

- o Leukotrienes
- o Prostaglandins
- o HETEs

### Glucosylceramides

- o 16:0GluCer
- o 18:0GluCer
- o 20:0GluCer
- o 22:0GluCer
- o 23:0GluCer
- o 24:0GluCer
- o 24:1GluCer

**Dihydroceramides**

- o 16:0dhCer
- o 18:0dhCer
- o 20:0dhCer
- o 22:0dhCer
- o 22:1dhCer
- o 23:0dhCer
- o 24:0dhCer
- o 24:1dhCer
- o 26:0dhCer
- o 26:1dhCer

**Phosphatidic Acid and  
Lysophosphatidic Acid species**

- o 32:0PA
- o 34:1PA
- o 38:4PA

**Ceramides**

- o 14:0Cer
- o 16:0Cer
- o 18:0Cer
- o 20:0Cer
- o 22:0Cer
- o 22:1Cer
- o 23:0Cer
- o 24:0Cer
- o 24:1Cer
- o 24:2Cer
- o 26:0Cer
- o 26:1Cer

**Free fatty acid species  
(others available as needed)**

- o 12:0 FFA
- o 14:0 FFA
- o 16:0 FFA
- o 16:1 FFA
- o 18:0 FFA
- o 18:1 FFA
- o 18:2 FFA
- o 18:3 FFA