

## Lipidomics

### Lipid Classes

- Glycerophospholipids, sphingolipids
- Triacylglycerols, cholesterol esters
- 1000s of lipid species

### Extraction Protocols

- Bligh-Dyer, Folch methods
- Biphasic extraction
- Lipid class-specific protocols

### Separation Strategies

- Direct infusion (shotgun lipidomics)
- LC-MS with C8/C18 columns
- Supercritical fluid chromatography

### Nomenclature

- Lipid MAPS classification
- Fatty acid composition notation
- Standardized reporting