

Mass Spectrometry Imaging Services

Mass spectrometry imaging is available to researchers for both clinical and preclinical investigations. MSI experiments can be tailored based on experimental needs but examples of disease-based characterization include; inter- and intra-tumor heterogeneity, infectious diseases, inflammatory diseases, neurological diseases and normal-tissue radiation injury. Our sample preparation workflows enable routine high resolution imaging studies.

Applications include:

- Pharmacokinetic/Pharmacodynamic Studies
 - Drug and metabolite distribution
 - Drug induced toxicity – phospholipidosis
 - Pharmacodynamic biomarkers

- Lipids and Metabolites
 - Sphingolipids and glycosphingolipids
 - Phospholipids
 - Cardiolipins
 - Cholesterol
 - Bile acids
 - Triacylglycerol
 - Glycolysis metabolites
 - Hexosamine biosynthetic pathway metabolites
 - Pentose phosphate pathway metabolites
 - TCA cycle metabolites
 - Amino acids
 - Nucleotides
 - Biogenic amines

- Glycans
 - N-linked glycans