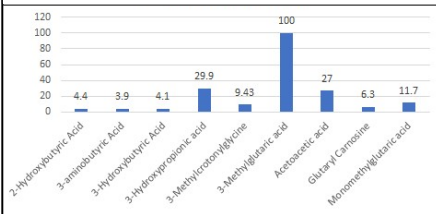


Monitoring Human Plasma for Mitochondrial dysfunction



Mitochondrial Beta-Oxidation Dysfunction z score in human plasma

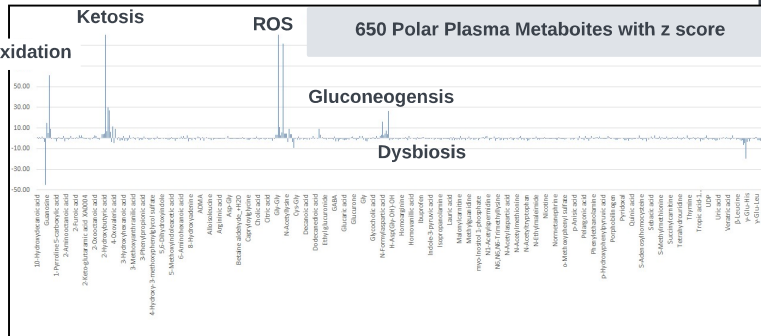
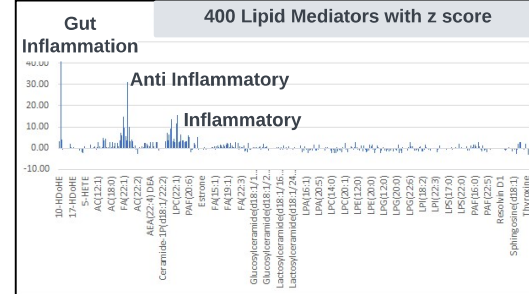
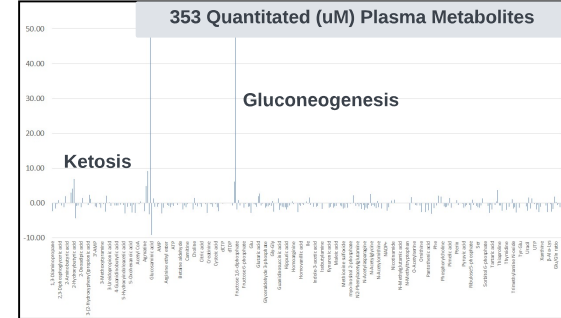


Polar Scan (untargeted)
Q353 Panel (targeted)
Mediator Scan (targeted)

Over 700 Polar metabolites
400 Bioactive Lipids
353 Quantitative Measurements

Ketosis
Gluconeogenesis
Fatty Acid Oxidation
ROS / NOS
Biomarker Discovery
Pathway Analysis

Plasma Quality Assessment
Open Statistical and Graphing Options



Decrease Glycolysis
Increase Mitogenesis
Increase Fatty Acid Oxidation

Skeletal Muscle

Calorie Restriction (CR)

AMPK
Glucose Sensor

SIRT1

Heart

Increase Ischemic Tolerance
Decrease hypertrophy

Pancreatic beta-cells

Insulin Secretion

LIVER

Decrease Glycolysis
Increase Gluconeogenesis
Increase beta-Fatty Acid Oxidation
Increase Ketone Bodies
Decrease Inflammation
Decrease ROS

ADIPOCYTES

Increase Browning White Fat
Energy derived from Fat
Increase Leptin
Increase Adiponectin
Glucose Regulation
Increase Inflammation