

Bioanalytics, Metabolomics and Pharmacokinetics Shared Resource (BMPK)

Director: James Mohler, MD

Quantitative Targeted Metabolomics

The BMPK Shared Resource at Roswell Park is launching a new service for Targeted Metabolomics analysis to support the growing Omics research efforts in the Buffalo area. The analysis uses **Mass Spectrometry** and the **Biocrates MxP[®] Quant 500 kit**. Key features of the analysis include:

Broad Pathway Coverage

- Comprehensive quantification of up to 630 metabolites from 26 biochemical classes
- Broad coverage of metabolic pathways

Functional Microbiomics

- Includes dozens of metabolites specific for microbiome and its interaction with the host

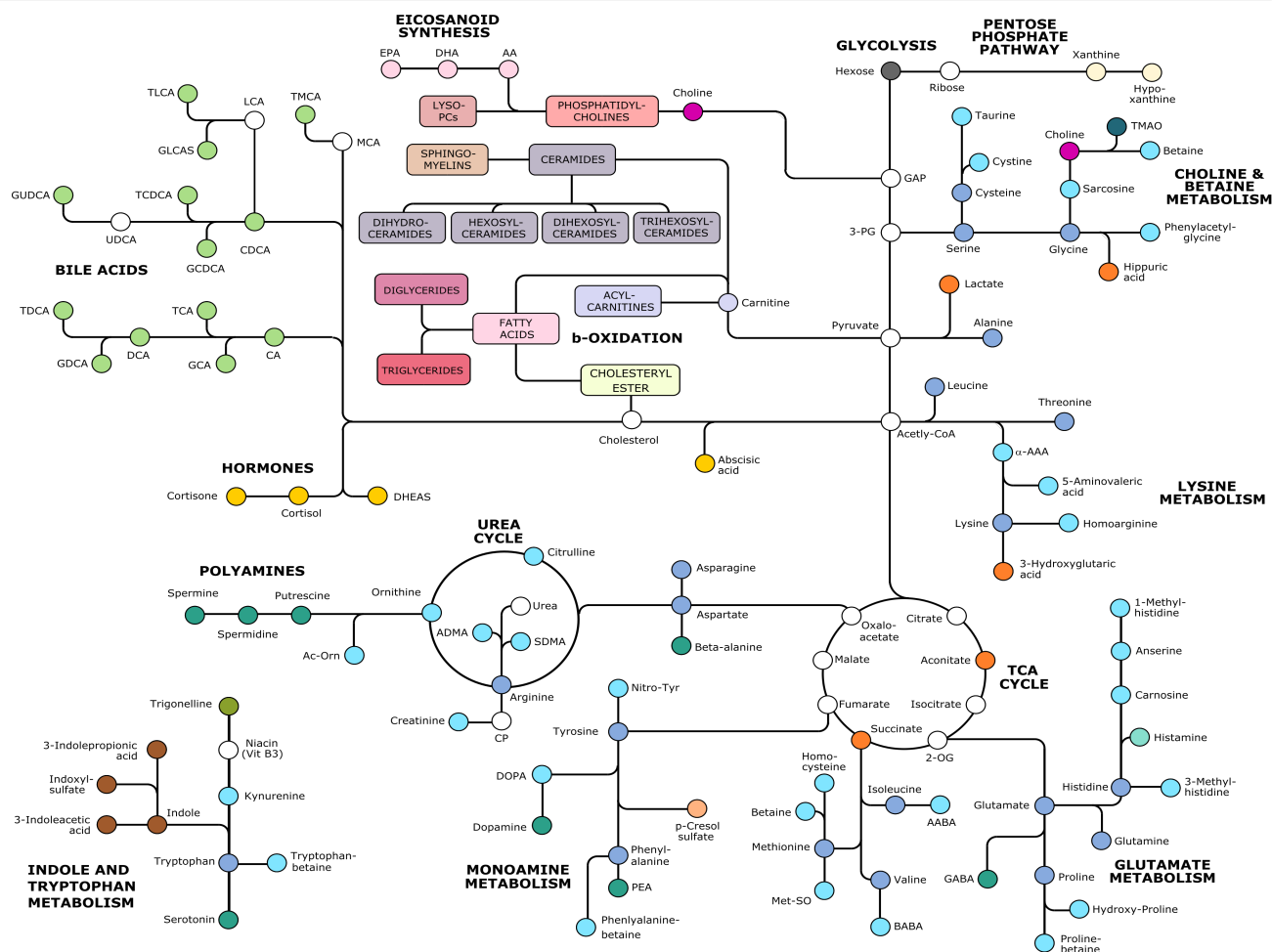
Wide Sample Applications

- Suitable for analyzing cell culture, biological fluid, tissue, and feces samples from various species
- Requires as little as 10 µL of sample

Quantitative & Reproducible

- Calibrated and quantitative readouts
- Robust with excellent accuracy and precision

Metabolite and Pathway Coverage



Note: Metabolites as white circles are not quantified

Small Molecules

Alkaloids (1)	Biogenic Amines (9)	Hormones and Related (4)
Amine Oxides (1)	Carbohydrates and Related (1)	Indoles and Derivatives (4)
Amino Acids (20)	Carboxylic Acids (7)	Nucleobases and Related (2)
Amino Acid Related (30)	Cresols (1)	Vitamins and Cofactors (1)
Bile Acids (14)	Fatty Acids (12)	

Lipids

Acylcarnitines (40)	Ceramides (70)
Lysophosphatidylcholines (14)	Cholesterol Esters (22)
Phosphatidylcholines (76)	Diglycerides (44)
Sphingomyelins (15)	Triglycerides (242)

For information on services and pricing, contact Wenjuan Zha, PhD, Associate Director
(716) 845-3258 or Wenjuan.Zha@RoswellPark.org