

Nutrient and Phytochemical Analytic Shared Resource:

Re-open for business!

The Nutrient & Phytochemical Analytic Shared Resource (NPASR) is a shared resource of the OSU Comprehensive Cancer Center. **Rated 'outstanding to exceptional' by the NCI**

Specialties:

Phytochemicals in crops, food products, as well as blood, urine and tissues

Classes of phytochemicals include: polyphenols, carotenoids, and glucosinolates found in foods such as berries, tomatoes, cruciferous vegetables, and soy

Metabolomics: targeted and untargeted approaches for biomarker discovery

Lipidomics: targeted and untargeted approaches for biomarker discovery

Experience:

Human, rodent, plant, food, and cell culture systems

Instrumentation:

UHPLC-diode array/triple quadrupole MS/MS for targeted phytochemical, lipidomics, and metabolomics analyses

SFC-QTOF MS/MS and UHPLC-QTOF MS/MS technologies for untargeted lipidomics and metabolomics

Post-data Acquisition and Consultative Services:

Discriminant and multivariate data analysis are conducted in-house as well as pathway analysis through our interface with the Biomedical Informatics Shared Resource

Development of food products for rodent studies and clinical evaluation

Dietary assessment tools, food frequency questionnaires, food diary analysis

Contacts:

Ken Riedl, PhD; Technical Director

Faculty co-directors are Steven Clinton, MD PhD and Devin Peterson PhD

Phone: 614-292-4069

e-mail: npasr@osu.edu

Website: u.osu.edu/npasr