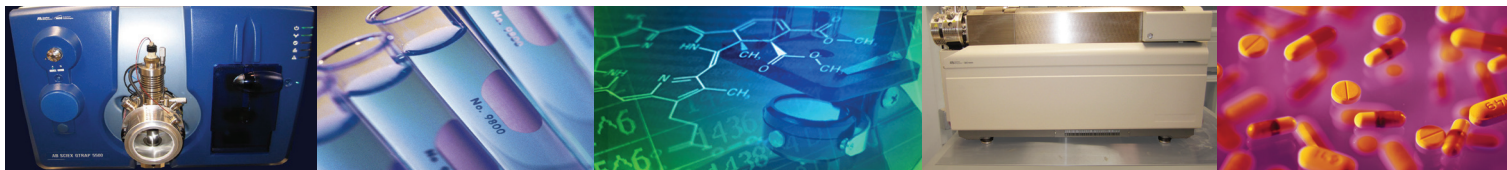


# OHSU Research Cores and Shared Resources

## Bioanalytical/Pharmacokinetics

OHSU's cores are your campus technology partners dedicated to the success of your project. For optimal results, take advantage of the state-of-the-art scientific resources within the OHSU community.

[www.ohsu.edu/cores](http://www.ohsu.edu/cores)



**The Bioanalytical Shared Resource/Pharmacokinetics Core provides the OHSU research community with access HPLC, GC/MS and LC-MS/MS instrumentation and expertise for the analysis of small molecules from biological sources.**

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### Service Overview

The Bioanalytical Shared Resource/Pharmacokinetics Core (BSR/PK Core) provides five essential services:

- Provide the OHSU research community with access to highly specialized instrumentation for the analysis of small molecules that can include training to operate the instruments.
- Provide specialized expertise essential to assay development, sample preparation, training on instrumentation and interpretation of mass spectral data. The Core can function as a service laboratory to provide complete analysis of samples including the development of analytical methods, sample preparation, and data analysis.
- Support for experimental design and the interpretation and modeling of pharmacokinetic and pharmacodynamic data can be obtained.
- Provide access to equipment needed for sample preparation for analysis in the BSR/PK Core. This includes nitrogen evaporation systems, heating blocks, specialized glassware and fume hoods.
- Educate the OHSU research community about the capabilities of the analytical instrumentation and stimulate new research programs.

### Equipment

Liquid Chromatography/Tandem Mass Spectrometry Systems include:

- Two Applied BioSystems 4000 QTRAP triple-quadrupole, linear ion trap hybrid mass spectrometers provide quantitative and qualitative performance with UPLC capability available from an in-line Shimadzu Prominence system.
- An Applied BioSystems 5500 QTRAP triple-quadrupole, linear ion trap hybrid mass spectrometers provide quantitative and qualitative performance with UPLC capability available from an in-line Shimadzu Prominence system. Offers greater sensitivity than the 4000 QTRAP and the ability to perform MS<sup>3</sup> experiments.

### Gas Chromatography

- An Agilent 7890B/5977A GC/MSD that includes an autosampler, split/spiltless and multimode injectors for use with molecules requiring a gas chromatographic interface for separation. The instrument includes electron impact or chemical ionization modes as well as a separate flame ionization detector.

### High Pressure Liquid Chromatography

- An Agilent 1100 HPLC system with a photodiode array and fluorescence detectors.