

2014 FUND A NEED

# Mass Spectrometer

To develop new drug therapies, researchers must learn what happens to an experimental drug once it enters the body. This field of study is called “pharmacokinetics.” It aims to understand how drugs are absorbed and distributed in the body and how they are eliminated through metabolism, chemical degradation or excretion. To study this, researchers use a set of laboratory techniques called “liquid chromatography and mass spectrometry,” or LC-MS. Chemists and pharmacologists use the Mass Spectrometer to understand how drugs developed at Ohio State work in various studies and in patients enrolled on clinical trials. The purchase of the new Mass Spectrometer helps OSUCCC – James investigators conduct such “quantitative pharmacology” studies, achieve a better understanding of disease progression and drug resistance and develop more effective cancer therapies.

