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Metabolite Profiling Facility
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Bruce Cooper has been working at the BBC since December 2005. Prior to that, he was employed for over 10 years at Eli Lilly & Company, where he was responsible for developing, validating and registering the analytical assays needed to characterize and monitor the chemical synthesis production of a pharmaceutical active ingredient. These activities included all purchased starting materials and chemical intermediates, as well as the final drug substance. The methods were then submitted to governmental review agencies for approval and ultimately were transferred to a cGMP-compliant quality control laboratory.

Dr. Cooper earned a B.S. in Chemistry in 1987 from the University of Richmond in Richmond, Virginia, where his research studies involved the isolation, purification and characterization of an iron-binding protein from the hemolymph of the horseshoe crab. In 1992, Dr. Cooper received a Ph.D. in Analytical Chemistry from the University of North Carolina in Chapel Hill, North Carolina, where his graduate work involved the quantitation of epinephrine and norepinephrine secretion from individual adrenal medullary cells by microcolumn liquid chromatography with electrochemical detection.

For the Bindley Bioscience Center, Dr. Cooper is a metabolomics applications specialist. He maintains the Metabolite Profiling Facility (MPF), which is located in room 302 in the Horticulture Building at Purdue University's main campus in West Lafayette. Dr. Cooper uses two liquid chromatography/mass spectrometers (LC/MS) and one gas chromatography/mass spectrometer (GC/MS). The MPF collaborates with investigators who are interested in utilizing the facility's equipment and expertise to identify and quantitate small molecules, usually in biological systems.