

The Horticultural Sciences Department at the University of Florida Presents:



Dr. Lloyd W. Sumner
Professor, Analytical Biochemistry
Plant Biology Division
The Samuel Roberts Noble Foundation

Integrated Metabolomics for Natural Product Gene Discovery in *Medicago truncatula*

Monday, December 16, 2013

12:00 noon

UF Clinical Translational Research Building (CTRB) Room 3161

Dr. Sumner is a world leader in metabolomics research, and a tireless advocate and educator in the field. His research interests include developing, advancing and implementing leading-edge instrumental techniques for large scale profiling and identification of metabolites (metabolomics) and proteins (proteomics). Metabolomics and proteomics provide high-resolution views of the biochemical phenotype. Comparative profiling provides detailed quantitative and qualitative information that is highly valuable in gene validation, gene discovery, elucidation of pathway mechanisms and in providing insight into the cellular responses to external stimuli. Correlating expression profiles with genetic information also provides a unique way of understanding gene function and interrelationships between genes.