



University of Missouri Metabolomics Center
Bond Life Sciences Center, Rm 243
1201 Rollins St., Columbia, MO 65211

Job Title: Postdoctoral Fellow in Metabolomics/Metabolite Identification Job ID# 19989

Job Description The University of Missouri Metabolomics Center, seeks a postdoctoral research fellow with a Ph.D. in analytical chemistry, organic chemistry, plant biochemistry or phytochemistry for the systematic and biologically driven annotation of two plant metabolomes, i.e., *Medicago truncatula* and *Arabidopsis thaliana*. This position is available beginning immediately and is within Dr. Lloyd W. Sumner's laboratory. This position is funded by the U.S. National Science Foundation and is part of a collaborative project with scientists in Japan (RIKEN Yokohama and Kasuza DNA Center, Chiba) and at Iowa State University. The research will focus upon the development of advanced analytical technologies for the large-scale annotation of plant metabolites and their spatial accumulation. More specifically, the researcher will further develop integrated UPLC-MS-SPE-NMR for metabolite identification and then apply the advanced technology to the systematic and biologically driven annotation of the *Medicago truncatula* and *Arabidopsis thaliana* metabolomes. The research will also involve the development of spectral library resources that will be made publicly available and will significantly enhance capabilities for the metabolomics community. The empirical metabolome annotation research will parallel a mutually beneficial computational approach for the large-scale annotation of plant metabolites and their spatial distribution to advance the scientific promise of metabolomics.

Qualifications The ideal candidate will be a self-motivated problem solver with multi-disciplinary skill sets. Strong communication skills along with an intimate knowledge of **NMR** and **MS** instrumentation, **spectral interpretation**, phytochemistry, plant biochemistry, and/or computer data processing are highly advantageous. The ideal candidate should be self-motivated and have the ability to work independently.

Salary \$45,476

Application Materials: Please email statement of interest, at least three professional references, graduate transcript(s) and current CV including publication list to Dr. Lloyd Sumner, Prof. of Biochemistry and Director of the MU Metabolomics Center at sumnerlw@Missouri.edu.



College of Arts and Science
University of Missouri