Dr. Christopher J. Petzold

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Education:

2002	Ph.D. Chemistry, Purdue University, West Lafayette, IN
1997	B.S. Chemistry (Cum Laude), Taylor University, Upland, IN
1997	B.A. Physics (Cum Laude), Taylor University, Upland, IN

Professional Positions:

2008-

Research Scientist, Lawrence Berkeley National Laboratory

- Developed and applied mass spectrometric methods for quantitative proteomics of metabolically engineered microbes, plant biomass, and microbial communities
- From 2015, Deputy Vice President, Technology at JBEI
- From 2012, Director of Proteomics at JBEI
- From 2008-2012, Scientist and Deputy Director of Functional Genomics at JBEI
- Member of the Biotechnology Division of the ENIGMA SFA program
- LBNL scientist lead for Afingen DOE-SBIR program
- 2005-2008 Professional Research Engineer, University of California, Berkeley
 - Coordinated the Artemisinin Project research in the Keasling group with the project partners, Amyris Biotechnologies and the Institute for OneWorld Health and developed analytical methods for quantitative protein analysis
 - Provided general guidance and analytical tutorials to graduate students, post-docs and scientists, including selecting appropriate sample matrices and instruments, designing experiments, and developing sample handling methods to improve analyses
- 2004-2005 Post-doctoral research associate, University of California, Davis
 - Investigated the dependence of the *M. tuberculosis* lipidome on the availability of propionate
 - Applied mass spectrometric methods for glycomic studies of lipoarabinomannans from *Mycobacteria spp.*
 - Organized and supervised the relocation of the lab from University of California, Berkeley to University of California, Davis
- 2002-2004 <u>Post-doctoral research associate</u>, University of California, Berkeley
 Characterized sulfated metabolites of *Mycobacteria spp.* by using metabolic labeling and FT-ICR mass spectrometry
 - Developed glycomic methods to identify phosphorylated carbohydrates in complex biological mixtures with mass spectrometry
- 1997-2002 <u>Research assistant</u>, Purdue University
 - Developed laser-induced acoustic desorption (LIAD) as a technique to evaporate nonvolatile, thermally labile molecules for subsequent chemical ionization studies

Current Research Grants:

Joint BioEnergy Institute, Technology Division, Proteomics Group, Department of Energy/Office of Biological and Environmental Research, (Role: Deputy Vice President)

ENIGMA, Biotechnology Division, Department of Energy/Office of Biological and Environmental Research, (Role: Scientist)

Afingen Inc., Department of Energy/Office of Biological and Environmental Research SBIR Grant, (Role: LBNL lead scientist)

Service:

2008-Building Emergency Team, Lawrence Berkeley National Laboratory2008-2009Safety Advisory Committee, Lawrence Berkeley National Laboratory

Reviewer for Applied and Environmental Microbiology, Biotechnology for Biofuels, Environmental Science and Technology, PLoS ONE, Frontiers in Bioeng. Biotechnol., Frontiers in Plant Proteomics, J. Am. Soc. Mass Spectrom.

Honors and Awards:

- 2010 JBEI Technology Award
- 2000 Pfizer Graduate Research Fellowship
- 1998 Lubrizol Corporation Fellowship
- 1997-98 Grace Foundation Fellowship
- 1993 Kalamazoo Foundation Scholarship