

Stanley M. Stevens, Jr., Ph.D.
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A. Education

UNIVERSITY OF CENTRAL FLORIDA

B.S. in Chemistry, *May 1996*

UNIVERSITY OF FLORIDA

Ph.D. in Chemistry, *August 2001*

B. Positions

Jan 2009 – present	Assistant Professor, Department of Cell Biology, Microbiology and Molecular Biology, University of South Florida, Tampa, FL
Oct 2008 – Dec 2011	Scientific Director, CDDI Proteomics Core, University of South Florida, Tampa, FL
Mar 2007 – Oct 2008	Research Assistant Professor and Associate Director of the Advanced Mass Spectrometry Laboratory, Department of Molecular Biology and Immunology, University of North Texas Health Science Center, Fort Worth, TX
Sep 2004 - Feb 2007	Scientific Director, Proteomics Core, University of Florida, Gainesville, FL
Sep 2003 - Feb 2007	Assistant Scientist, Proteomics Core, University of Florida, Gainesville, FL
Sep 2001 - Aug 2003	Postdoctoral Research Associate, Center for Drug Discovery and Department of Pharmaceutics, College of Pharmacy, University of Florida, Gainesville, FL; Postdoctoral Research Associate, Department of Botany, University of Florida, Gainesville, FL (joint appointment)

Professional Societies

Member, Research Society on Alcoholism

Member, Society for Neuroscience

Member, American Society for Mass Spectrometry

Member, Human Proteome Organization

C. Selected publications

Patents

- U.S. Patent # 7,476,656. "Fluorescent affinity tag to enhance phosphoprotein detection and characterization".
- USF internal application #12B114. "SILAC-based Proteomic Analysis for Detection of Biomarkers of Alzheimer's Disease".

Book chapters (corresponding author role for Stevens underlined)

- Prokai, L.; **Stevens Jr., S. M.**; Simonsick Jr., W. J.; "Gel Permeation Chromatography Coupled to Mass Spectrometry for Oligomer Analysis"; in Multiple Detection in Size-Exclusion Chromatography; Striegel, André, Ed; American Chemical Society: Washington, DC (2004).
- Liu, B.; Barber, D. S.; **Stevens Jr., S. M.**; "Stable Isotope Labeling with Amino Acids in Cell Culture (SILAC)-based Proteomic Analysis of Ethanol-Induced Protein Expression Profiles in Microglia"; in Psychiatric Disorder: Methods and Protocols; Kobaissy, Firas, Ed; Humana Press Inc.: Totowa, NJ (2012).
- Maldonado-Devincci, A. M.; **Stevens Jr., S. M.**; Kirstein, C. L.; "Investigation of Age-Specific Behavioral and Proteomic Changes in an Animal Model of Chronic Ethanol Exposure"; in Psychiatric Disorder: Methods and Protocols; Kobaissy, Firas, Ed; Humana Press Inc.: Totowa, NJ (2012).
- Bell-Temin, H.; Zhang, P.; Liu, B.; **Stevens Jr., S. M.**; "Biomarkers of drug abuse-induced brain changes: Neuroinflammation and microglial role in alcohol exposure"; Biomarkers of Brain Injury & Brain Disorders; Wang, Kevin K. W., Ed, Zhang, Zhiquan, Ed and Kobaissy, Firas, Ed; Science Publishers; Enfield, NH (2014).

Peer-reviewed journal articles (corresponding author role for Stevens underlined)

1. **Stevens, S. M., Jr.**; Dunbar, R. C.; Price, W. D.; Sena, M.; Watson, C. H.; Nichols, L. S.; Riveros, J. M.; Richardson, D. E.; Eyster, J. R.; "Blackbody Infrared Radiative Dissociation of Partially Solvated Tris(2,2'-bipyridine)ruthenium(II) Complex Ions" *J. Phys. Chem. A.*, 106, 9686-9694 (2002).
2. **Stevens, S. M., Jr.**; Kem, W. R.; Prokai, L.; "Investigation of Cytolysin Variants by Peptide Mapping: Enhanced Protein Characterization Using Complementary Ionization and Mass Spectrometric Techniques," *Rapid Commun. Mass Spectrom.*, 16, 2094-2101 (2002).
3. Prokai-Tatrai, K.; Nguyen, V.; Zharikova, A. D.; Braddy, A. C.; **Stevens, S. M.**; Prokai, L.; "Prodrugs to Enhance Central Nervous System Effects of the TRH-like Peptide pGlu-Glu-Pro-NH₂," *Bioorg. & Med. Chem. Lett.*, 13, 1011-1014 (2003).
4. **Stevens, S. M., Jr.**; Zharikova, A. D.; Prokai, L.; "Proteomic Analysis of the Synaptic Plasma Membrane Fraction Isolated from Rat Forebrain," *Mol. Brain. Res.*, 117, 116-128 (2003).
5. Yang, S-H.; Liu, R.; Perez, E. J.; Wen, Y.; **Stevens Jr., S. M.**; Valencia, T.; Brun-Zindernagel, A.-M.; Prokai, L.; Will, Y.; Dykens, J.; Koulen, P.; Simpkins, J. W.; "Mitochondrial Localization of Estrogen Receptor Beta"; *Proc. Natl. Acad. Sci. USA*, 101, 4130-4135 (2004).
6. **Stevens Jr., S.**; Dunbar, R. C.; Price, W. D.; Sena, M.; Watson, C. H.; Nichols, L. S.; Riveros, J. M.; Richardson, D. E.; Eyster, J. R.; "Blackbody Infrared Radiative Dissociation of Partially Solvated Mixed Ligand Ru(II) Complex Ions"; *J. of Phys. Chem. A.*, 108, 9892-9900 (2004).
7. Prokai, L.; Prokai-Tatrai, K.; Zharikova, A. D.; Nguyen, V., and **Stevens Jr., S. M.**; "Centrally-Acting and Metabolically Stable Thyrotropin-Releasing Hormone Analogues upon Replacement of Histidine with Substituted Pyridinium"; *J. Med. Chem.*, 47, 6025-6033 (2004).
8. Prokai, L.; Zharikova, A. D.; **Stevens Jr., S. M.**; "The Effect of Chronic Morphine Exposure on the Synaptic Plasma-Membrane Subproteome of Rats: A Quantitative Protein Profiling Study Based on Isotope-Coded Affinity Tags and Liquid Chromatography-Mass Spectrometry"; *J. Mass Spectrom.*, 40, 169-175 (2005).

9. **Stevens Jr., S. M.**; Prokai-Tatrai, K.; Prokai, L.; "Rapid Screening of Combinatorial Libraries by Mass Spectrometry: A Novel Approach for Monitoring Substrate Specificity"; *Anal. Chem.*, 77, 698-701 (2005).
10. Bajpai, L.; Varshney, M.; Seubert, C. N.; **Stevens Jr., S. M.**; Johnson, J. V.; Yost, R. A.; Dennis, D. M.; "Mass Spectral Fragmentation of the Intravenous Anesthetic Propofol and Structurally Related Phenols"; *J. Am. Soc. Mass Spectrom.*, 16, 814-824 (2005).
11. **Stevens Jr., S. M.**; Chung, A. Y.; Chow, M. C.; McClung, S. H.; Strachan, C. N.; Harmon, A. C.; Denslow, N. D.; Prokai, L.; "Enhancement of Phosphoprotein Analysis Using a Fluorescent Affinity Tag and Mass Spectrometry"; *Rapid Commun. Mass Spectrom.*, 19, 2157-2162 (2005).
12. Lentz, M. R.; **Stevens Jr., S. M.**; Raynes, J.; Elkhoury, N.; "A Phosphorylation Map of the Bovine Papillomavirus E1 Helicase"; *Virology*, 3:13 (2006).
13. Fuller, B. F.; **Stevens Jr., S. M.**; Sehnke, P. C.; Ferl, R. J.; "Proteomic analysis of the 14-3-3 family in Arabidopsis"; *Proteomics*, 6, 3050-3059 (2006).
14. Kirkland, P. A.; Busby, J. C.; **Stevens Jr., S. M.**; Maupin-Furlow, J. A.; "Trizol-based Method for Sample Preparation and Isoelectric Focusing of Halophilic Proteins"; *Anal. Biochem.*, 351, 254-259 (2006).
15. Humbard, M. A.; **Stevens Jr., S. M.**; Maupin-Furlow, J. A.; "Posttranslational Modification of the 20S Proteasomal Proteins of the Archaeon *Haloferax volcanii*"; *J. Bacteriol.*, 188, 7521-7530 (2006).
16. Kempler, K.; Tóth, J.; Yamashita, R.; **Stevens Jr., S. M.**; Cardasis, H.; Robinson, K.; Mapel, G.; Sellers, J.; Battelle, B. A.; "Loop 2 of Limulus myosin III is phosphorylated by protein kinase A and autophosphorylation"; *Biochemistry*, 46, 4280-4293 (2007).
17. Perera O.; Green T. B.; **Stevens Jr., S. M.**; White S.; Becnel, J. J.; "Proteins Associated with Culex nigripalpus Nucleopolyhedrovirus (CuniNPV) Occluded Virions"; *J. Virol.*, 81, 4585-4590 (2007).
18. Rauniyar, N.; **Stevens Jr., S. M.**; Prokai, L.; "Fourier-transform Ion-Cyclotron Resonance Mass Spectrometry of Covalent Adducts of Proteins and 4-Hydroxy-2-Nonenal, a Reactive End-Product of Lipid Peroxidation"; *Anal. Bioanal. Chem.*, 389, 1421-1428 (2007).
19. Barber, D. S.; **Stevens, S.**; LoPachin, R. M.; "Proteomic Analysis of Rat Striatal Synaptosomes During Acrylamide Intoxication at a Low Dose-Rate"; *Toxicol. Sci.*, 100, 156-167 (2007).
20. Cardasis, H. L.; **Stevens Jr., S. M.**; McClung, S. H.; Kempler, K.; Powell, D. H.; Eyler, J. R.; Battelle, B. A.; "The Actin-Binding Interface of a Myosin III Is Phosphorylated *in vivo* in Response to Signals from a Circadian Clock"; *Biochemistry*, 46, 13907-13919 (2007).
21. Prokai, L.; Yan, L-J; Vera-Serrano, J. L.; **Stevens Jr., S. M.**; Forster, M. J.; "Mass Spectrometry-Based Identification of Mitochondrial Proteins Susceptible to Age-Related Oxidative Carbonylation in the Rat Brain"; *J. Mass Spectrom.*, 42, 1583-1589 (2007).
22. **Stevens Jr., S. M.**; Rauniyar, N.; Prokai, L.; "Rapid Characterization of Covalent Modifications to Rat Brain Mitochondrial Proteins after *ex vivo* Exposure to 4-Hydroxy-2-Nonenal by Liquid Chromatography–Tandem Mass Spectrometry Using Data Dependent and Neutral Loss-Driven MS³ Acquisition"; *J. Mass Spectrom.*, 42, 1599-1605 (2007).

23. Bhutia, S. K.; Mallick, S. K.; **Stevens, S. M.**; Prokai, L.; Vishwanatha, J. K.; Maiti, T. K.; "Induction of mitochondria-dependent apoptosis by Abrus agglutinin derived peptides in human cervical cancer cell"; *Toxicol. In Vitro*, 22, 344-351 (2008).
24. Wasdo, S. C.; Barber, D. S.; Denslow, N. D.; Powers, K. W.; Palazuelos, M.; **Stevens Jr., S. M.**; Moudgil, B. M.; Roberts, S. M.; "Differential Binding of Serum Proteins to Nanoparticles"; *Int. J. Nanotechnol.*, 5, 92-115 (2008).
25. **Stevens Jr., S. M.**; Duncan, R. S.; Koulen, P.; Prokai, L.; "Proteomic Analysis of Mouse Brain Microsomes: Identification and Bioinformatic Characterization of Endoplasmic Reticulum Proteins in the Mammalian CNS"; *J. Proteome Res.*, 7, 1046-1054 (2008).
26. Zhang, J.; Planey, S. L.; Ceballos, C.; **Stevens Jr., S. M.**; Keay, S. K.; Zacharias, D. A.; "Identification of CKAP4/p63 as a Major Substrate of the Palmitoyl Acyl Transferase DHHC2, a Putative Tumor Suppressor, Using a Novel Proteomic Method"; *Mol. Cell. Proteomics*, 7, 1378-1388 (2008).
27. Prokai, L.; Frycak, P.; **Stevens Jr., S. M.**; Nguyen, V.; "Measurement of Acetylcholine in Rat Brain Microdialysates by LC-Isotope Dilution Tandem MS"; *Chromatographia*, 68, S101-S105 (2008).
28. **Stevens Jr., S. M.**; Prokai-Tatrai, K.; Prokai, L.; "Factors that Contribute to the Misidentification of Tyrosine Nitration by Shotgun Proteomics"; *Mol. Cell. Proteomics*, 7, 2442-2451 (2008).
29. Rauniyar, N.; **Stevens Jr., S. M.**; Prokai-Tatrai, K.; Prokai, L.; "Characterization of 4-Hydroxy-2-Nonenal-Modified Peptides by Liquid Chromatography Tandem Mass Spectrometry Using Data-Dependent Acquisition: Neutral Loss-Driven MS³ versus Neutral Loss-Driven Electron Capture Dissociation"; *Anal. Chem.*, 81, 782-789 (2009).
30. Westerheide, S. D.; Anckar, J.; **Stevens Jr., S. M.**; Sistonen, L.; Morimoto, R. I.; "Stress-Inducible Regulation of Heat Shock Factor 1 by the Deacetylase SIRT1"; *Science*, 323, 1063-1066 (2009).
31. Liu, P.; Marzahn, M. R.; Robbins, A. H.; Gutiérrez-de-Terán, H.; Rodríguez, D.; McClung, S. H.; **Stevens Jr., S. M.**; Yowell, C. A.; Dame, J. B.; McKenna, R.; Dunn, B. M.; "Recombinant plasmepsin 1 from the human malaria parasite plasmodium falciparum: enzymatic characterization, active site inhibitor design, and structural analysis"; *Biochemistry*, 48, 4086-4099 (2009).
32. Prokai, L.; **Stevens, S. M.**; Rauniyar, N.; Nguyen, V.; "Rapid Label-Free Identification of Estrogen-Induced Differential Protein Expression In Vivo from Mouse Brain and Uterine Tissue"; *J. Proteome Res.*, 8, 3862-3871 (2009).
33. **Stevens Jr., S. M.**; Wolverton, S.; Venables, B.; Barker, A.; Seeley, K. W.; Adhikari, P.; "Evaluation of microwave-assisted enzymatic digestion and tandem mass spectrometry for the identification of protein residues from an inorganic solid matrix: implications in archaeological research"; *Anal. Bioanal. Chem.*, 396, 1491-1499 (2010).
34. Guingab-Cagmat, J. D.; **Stevens Jr., S. M.**; Ratliff, M. V.; Zhang, Z.; Gold, M. S.; Wang, K. W.; Kobeissy, F. H.; "Identification of Tyrosine Nitration in UCHL1 and GAPDH"; *Electrophoresis*, 32, 1692-1705 (2011).
35. Dalal, J.S.; **Stevens, Jr., S. M.**; Alvarez, S.; Munoz, N.; Kempler, K.E.; Dose, A.C.; Burnside, B.; Battelle, B-A. "Mouse Class III myosins: Kinase activity and phosphorylation sites"; *J. Neurochem.*, 119, 772-784 (2011).

36. Barker, A.; Venables, B.; **Stevens Jr., S. M.**; Seeley, K. W.; Wang, P.; Wolverton, S.; "An optimized approach for protein-residue extraction from experimental cooking pottery"; *J. Archaeol. Method Th.*, 19, 407-439 (2012).
37. Rivera, F. E.; Miller, H. K.; Kolar, S. L.; **Stevens, Jr., S. M.**; Shaw, L. N.; "The Impact of CodY on Virulence Determinant Production in Community-Associated Methicillin Resistant Staphylococcus aureus"; *Proteomics*, 12, 263-268 (2012).
38. Bell-Temin, H.; Barber, D. S.; Liu, B.; **Stevens, Jr., S. M.**; "Proteomic Analysis of Rat Microglia Establishes a High-Confidence Reference Dataset of Over 3,000 Proteins"; *Proteomics*, 12, 246-250 (2012).
39. Seeley, K. W.; **Stevens, Jr., S. M.**; "Investigation of local primary structure effects on peroxynitrite-mediated tyrosine nitration using targeted mass spectrometry"; *J. Proteomics*, 75, 1691-1700 (2012).
40. Chaput, D.; Kirouac, L. H.; Bell-Temin, H.; **Stevens, Jr., S. M. (shared last author)**; **Padmanabhan, J.**; "SILAC-based proteomic analysis to investigate the impact of amyloid precursor protein expression in neuronal-like B103 cells"; Neuroproteomics Special Issue, *Electrophoresis*, 33, 3728-3737 (2012).
41. Xu, G.; **Stevens, Jr., S. M.**; Kobiessy, F.; Brown, H.; McClung, S.; Gold, M. S.; Borchelt, D. R.; "Identification of proteins sensitive to thermal denaturation in human neuroblastoma and glioma cell lines"; *PLoS One*, 7, e49021 (2012).
42. Kolar, S. L.; Rivera, F. E.; Mootz, J. M.; Davenport, J. E.; **Stevens, Jr., S. M.**; Horswill, A. R.; Shaw, L. N.; "Extracellular Proteases are Key Mediators of S. aureus Virulence via the Global Modulation of Virulence Determinant Stability"; *Microbiology Open*, 2, 18-34 (2013).
43. Bell-Temin, H.; Zhang, P.; Chaput, D.; King, M. A.; You, M.; Liu, B.; **Stevens, Jr., S. M.**; "Quantitative proteomic characterization of ethanol-responsive pathways in rat microglial cells"; *J. Proteome Res.*, 12, 2067-2077 (2013).
44. Xu, G.; **Stevens, Jr., S. M.**; Moore, B. D.; McClung, S.; Borchelt, D. R. "Secondary misfolding of soluble cytosolic proteins in a transgenic mouse model of Alzheimer-amyloidosis"; *Hum. Mol. Genet.*, 22, 2765-2774 (2013).
45. Morgan, J. K.; Vendura, K. W.; **Stevens, Jr., S. M.**; Riordan, J. T.; "Contribution of RcsB to the locus of enterocyte effacement (LEE) expression and adherence phenotype of virulent 2006 U.S. spinach outbreak Escherichia coli O157:H7 strain TW14359"; *Microbiology*, 159, 2342-2353 (2013).
46. Quintero, O. A.; Unrath, W. C.; **Stevens Jr., S. M.**; Manor, U.; Kachar, B.; Yengo, C. M.; "Myosin 3A kinase activity is regulated by phosphorylation of the kinase domain activation loop"; *J. Biol. Chem.*, 288, 37126-37137 (2013).
47. Yin, H.; Hu, M.; Liang, X.; Ajmo, J. M.; Li, X.; **Stevens, Jr., S. M.**; You, M.; "Genetic Ablation of Hepatic SIRT1 Disrupts Hepatic Lipin-1 Signaling and Results in Aggravated Alcoholic Steatohepatitis in Mice"; *Gastroenterology*, 146, 801-811 (2014).
48. Cooperman, C. E.; Dougan, G. D., Moak, S; Athanason, M.; Kuehl, M.; Bell-Temin, H.; **Stevens Jr., S. M.**; Burkhardt, B.; "PANDER transgenic mice display fasting hyperglycemia and insulin resistance"; *J. Endocrinology*, 220, 219-231 (2014).

49. Seeley, K. W.; Fertig, A. R.; Dufresne, C. P.; Pinho, J. C.; **Stevens, Jr., S. M.**; "Nitrotyrosine identification and relative quantitation using a stable isotope-labeled nitrated spike-in standard and high resolution Fourier transform MS and MS/MS analysis"; Special Issue: Fourier Transform Mass Spectrometry in Molecular Sciences, *Int. J. Mol. Sci.*, 15, 6265-6285 (2014).

Presentations (2007-present)

Poster:

1. Rauniyar, N.; Prokai-Tatrai, K.; **Stevens Jr., S. M.**; Prokai, L.; "Covalent Modification of Proteins by Lipid Peroxidation Products: Characterization by Electrospray Ionization and Ion Trap / FT-ICR Mass Spectrometry"; 55th ASMS Conference on Mass Spectrometry and Allied Topics; Indianapolis, 2007.
2. Prokai, L., **Stevens Jr., S. M.**, Nguyen, V.; "Application of Analytical Separation Methods Combined with *in vivo* Cerebral Microdialysis Sampling and Mass Spectrometric Detection to Study Mammalian Neurochemistry in Animal Models"; 7th Balaton Symposium on High-Performance Separation Methods; Siofok, Hungary, 2007.
3. **Stevens Jr., S. M.**; Prokai-Tatrai, K.; Prokai, L.; "Improved Validation Protocol for Identification of Peptide Modifications Using MS/MS Spectra Based on Detailed Investigation of In Vivo Tyrosine Nitration"; 56th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2008.
4. Rauniyar, N.; **Stevens Jr., S. M.**; Prokai, L.; "An improved method for the identification of 4-hydroxy-2-nonenal (HNE) Schiff base adducts using data-dependent and neutral loss-driven MS3 acquisition"; 56th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2008.
5. **Stevens Jr., S. M.**; Rauniyar, N.; Nguyen, V.; Prokai, L.; "A Method for Rapid Differential Protein Expression Profiling from Tissue Using 'Shotgun-based' LC-MS/MS and Spectral Counting"; 56th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2008.
6. Talamantes, T.; **Stevens Jr., S. M.**; Rauniyar, N.; Prokai, L.; "Survey of Estrogen-Induced Differential Protein Expression in Zebrafish Embryos using 2D-LC-MS/MS and Label-Free Relative Quantitation"; 56th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2008.
7. Barker, A.; Wolverton, S.; Venables, B.; **Stevens Jr., S. M.**; "Extraction and identification of proteins from a pottery matrix using microwave-assisted enzymatic digestion and tandem mass spectrometry"; 57th ASMS Conference on Mass Spectrometry and Allied Topics; Philadelphia, 2009.
8. **Stevens Jr., S.M.**; Buzzeo, R.; Bradshaw, P.C.; "Quantitative Proteomic Analysis of HepG2 Cells after Ethanol Exposure"; 57th ASMS Conference on Mass Spectrometry and Allied Topics; Philadelphia, 2009.
9. Edson, A.; Barber, D.; Liu, B.; Zhang, P.; **Stevens Jr., S. M.**; "Stable isotope labeling with amino acids in cell culture (SILAC)-based proteomic analysis to investigate ethanol-induced protein expression profiles in microglia"; 58th ASMS Conference on Mass Spectrometry and Allied Topics; Salt Lake City, 2010.
10. Seeley, K.; **Stevens Jr., S. M.**; "Detection and quantitation of *in vitro* tyrosine nitration via selective reaction monitoring mass spectrometry"; 58th ASMS Conference on Mass Spectrometry and Allied Topics; Salt Lake City, 2010.

11. Seeley, K.; **Stevens Jr., S. M.**; “Mass spectrometric method development to analyze sequence and structural influences on tyrosine nitration site selectivity”; 59th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2011.
 12. Bell-Temin, H.; Liu, B.; Barber, D. S.; Zhang, P.; **Stevens Jr., S. M.**; “Comprehensive Proteomic Analysis of a Model Rat Microglial Cell Line Using Multidimensional Chromatography and Tandem Mass Spectrometry”; 59th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2011.
 13. Guingab, J.; Kobaissy, F.; **Stevens Jr., S. M.**; Anagli, J.; Wang, K.; “Brain Nitrosative Stress in Second Hand Smoke Rat Model”; 59th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2011.
 14. Padmanabhan, J.; Chaput, D.; Kirouac, L. H.; Bell-Temin, H.; **Stevens Jr., S. M.**; “SILAC-based proteomic approach to determine the impact of amyloid precursor protein expression in neuronal-like B103 cells”; 42nd Society for Neuroscience Meeting 2012; New Orleans, 2012.
 15. Bechard, A.; Muehlmann, A.; Trujillo, J.; **Stevens Jr., S. M.**; Lewis, M. H.; “Identification of proteins involved in the development of repetitive behavior using proteomic profiling”; 42nd Society for Neuroscience 2012 Meeting; New Orleans, 2012.
 16. Bell-Temin, H.; Zhang, P.; You, M.; Liu, B.; **Stevens Jr., S. M.**; “Novel insights into ethanol-induced microglia response using SILAC-based proteomics”; 36th Research Society on Alcohol 2013 Meeting; Orlando, 2013.
 17. Yin, H; Hu, M.; Liang, X.; Ajmo, J. M.; Li, X.; **Stevens Jr., S. M.**; You, M.; “Genetic Ablation of hepatic SIRT1 disrupts hepatic LIPIN-1 signaling and results in aggravated alcoholic steatohepatitis in mice”; 36th Research Society on Alcohol 2013 Meeting; Orlando, 2013.
- Oral:**
18. **Stevens Jr., S. M.**; Prokai, L.; “Multidimensional Separation Methods for Mass Spectrometry-Based Protein Expression and Modification Profiling from Tissue”; 7th Balaton Symposium on High-Performance Separation Methods; Siofok, Hungary, 2007.
 19. **Stevens Jr., S. M.**; “Investigation of Oxidative Protein Modifications by Mass Spectrometry-based Proteomics”; USF Bioinformatics Mini-Symposium; Tampa, 2011.
 20. **Stevens Jr., S. M.**; Seeley, K. W.; Barker, A.; Venables, B.; Wolverton, S. M.; “Development of Mass Spectrometry-based Methods for Protein Residue Analysis”; Society for American Archaeology Meeting; Sacramento, 2011.
 21. **Stevens Jr., S. M.**; “Identification of Novel Alcohol-induced Pathway Alterations by SILAC and iTRAQ-based Quantitative Proteomics”; NuSep Users Meeting; 59th ASMS Conference on Mass Spectrometry and Allied Topics; Denver, 2011.
 22. **Stevens Jr., S. M.**; “New Insights into the Selectivity and Functional Impact of Oxidative Stress-Induced Protein Modifications”; Banyan Biomarkers; Alachua, 2011.
 23. **Stevens Jr., S. M.**; “Identification of Ethanol-Induced Pathway Alterations in Microglial Cells using Mass Spectrometry-Based Proteomics”; Virginia Commonwealth University; Richmond, 2012.
 24. **Stevens Jr., S. M.**; “Cellular Response to Alcohol-induced Oxidative Stress: Insights from Mass Spectrometry-Based Proteomics”; University of Florida; Gainesville, 2013.

25. **Stevens Jr., S. M.**; "Cellular Response to Alcohol-induced Oxidative Stress: Insights from Mass Spectrometry-Based Proteomics"; University of South Florida; Tampa, 2013.
26. **Stevens Jr., S. M.**; "Alcohol-induced Oxidative Stress: Insights from Mass Spectrometry-Based Proteomics"; University of Mississippi Medical Center; Jackson, 2014.
27. **Stevens Jr., S. M.**; "Alcohol-induced Oxidative Stress: Insights from Mass Spectrometry-Based Proteomics"; Northeast Ohio Medical University; Rootstown, 2014.
28. **Stevens Jr., S. M.**; "Relationship between Alcohol-induced Oxidative Stress and Histone Modifications"; University of Pittsburgh; Pittsburgh, 2014.

D. Research Support

Current:

1R21AA021247-A01 (Stevens)

NIH/NIAAA

09/01/13 - 08/31/15

Title: Role of PHPT1 in oxidative stress-induced epigenetic modifications by ethanol

The goal of this project is to determine the impact of ethanol-induced oxidative stress on hepatocellular PHPT1 activity and determine the link to increase in histone H3 acetylation at lysine 9.

Role: PI

1R21AA021245-A01 (Stevens and Liu)

NIH/NIAAA

09/01/13 - 08/31/15

Title: Role of microglia in ethanol-induced oxidative stress

In this multi-PI project, our group will implement a novel SILAC approach to perform global-scale analysis of ethanol-induced differential protein expression and changes in oxidative modifications in neuronal and microglial cells alone and in co-culture.

Role: PI (multi-PI with Dr. Bin Liu, University of Florida)

2R01MH080055-03 (Lewis)

NIH/NIMH

09/01/12 - 08/31/15

Title: Development of persistent repetitive behavior in animals

As co-investigator role, our group will perform quantitative proteomic analysis to identify novel biomarkers and pathways associated with repetitive behavior in the R01 renewal submitted by Dr. Mark Lewis at the University of Florida.

Role: Co-investigator

1R21AA022185-A01 (Stevens)

NIH/NIAAA

Start Date: 02/01/14-01/31/16

Title: Impact of ethanol-induced protein nitration on the histone modification code

The goal of this project is to determine the impact of ethanol-induced nitration on histone function which includes direct modification of histone isoforms and enzymes involved in modulating known histone modifications.

Role: PI

Completed:

Archaeology Program (Wolverton)

NSF

07/01/11 - 12/31/13

Title: Expanding application of proteomics-based research in archaeological residue analysis

The goal of this research project is to implement previously developed analytical methods to identify unknown proteins from archaeological cooking pottery.

Role: PI (collaborative project)

USF CAS Internal Award

Project period: 06/01/2013-10/01/2013

Title: Ethanol-induced microglial activation

Role: PI

Archaeometry Program (Wolverton)

NSF

Project period: 07/01/2008-07/01/2010

Title: Development and Application of Proteomics-based Methods in Archaeological Residue Analysis

Role: PI (collaborative project)

UNTHSC-UNT Joint Institutional Seed Research Program (\$10,000)

Project period: 02/15/2008-12/31/2008

Title: Development and Application of Proteomics-based Methods in Archaeological Research

Role: PI

E. Teaching Experience

- 2008-present* Assistant Professor, Dept. of CMMB, USF, Tampa FL
- Cell Metabolism (MCB 3401), undergraduate course
 - Cell Biology (PCB 3023), undergraduate course
 - Proteomics (BSC 6932), graduate course
 - Lecturer (2 lectures), Methods in Molecular Biology (BCH 6135), graduate course
 - Lecturer (1 lecture), Structural Biology (GMS 7930), graduate course
 - Lecturer (1 lecture), Bioinformatics (GMS 7930), graduate course
- 2007-present* Lecturer, Dept. Molecular Biology and Immunology, UNT HSC, Fort Worth, TX
- Biochemistry (BMSC 5301), 6 lectures, post- baccalaureate/graduate course
 - Molecular & Cell Biochemistry of Cancer (BIOC 6050), 2 lectures
- Lecturer, Dept. Chemistry & Biochemistry, University of Texas, Arlington, TX
- Analytical Mass Spectrometry (CHEM 5304), 1 lecture, graduate course
- 2003-2007* Coordinator and Lecturer, ICBR, University of Florida, Gainesville, FL
- Proteomics Workshops
 - IDP lab
 - Summer B Lab Molecular Cloning and Protein Chemistry for graduate students (GMS 6004, ALS 5905, PHA 6522L, VME 6934, section 5261)

Post docs advised:

- Shikha Mahajan, Ph.D. (2013-present)
- Ashley Cochran, Ph.D. (2014-present)

Graduate students advised:

- Harris Temin, Dept. of CMMB, USF (Ph.D. student, 2010-present)
- Dale Chaput, Dept. of CMMB, USF (Ph.D. student, 2010-present, Co-mentor with Dr. Jaya Padmanabhan)
- Joao Costa Pinho, Dept. of CMMB, USF (Ph.D. student, 2013-present)
- Kent Seeley, Dept. of CMMB, USF (Ph.D., **graduated 2013**)
- Frances Rivera, Dept. of CMMB, USF (M.S. **graduated 2010**, Co-mentor)

Undergraduate students advised:

- Elizabeth Rehse (spring 2009)
- Danielle Dantuma (summer 2009 and fall 2009)
- Sandra Duque (spring 2010-fall 2010)
- Robert Zagorsky (spring 2010 and summer 2010)
- Kristen Vitale (summer 2010)
- Stephanie Lopez (fall 2010)
- Emma Kathleen Carter (spring 2011)
- Matthew Turtzo (spring 2011)
- Alex Fernandez (spring 2011 and fall 2011 – Honors Thesis)
- James Conn (summer 2012 and fall 2012)
- Katy Murphey (fall 2012 and spring 2013)
- Daniel Martin (summer 2013 and fall 2013)
- David Hutchinson (fall 2013)
- Christina Carlson (summer 2013-spring 2014)
- Katheryn Hoyle-Germann (spring 2014)
- Chiara Mustafa (spring 2014)

Graduate committee member for:

- Devon Marking, Dept. of CMMB, USF (M.S. student, 2014-present)
- Melanie Kuehl, Dept. of CMMB, USF (Ph.D. student, 2012-present)
- Mark Athanason, Dept. of CMMB, USF (Ph.D. student, 2012-present)
- Vedad Delic, Dept. of CMMB, USF (Ph.D. student, 2011-present)
- Matthew Battistini, Dept. of Chemistry, USF (Ph.D. student, 2011-present)
- Daniel Dempsey, Dept. of Chemistry, USF (Ph.D. student, 2010-present)
- Christina Krute, Dept. of CMMB, USF (Ph.D. student, 2010-present)
- Salahuddin Syed, Dept. of CMMB, USF (Ph.D. student, 2010-present)
- Jessica Kennedy, Dept. of CMMB, USF (Ph.D. student, 2009-present)
- Neil Copes, Dept. of CMMB, USF (Ph.D. student, 2009-present)
- Antoniette Maldonado-Devincci, Dept. of Psychology, USF (Ph.D., graduated 2011)
- Tiffany Robinson, Dept. of CMMB, USF (M.S. student, graduated 2011)
- Anni Pine, Dept. of CMMB, USF (M.S. student, graduated 2011)
- Stacey Kolar, Dept. of CMMB, USF (Ph.D. student, graduated 2012)
- Shikha Mahajan, Dept. of Chemistry, USF (Ph.D. student, graduated 2012)
- Alexander Barrett, Dept. of CMMB, USF (M.S. student, graduated 2013)
- Wade Borchers, Dept. of CMMB, USF (Ph.D. student, graduated 2013)
- Jason Morgan, Dept. of CMMB, USF (Ph.D. student, graduated 2014)
- Jennifer Sedillo, Dept. of Global Health, USF (Ph.D. student, graduated 2014)
- Avishek Mitra, Dept. of CMMB, USF (Ph.D. student, graduated 2014)

F. Service

University and Departmental (USF CMMB) service:

- Director of CDDI Proteomics Facility (Fall 2008-Fall 2011)
- Hiring committee, microRNA position (Spring 2009)
- Hiring committee, Tissue Culture Facility technician (Summer 2009)
- Graduate committee (2009-2010, 2013-present)
- Faculty advisory committee (2009-2012)
- Undergraduate research committee (2012-present)

Ad hoc reviewer for following journals:

- Analytical Chemistry
- Electrophoresis
- PLoS One
- Journal of the American Society for Mass Spectrometry
- Clinical Proteomics
- Proteomics
- Archaea
- Journal of Proteome Research
- Expert Review of Proteomics
- Journal of Chromatography A
- Molecular Cellular Proteomics
- Genomics Proteomics and Bioinformatics
- Scientific Reports (Nature publishing)

Guest editor for following journals:

- Electrophoresis (Neuroproteomics special issue 2012)

Grant reviewer:

- NIH NCRR, Shared Instrumentation Grant Program, Special Emphasis Panel/Scientific Review Group 2010/01 ZRG1 BCMB-D (30) I, (11/11/2009-11/12/2009)
- NSF Archaeology Program, 4 grants reviewed (2009-2013)
- KY Science and Engineering Foundation R&D Excellence Awards, 1 grant reviewed (2014)

Other:

- BRIDGES program for pre-pharmacy students, mentor (2009 and 2010)
- Since 2011, raised \$4,816 for Leukemia & Lymphoma Society through the Team in Training program
- Faculty advisor for "Be the Match On Campus" organization