

# *Curriculum Vitae*

LINGJUN LI

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## EDUCATION

- Ph.D.** University of Illinois at Urbana-Champaign, 1995-2000  
May 2000 Chemistry major (analytical and biomolecular)
- B.E.** Beijing University of Technology, Beijing, China, 1987-1992  
July 1992 Chemistry major (environmental analytical chemistry)

## EXPERTISE AND RESEARCH INTERESTS

Bioanalytical chemistry, neurochemistry, biological mass spectrometry, neuropeptides, proteomics, peptidomics  
Research in my laboratory is focused on developing and implementing an array of novel mass spectrometry (MS) based methodologies to answer questions about the most complex and elusive set of signaling molecules, the neuropeptides, and gain new insights into the roles of peptide hormones and neurotransmitters play in the plasticity of neural circuits and behavior. Emphasis has been placed on constructing a multi-faceted and integrated platform that include high resolution *in-situ* peptide mapping, high sensitivity micro-separation techniques coupled with tandem MS *de novo* sequencing, isotopic labeling strategies, and new bioinformatics tools to allow large-scale discovery and functional analysis of novel neuropeptides. Furthermore, both mass spectrometric imaging technologies and *in vivo* microdialysis sampling tools have been implemented to follow neuropeptide distribution and secretion in unprecedented details. Towards the goal of functional discovery of bioactive neuropeptides, novel quantitative schemes and new isobaric tagging reagents based on dimethylated amino acids have been developed to produce differential display of neuropeptidomes under several physiological conditions, including food intake, environmental stress, and neural network development. Additionally, lectin-based affinity enrichment strategies have been developed in conjunction with isotopic labeling for comparative glycoproteomics and membrane proteomics for biomarker discovery in neurodegenerative diseases.

## PROFESSIONAL POSITIONS

### **Professor of Pharmaceutical Sciences and Chemistry**

07/01/2012-, School of Pharmacy and Department of Chemistry, University of Wisconsin, Madison, WI

### **Associate Professor of Pharmaceutical Sciences and Chemistry**

07/01/2008-06/30/2012, School of Pharmacy and Department of Chemistry, University of Wisconsin, Madison, WI  
Faculty member of the Waisman Center, Chemistry-Biology Interface Training Program (CBI), Neuroscience Training Program, Biotechnology Training Program, Clinical Neuroengineering Training Program, and Molecular and Environmental Toxicology Training Program. Faculty member of the Summer Research Program in Biology (SRP-Bio) for undergraduate research, and faculty mentor of the UW-Madison Undergraduate Research Scholar (URS) Program. Affiliated member of the UW Institute for Clinical and Translational Research (ICTR)

### **Assistant Professor of Pharmaceutical Sciences and Chemistry**

12/1/2002-06/30/2008, School of Pharmacy and Department of Chemistry, University of Wisconsin, Madison, WI

### **Postdoctoral Research Fellow**

5/2000-11/2002, Pacific Northwest National Laboratory (Advisor: Dr. Richard Smith), Brandeis University (Advisor: Prof. Eve Marder), and University of Illinois at Urbana-Champaign (Advisor: Prof. Jonathan Sweedler)

### **Graduate Research Assistant**

9/1995-5/2000, University of Illinois at Urbana-Champaign, Urbana, IL (Advisor: Prof. Jonathan Sweedler)

### **Research Scientist**

1992-1994, Research Center for Eco-Environmental Sciences, Chinese Academy of Science, Beijing, China

### **SELECTED HONORS AND AWARDS**

- H. I. Romnes Faculty Fellowship (2011-2016)
- Pittsburgh Conference Achievement Award (2011)
- Alfred P. Sloan Research Fellowship (2006-2010)
- Vilas Associate Award (2009-2011)
- National Science Foundation CAREER Award (2005-2010)
- Shaw Scientist Finalist, University of Wisconsin (2006)
- School of Pharmacy Faculty Travel Award (2006)
- American Society for Mass Spectrometry (ASMS) Research Award (2004)
- Women in Neuroscience (WIN)/Eli Lilly Travel Award (2001)
- Associated Western Universities Postdoctoral Fellowship, PNNL (2000)
- Outstanding Poster Presentation Award at the 12<sup>th</sup> Annual Cell & Molecular Biology and Molecular Biophysics Research Symposium (1999)
- University of Illinois and Department of Chemistry Graduate Fellowship (1997-1999)
- Garmon Algernon Award for Outstanding Student Seminar in Analytical Chemistry (1997)
- University of Illinois Graduate College Conference Travel Award (1997)
- National Collegiate Honor Societies: Phi Kappa Phi and Phi Lambda Upsilon
- Research Seminar Award (1993, Research Center for Eco-Environmental Sciences)
- Beijing Education Committee Scholarship (1991)
- Chinese National Science Foundation Undergraduate Scholarship (1991)
- Beijing Polytechnic University Scholarship (1989-1992)

### **RESEARCH**

#### **Publications based on work at the University of Wisconsin-Madison:**

*Note:* The corresponding author(s) for publications is indicated by asterisks after the author.

119. J. Zhang, K. Lanham, W. Heideman, R. Peterson, and **L. Li\*** (2012). A statistically enhanced spectral counting approach to proteomic analysis of TCDD cardiac toxicity on the adult zebrafish heart. **Journal of Proteome Research**, Submitted.
118. Z. Zhang, H. Ye, J. Wang, L. Hui, and **L. Li\*** (2012). Pressure-assisted capillary electrophoresis coupling with matrix-assisted laser desorption/ionization-mass spectrometric imaging for quantitative analysis of complex peptide mixtures. **Analytical Chemistry**, Submitted.
117. R. Sturm, G. Kreitinger, C. Booth, L. Smith, J. Pedersen, and **L. Li\*** (2012). Absolute quantification of prion protein (90-231) using stable isotope-labeled chymotryptic peptide standards in a LC-MRM AQUA workflow. **Journal of American Society for Mass Spectrometry**, Submitted.
116. H. Ye, T. Greer, and **L. Li\*** (2012). Probing neuropeptide signaling at the organ and cellular domains via imaging mass spectrometry. **Journal of Proteomics** Invited contribution to Special Issue on “*Imaging Mass Spectrometry*”, In press.

115. X. Jiang, R. Chen, J. Wang, A. Metzler, M. Tlusty, and **L. Li\*** (2012). Mass spectral charting of neuropeptidomic expression in the stomatogastric ganglion at multiple developmental stages of the lobster *Homarus americanus*. **ACS Chemical Neuroscience**, In press.
114. D. Ma and **L. Li\*** (2012). Searching for reliable premortem protein biomarkers for prion diseases - challenges and progress to date. **Expert Review of Proteomics**, Invited contribution. In press.
113. Z. Zhang, C. Jia, and **L. Li\*** (2012). Neuropeptide analysis with liquid chromatography-capillary electrophoresis-mass spectrometric imaging. **Journal of Separation Science** Invited contribution to Special Issue on "Multidimensional Liquid Chromatography", In press.
112. T. Greer and **L. Li\*** (2012). Mass spectrometry based methods for detection, quantitation and localization of pharmaceutical and metabolites in biological samples. **European Pharmaceutical Review**. Invited article contribution. Submitted
111. C. Schmerberg and **L. Li\*** (2012). Function-driven discovery of neuropeptides with mass spectrometry-based tools. **Protein and Peptide Letters**, Invited Review for *Special Issue on Peptide Signaling Molecules*. Accepted.
110. L. Hui, R. Cunningham, Z. Zhang, W. Cao, C. Jia, and **L. Li\*** (2011) Discovery and characterization of the crustacean hyperglycemic hormone precursor related peptides (CPRP) and orcokinin neuropeptides in the sinus glands of the blue crab *Callinectes sapidus* using multiple tandem mass spectrometry techniques. **Journal of Proteome Research**. *10*, 4219-29.
109. J. Wang, H. Ye, Z. Zhang, F. Xiang, G. Girdaukas, and **L. Li\*** (2011). MALDI imaging for capillary electrophoresis separation of neuropeptides. **Analytical Chemistry** *83*, 3462-3469.
108. W. Cao, D. Ma, A. Kapur, M. S. Patankar, Y. Ma, and **L. Li\*** (2011). Post-Mascot analysis using retention time deviation to improve peptide and protein identifications. **Journal of Proteomics**. *75*, 480-90
107. Z. Zhang, J. Wang, L. Hui, and **L. Li\*** (2011). Membrane-assisted capillary isoelectric focusing coupling with MALDI-FTMS for neuropeptide analysis. **Journal of Chromatography A** *1218*, 5336-43.
106. Z. Zhang, J. Wang, L. Hui, and **L. Li\*** (2011). Poly (glycidyl methacrylate-divinylbenzene) based immobilized pH gradient capillary isoelectric focusing coupling with matrix-assisted laser desorption/ionization mass spectrometry for enhanced neuropeptide analysis. **Electrophoresis** Invited contribution to Special Issue on "Mass Spectrometric Detection in Liquid Phase Separations", In press.
105. T. Greer, R. Sturm, and **L. Li\*** (2011). Mass spectrometry imaging for drugs and metabolites, **Journal of Proteomics**. Invited Review. *74*, 2617-31.
- \*104. X. Wei, A. Herbst, D. Ma, J. Aiken, and **L. Li\*** (2011). A quantitative proteomic approach to prion disease biomarker research: delving into the glycoproteome. **Journal of Proteome Research**, *10*, 2687-2702.
103. H. Ye, T. Greer, and **L. Li\*** (2011). From pixel to voxel: A deeper view of biological tissue by 3D mass spectral imaging. **Bioanalysis**. *3*, 313-332.
102. T. Szabo, R. Chen, M. Goeritz, R.T. Maloney, L. S. Tang, **L. Li**, and E. Marder\* (2011). Distribution and physiological effects of B-type allatostatins on the stomatogastric nervous system of the crab, *Cancer borealis*. **Journal of Comparative Neurology**, *519*, 2658-2676.
101. X. Wei, C. Dulberger, and **L. Li\*** (2010). Characterization of murine brain membrane glycoproteins by detergent assisted lectin affinity chromatography (DALAC). **Analytical Chemistry**, *82*, 6329-6333.
100. X. Jiang, C. Jia, Z. Liang, R. Sturm, T. Greer, and **L. Li\*** (2011). Enhanced mass spectrometry imaging of neurotransmitters by pseudo selected reaction monitoring on MALDI-TOF/TOF instrument. Submitted.
99. L. Hui, Y. Zhang, J. Wang, A. Cook, H. Ye, M. Nusbaum, and **L. Li\*** (2011). Discovery and functional study of a novel tachykinin from *Callinectes sapidus* via a multi-faceted mass spectrometry approach. **ACS Chemical Neuroscience**. *2*, 711-722.

98. J. Wang, Y. Zhang, F. Xiang, Z. Zhang, and **L. Li\*** (2010). Combining capillary electrophoresis-MALDI mass spectrometry and stable isotope labeling techniques for comparative crustacean peptidomics. **Journal of Chromatography A**, Invited Contribution to MSB 2009 Dalian Special Issue, 1217, 4463-4470.
97. R. Chen and **L. Li\*** (2010). Mass spectral imaging and profiling of endogenous signaling molecules at the organ and cellular domains. **Analytical and Bioanalytical Chemistry**. [Invited trend article for Special Issue on Analytical Tools for Cell Research], 397, 3185-3193.
- \*96. F. Xiang, H. Ye, R. Chen, Q. Fu, and **L. Li\*** (2010). N,N-dimethyl leucines as novel isobaric tandem mass tags for quantitative proteomics and peptidomics. **Analytical Chemistry**, 82, 2817-2825.  
<http://pubs.acs.org/doi/abs/10.1021/ac902778d>
- \*95. R. Chen, L. Hui, S.S. Cape, J. Wang, and **L. Li\*** (2010). Comparative neuropeptidomic analysis of food intake via a multi-faceted mass spectrometric approach. **ACS Chemical Neuroscience**, 1, 204-214.  
<http://pubs.acs.org/doi/pdfplus/10.1021/cn900028s> One of top 10 most accessed articles in 2010.
94. R. Chen, X. Jiang, I. Mohtashemi, M. P. Conaway, L. Hui, R. Viner, and **L. Li\*** (2010). Mass spectral analysis of neuropeptide expression and distribution in the nervous system of the lobster *Homarus americanus*. **Journal of Proteome Research**, 9, 818-832.
93. J. Zhang, K.A. Lanham, R. E. Peterson, W. Heideman, and **L. Li\*** (2010). Characterization of the adult zebrafish cardiac proteome using online pH gradient SCX-RP 2DLC coupled with ESI tandem mass spectrometry. **Journal of Separation Science**. [Invited contribution to Special Issue on Two-dimensional Liquid Chromatography] 33, 1462-1471.
92. J. Wang, W. Huang, **L. Li\***, and J. Cheng (2010). Microchip electrochromatography: Latest developments and applications. Invited review, **Chinese Journal of Chromatography**, 28, 264-272.
91. M. Ma, A. L. Gard, F. Xiang, J. Wang, N. Davoodian, P. H. Lenz, S. R. Malecha, A.E. Christie, and **L. Li\*** (2010). Combining *in silico* transcriptome mining and biological mass spectrometry for peptide paracrine/hormone discovery in the penaeid shrimp *Litopenaeus vannamei*. **Peptides**, 31, 27-43.
90. M. Ma, R. M. Sturm, K. K. Kutz-Naber, Q. Fu, and **L. Li\*** (2009). Immunoaffinity-based mass spectrometric characterization of the FMRFamide-related peptide family in the pericardial organ of *Cancer borealis*. **Biochemical Biophysical Research Communication**, 390, 325-330.
89. J.A. Dowell, J.A. Johnson, and **L. Li\*** (2009). Identification of astrocyte secreted proteins with a combination of shotgun proteomics and bioinformatics. **Journal of Proteome Research**, 8, 4135-4143.
88. M. Ma, E. K. Bors, E. S. Dickinson, M. A. Kwiatkowski, G. L. Sousa, R. P. Henry, C. M. Smith, D. W. Towle, A.E. Christie and **L. Li\*** (2009). Characterization of the *Carcinus maenas* neuropeptidome by mass spectrometry and functional genomics. **General and Comparative Endocrinology** 161, 320-334.
87. M. Ma, T. Szabo, C. Jia, E. Marder, and **L. Li\*** (2009). Mass spectrometric characterization and physiological actions of first crustacean C-type allatostatins. **Peptides**, 30, 1660-1668.
86. R. Chen, L. Hui, R. Sturm, and **L. Li\*** (2009). Three dimensional mapping of neuropeptides and lipids in crustacean brain by mass spectral imaging. **Journal of American Society for Mass Spectrometry**, 20, 1068-77. Featured in the News Section of journal *Bioanalysis*.
85. M. Ma, R. Chen, Y. Ge, H. He, A.G. Marshall, and **L. Li\*** (2009). Combining bottom-up and top-down mass spectrometric strategies for *de novo* sequencing of the crustacean hyperglycemic hormone (CHH) from *Cancer borealis*. **Analytical Chemistry**, 81, 240-247 (doi/full/10.1021/ac801910g).
84. X. Wei, A. Herbst, J. Schmidt, J. Aiken, and **L. Li\*** (2009). Facilitating discovery of prion disease biomarkers by quantitative glycoproteomics. **LCGC** [Invited technical article, February 2009 issue].
83. J. Wang, X. Jiang, R. Sturm, and **L. Li\*** (2009). Combining tissue extraction and off-line capillary electrophoresis – MALDI FTMS for neuropeptide analysis using 2,5-dihydroxybenzoic acid as a multifunctional agent. **Journal of Chromatography A**, Invited contribution, 1216, 8283-8288.

82. X. Wei, A. Herbst, J. Aiken, and **L. Li\*** (2009). Comparative glycoproteomics: approaches and applications. **Briefings in Functional Genomics and Proteomics Special Issue on Targeted and Quantitative Proteomics**. 8, 104-113 [Invited Review, doi:10.1093/bfpg/eln053].
81. A. Herbst, S. McIlwain, J. J. Schmidt, J. M. Aiken, C. D. Page, and **L. Li\*** (2009). Prion disease diagnosis by proteomic profiling. **Journal of Proteome Research**, 8, 1030-1036. DOI: 10.1021/pr800832s.
80. R. Chen, M. Ma, L. Hui, J. Zhang, and **L. Li\*** (2009). Measurement of neuropeptides in crustacean hemolymph via MALDI mass spectrometry. **Journal of the American Society for Mass Spectrometry**, 20, 708-18.
79. M. Ma, J. Wang, R. Chen, and **L. Li\*** (2009). Expanding the crustacean neuropeptidome using a multi-faceted mass spectrometric approach. **Journal of Proteome Research**, 8, 2426-2437. <http://pubs.acs.org/doi/abs/10.1021/pr801047v>
78. J. Yew, Y. Wang, N. Barteneva, S. Dikler, K. Kutz-Naber, **L. Li\*** and E. Kravitz\* (2009). Analysis of neuropeptide expression and localization in adult *Drosophila melanogaster* central nervous system by affinity cell-capture mass spectrometry. **Journal of Proteome Research** 8, 1271-1284.
77. X. Wei and **L. Li\*** (2009). Mass spectrometry-based proteomics and peptidomics for biomarker discovery in neurodegenerative diseases. Invited review, **International Journal of Clinical and Experimental Pathology**. 2, 132-148.
76. Y.K. Cho, I. Chen, X. Wei, **L. Li**, and E. V. Shusta\* (2009). A yeast display immunoprecipitation method for efficient isolation and characterization of antigens. **Journal of Immunological Methods**. 341, 117-126.
75. C. L. Thomas-Virnig, J. M. Centanni, C. E. Johnston, L. K. He, S. J. Schlosser, K. F. Van Winkle, R. Chen, A. L. Gibson, A. Szilagyi, **L. Li**, R. Shankar, B. L. Allen-Hoffmann (2009). Inhibition of multidrug-resistant *Acinetobacter baumannii* by non-viral expression of hCAP-18 in a bioengineered human skin tissue. **Molecular Therapy**, 17, 562-569.
74. J. A. Dowell, D. C. Frost, J. Zhang, and **L. Li\*** (2008). Comparison of two-dimensional fractionation techniques for shotgun proteomics. **Analytical Chemistry**, 80, 6715-6723. [Featured in *Journal of Proteome Research on-line news, September 23, 2008*]
73. H. Behrens, R. Chen, and **L. Li\*** (2008). Combining microdialysis, nanoLC-MS, and MALDI-TOF/TOF to monitor neuropeptide secretion in the crab, *Cancer borealis*. **Analytical Chemistry**, 80, 6949-6958.
72. J. Wang, M. Ma, R. Chen, and **L. Li\*** (2008). Enhanced neuropeptide profiling via capillary electrophoresis off-line coupled with MALDI FTMS. **Analytical Chemistry**, 80, 6168-6177.
71. S.S. Cape, K. J. Rehm, M. Ma, E. Marder, and **L. Li\*** (2008). Mass spectral comparison of the neuropeptide complement of the stomatogastric ganglion and brain in the adult and embryonic lobster, *Homarus americanus*. **Journal of Neurochemistry** 105, 690-702.
70. M. Ma, R. Chen, G.L. Sousa, E.K. Bors, M. Kwiatkowski, C.C. Goiney, M. Goy, A.E. Christie and **L. Li\*** (2008). Mass spectral characterization of peptide transmitters/hormones in the nervous system and neuroendocrine organs of the American lobster *Homarus americanus*. **General and Comparative Endocrinology** 156, 395-409.
69. A. E. Christie\*, C. R. Cashman, H. R. Brennan, M. Ma, **L. Li**, E. A. Stemmler, and P. S. Dickinson (2008). Identification of putative crustacean neuropeptides using *in silico* analysis of publicly accessible expressed sequence tags. **General and Comparative Endocrinology** 156, 246-264.
68. **L. Li\*** and J.V. Sweedler\* (2008). Peptides in the brain: measurement approaches and challenges. Inaugural volume of **Annual Review of Analytical Chemistry**. [Invited review article]. 1, 451-483.
67. J.J. Schmidt, S. S. McIlwain, D. Page, A. E. Christie, and **L. Li\*** (2008). Combining MALDI-FTMS and bioinformatics for rapid peptidomic comparisons. **Journal of Proteome Research**. 7, 887-896.
66. J. Wang, R. Chen, M. Ma, and **L. Li\*** (2008). MALDI MS sample preparation by using paraffin wax film: systematic study and application for peptide analysis. **Analytical Chemistry** 80, 491-500.

65. S.S. DeKeyser, K. K. Kutz-Naber, J. J. Schmidt, G.A. Barrett-Wilt, and L. Li\* (2007) Mass spectral imaging of neuropeptides in crustacean nervous tissue by MALDI TOF/TOF. **Journal of Proteome Research** 6, 1782-1791. [Cited by Faculty of 1000 Biology Evaluation]
64. M. Ma, K. K. Kutz-Naber, and L. Li\* (2007). Methyl esterification assisted MALDI FTMS characterization of orcokinin neuropeptide family. **Analytical Chemistry** 79, 673-681.
63. Q. Fu, L. Tang, E. Marder, and L. Li\* (2007). Mass spectrometric characterization and physiological actions of VPNDWAHFRGSWamide, a novel B-type allatostatin in *Cancer* crabs. **Journal of Neurochemistry** 101, 1099-1107.
62. S. S. DeKeyser and L. Li\* (2007). Mass spectrometric charting of neuropeptides in arthropod neurons. **Analytical and Bioanalytical Chemistry** 387, 29-35. [Invited trend article, peer reviewed]
61. C. Zhang, Q. Fu, C. Albermann, L. Li, and J. S. Thorson\* (2007). The *in vitro* characterization of the erythronolide mycarosyltransferase EryBV and its utility in macrolide diversification. **ChemBioChem**. 8, 385-390.
60. S.R. Saideman, M. Ma, K. K. Kutz-Naber, A. Cook, P. Torfs, L. Schoofs, L. Li, and M. P. Nusbaum\* (2007). Modulation of rhythmic motor activity by pyrokinin peptides. **Journal of Neurophysiology** 97, 579-595.
59. A. E. Christie\*, K. K. Kutz-Naber, E. A. Stemmler, A. Klein, D. I. Messinger, C. C. Goiney, Y.-W. A. Hsu, C. R. Easton, L. Li, and P.S. Dickinson (2007). Midgut epithelial endocrine cells are a rich source of the neuropeptides APSGFLGMRamide (*Cancer borealis* tachykinin-related peptide Ia) and GYRKPPFNGSIFamide (Gly<sup>1</sup>-SIFamide) in the crabs *Cancer borealis*, *Cancer magister* and *Cancer productus*. **Journal of Experimental Biology** 210, 699-714.
58. P.S. Dickinson, J. Stevens, S. Rus, H. R. Brennan, C. C. Coiney, C. M. Smith, L. Li, D. W. Towle, and A. E. Christie\* (2007). Identification and cardiotropic actions of sulfakinin peptides in the American lobster *Homarus americanus*. **Journal of Experimental Biology** 210, 2278-2289.
57. L. Zhao, X. Shi, L. Li, and D. J. Miller\* (2007) Dynamin 2 associates with complexins and is found in the acrosomal region of mammalian sperm. **Molecular Reproduction and Development** 74, 750-757.
56. L. Zhao, H.R. Burkin, X. Shi, L. Li, K. Reim, and D. J. Miller\* (2007). Complexin I is required for mammalian sperm acrosomal exocytosis. **Developmental Biology** 309, 236-244.
55. J. A. Dowell, W. Vander Heyden, and L. Li\* (2006). Rat neuropeptidomics by LC/MS/MS and MALDI-FTMS: enhanced dissection and extraction techniques coupled with 2D RP-RP HPLC separation. **Journal of Proteome Research** 5, 3368-3375. [Featured in the Research Profile Section of *Journal of Proteome Research* and Bio Sphere News Section in *Analytical Chemistry*.]
54. S. DeKeyser and L. Li\* (2006). Matrix-assisted laser desorption/ionization Fourier transform mass spectrometry (MALDI FTMS) quantitation via in-cell combination (QUICC). **Analyst** 131, 281-290. [Invited contribution to the special issue of Emerging Investigators, peer reviewed. This paper was featured on the cover of the journal.]
53. C. Zhang, B.R. Griffith, Q. Fu, X. Fu, C. Albermann, I.K. Lee, L. Li, and J.S. Thorson\* (2006). Exploiting the indiscriminate and reversible nature of the Calicheamicin Rhamnosyltransferase CalG1 for enediynes glycorandomization. **Science** 313, 1291-1294.
52. Q. Fu and L. Li\* (2006). Investigation of several unique MS/MS fragmentation patterns of NFDEIDR, an orcokinin analog, and its N-terminal dimethylated form. **Rapid Communications in Mass Spectrometry** 20, 553-562.
51. Q. Fu and L. Li\* (2006). The neutral loss of water from the b ions with histidine at the C-terminus. **Journal of Mass Spectrometry** 41, 1600-1607.
50. N. Cruz-Bermudez, Q. Fu, K. Kutz, A. Christie, L. Li\*, and E. Marder (2006), Mass spectrometric characterization and physiological actions of GAHKNYLRFamide, a novel FMRamide-like peptide from crabs of the genus *Cancer*. **Journal of Neurochemistry** 97, 784-799.

49. D.J. Schulz\*, R.A. Baines, C.M. Hempel, **L. Li**, B. Liss, H. Misonou (2006). The role of gene expression and cellular excitability in the regulation of functional neuronal identity. **Journal of Neuroscience** 26, 10362-10367. [Invited Mini-Symposium Review.]
48. Q. Fu and **L. Li\*** (2006). Fragmentation of peptides with N-terminal dimethylation and imine/methylol adduction at tryptophan side chain. **Journal of the American Society for Mass Spectrometry** 17, 859-866.
47. Q. Fu and **L. Li\*** (2005). *De novo* sequencing of neuropeptides using reductive isotopic methylation and investigation of ESI QTOF MS/MS fragmentation pattern of neuropeptides with N-terminal dimethylation. **Analytical Chemistry** 77, 7783-7795.
46. Q. Fu, M. Goy, and **L. Li\*** (2005). Identification of neuropeptides from the sinus gland of the Jonah crab, *Cancer borealis* and the Maine lobster, *Homarus americanus* using nanoscale liquid chromatography tandem mass spectrometry. **Biochemical Biophysical Research Communication** 337, 765-778.
45. Q. Fu, A. E. Christie, and **L. Li\*** (2005). Mass spectrometric characterization of the crustacean hyperglycemic hormone precursor related peptides (CPRPs) from the sinus gland of the crab, *Cancer productus*. **Peptides** 26, 2137-2150.
44. Q. Fu, K. K. Kutz, J. J. Schmidt, Y-W.A. Hsu, S. D. Cain, J. M. Edwards, L. V. Ambroggio, T. G. Halatchev, A. E. Christie, and **L. Li\*** (2005). Hormone complement of the *Cancer productus* sinus gland and pericardial organ: an anatomical and mass spectrometric investigation. **Journal of Comparative Neurology** 493, 606-625.
43. C. Billimoria, **L. Li\***, and E. Marder (2005). Probing neuropeptide release from the crustacean stomatogastric nervous system using MALDI mass spectrometry. **Journal of Neurochemistry** 95, 191-199.
42. D. I. Messinger, K. K. Kutz, J. T. Birmingham, Y-W.A. Hsu, C. T. Ngo, **L. Li**, and A. E. Christie\* (2005). Identification and characterization of a tachykinin-containing neuroendocrine organ in the commissural ganglion of the crab *Cancer productus*. **Journal of Experimental Biology** 208, 3303-3319.
41. J. Y. Yew\*, K. Kutz, S. Dikler, L. Messinger, **L. Li**, and A. O. Stretton (2005). A mass spectrometric map of neuropeptide expression in *Ascaris suum*. **Journal of Comparative Neurology** 488, 396-413.
40. K. K. Kutz, J. J. Schmidt, and **L. Li\*** (2004). *In situ* tissue analysis of neuropeptides by MALDI FTMS in-cell accumulation. **Analytical Chemistry** 76, 5630-5640. [Cited by Faculty of 1000 Biology Evaluation].
39. **L. Li\***, W.P. Kelley, C. Billimoria, A. Christie, S. R. Pulver, J. V. Sweedler, and E. Marder (2003). Mass spectrometric investigation of the neuropeptide complement and release in the pericardial organs of the crab, *Cancer borealis*. **Journal of Neurochemistry** 87, 642-656.

***Non peer-reviewed book chapter and book review:***

1. **L. Li\*** (2005), Invited book review for *Drug Discovery for Nervous System Diseases*, **Am. J. Pharmaceutical Education**. 69, 4, 561-562.
2. S.S. Cape, J.A. Dowell, and **L. Li\*** (2009) Mass spectrometric characterization of neuropeptides. Invited book chapter in *Methods in Molecular Biology*. 492, 381-393.
3. H.L. Behrens and **L. Li\*** (2010) Monitoring neuropeptides *in vivo* via microdialysis and mass spectrometry. Invited book chapter in a new volume **Peptidomics Protocols and Methods Handbook** as part of series for *Methods in Molecular Biology*. 615, 57-73.
4. R.M. Sturm, J.A. Dowell, and **L. Li\*** (2010) Rat brain neuropeptidomics: Tissue collection, protease inhibition, neuropeptide extraction, and mass spectrometric analysis. Invited book chapter in a new volume **Peptidomics Protocols and Methods Handbook** as part of series for *Methods in Molecular Biology*. 615, 217-226.

5. R. Chen, S.S. Cape, R.M. Sturm, and **L. Li\*** (2010) Imaging mass spectrometry of neuropeptides in decapod crustacean neuronal tissues. Invited book chapter in **Mass Spectrometric Imaging: Principles and Protocols** as part of *Methods in Molecular Biology Series*. 656, 451-463.
6. J. Wang, Z. Zhang, and **L. Li\*** (2010) Microchip-based liquid chromatography. Invited book chapter in **Contemporary Microscale Separation Technologies**. C. Yan. Ed.; New York, USA, In press.
7. **L. Li\*** and J.V. Sweedler\* (2002) Measuring neuropeptides with single-cell mass spectrometry. In **Mass Spectrometry and Hyphenated Techniques in Neuropeptide Research**. pp495-517.

**Publications as postdoctoral, graduate and undergraduate researcher:**

38. Proekt, F.S. Vilim, V. Alexeeva, V. Brezina, A. Friedman, J. Jing, **L. Li**, Y. Zhurov, J.V. Sweedler, and K. R. Weiss (2005). Identification of new neuropeptide precursor reveals a novel source of extrinsic modulation in the feeding system of *Aplysia*. **Journal of Neuroscience** 25, 9637-9648.
37. B. Hummon, N. P. Hummon, R. W. Corbin, **L. Li**, F. S. Vilim, K. R. Weiss, and J. V. Sweedler (2003). From prohormone to final peptides: predicting processing using consensus sequence trends of common basic sites. **Journal of Proteome Research** 2, 650-656.
36. C. Masselon, L. Pasa-Tolic, S.-W. Lee, **L. Li**, G. A. Anderson, R. Harkewicz, and R. D. Smith (2003). Identification of tryptic peptides from large databases using multiplexed MS/MS: simulations and experimental results. **Proteomics** 3, 1279-1286.
35. Y. Furukawa, K. Nakamaru, K. Sasaki, Y. Fujisawa, H. Minakata, S. Ohta, F. Morishita, O. Matsushima, **L. Li**, V. Alexeeva, T. A. Ellis, N. C. Dembrow, J. Jing, J. V. Sweedler, K. R. Weiss, and F. S. Vilim (2003). PRQFVamide, a novel pentapeptide identified from the CNS and gut of *Aplysia*. **Journal of Neurophysiology** 89, 3114-3127.
34. J. V. Sweedler, **L. Li**, S. S. Rubakhin, V. Alexeeva, N. C. Dembrow, O. Dowling, J. Jing, K. R. Weiss, and F. S. Vilim (2002). Identification and characterization of the feeding circuit activating peptides (FCAPs), a novel neuropeptide family of *Aplysia*. **Journal of Neuroscience** 22, 7797-7808.
33. **L. Li**, S. R. Pulver, W. P. Kelley, V. Thirumalai, J. V. Sweedler, and E. Marder (2002). Orcokinin peptides in developing and adult crustacean stomatogastric nervous systems and pericardial organs. **J. Comp. Neurol.** 444, 227-244.
32. S. Vilim, V.Y. Alexeeva, L.L. Moroz, **L. Li**, T.P. Moroz, J.V. Sweedler, and K.R. Weiss (2001) Cloning, expression and processing of the CP2 neuropeptide precursor of *Aplysia*. **Peptides** 22, 2027-2038.
31. Y. Furukawa, K. Nakamaru, H. Wakayama, Y. Fujisawa, H. Minakata, S. Ohta, F. Morishita, O. Matsushima, **L. Li**, E. V. Romanova, J. V. Sweedler, J.H. Park, A. Romero, E.C. Cropper, N.C. Dembrow, K.R. Weiss, and F.S. Vilim (2001) The enterins: a novel family of neuropeptides isolated from the enteric and central nervous system of *Aplysia*. **Journal of Neuroscience** 21, 8247-8261.
30. Y. Shen, N. Tolic, R. Zhao, L. Pasa-Tolic, **L. Li**, S. J. Berger, R. Harkewicz, G. A. Anderson, M. E. Belov, and R. D. Smith (2001). High-throughput proteomics using high efficiency multiple-capillary liquid chromatography with on-line high performance ESI FTICR mass spectrometry. **Analytical Chemistry** 73, 3011-3021.
29. **L. Li**, C. D. Masselon, G. A. Anderson, L. Pasa-Tolic, S-W. Lee, Y. Shen, R. Zhao, M. S. Lipton, and R. D. Smith (2001). High-throughput peptide identification from protein digests using data-dependent multiplexed tandem FTICR mass spectrometry coupled with capillary liquid chromatography. **Analytical Chemistry** 73, 3312-3322.
28. **L. Li**, P. D. Floyd, S. S. Rubakhin, E. V. Romanova, J. Jing, V. Y. Alexeeva, N. C. Dembrow, K. R. Weiss, F. S. Vilim, and J. V. Sweedler (2001) Cerebrin prohormone processing, distribution and action in *Aplysia californica*. **Journal of Neurochemistry** 77, 1569-1580.



27. J.V. Sweedler, **L. Li**, P.D. Floyd, and W. Gilly (2000) Mass spectrometric survey of peptides in cephalopods with an emphasis on the FMRamide-related peptides. **Journal of Experimental Biology** 203, 3565-3573.
26. **L. Li**, E.V. Romanova, S.S. Rubakhin, V. Alexeeva, K.R. Weiss, F.S. Vilim, and J.V. Sweedler (2000) Peptide profiling of cells with multiple gene products: combining immunochemistry and MALDI-mass spectrometry with on-plate microextraction. **Analytical Chemistry** 72, 3867-3874.
25. **L. Li**, R.W. Garden, and J.V. Sweedler (2000) Single-cell MALDI: a new tool for direct peptide profiling. **Trends in Biotechnology** 18, 151-160. **[Invited review, peer reviewed. This paper was featured on the cover of the journal.]**
24. **L. Li**, R.W. Garden, E.V. Romanova, and J.V. Sweedler (1999) *In Situ* sequencing of peptides from biological tissues and single cells using MALDI-PSD/CID analysis. **Analytical Chemistry** 71, 5451-5458. **[This paper was featured as an accelerated article in the journal.]**
23. **L. Li**, R.W. Garden, P.D. Floyd, T.P. Moroz, J.M. Gleeson, J.V. Sweedler, L. Pasa-Tolic, and R.D. Smith (1999) Egg-laying hormone peptides in the aplysiidae family. **J. Exp. Biol.** 202, 2961-2973.
22. Y. Fujisawa, Y. Furukawa, S. Ohta, T. A. Ellis, N. C. Dembrow, **L. Li**, P. D. Floyd, J. V. Sweedler, H. Minakata, K. Nakamaru, F. Morishita, O. Matsushima, K. R. Weiss, and F. S. Vilim (1999) The *Aplysia* MIP-related peptides (AMRPs): identification, cloning, processing, distribution, and action. **J. Neurosci.** 19, 9618-9634.
21. P.D. Floyd, **L. Li**, S.S. Rubakhin, J.V. Sweedler, C.C. Horn, I. Kupfermann, V. Y. Alexeeva, T.A. Ellis, N.C. Dembrow, K.R. Weiss, and F.S. Vilim (1999) *Aplysia californica* insulin prohormone processing, distribution, and relation to metabolism. **J. Neurosci.** 19, 7732-7741.
20. P.D. Floyd, **L. Li**, T.P. Moroz, and J.V. Sweedler (1999) Characterization of peptides from *Aplysia* using microbore liquid chromatography with MALDI-TOF mass spectrometry guided purification. **Journal of Chromatography A** 830, 105-113.
19. S.S. Rubakhin, **L. Li**, T.P. Moroz, and J. V. Sweedler (1999) Characterization of the *Aplysia californica* cerebral ganglion F-cluster. **Journal of Neurophysiology** 81, 1251-1260.
18. R.W. Garden, T.P. Moroz, J.M. Gleeson, P.D. Floyd, **L. Li**, S.S. Rubakhin, and J.V. Sweedler (1999) Formation of pyroglutamyl peptides from N-Glu and N-Gln precursors in *Aplysia* neurons. **Journal of Neurochemistry** 72, 676-681.
17. **L. Li**, T.P. Moroz, R.W. Garden, P.D. Floyd, K.R. Weiss, and J.V. Sweedler (1998) Mass spectrometric survey of interganglionically transported peptides in *Aplysia*. **Peptides** 19, 1425-1433.
16. R.W. Garden, S.A. Shippy, **L. Li**, T.P. Moroz, and J.V. Sweedler (1998) Proteolytic processing of the *Aplysia* egg-laying hormone prohormone. **Proceedings of the National Academy of Science, USA** 95, 3972-3977. **[This paper was featured in an accompanying commentary (pp 3338-3340).]**
15. K. Jiang, **L. Li**, Y. Chen, and J. Jin (1997) Determination of PCDD/Fs and dioxin-like PCBs in Chinese commercial PCBs and emissions from a testing PCB incinerator. **Chemosphere** 34, 941-950.
14. A. Schecter, and **L. Li** (1997) Dioxins, dibenzofurans, dioxin-like PCBs, and DDE in US fast food. **Chemosphere** 34, 1449-1457.
13. A. Schecter, **L. Li**, K. Jiang, P. Furst, C. Furst, and O. Papke (1996) Pesticide application and increased dioxin body burden in male and female agricultural workers in China. **J. Occup. Environ. Med.** 38, 906-911.
12. A. Schecter, O. Papke, A. Lis, M. Ball, J.J. Ryan, J.R. Olson, **L. Li**, H. Kessler (1996) Decrease in milk and blood dioxin levels over two years in a mother nursing twins: estimates of decreased maternal and increased infant dioxin body burden from nursing. **Chemosphere** 32, 543-549.
11. A. Schecter, **L. Li**, and J. R. Olson (1995) Dioxins in U.S. fast food. **Organohalogen Compound** 26 135-139.

10. K. Jiang, **L. Li**, Y. Chen, S. Li, and Y. Gong (1995) Residual dioxins in Chinese schistosomiasis region and its eco-environmental risk. **Chin. Sci. Bull.(English version)** *40*, 1740-1747.
9. K. Jiang, **L. Li**, Y. Chen, J. Jin, and D. Zhang (1999) Emissions of dioxins and PCBs from PCB-containing waste incinerator. **Progress in Environ. Sci. (Chinese)** *7*, 45-49.
8. K. Jiang, **L. Li**, and Y. Chen (1996) Dioxins in stack ash from PCB waste incinerator. **Chin. J. Environ. Sci.** *17*, 68-71.
7. **L. Li** and K. Jiang (1995) Determination of dioxin-like PCBs congeners of Chinese PCBs chemicals. **Chinese Journal of Environmental Sciences** *16*, 55-58.
6. **L. Li** and K. Jiang (1995) Determination of toxic equivalents of PCDD/Fs in two Chinese commercial PCBs by <sup>13</sup>C isotope dilution method. **Acta Environ. Sci.** *15*, 433-439.
5. **L. Li**, Y. Chen, Y. Zhou, J. Wu, and K. Jiang (1995) Use of acid-base silica/alumina column and gas chromatography-mass spectrometry (GC/MS) methods for determination of residual PCBs in the solid wastes of an incinerator. **Chin. J. Environ. Chem.** *14*, 322-328.
4. K. Jiang, Y. Chen, and **L. Li** (1995) PCDD/Fs in sodium pentachlorophenate (Na-PCP) and human blood, milk, and sediment samples from Chinese schistosomiasis areas. **J. Environ. Sci.** *7*, 52-59.
3. J. Jin, **L. Li**, K. Jiang (1995) Toxicity of dioxin-like compounds. **Shanghai Environ. Sci.** *14*, 29-32.
2. **L. Li**, Y. Chen, C. Chiu, G. Poole, W. Miles, and K. Jiang (1994) PCDD/Fs in sediment samples from Chinese schistosomiasis areas and potential human health effects. **Organohalogen Compound** *20* (Dioxin '94), 155-158.
1. **L. Li**, J. Wu, Y. Chen, and K. Jiang (1993) Determination of polychlorinated biphenyls in transformer oils. **Chin. J. Environ. Sci.** *14*, 69-72.

#### **Manuscripts in preparation:**

1. R. Sturm, R. Chen, H.K. Woo, O. Yanes, G. Siuzdak, and **L. Li\***. Utilizing NIMS and MALDI imaging mass spectrometric techniques for lipidomic and peptidomic studies of crab and murine brain. Manuscript in preparation.
2. R. Chen, C. Schmerberg, and **L. Li\***. Invertebrate neuropeptidomics: from discovery to function. **Progress in Neurobiology**. Invited review article, Manuscript in preparation.
3. Y. Zhang, J. Wang, L. Hui, and **L. Li\***. Quantitative peptidomic analysis of crustacean neuroendocrine organs in response to salinity stress. Manuscript in preparation.
4. Y. Zhang, R. Chen, and **L. Li\***. Development and application of relative quantitation via in cell combination (QUICC) methodology for neuropeptide analysis. Manuscript in preparation.
5. R. Chen, Y. Zhang, M. Ma, and **L. Li\***. Mass spectrometric study of neuropeptide expression and secretion changes in *Cancer borealis* induced by acute temperature stress. Manuscript in preparation.
6. C. Jia, Z. He, W. Qi, and **L. Li\***. Application of carrier-free enzyme immobilization to proteomics: on-plate proteolysis using cross-linked trypsin aggregates. Manuscript in preparation.
7. M. Ma, F. Xiang, A.E. Christie, and **L. Li\***. Identification of neuropeptides in the giant freshwater prawn *Macrobrachium rosenbergii* using MALDI-based high resolution mass profiling and tandem mass spectrometric sequencing. Manuscript in preparation.
8. L. Hui, K. K. Kutz-Naber, and **L. Li\***. Mass spectrometric investigation of neuropeptide degradation. Manuscript in preparation.
9. J.A. Dowell, A.E. Kelley, and **L. Li\***. Feeding-induced changes in striatal opioid release: a neuropeptidomic approach. Manuscript in preparation.
10. Y. Zhang, G. Muthuvel, and **L. Li\***. Expression and distribution of neuropeptides in the nervous system of the crab *Carcinus maenas* and their roles in environmental stress. Manuscript in preparation.

11. L. Hui, F. Xiang, H. Ye, Y. Zhang, P. Song, and **L. Li\***. Characterization of neuropeptides in pericardial organ of *Callinectes sapidus*. Manuscript in preparation.
12. W. Cao, L. Hui, Y. Zhang, and **L. Li\***. Discovery of neuropeptidome in *Callinectes sapidus*: prediction, detection and expression study. Manuscript in preparation.
13. W. Cao, Y. Ma, M. Ma, and **L. Li\***. PRESново: Prescreening prior to *de novo* sequencing to improve accuracy and sensitivity for endogenous peptide identification. Submitted.
14. J. Zhang, Q. Fu, and **L. Li\*** (2010). Mass spectrometric investigation of acetylation specific neutral loss in collision induced dissociation of *O*-acetylated peptides. Manuscript in preparation.
15. R. Cunningham, P. Jany, A. Messing, and **L. Li\*** (2010). Investigation of protein changes in immunodepleted cerebrospinal fluid of GFAP overexpressor mouse models for Alexander disease using mass spectrometry. **Journal of Proteome Research**, manuscript in preparation.
16. C. Schmerberg and **L. Li\***. Developing affinity-enhanced microdialysis methodology for neuropeptide analysis. **Analytical Chemistry**, Manuscript in preparation.
17. H. Ye, R. Chen, J-M. Ane, and **L. Li\***. Exploration of the nodule metabolome in *Medicago* root by mass spectral imaging. Manuscript in preparation.
18. H. Ye, R. Mandal, C. Ikonomidou, and **L. Li\***. Mass spectrometric imaging of brain proteins following neonatal exposure to an NMDA antagonist and ethanol. Manuscript in preparation.
19. N. Vázquez-Acevedo, J. Pérez-Laspiur, L. Mélendez, F. Xiang, **L. Li**, F. Duan, E. A. Rodríguez, N. M. Rivera, E. A. Ruíz-Rodríguez and M. A. Sosa\*. Differential expression of proteins in the brain of the freshwater prawn *Macrobrachium rosenbergii* in the context of dominance hierarchies. Manuscript in preparation.
20. X. Jiang, F. Xiang, C. Jia, A. Metzler, M. Tlusty, and **L. Li\*** (2011) Relative quantitation of neuropeptides at multiple developmental stages of the American lobster using novel *N,N*-dimethyl leucine isobaric tandem mass tags. **Journal of Proteome Research**. Manuscript in preparation.
21. Y. Zhang, L. Hui, J. Wang, R. Sturm, and **L. Li\*** (2011) A multifaceted mass spectrometry method for the study of peptidergic regulation of feeding in *Callinectes sapidus*. **Molecular and Cellular Proteomics**. Manuscript in preparation.
22. C. Jia, L. Hui, W. Cao, C. Schmerberg, X. Jiang, R. Chen, N. Kelleher, and **L. Li\*** (2012) Probing the crustacean hyperglycemic hormone (CHH)-family neuropeptidome in neuroendocrine tissues: *de novo* sequencing, distribution mapping and performance characteristics of the multifaceted mass spectrometric approaches. **Molecular and Cellular Proteomics** Manuscript in preparation.
23. W. Cao and **L. Li\***. Accelerating endogenous peptide identification by a hybrid strategy combining *de novo* sequencing and homology database search. Manuscript in preparation.
24. L. Hui, B.T. D'Andrea, A.E. Christie, and **L. Li\*** (2012). Mass spectrometric characterization of the neuropeptidome of the ghost crab *Ocypode ceratophthalma* (Brachyura, Ocypodidae). Manuscript in preparation.
25. W. Cao, M. Ma, Y. Zhang, Y. Ma, and **L. Li\***. GreenNPDB: A database of the green crab neuropeptidome discovered by multi-faceted mass spectrometry and *in silico* mining public databases. Manuscript in preparation.
26. X. Jiang and **L. Li\***. Mass spectral characterization and three-dimensional imaging of neuropeptides, lipids and neurotransmitters in lobster *Homarus americanus*. Manuscript in preparation.
27. R. Chen, H. Ye, T. Szabo, E. Marder, and **L. Li\***. In situ identification and mapping of neuropeptides in the crustacean stomatogastric nervous system. Manuscript in preparation.

### **Patents:**

**Li, L.** and Xiang, F., N, N-Dimethyl leucine as novel isobaric tandem mass tags for quantitative proteomics and peptidomics. US Patent P100244US01, Pending.

**Li, L.**, Wei, X., Herbst, A., Ma, D., Aiken, J., A quantitative glycoproteomic approach to prion disease biomarker discovery. US Patent P110258, Pending.

**Li, L.**, Xiang, F., Greer, T., Frost, D., and Liang, Z., Novel isobaric 8-plex N,N-dimethyl leucines tandem mass tags for high throughput quantitative proteomics and peptidomics. US Patent P110257, Pending.

**Invited Seminars and Conference Talks since Position at UW-Madison:**

(103) Invited Seminar, Student Seminar Series at the University of Minnesota, Department of Chemistry, 2012-2013.

(102) Invited Speaker, the 28<sup>th</sup> International Symposium on MicroScale Bioseparations (MSB), Shanghai, China, October 21-26, 2012.

(101) Invited Speaker, I-International Conference on Imaging Mass Spectrometry, Ourense, Spain, September 3-5, 2012.

(100) Invited Speaker, 4<sup>th</sup> World Chinese Mass Spectrometry Conference, Tainan, June28-July 1, 2012.

(99) Invited Seminar, State University of New York at Buffalo, Department of Chemistry, April 6, 2012

(98) Invited Speaker for the Symposium “Ion Cyclotron Resonance Mass Spectrometry: Recent Developments”, 2012 Pittsburgh Conference, Orlando, FL, March 2012

(97) Invited Speaker and Chair for the Symposium “Hyphenated Techniques for Peptidomics: Bridging the Gap between Proteomics and Metabolomics by Mass Spectrometry,” 2012 Pittsburgh Conference, Orlando, FL, March 2012

(96) Invited Speaker at the SACP (Society for Analytical Chemists of Pittsburgh) Meeting, Duquesne University, Pittsburgh, PA; February 6, 2012.

(95) Invited Speaker for the Chemistry Colloquium, Department of Chemistry, Pennsylvania State University, April 12, 2012

(94) Invited Speaker for the Symposium on Chemical Communication, Temasek Life Sciences Laboratory (TLL), Singapore, Jan 29- Jan 31, 2012

(93) Invited Speaker for the Seminar Series at Department of Surgery, School of Medicine and Public Health, University of Wisconsin-Madison, Jan 6, 2012

(92) Invited Speaker for the 6th Symposium of the Peptide Therapeutics Foundation (PTF). Salk Institute, San Diego, CA, October 20-21, 2011

(91) Invited Seminar, University of California-San Diego, School of Pharmacy, October 24, 2011

(90) Invited Keynote Speaker, 14<sup>th</sup> International Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2011), Beijing, China, October 13-16, 2011 (declined due to teaching conflict)

(89) Invited Speaker, 2011 Wisconsin Human Proteomics Symposium, Madison, Wisconsin, Aug 5, 2011

(88) Invited Seminar, Department of Chemistry, Xiamen University, Xiamen, China, July 2011

(87) Invited Seminar, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China, July 15, 2011

(86) Invited Seminar, National Institute of Biological Sciences, Beijing, China, July 6, 2011

(85) Invited Speaker as an awardee at the 2011 Pittsburgh Conference Achievement Award Symposium, Atlanta, GA (March 14, 2011)

(84) Invited Seminar, Department of Chemistry and Chemical Biology, Northeastern University, February 2011

(83) Invited Speaker at the Waisman Center Cellular and Molecular Neuroscience (CMN) Core Sponsored Lecture Series 2010-2011, UW-Madison (December 2010)

(82) Invited Plenary Lecture at the 2010 Chinese Organic Mass Spectrometry Conference, Nanning, China (November 4-9, 2010)

(81) Invited Analytical Chemistry Seminar, Wayne State University (October 2010)

(80) US-China Analytical Chemists Workshop, Purdue University, October 6-7, 2010

(79) Invited Speaker, The 3<sup>rd</sup> Chinese National Symposium on Analytical Chemistry for Life Sciences, Peking University, College of Chemistry and Molecular Engineering, Beijing, China (August 19-22, 2010)

(78) Invited Seminar, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China, August 12, 2010

- (77) Invited Seminar, China Novartis Institutes for BioMedical Research Co., Ltd., Shanghai, China, August 10, 2010
- (76) Invited Seminar, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, August 3, 2010.
- (75) Invited External Lecturer, Marine Biology Laboratory Neurobiology 2010 Summer Course (turned down invitation due to schedule conflict)
- (74) Invited Speaker, 3<sup>rd</sup> World Congress Mass Spectrometry Conference, Changchun, China (July 30-August 03, 2010)
- (73) Invited Seminar, Department of Chemistry, Tsinghua University, Beijing, China (January 12, 2010)
- (72) Invited Seminar, Pharmaceutical Product Development, Inc. Madison, WI (February 2010)
- (71) Invited Speaker, Satellite Meeting “Molecular Biomarkers: TSE Signatures” at PrP Canada 2010 conference (March, 2010, turned down invitation due to schedule conflict)
- (70) Invited Speaker, Applied Biosystems Mass Spectrometric Imaging Workshop, Toronto, Canada (December 2009)
- (69) Invited Speaker and Session Chair at the 24<sup>th</sup> Microscale Bioseparations (MSB) Conference 2009, Dalian, China (October 2009)
- (68) UW-Madison, Molecular Environmental Toxicology Program, Fall Colloquium (2009)
- (67) UW-Madison Human Proteomics Program, August 27, 2009
- (66) Merck Research Laboratories, Department of Pharmacokinetics and Drug Metabolism (DMPK), West Point, PA (January, 2010)
- (65) University of Puerto Rico, School of Medicine (February 10, 2010)
- (64) Invited Speaker at Symposium on New Frontiers in Mass Spectrometric Analysis of Proteins, Pittsburgh Conference on Analytical Chemistry and Allied Spectroscopy 2010 (March 2010, Orlando, FL)
- (63) Invited Speaker at an ACS sponsored oral session on Bioanalytical Approaches to Study Cellular Communication, Pittsburgh Conference on Analytical Chemistry and Allied Spectroscopy 2010 (March 2010, Orlando, FL)
- (62) Invited Speaker and Session Chair for Lab Automation 2010, Separation and Detection Track, Symposium on Tissue Imaging Mass Spectrometry and Miniaturization Mass Spectrometry (January 2010)
- (61) University of Illinois at Urbana-Champaign, College of Veterinary Medicine, Translational Biomedical Research Seminar Series (March 2009)
- (60) University of Kansas, Department of Pharmaceutical Chemistry Seminar Series (February 2009)
- (59) Invited Speaker and Session Chair for Microscale Bioseparations (MSB) Conference 2009, Boston (February 2009)
- (58) Boston University, Department of Biochemistry and Boston School of Medicine (October 2008)
- (57) University of Notre Dame, Department of Chemistry Analytical Seminar (October 2008)
- (56) Gordon Research Conference on Proprotein Processing, Trafficking and Secretion (July 2008)
- (55) The Second International Congress of Chinese Mass Spectrometrists (Taiwan, June 2008)
- (54) Gordon Research Conference on Isotopes in the Biological and Chemical Sciences (February 2008)
- (53) University of California – Davis, Department of Chemistry (January 2008)
- (52) University of Wisconsin-Madison, School of Pharmacy (January 2008)
- (51) Purdue University, Department of Chemistry (December 2007)
- (50) University of North Carolina – Chapel Hill, Department of Chemistry (November 2007)
- (49) North Carolina State University, Department of Chemistry (November 2007)
- (48) Vanderbilt University, Department of Chemistry Colloquium (November 2007)
- (47) University of Chicago, Department of Organismal Biology & Anatomy (October 2007)
- (46) University of Arkansas, Department of Chemistry Colloquium (October 2007)
- (45) University of Washington, Department of Chemistry (October 2007)
- (44) University of Illinois at Urbana-Champaign, Department of Chemistry (August 2007)
- (43) Brandeis University, Department of Chemistry (August 2007)
- (42) 234<sup>th</sup> American Chemical Society (ACS) National Meeting (August 2007)
- (41) Session Chair for the Symposium on Cellular and Network Functions in the Spinal Cord 2007 (Madison, WI, June 2007)
- (40) The 2<sup>nd</sup> Annual Human Proteomics Symposium, UW-Madison, June 2007
- (39) Varian Inc. User Meeting at ASMS 2007 Annual Conference, June 2007
- (38) University of California-Irvine, Department of Physiology and Biophysics (May 2007)

- (37) University of Wisconsin-Madison, Waisman Center Seminar Series (May 2007)
- (36) University of California-Riverside, Department of Chemistry (May 2007)
- (35) University of Minnesota, Analytical Chemistry Seminar (May 2007)
- (34) The 6<sup>th</sup> North American FTICR MS Conference 2007 (April 2007)
- (33) The NSF workshop on brain science initiative as a mutual opportunity for the physical sciences (March 2007)
- (32) University of Iowa, Department of Chemistry Colloquium (March 2007)
- (31) Pittsburgh Analytical Chemistry Award Symposium, Pittsburgh Conference 2007 (March 2007)
- (30) University of Wisconsin at Madison, Genomics Seminar Series (December 2006)
- (29) University of Wisconsin at Madison, Department of Physiology Seminar Series (December 2006)
- (28) University of Illinois at Chicago, Departmental Seminar, Department of Chemistry (November 2006)
- (27) Society for Neuroscience (SFN) Mini-symposium on Functional Neuronal Identity and Intrinsic Excitability: Molecular and Sub-Cellular Mechanisms of Neuronal Output, SFN Annual Meeting (October 2006)
- (26) University of Michigan at Ann Arbor, Department of Chemistry, Analytical Seminar Series (September 2006)
- (25) IonSpec Corporation Advisory Committee Meeting (May 2005)
- (24) Neuroscience Satellite Meeting on Dynamic Neural Networks: The Stomatogastric Ganglion, 2004, San Diego, CA (October 2004)
- (23) Symposium on Analytical Methods to Characterize the Nervous System, The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Meeting, Oregon, Portland, October 4 (2004)
- (22) Endocrinology-Reproductive Physiology Program Seminar Series, UW-Madison (2004)
- (21) Medical College of Wisconsin, Department of Pharmacology and Toxicology Seminar Series (October 2004)
- (20) Cancer Pharmacology Seminar Series, UW Cancer Center, Madison, Wisconsin (2004)
- (19) The Fourth Tuesday Group, University of Wisconsin-Madison (2004)
- (18) Neuroscience Seminar for Undergraduates, UW-Madison (2003)
- (17) Neuroscience Seminar Series, Neuroscience Training Program, Madison, Wisconsin (2003)
- (16) Analytical Sciences Seminar Series, UW-Chemistry, Madison, Wisconsin (2003)
- (15) Proteomics Workshop, DNA Conference, Madison, Wisconsin (2003)
- (14) Bowdoin College, Department of Biology (2002)

**Invited Seminars and Conference Talks Prior to Position at UW-Madison:**

- (13) The Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Meeting (2002)
- (12) University of Wisconsin-Madison, School of Pharmacy (2002)
- (11) University of Maryland at College Park, Department of Chemistry and Biochemistry (2002)
- (10) University of Utah, Department of Chemistry (2002)
- (9) West Virginia University, Department of Chemistry (2002)
- (8) University of Washington, Department of Chemistry (2002)
- (7) University of Kentucky, College of Pharmacy (2002)
- (6) University of Iowa, Department of Chemistry (2001)
- (5) Georgia Institute of Technology, School of Chemistry and Biochemistry (2001)
- (4) 222<sup>nd</sup> American Chemical Society (ACS) National Meeting (2001)
- (3) Centers for Disease Control and Prevention (1999)
- (2) Analytical Seminar, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory (1998)
- (1) Annual Meeting of the Biomedical Engineering Society (1998)

**Contributed Research Presentations since Position at UW-Madison:**

*Underlined name is student or postdoc presenter.*

**2011**

- 142. **L. Li**, “Toward Functional Discovery of Neuropeptides by MS-based Comparative Peptidomic Strategies,” Invited talk at the Symposium on “Hyphenated Techniques for Peptidomics: Bridging the Gap Between Proteomics and Metabolomics by Mass Spectrometry” at 2012 Pittsburgh Conference, March 11-15, 2012.
- 141. **L. Li**, “Neuropeptide Profiling, Quantitation and Imaging by High Resolution MALDI FTMS Technology,” Invited talk at the Symposium on “Ion Cyclotron Resonance Mass Spectrometry: Recent Developments” at 2012 PittCon, March 11-15, 2012.

140. **L. Li**, “Comparative Peptidomics for Functional Discovery of Neuropeptides,” Invited Talk at The 6<sup>th</sup> Annual Peptide Therapeutics Symposium, The Salk Institute, La Jolla, CA, October 20-21, 2011.
139. **H. Ye**, **R. Mandal**, **L. Li**, and **C. Ikonomidou**, “Mass spectrometric imaging of brain proteins following neonatal exposure to an NMDA antagonist and ethanol,” Society for Neuroscience Annual Meeting 2011, Nov. 12-16, 2011, Washington DC.
138. **C. Schmerberg** and **L. Li**, “Mass spectral investigation of feeding-related neuropeptides in the decapod crustacean via *in vivo* microdialysis,” Society for Neuroscience Annual Meeting 2011, Nov. 12-16, 2011, Washington DC.
137. **L. Li**, “Developing Mass Spectrometry-based Tools for Biomarker Discovery in Neurological Disorders,” 2011 Wisconsin Human Proteomics Symposium, August 5-6, 2011, Madison, WI. Invited talk.
136. **X. Jiang**, **H. Ye**, and **L. Li**, “Mass spectral imaging of neurotransmitters and neuropeptides in the central nervous system of lobster *Homarus americanus* at multiple developmental stages,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
135. **Z. Zhang**, **J. Wang**, and **L. Li**, “Monolithic based immobilized-pH gradient capillary isoelectric focusing and monolithic liquid chromatography for neuropeptide analysis,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
134. **L. Hui**, **Y. Zhang**, **J. Wang**, **A. Cook**, **H. Ye**, **M.P. Nusbaum**, and **L. Li**, “Discovery and functional study of a novel tachykinin from *Callinectes sapidus* via a multi-faceted MS approach,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
133. **F. Xiang**, **N. Woodards**, and **L. Li**, “Dimethylated leucine isobaric tags for relative quantitation of crustacean neuropeptides at multiple feeding states,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
132. **C. Jia**, **X. Jiang**, **F. Xiang**, **Z. Liang**, **L. Hui**, and **L. Li**, “Quantitation study of biogenic amines and crustacean hyperglycemic hormone (CHH)-family peptides in crustacean nervous system by novel DiLeu labeling technique,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
131. **D. Ma**, **A. Kapur**, **M. Felder**, **M. Patanka**, and **L. Li**, “Characterization and comparative analysis of proteomic profiles of leukemic and primary human NK cells,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
130. **R. Cunningham**, **M. Conway**, **D. Wellner**, **D. Grunwald**, **W. Heideman**, and **L. Li**, “Development of optimized phosphopeptide enrichment methods for comparison of starved and glucose fed yeast *Saccharomyces cerevisiae*,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
129. **T.J. Greer**, **F. Xiang**, **D. Frost**, and **L. Li**, “Development and validation of 8-Plex N,N-Dimethyl Leucines as Novel Tandem Mass Tags for Quantitative Proteomics and Peptidomics,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
128. **H. Ye**, **J. Wang**, **Z. Zhang**, **G. Girdaukas**, and **L. Li**, “Advancing Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging (MALDI-MSI) for Capillary Electrophoresis (CE) Analysis of Peptides,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
127. **R. Sturm**, **R. Krencik**, **S-C. Zhang**, and **L. Li**, “Label free comparative secretome proteomics of an amyotrophic lateral sclerosis cellular model using human ESC-derived astrocytes,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
126. **D. Frost**, **X. Wei**, and **L. Li**, “Detergent Assisted Lectin Affinity Chromatography for Membrane Glycoproteomics,” 59<sup>th</sup> ASMS Annual Conference, June 5-9, 2011, Denver, CO.
125. **L. Li**, “Mass Spectrometry-based Tools for Probing Neuronal Communication,” Invited Award Presentation at the PittCon 2011 Achievement Award Symposium, March 14, 2011, Atlanta, GA.
124. **C. Jia**, **H. Ye**, **J.-M. Ane**, and **L. Li**, “A Multi-faceted MS Strategy for *De Novo* Sequencing of the Nodule-Specific Cysteine-Rich Peptides in *Medicago truncatula*,” PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).

123. X. Jiang, F. Xiang, J. Wang, and **L. Li**, "Relative quantitation of neuropeptides at multiple developmental stages of the American lobster using novel *N,N*-dimethyl leucine isobaric tandem mass tags," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
122. W. Cao, L. Hui, Y. Zhang, and **L. Li**, "Discovery of Neuropeptides in the Blue Crab *Callinectes sapidus*: Prediction, Detection and Distribution," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
121. C. Schmerberg, A. Kozicki, and **L. Li**, "Antibody-Linked Nanoparticles for Affinity-Enhanced Microdialysis Study of Motivational Behaviors in the Decapod Crustacean," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
120. Z. Zhang, J. Wang, L. Hui, and **L. Li**, "Enhanced CIEF Systems Coupling with MALDI-FTMS for Neuropeptide Analysis," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
119. H. Ye, M. Spencer, and **L. Li**, "Qualitative and Quantitative Analysis of Neurotransmitters and Neuropeptides in the Decapod Crustacean Nervous System by Gold-assisted Laser Desorption/Ionization," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
118. R. Cunningham, P. Jany, A. Messing, and **L. Li**, "Mass Spectrometry-Based Analysis of GFAP Overexpressor Mice's Cerebrospinal Fluid for Proteome Biomarker Discovery in Alexander Disease," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
117. Y. Zhang, J. Wang, and **L. Li**, "Neuropeptidomic Investigation of Feeding Behavior via Multifaceted Mass Spectral Approaches," PittCon 2011, March 13-17, Atlanta, GA. (Oral presentation).
116. J. Zhang, K.A. Lanham, R.E. Peterson, W. Heideman, and **L. Li**, "Quantitative Proteomics Reveals Rapid Changes in Na<sup>+</sup>/K<sup>+</sup> ATPase and NCX1 Levels in Adult Zebrafish Heart Following TCDD Exposure," Society of Toxicology Annual Meeting, March 6-10, 2011, Washington DC.

## 2010

115. Y. Zhang, L. Hui, and **L. Li**, "Quantitative peptidomics reveal neuropeptide regulation in feeding behavior," Society for Neuroscience Annual Meeting 2010, Nov. 13-17, 2010, San Diego, CA. (Poster presentation)
114. Y. Zhang and **L. Li**, "Comparative Peptidomic Analysis of Environmental Stress," Stomatogastric Ganglion (STG) Satellite Meeting 2010, Nov. 12, 2010, San Diego, CA. (Oral presentation)
113. C. Schmerberg and **L. Li**, "Developing *In Vivo* Microdialysis Sampling Tools for Neuropeptide Analysis During Behavior," Stomatogastric Ganglion (STG) Satellite Meeting 2010, Nov. 12, 2010, San Diego, CA. (Oral presentation)
112. **L. Li**, Y. Zhang, and H. Ye, "Investigation of Quantitative Aspects of MALDI Mass Spectral Imaging," Midwestern Universities Analytical Chemistry Conference 2010, Oct. 7-9, 2010, Purdue University, West Lafayette, IN. (Oral presentation)
111. F. Xiang and **L. Li**, "*N,N*-Dimethyl Amino Acids as Novel iTRAQ Alternative Reagents for Neuropeptide Quantitation," Midwestern Universities Analytical Chemistry Conference 2010, Oct. 7-9, 2010, Purdue University, West Lafayette, IN. (Poster presentation)
110. W. Cao, and **L. Li**, "The construction and application of normalized SVR retention time predictor for validation of neuropeptide identification by *de novo* sequencing," Second RECOMB Satellite Conference on Computational Proteomics, March 27-28, 2010, San Diego, CA.
109. Y. Zhang, and **L. Li**, "Expression and distribution of neuropeptides in the nervous system of the crab *Carcinus maenas* and their roles in environmental stress," 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
108. R. Cunningham, D. Frost, A. Messing, and **L. Li**, "Development of an optimized ProteaseMAX assisted trypsin digestion of human CSF for SRM quantification of GFAP and identification of biomarkers," 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
107. J. Wang, F. Xiang, Z. Zhang, and **L. Li**, "Rapid LC-MS/MS Analysis of Neuropeptides with Monolithic



- Column and Improved Nanoelectrospray Emitter,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
106. C. Schmerberg, and **L. Li**, “Magnetic Beads to Enhance Microdialysis Recovery of Neuropeptides,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  105. Z. Zhang, J. Wang, and **L. Li**, “A Novel CIEF-MALDI-FTMS Based Platform for Neuropeptide Analysis,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  104. X. Jiang, R. Chen, J. Wang, and **L. Li**, “Mass spectral identification and quantification of neuropeptides in the stomatogastric ganglion of the lobster *Homarus americanus* during development,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  103. F. Xiang, H. Ye, R. Chen, Q. Fu, and **L. Li**, “N, N-Dimethyl Amino Acids as iTRAQ Alternative Reagents for Neuropeptide towards Quantitation at Multiple Feeding Time Points,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  102. H. Ye, R. Chen, M. Howes-Podoll, J.-M. Ané, and **L. Li**, “Exploration of the metabolome from *Medicago truncatula* roots and nodules by MALDI mass spectral imaging,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  101. W. Cao, and **L. Li**, “Automated Peptide Sequence Assembly (APSA): A Novel Strategy for Peptide Sequencing by Combining Partial Sequence with Motif,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  100. C. Jia, L. Hui, R. Chen, Y. Zhang, and **L. Li**, “Mapping of Crustacean Hyperglycemic Hormone (CHH) Family Neuropeptides and Their Roles in Response to Environmental Stimuli,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  99. **L. Li**, X. Wei, A. Herbst, D. Ma, J. Aiken, “A Comparative Glycoproteomics Approach to the Discovery of Biomarkers in Prion Diseases,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
  98. R. Sturm, C. Booth, C. Smith, J. Pedersen, and **L. Li**, “Protease evaluation for production of methionine-deficient peptides for MRM quantitation of the infectious prion protein,” 58<sup>th</sup> ASMS Conference on Mass Spectrometry, May 23-27, 2010, Salt Lake City, UT.
- 2009**
97. R. Chen, and **L. Li**, “Toward functional discovery of neuropeptides via multi-faceted mass spectrometric approaches,” Stomatogastric Ganglion (STG) Satellite Meeting 2009, Oct. 17, 2009, Chicago, IL.
  96. R. Chen, X. Jiang, and **L. Li**, “Expression and distribution of neuropeptides in the nervous system of the lobster *Homarus americaus* and their roles in development,” Society for Neuroscience Annual Meeting 2009, Oct. 17-21, 2009, Chicago, IL.
  95. R. Chen, L. Hui, and **L. Li**, “Comparative neuropeptidomic analysis of food intake and environmental stress via a multi-faceted mass spectrometric approach,” Neuropeptides Conference 2009, Oct. 14-16, 2009, Chicago, IL.
  94. F. Xiang, and **L. Li**, “Generating Neuropeptide standard curve in a single LC-MS run by N, N-dimethyl amino acids tandem mass tags,” 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
  93. Xin Wei, A Herbst, J. Aiken, and **L. Li**, “A quantitative proteomic approach for the discovery of Prion disease biomarkers,” 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
  92. R. Sturm, R. Chen, H.-K. Woo, O. Yanes, G. Siuzdak, and **L. Li**, “Utilizing NIMS and MALDI imaging mass spectrometric techniques for lipidomic and peptidomic studies of crab and murine brain,” 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
  91. Y. Zhang, R. Chen, and **L. Li**, “Development and application of quantitation via in cell combination (QUICC) methodology for MALDI FTMS analysis of neuropeptides in environmental stress,” 57<sup>th</sup> ASMS Annual

Conference, May 31-June 4, 2009, Philadelphia, PA.

90. R. Chen, X. Jiang, and **L. Li**, "Expression and distribution of neuropeptides in the nervous system of the lobster *Homarus americanus* and their roles in development," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
89. L. Hui, R. Chen, and **L. Li**, "Exploring the functional consequences of neuropeptide diversity by MALDI mass spectrometry," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
88. R. Cunningham, X. Wei, P. Jany, A. Messing, and **L. Li**, "Mass spectrometry-based analysis of cerebrospinal fluid peptidome and proteome for biomarker discovery in Alexander disease," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
87. W. Cao, M. Ma, Q. Fu, and **L. Li**, "HyPep: A new strategy to accelerate peptide discovery with a combination of de novo sequencing and homology database search," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
86. J. Wang, F. Xiang, Y. Zhang, Z. Zhang, and **L. Li**, "Profiling stress-induced neuropeptidomic changes with capillary electrophoresis-mass spectrometry and stable isotopic labeling technique," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
85. **L. Li**, J. Zhang, K. Lanham, R. Peterson, and W. Heideman, "Cardiac toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in juvenile zebrafish heart: profiling proteomic changes by label free quantitation methods," 57<sup>th</sup> ASMS Annual Conference, May 31-June 4, 2009, Philadelphia, PA.
84. **L. Li**, J. Wang, X. Jiang, and Y. Zhang, "Coupling capillary electrophoresis with MALDI mass spectrometry for enhanced neuropeptide detection," Invited talk at the 23<sup>rd</sup> International Symposium on Microscale Bioseparations (MSB 2009), Boston, MA.
83. J. Wang, C. Jia, R. Chen, and **L. Li**, "Disulfide-bridged neuropeptide screening by off-line CE/MALDI-MS," Poster presentation, PittCon 2009, Chicago, IL.
82. L. Hui, R. Chen, and **L. Li**, "Exploring the functional consequences of neuropeptide diversity by mass spectrometry," Poster presentation, PittCon 2009, Chicago, IL.
81. Y. Zhang, R. Chen, and **L. Li**, "Development and application of relative quantitation via in cell combination (QUICC) methodology for neuropeptide analysis," Poster presentation, PittCon 2009, Chicago, IL.
80. R.M. Sturm, R. Chen, and **L. Li**, "Mapping and Imaging of neuropeptides in *Cancer borealis* brain using matrix-assisted laser desorption/ionization (MALDI) and nanostructure-initiator mass spectrometry (NIMS)," Oral presentation, PittCon 2009, Chicago, IL.
79. C. Schmerberg, and **L. Li**, "Enhanced microdialysis for neuropeptide recovery," Oral presentation, PittCon 2009, Chicago, IL.
78. R. Chen, L. Hui, and **L. Li**, "Toward Functional Discovery of Neuropeptides via Multifaceted Mass Spectrometry," Oral presentation, PittCon 2009, Chicago, IL.
77. X. Jiang, R. Chen, J. Wang, and **L. Li**, "Mass Spectral Charting the Time Course of Neuropeptide Expression in the Nervous Systems of the Lobster *Homarus americanus*," Oral presentation, PittCon 2009, Chicago, IL.
76. J. Zhang, and **L. Li**, "Application of ECD and CAD in the Characterization of O-Acetylation in Peptides," Oral presentation, PittCon 2009, Chicago, IL.
75. F. Xiang, Q. Fu, and **L. Li**, "Amino Acid iTRAQ Reagents", Oral presentation, PittCon 2009, Chicago, IL.

## 2008

74. M. Ma, T.Szabo, E. Marder, and **L. Li**, "Expanding the crustacean neuropeptidome using a multi-faceted mass spectrometric approach," STG (Stomatogastric ganglion dynamic network) Meeting 2008, Washington DC.
73. M. Ma, F. Xiang, J. Wang, A.E. Christie, and **L. Li**, "Peptidomic analyses of the central nervous systems of the prawn *Macrobrachium rosenbergii* and the white shrimp *Litopenaeus vannamei*," Society for Neuroscience Annual Meeting 2008, Washington DC.

72. **L. Li**, X. Wei, A. Herbst, S. McIlwain, J. Schmidt, R. Cunningham, D. Page, and J. Aiken, "Combining MALDI FTMS, comparative glycoproteomics, and bioinformatics for the discovery of biomarkers in prion disease," Oral presentation at 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
71. **J. Dowell**, J. A. Johnson, and **L. Li**, NUBIN Symposium on Biomarker Discovery in Neurodegenerative Disease, June 12-13, 2008, Amsterdam.
70. **L. Li**, "Isotopic labeling for improved quantitative peptidomics and de novo sequencing," Gordon Research Conference on Isotopes in Biological and Chemical Sciences, February 17-22, Ventura, CA.
69. **X. Wei**, F. Xiang, M. Ma, and **L. Li**, "Enrichment and characterization of C-terminally blocked neuropeptides in *Cancer borealis* brain tissue," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
68. **J. Zhang**, Q. Fu, and **L. Li**, "Investigation of acetylation specific neutral loss in collision induced dissociation of O-acetylated peptides," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
67. **J. Wang**, R. Chen, X. Jiang, and **L. Li**, "Combining tissue extraction and off-line capillary electrophoresis-MALDI FTMS for neuropeptide analysis using 2,5-dihydroxybenzoic acid," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
66. **F. Xiang**, Q. Fu, and **L. Li**, "N,N-Dimethyl amino acids as iTRAQ reagent for improved peptidomics and proteomics," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
65. **M. Ma**, J. Schmidt, Y. Ge, and **L. Li**, "Mass spectrometric characterization of the crustacean hyperglycemic hormone (CHH) in the sinus gland of *Cancer borealis*," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
64. **C. Jia**, Z. He, and **L. Li**, "Application of carrier-free enzyme immobilization to proteomics: on-plate proteolysis using cross-linked trypsin aggregate," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.
63. **R. Chen**, S. Cape, J. Wang, Y. Zhang, and **L. Li**, "Comparative neuropeptidomic analysis of food intake via a multi-faceted MS approach," 56<sup>th</sup> ASMS Annual Conference, June 1-5, 2008, Denver, CO.

## 2007

62. **L. Li**, "Differential display for signaling peptide discovery," STG (Stomatogastric ganglion dynamic network) Meeting 2007, San Diego, CA.
61. **L. Li**, M. Ma, R. Chen, and A.E. Christie, "Peptidomic analyses of the central nervous systems of the American lobster *Homarus americanus* and the European green crab *Carcinus maenas*," Society for Neuroscience Annual Meeting 2007, San Diego, CA.
60. **L. Li**, S.S. DeKeyser, M. Ma, H. Behrens, and J.J. Schmidt, "Advancing neuropeptide research by a multi-faceted mass spectrometry-based platform," Oral presentation, American Chemical Society (ACS) Fall 2007 National Meeting, Boston, MA.
59. **L. Li**, X. Wei, J.J. Schmidt, A. Herbst, S. McIlwain, D. Page, and J. Aiken, "Combining MALDI FTMS, Comparative Glycoproteomics, and Bioinformatics for the Discovery of Biomarkers in Prion Disease," Oral presentation, ACS Fall 2007 National Meeting, Boston, MA.
58. **L. Li**, S.S. DeKeyser, J.J. Schmidt, R. Chen, and M. Ma, "High resolution MALDI MS profiling and imaging of neuronal tissues for differential display of neuropeptidomes," ASMS Annual Conference 2007, Indianapolis, IN.
57. **J. Zhang**, K.A. Lanham, R. E. Peterson, W. Heideman, and **L. Li**, "Characterization of zebrafish cardiac proteome by a novel 2D HPLC strategy coupled with Q-TOF tandem mass spectrometry," ASMS Annual Conference 2007, Indianapolis, IN.
56. **R. Chen**, M. Ma, and **L. Li**, "Mass spectrometric profiling of neuropeptide expression and secretion changes in decapod crustaceans in response to environmental stress," ASMS Annual Conference 2007, Indianapolis, IN.

55. J. Wang, R. Chen, S. S. DeKeyser, M. Ma, and **L. Li**, "Separation, modification, and identification of neuropeptides by off-line capillary electrophoresis MALDI FTMS," ASMS Annual Conference 2007, Indianapolis, IN.
54. X. Wei, J. Schmidt, A. Herbst, J. Aiken, and **L. Li**, "Comparative glycoproteomics for the discovery of potential biomarkers for prion disease," ASMS Annual Conference 2007, Indianapolis, IN.
53. J. J. Schmidt, A.E. Christie, S. McIlwain, M. Ma, D. Page, and **L. Li**, "Combining MALDI-FTMS and bioinformatics for peptidomic comparison among decapod crustacean species," ASMS Annual Conference 2007, Indianapolis, IN.
52. M. Ma, R. Chen, A. E. Christie, and **L. Li**, "Mass spectral characterization of the CNS peptidomes of the lobster *Homarus americanus* and crab *Carcinus maenas*," ASMS Annual Conference 2007, Indianapolis, IN.
51. L.S. Tang, Q. Fu, E. Marder, and **L. Li**, "Mass spectrometric characterization and physiological actions of a novel B type allatostatin in *Cancer borealis*," 33<sup>rd</sup> East Coast Nerve Net Meeting 2007, Marine Biological Laboratory, Woods Hole, MA.
50. S. S. DeKeyser, J.J. Schmidt, K. K. Kutz-Naber, and **L. Li**\*, "Imaging Neuropeptides in Crustacean Nervous System by MALDI TOF/TOF," ASMS Sanibel Conference 2007 on Imaging Mass Spectrometry, Sanibel Island, FL (\* indicates presenting author).
49. **L. Li**, S. S. DeKeyser, M. Ma, H. L. Behrens, K. K. Kutz-Naber, Q. Fu, and J. J. Schmidt, "Developing an integrated analytical platform for functional discovery of novel neuropeptides," Invited talk, PittCon 2007 Analytical Chemistry Award Symposium, Chicago, IL.
48. R. Chen, M. Ma, X. Wei, and **L. Li**, "Mass spectrometric profiling of neuropeptide expression and secretion in decapod crustaceans," Oral presentation, PittCon 2007, Chicago, IL
47. S. S. DeKeyser, K.K. Kutz-Naber, and **L. Li**, "MALDI-FTICR for the differential display analysis of neuropeptides involved in feeding," Oral presentation, PittCon 2007, Chicago, IL
46. J. Zhang, K.M. Arnold, R.E. Peterson, W. Heideman, and **L. Li**, "A proteomic approach to the study of zebrafish cardiovascular development using a novel 2D HPLC strategy coupled with Q-TOF tandem mass spectrometry," Oral presentation, PittCon 2007, Chicago, IL
45. X. Wei, J.J. Schmidt, A. Herbst, J. Aiken, and **L. Li**, "MS-based comparative profiling of glycoproteins for the discovery of potential biomarkers for prion disease," Poster presentation, PittCon 2007, Chicago, IL
44. J.J. Schmidt, S. McIlwain, M. Ma, D. Page, A.E. Christie, and **L. Li**, "Comparative peptidomics using MALDI-FTMS coupled with bioinformatics," Poster presentation, PittCon 2007, Chicago, IL

## 2006

43. **L. Li**, "A peptidomic approach to neuromodulation of a small neural network," invited talk, Society for Neuroscience Annual Meeting 2006, Atlanta, GA.
42. **L. Li**, S.S. DeKeyser, K.K. Kutz-Naber, M. Ma, and J.J. Schmidt, "Mass spectrometric studies of neuropeptides involved in feeding," Society for Neuroscience Annual Meeting 2006, Atlanta, GA.
41. J. Dowell, W. Vander Hayden, A. Kelley, and **L. Li**, "Analysis of neuropeptide expression in fed and unfed rats by mass spectrometry," Society for Neuroscience Annual Meeting 2006, Atlanta, GA.
40. Q. Fu, C. Zhang, J.S. Thorson, and **L. Li**, "Identification of calicheamicins using LC ESI QTOF MS/MS," 2006 AAPS (The American Association of Pharmaceutical Scientists) Annual Meeting and Exposition, San Antonio, TX.
39. J. Yew, Y. Wang, N. Barteneva, **L. Li**, and E.A. Kravitz, "Circuit-specific identification and characterization of neuropeptides in *Drosophila*," oral presentation, 32<sup>nd</sup> East Coast Nerve Net Annual Meeting 2006, Woods Hole, MA.
38. **L. Li**, S. DeKeyser, K. Kutz, J. Schmidt, and M. Ma, "Neuropeptide analysis by MALDI FTICR mass spectrometry," oral presentation, PittCon 2006, Orlando, FL.

37. Q. Fu and **L. Li**, “*De novo* sequencing of neuropeptides by isotope-based formaldehyde labeling and investigation of fragmentation pattern of neuropeptides with N-terminal dimethylation,” oral presentation, PittCon 2006, Orlando, FL.
36. S. DeKeyser, K. Kutz-Naber, and **L. Li**, “Qualitative and quantitative *in situ* analysis of neuropeptides involved in feeding,” 54<sup>th</sup> ASMS Annual Conference, Seattle, WA, 2006.
35. H. Behrens and **L. Li**, “Coupling microdialysis to nanoLC-MS for *in vivo* monitoring of neuropeptides,” 54<sup>th</sup> ASMS Annual Conference 2006, Seattle, WA.
34. M. Ma, K. Kutz-Naber, and **L. Li**, “Immunoaffinity-based mass spectrometric characterization of the RFamide neuropeptide family in the pericardial organ of *Cancer borealis*,” 54<sup>th</sup> ASMS Annual Conference 2006, Seattle, WA.
33. J. J. Schmidt, A. Herbst, S. McIlwain, D. Page, J. Aiken, and **L. Li**, “Combining MALDI-FTMS and biostatistics to identify biomarkers of prion diseases,” 54<sup>th</sup> ASMS Annual Conference 2006, Seattle, WA.
32. Q. Fu, C. Zhang, J. S. Thorson, and **L. Li**, “ESI QTOF MS/MS of protonated calicheamicin derivatives,” 54<sup>th</sup> ASMS Annual Conference 2006, Seattle, WA.
31. K. Kutz-Naber, S. Heinzelman, and **L. Li**, “On-target reduction and alkylation of disulfide-bond containing peptides,” 54<sup>th</sup> ASMS Annual Conference 2006, Seattle, WA.
30. J.A. Dowell and **L. Li**, “Rat neuropeptidomics by LC/MS/MS and MALDI-FTMS: enhanced extraction techniques coupled with 2D RP-RP HPLC separation,” 54<sup>th</sup> ASMS Conference 2006, Seattle, WA.

## 2005

29. J. J. Schmidt, A. Herbst, S. McIlwain, D. Page, J. Aiken, and **L. Li**, “Using MALDI-FTMS and biostatistics for the identification of animals infected with prion diseases,” Society for Neuroscience Annual Meeting 2005.
28. A.E. Christie, K.K. Kutz, D. I. Messinger, E.E. Savage, and **L. Li**, “Midgut endocrine cells are rich source of neuroactive peptides in the crab *Cancer productus*,” Society for Neuroscience Annual Meeting 2005.
27. P.S. Dickinson, D.I. Messinger, J.J. Schmidt, Y.A. Hsu, W. Rabacal, T.N. Ho, M. Pott, B. Peguero, E.A. Stemmler, **L. Li**, and A.E. Christie, “SIFamides in stomatogastric nervous system and neuroendocrine organs of decapod crustaceans,” Society for Neuroscience Annual Meeting 2005.
26. D.I. Messinger, D.R. Verley, Q. Fu, K.K. Kutz, Y.A. Hsu, **L. Li**, J.T. Birmingham, and A.E. Christie, “Structural and functional characterization of the anterior cardiac neuron 1/2-anterior cardiac plexus (ACN1/2-ACP) neuroendocrine system of the crab *Cancer productus*,” Society for Neuroscience Annual Meeting 2005.
25. J. J. Schmidt, A. E. Christie, and **L. Li**, “Exploring interspecies neuropeptidomics in the thoracic ganglia of decapod crustaceans using MALDI FTMS and bioinformatics,” Stomatogastric Ganglion Satellite Meeting 2005.
24. J. Y. Yew, Y. Wang, **L. Li**, and E. A. Kravitz, “Identification of neuropeptides and co-localization of peptides and biogenic amines in the *Drosophila* CNS using tandem affinity cell capture mass spectrometry,” Cold Spring Harbor Laboratory (CSHL) Neurobiology of *Drosophila* Symposium 2005.
23. J.Y. Yew, K.K. Kutz, S. Dikler, L. Messinger, **L. Li**, and A.O. Stretton, “Neuropeptide discovery in the nematode *Ascaris suum* using mass spectrometry,” Society for Experimental Biology Annual Meeting 2005.
22. J.J. Schmidt, A. Herbst, S. McIlwain, D. Page, **L. Li**, and J. Aiken, “Using MALDI-FTMS and biostatistics for the identification of biomarkers from animals infected with Prion diseases,” 2<sup>nd</sup> International Chronic Wasting Disease (CWD) Symposium, July 12-14, 2005.
21. S. McIlwain, A. Herbst, J. Schmidt, D. Page, **L. Li**, and J. Aiken, “Diagnosing prion disease through proteomic profiles,” 13th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB 2005).
20. **L. Li**, Q. Fu, K. K. Kutz, S. S. DeKeyser, J. J. Schmidt, and Y. Wang, “Development of integrated MS strategies for probing peptidergic signaling in a small neural network,” 53<sup>rd</sup> ASMS Conference, Platform presentation, 2005.

19. Q. Fu and **L. Li**, “*De novo* sequencing of novel neuropeptides by a combination of N-terminal derivatization and nanoLC-MS/MS,” 53<sup>rd</sup> ASMS Conference, 2005.
18. K. K. Kutz, A. Vilkov, L. Pasa-Tolic, N. Tolic, R.D. Smith, A. E. Christie, and **L. Li**, “Characterization of neuropeptidome of *Cancer productus* hemolymph in two physiological states by FTMS,” 53<sup>rd</sup> ASMS Conference, 2005.
17. S. S. DeKeyser and **L. Li**, “Quantitative MALDI-FTMS analysis of a simple neural circuit throughout development,” 53<sup>rd</sup> ASMS Conference, 2005.
16. Y. Wang, J. Yew, E. Kravitz, and **L. Li**, “Identification of *Drosophila melanogaster* neuropeptides with capillary liquid chromatography-tandem mass spectrometry,” 53<sup>rd</sup> ASMS Conference, 2005.
15. N. Cruz, K. Kutz, **L. Li**, and E. Marder, “Effect of novel neuropeptide in the stomatogastric ganglion and cardiac ganglion of the crab *Cancer borealis*,” East Coast Nerve Net 2005.

#### 2004

14. **L. Li**, Q. Fu, K.K. Kutz, J.J. Schmidt, Y. Wang, K. Graubard, A.E. Christie, “Mass spectrometric characterization of neuropeptide hormones in the neurosecretory structures of *Cancer productus*,” Society for Neuroscience Annual Meeting 2004, San Diego, CA.
13. J.J.Schmidt, K.K.Kutz, Y.Wang, Y.A.Hsu, C.T.Ngo, D.I.Messinger, A.E.Christie and **L.Li**, “Comparative neuropeptidomics of the thoracic/abdominal ganglia of crustaceans from the greater Puget Sound region of Washington State,” Society for Neuroscience Annual Meeting 2004.
12. C.T. Ngo, D.I. Messinger, Y.A. Hsu, A. Countryman, J.J. Schmidt, **L. Li** and A.E. Christie, “Transmitter complement in modulatory commissural neuron 1 (MCN1) homologs,” Society for Neuroscience Annual Meeting 2004, San Diego, CA.
11. **L. Li**, “Peptidergic signaling in a small nervous system: mass spectrometry as a tool for neuropeptide discovery,” Neuroscience Satellite Meeting on Dynamic Neural Networks: The Stomatogastric Ganglion, 2004, San Diego, CA.
10. K. Kutz, J. Schmidt, and **L. Li**, “Direct tissue analysis of neuroendocrine organs of *Cancer borealis* and *Cancer productus* by MALDI-FTMS using in cell accumulation,” ASMS 2004, Nashville, TN.
9. **L. Li**, Y. Wang, Q. Fu, K. Kutz, and J. Schmidt, “Global analysis of neuropeptides using multidimensional MS approaches,” ASMS 2004, Nashville, TN.
8. K. Kutz, J. Schmidt, Q. Fu, and **L. Li**, “*In situ* peptide analysis of neuroendocrine tissues from *Cancer borealis* and *Cancer productus* by MALDI FTMS,” Oral presentation, PittCon 2004, Chicago, IL.
7. J. J. Schmidt, K. K. Kutz, and **L. Li**, “In cell accumulation in MALDI FT-MS as a method of detecting very low concentration analytes with high mass accuracy and more possibilities for MS/MS,” PittCon 2004, Chicago, IL.
6. Q. Fu and **L. Li**, “Developing offline two-dimensional LC MS/MS for neuropeptide analysis,” Oral presentation, PittCon 2004, Chicago, IL.

#### 2003

5. J. M. Edwards, J. J. Schmidt, K. K. Kutz, Q. Fu, L. V. Ambroggio, K. Graubard, A. E. Christie, and **L. Li**, “Differential distribution of hormones in the neuroendocrine organs of *Cancer productus*,” Society for Neuroscience Annual Meeting 2003, New Orleans, LA.
4. A. K. Friedman, A. Proekt, V. Brezina, J. Jing, Y. Zhurov, V. Alexeeva, **L. Li**, J. V. Sweedler, K. R. Weiss, and F. S. Vilim, “Identification and characterization of the orphan myomodulin precursor of *Aplysia*,” Society for Neuroscience Annual Meeting 2003, New Orleans, LA.
3. **L. Li**, J. Schmidt, K. Kutz, and Q. Fu, “A peptidomics approach to neuromodulation in crustacean nervous systems: a comparative study using high resolution mass spectrometry,” 51<sup>st</sup> Annual Meeting for American Society for Mass Spectrometry (ASMS) 2003, Montreal, Canada.

2. **L. Li** “A peptidomics approach to neuromodulation in a small nervous system,” Proteomics Workshop, Wisconsin Symposium III: From DNA to Molecular Medicine 2003, Madison, WI.
1. **L. Li**, W. P. Kelley, and A. Christie, “Measuring neuropeptides in crustacean nervous systems using MALDI FTICR MS,” The Fourth North American FT-ICR MS Conference 2003, Marshall, CA.

**Note:** There are also **53** conference abstracts (oral and poster presentations) with Dr. Li being first author or co-author prior to her independent faculty position at UW-Madison (titles are omitted for space consideration).

**Research Support:**

**(a) Current funding:**

- 1) Title: Mass Spectrometric Studies of Neuropeptides in Feeding  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH/NIDDK  
Type: R01 DK071801  
Period: 5/1/06-6/30/12  
Total Costs (TC): \$1,353,714 (including three supplements)
- 2) Title: Proteomic Evaluation of the Blood-Brain Barrier Receptor-Mediated Transportome  
Principal Investigator: Eric Shusta, Ph.D.  
Co-PI: Lingjun Li, Ph.D.  
Agency: NIH/NINDS  
Type: EUREKA R01 NS071513 (Exceptional, Unconventional Research Enabling Knowledge Acceleration)  
Period: 08/01/10-05/31/14  
TC: \$1,155,048
- 3) Title: Combining Imaging Mass Spectrometry and Capillary Electrophoresis to Decipher Chemical Signaling in the Nervous System in Response to Environmental Stress  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NSF  
Period: 05/15/10-4/30/13  
TC: \$450,000
- 4) Title: Mining the Immune Cell Proteome to Identify Ovarian Cancer-Specific Biomarkers  
Principal Investigator: Manish Patankar, Ph.D.  
Co-PI: Lingjun Li, Ph.D.  
Agency: Department of Defense  
Type: Pilot Award  
Period: 01/01/11-12/31/12  
DC: \$200,000; TC: \$289,240
- 5) H. I. Romnes Faculty Fellowship  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: Wisconsin Alumni Research Foundation  
Type: flexible research funds  
Period: 7/01/11-06/30/16  
DC: \$50,000
- 6) Title: Acquisition of a High-Field Dual Source FTICR-MS for Pharmaceutical Research  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH (high-end shared instrumentation grant program)  
Period: 5/15/11-04/30/12 (received impact score of 22)  
TC: \$2,070,000, DC: \$2,070,000

- 7) Title: Mass Spectrometric Studies of Neuropeptides in Feeding  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH R56DK071801  
Period: 7/01/11-06/30/12  
TC: \$216,115, DC: \$150,000
- 8) Title: Exploring Glycoproteomic Profiles for Prion Disease Diagnostics  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: Wisconsin Alumni Research Foundation  
Type: Research grant  
Period: 07/01/11-06/30/12  
Total DC: \$11,000
- 9) Title: Comparative Peptidomics for Feeding  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: University of Wisconsin Graduate School  
Type: Research grant  
Period: 07/01/11-06/30/12  
Total DC: \$34,010
- 10) Title: CSF Biomarkers in Alzheimer's Disease  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: WCMP Pilot Grant Program in Alzheimer's Disease Research  
Type: Pilot research grant  
Period: 10/01/11-09/30/12  
Total DC: \$30,010
- 11) Title: Molecular Imaging of Metabolites in Legume Nodule Development and Biological Nitrogen Fixation by MALDI Mass Spectrometry  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: University of Wisconsin Graduate School  
Type: Research grant  
Period: 07/01/12-06/30/13  
Total DC: \$45,962
- 12) Title: Mass Spectrometric Studies of Neuropeptides in Feeding  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH/NIDDK  
Type: R01 DK071801 Competitive Renewal  
Period: 7/1/12-5/31/17  
Total Costs (TC): \$1,577,815  
*Received priority score of 10 (perfect score), 1% ranking at EBIT panel on June 2, 2011.*

**(b) Pending funding:**

- 1) Title: Identify Pre-Alzheimer's Disease via Down Syndrome Stem Cells  
Principal Investigator: Su-Chun Zhang, Ph.D.  
Agency: NIH/NINDS  
Type: Transformative R01  
Period: 9/1/12-8/31/17  
Total Costs (TC): \$9,580,108
- 2) Title: Stable isotope assisted labeling (SIAL) platform for metabolic flux analysis



Principal Investigator: Fariba Assadi-Porter, Ph.D.; Co-PI: Lingjun Li, Ph.D.  
Agency: NIH  
Type: Technology R01  
Period: 9/1/12-8/31/17  
TC: \$4,031,599

- 3) Title: Development of the Madison Midwest Metabolomics Center  
Principal Investigator: John Markley, Ph.D.; Project PI for MS Core: Lingjun Li, Ph.D.  
Agency: NIH  
Type: U24  
Period: 9/1/12-8/31/17  
TC: 14,468,666
- 4) Title: MALDI LTQ Orbitrap Hybrid Mass Spectrometer for Biomedical Research at UW-Madison  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH (shared instrumentation grant program)  
Period: 4/01/11-03/31/12 (received impact score of 32, funding decision pending)  
TC: \$600,000, DC: \$600,000
- 5) Title: Molecular Imaging of Metabolites in Legume Nodule Development and Biological Nitrogen Fixation by MALDI Mass Spectrometry  
Principal Investigator: Lingjun Li, Ph.D., Co-PI: Jean-Michel Ane  
Agency: USDA  
Period: 1/1/12-12/31/15  
TC: \$499,458
- 6) Title: Mass spectrometric imaging of brain proteins in environmental models of autism  
Principal Investigator: Chris Ikonomidou, MD, Ph.D., Co-PI: Lingjun Li, Ph.D.  
Agency: NIH  
Period: 11/1/11-10/31/13  
TC: \$146,460
- 7) Title: Novel 8-plex *N,N*-Dimethyl Leucines Isobaric Tandem Mass Tags for Quantitative Proteomics, Peptidomics, and Metabolomics  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: Wisconsin Alumni Research Foundation  
Type: Draper Technology Innovation Fund (TIF)  
Period: 10/01/11-9/30/12  
TC: \$49,995

(c) **Past funding:**

- 1) Title: Developing New MS Strategies for Probing Neurochemical Communications  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: American Society for Mass Spectrometry, Sponsored by Thermo Electron Corp.  
Type: Research Award for Young Investigator (3 awards/yr to institutions in North America)  
Period: 7/1/04-funds expended, TC: \$25,000
- 2) Title: In Situ Quantitation of Neuropeptides in Feeding  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NIH/NINDS  
Type: NRSA F31 Predoctoral Fellowship to Stephanie S. DeKeyser  
Period: 01/01/07-12/31/08  
Total DC: \$63,342

- 3) Title: A Proteomic Approach to Biomarker Discovery in Prion Disease  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: Wisconsin Alumni Research Foundation  
Type: Research grant  
Period: 07/01/07-06/30/08  
Total DC: \$34,766
- 4) Title: A Peptidomic Approach to the Development of Neural Circuitry  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: University of Wisconsin Graduate School  
Type: Research grant  
Period: 07/01/08-06/30/09  
Total DC: \$32,266
- 5) Title: Genomic Approach to Understanding TCDD Toxicity in Zebrafish  
Principal Investigator: Warren Heideman, Ph.D.  
Co-PI: Lingjun Li, Ph.D., Richard E. Peterson, Ph.D.  
Agency: National Sea Grant Institute  
Type: Research grant  
Period: 03/01/06-02/28/10  
TC: \$382,807
- 6) Title: CAREER: Development of Integrated MS Strategies for Probing Peptidergic Signaling  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: NSF  
Type: Faculty CAREER Award CHE-0449991  
Period: 2/1/05-8/31/10  
TC: \$546,000
- 7) Title: A Proteomic Approach to Biomarker Discovery in Prion Disease  
Principal Investigator: Lingjun Li, Ph.D.  
Co-PI: Judd Aiken, Ph.D., C. David Page Jr., Ph.D.  
Agency: NIH/NIAID  
Type: R21 AI0272588  
Period: 09/30/07-08/31/10  
TC: \$363,360
- 8) Title: Developing an Integrated Analytical Platform for Functional Discovery of Novel Neuropeptides  
Principal Investigator: Lingjun Li, Ph.D.  
Agency: Alfred P. Sloan Foundation  
Type: Research Fellowship  
Period: 09/15/06-09/15/10  
TC: \$45,000
- 9) Title: CSF Biomarkers for Alexander Disease  
Principal Investigator: Albee Messing, Ph.D.  
Co-PI: Lingjun Li, Ph.D.  
Agency: NIH (NINDS administrative supplements for CAPTR)  
Period: 09/30/08-09/29/10  
TC: \$72,053, DC: \$49,827
- 10) Title: Implementation of Cross-linked Enzyme Aggregate of Trypsin for High Throughput Proteomics

Principal Investigator: Lingjun Li, Ph.D.  
 Agency: UW Graduate School IEDR Program 2009-2010  
 Period: 7/01/09-06/30/10  
 TC: \$46,230

- 11) Title: Combining Imaging Mass Spectrometry and Capillary Electrophoresis Coupled to Mass Spectrometric Detection for Probing Chemistry in a Developing Neural Network  
 Principal Investigator: Lingjun Li, Ph.D.  
 Agency: Vilas Associate Award Program  
 Period: 07/01/09-06/30/11  
 TC: \$80,090, DC: \$80,090
- 12) Title: CSF Biomarkers for Alexander Disease  
 Principal Investigator: Lingjun Li, Ph.D.  
 Co-PI: Albee Messing, Ph.D.  
 Agency: University of Wisconsin Institute for Clinical and Translational Research (UW ICTR), funded in part through an NIH Clinical and Translational Science Award (CTSA), grant number 1UL1 RR025011  
 Period: 10/01/09-02/01/11  
 DC: \$49,880
- 13) Title: *N,N*-Dimethyl Leucines as Novel Isobaric Tandem Mass Tags for Quantitative Proteomics, Peptidomics, and Metabolomics  
 Principal Investigator: Lingjun Li, Ph.D.  
 Agency: Wisconsin Alumni Research Foundation  
 Type: Draper Technology Innovation Fund (TIF)  
 Period: 09/01/10-6/30/11  
 TC: \$13,500

#### Misc. funding:

- Eli Lilly Analytical Young Investigator Travel Award (\$1,000)
- UW Graduate School  
 Awards were approved as insurance grants for NSF CAREER and NIH R01 applications. Funds were not used due to successful obtaining external grant applications. Two separate awards of \$27,362 and \$18,000 were made.
- School of Pharmacy Robinson Faculty Travel Award (\$2,000)

### TEACHING

#### Formal Course Assignments:

Year	Semester	Course Number	Course Title	Enrollment
2003	Spring	Chem 638	Topics in Chemical Instrumentation: Introduction to Mass Spectrometry	20
		Chem 993	Thesis Research (Graduate)	2
		Pharm Sci 990	Thesis Research (Graduate)	1
	Summer	Chem 993	Thesis Research (Graduate)	2
		Pharm Sci 990	Thesis Research (Graduate)	1
	Fall	Pharm Sci 780	Principles in Pharmaceutical Sciences	6
		Pharm Sci 990	Thesis Research (Graduate)	2
		Chem 993	Thesis Research (Graduate)	5
		URS-250	Undergraduate Research Project	2
		Neuro 500	Neuroscience Seminars for Undergraduates	30

2004	Spring	Chem 638	Topics in Chemical Instrumentation: Introduction to Mass Spectrometry	36
		Chem 993	Thesis Research (Graduate)	5
		Chem 116	Chemical Principles II (Undergraduate Research Project)	1
	Summer	Pharm Sci 990	Thesis Research (Graduate)	2
		Chem 993	Thesis Research (Graduate)	5
		Chem 699	Directed Undergraduate Study	1
	Fall	Pharm Sci 990	Thesis Research (Graduate)	2
		Pharm Sci 780	Principles in Pharmaceutical Sciences	9
		Chem 993	Thesis Research (Graduate)	5
		Chem 699	Directed Undergraduate Study	3
2005	Spring	Pharm Sci 990	Thesis Research (Graduate)	2
		Pharm Sci 492	Selected Topics: Mass Spectrometry in Health Sciences	New course
		Chem 993	Thesis Research (Graduate)	5
	Fall	Chem 699	Directed Undergraduate Study	3
		Pharm Sci 990	Thesis Research (Graduate)	3
		Chem 622	Organic Analysis	16
		Pharm Sci 493	Biological Mass Spectrometry	16
		Pharm Sci 780	Principles in Pharmaceutical Sciences	6
		Chem 699	Directed Undergraduate Study	3
		Chem 993	Thesis Research (Graduate)	5
2006	Spring	Pharm Sci 990	Thesis Research (Graduate)	3
		Pharm Sci 999	Advanced Independent Study (1 <sup>st</sup> year graduate)	2
	Fall	Chem 993	Thesis Research (Graduate)	8
		Pharm Sci 990	Thesis Research (Graduate)	5
2007	Spring	Pharm Sci 699	Directed Undergraduate Study	4
		Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	120
		Pharm Sci 780	Principles in Pharmaceutical Sciences (graduate students)	14
		Chem 993	Thesis Research (Graduate)	8
	Fall	Pharm Sci 990	Thesis Research (Graduate)	5
		Pharm Sci 699	Directed Undergraduate Study	1
		Chem 699	Directed Undergraduate Study	1
		Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	118
		Pharm Sci 493/Chem 622	Biological Mass Spectrometry: Fundamentals and Applications	24
		Pharm Sci 780	Principles in Pharmaceutical Sciences (graduate students)	11
2008	Spring	Pharm Sci 990	Thesis Research (Graduate)	7
		Chem 993	Thesis Research (Graduate)	9
		Pharm Sci 990	Thesis Research (Graduate)	7
		Chem 993	Thesis Research (Graduate)	8
	Fall	Pharm Sci 990	Thesis Research (Graduate)	7
		Chem 993	Thesis Research (Graduate)	9
		Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	86
		Pharm Sci 780	Principles in Pharmaceutical Sciences (graduate students)	7
2009	Spring	Pharm Sci 990	Thesis Research (Graduate)	5
		Pharm Sci 999	First-Year Graduate Student Advising	2
		Chem 993	Thesis Research (Graduate)	9
	Fall	Pharm Sci 932	Pharmaceutical Sciences Seminars (for graduate students)	55
		Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	132
		Chem 622/Pharm	Biological Mass Spectrometry: Fundamentals and	18

		Sci 493	Applications	
		Pharm Sci 780	Principles in Pharmaceutical Sciences (graduate students)	14
2010	Fall	Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	128
		Pharm Sci 780	Principles in Pharmaceutical Sciences (graduate students)	6
		Pharm Sci 990	Thesis Research (Graduate)	8
		Chem 993	Thesis Research (Graduate)	7
2011	Fall	Pharm Sci 432	Pharmaceutical Biochemistry (for 1 <sup>st</sup> -year PharmD students)	131
		Chem 622/Pharm Sci 493	Biological Mass Spectrometry: Fundamentals and Applications	19
		PharmSci 990	Thesis Research (Graduate)	7
		Chem 993	Thesis Research (Graduate)	7
		Neuroscience 990	Thesis Research (Graduate)	1
		PharmSci 699	Undergraduate Independent Research	4
2012	Spring	Medical Physics 471	Molecular Imaging (Guest lecture)	

### Research Training:

#### **Graduate Students Supervised – Ph.D. (28 total)**

Qiang Fu	Peking University, B.S. and M.S. Chemistry	2002-2006
•	Thesis: <i>Global analysis of neuropeptides in a small nervous system and mass spectrometric study of gas-phase fragmentation of protonated biomolecules</i> ; Ph.D. July 2006; Senior Scientist, Schering-Plough	
Kimberly Kutz-Naber	UW-Whitewater, B.S. Chemistry	2002-2006
•	Thesis: <i>Mass spectral characterization of neuropeptides in Cancer crabs: method development and biological application</i> ; Ph.D. December 2006; Declined job offers from UW-Whitewater and UW-Rock County due to family reasons	
Joshua Schmidt	Bethel College, B.S. Chemistry, Biology, and Biochemistry	2002-2007
•	Thesis: <i>From crabs to hamsters: bioanalytical mass spectrometry for peptidomic analysis and biomarker discovery</i> ; Ph.D. August 2007; Scientist, 3M	
Stephanie DeKeyser (Cape)	University of Illinois at Urbana-Champaign	2003-2007
•	Thesis: <i>Development of mass spectrometric techniques for the analysis of neuropeptides: differential display, quantitation, and imaging</i> ; Ph.D. December 2007; Senior Scientist, PPD, Inc.	
Heidi Behrens	University of California-Irvine	2003-2008
•	Thesis: <i>Coupling in vivo microdialysis sampling to mass spectrometry to monitor neuropeptide secretion in a decapod crustacean</i> ; Ph.D. June 2008; Postdoctoral fellow, UC-Irvine	
James Dowell	University of Kansas	2003-2008
•	Thesis: <i>Mammalian neuroproteomics and neuropeptidomics: analysis by mass spectrometry</i> ; Ph.D. August 2008; Postdoctoral fellow, University of Wisconsin-Madison (Prof. Jeff Johnson's lab), 2008-	
Mingming Ma	Zhejiang University	2004-2008
•	Thesis: <i>Exploring neuropeptidomes via novel mass spectral techniques</i> ; Ph.D. December 2008; Senior Scientist, Dow AgroSciences Inc.	
Ruibing Chen	Peking University	2005-2009
•	Thesis: <i>Multi-faceted mass spectrometric approaches for the analysis of neuropeptides in crustacean: toward functional discovery</i> ; Ph.D. December 2009; Associate Professor, Tianjin Medical University	
Xin Wei	Hongkong Baptist University	2005-2010
•	Thesis: <i>Facilitating protein identification and biomarker discovery by chromatographic separation and mass spectrometry</i> ; Ph.D. January 2010; Senior Scientist, Procter & Gamble, Inc.	
Jiang Zhang	Tongji University	2005-2010
•	Thesis: <i>Exploring the Cardiac Proteome: Integrating Bottom-up and Top-down Mass Spectrometry Strategies</i> ; Ph.D. August 2010; Postdoctoral Fellow, University of California at Los Angeles (Prof. Joseph Loo's lab)	
Feng Xiang	Sichuan University (BS in Chemistry), South Dakota State Univ. (MS)	2006-2011

- Thesis: *Developing Novel Labeling Tools for Neuropeptide Quantitation and Identification by Mass Spectrometry*; Ph.D. March 2011; Scientist, Dow Chemicals Inc.
- Yuzhuo Zoe Zhang      Peking University (BS in Chemistry)      2006-2011
- Thesis: *Neuropeptidomic Studies in Crustacean via Multi-faceted Mass Spectrometric Techniques*; Ph.D. April 2011; Scientist, Leoch Battery Corp.
- Xiaoyue Jiang      Nankai University (BS in Biochemistry)      2007-2011
- Thesis: *Neurotransmitters in Crustaceans: Expression, Quantitation and Distribution Probed by Mass Spectrometry*; Ph.D. September 2011; Scientist, Thermo Fisher Scientific Inc.

#### A. Current group members

*Graduate Students* (18): Weifeng Cao, Robert Cunningham, Dustin Frost, Tyler Greer, Limei Hui, Robert Sturm, Chenxi Jia, Nicole Woodards, Shan Jiang, Di Ma, Claire Schmerberg, Hui Ye, Zichuan Zhang, Zhidan Liang, Chuanzi Ouyang, Jingxin Wang, Chris Lietz, Erin Zimmerman

*Rotation Student* (1): Shan Jiang, Wei Zhang

*Undergraduates* (8): Brock Hensen, Daniel Wellner, Chen Chen, Lauren Putterman, Kevin Hayes, Maxwell Meller, Sujin Yoo, Yuanyuan Qiu

#### B. Former group members

*Postdoctoral Fellow* (3): Dr. Yun Wang (Current position: Dept of Analytical Development, PPD, Inc.), Dr. Junhua Wang (Current position: Scripps Research Institute), Dr. Jun Wang (PPD, Inc.)

*Ph.D. Graduates* (12): Qiang Fu (Current position: Senior Scientist, Merck)  
Stephanie DeKeyser (Cape) (Current position: Senior Scientist, Covance, Inc.)  
Kimberly Kutz-Naber (Current position: Lecturer at UW-Whitewater)  
Joshua Schmidt (Current position: Scientist, 3M Inc.)  
Heidi Behrens (Current position: Lecturer, San Diego State University)  
James Dowell (Current position: Postdoctoral associate, UW-Madison, School of Pharmacy, Professor Jeff Johnson Lab)  
Mingming Ma (Current position: Senior Scientist, Dow AgroSciences)  
Ruibing Chen (Current position: Associate Professor, Tianjin Medical University)  
Xin Wei (Current position: Senior Scientist, Procter & Gamble, Inc.)  
Jiang Zhang (Current position: Postdoctoral fellow, University of California at Los Angeles, Professor Joseph Loo Lab)  
Zoe Zhang (Current position, Scientist, Leoch Battery Corp.)  
Feng Xiang (Current position: Analytical Scientist, Dow Chemicals Inc.)

*M.S. Students* (3): Kankai Chen (Current position: Sanofi-Aventis R&D), Christopher Collington  
John Dopp (MS Program in Clinical Investigation, current position: Assistant Professor at School of Pharmacy, UW-Madison)

*Rotation Students* (14): Joe Su, Yu Huang, Jun Huang, Xiaohua Zheng, Jing Chen, Hanmi Xi, Michael Levine (MD/PhD), Laurelis Santiago, April Jue, Kenneth Simmons, Di Ma, Javier Velasco, Siwei Zhang, Qiyao Li

*Undergraduates* (26): Shelly Heinzelman, Amara Pulver (URS program, currently School of Nursing), Martin Treu, Christopher Schlieve, Mingzi Zhang (URS program), Adonis Ducre (NSF REU student through SRP-Bio program), William Vander Heyden (Currently graduate student in Neuroscience Dept at Washington Univ.), Nathan Smith, Anne Drehfal, Megan Kultgen (Currently PharmD student), Jin Young Maeng, Yuet Fai (Gordon) Tse, Teresa Chiang, Jeffrey Guokas, Dustin Frost, Justin Vrana, Eric Mortensen, Charles Dulberger (Research specialist in Prof. Michael Cox's lab at UW-Madison), Philip Song, Dae Kyu Choi, Claire Seidler, Carol Lam, Jenny Vue, Andy Kozicki, Gajan Muthuvel, Katherine Zimny

*High School Students* (2): Mary Q. Zhang (MIT, Department of Biomedical Engineering), Connie Wang

#### C. Student awards

Heidi Behrens	NIH Biotechnology Traineeship
Heidi Behrens	American Chemical Society (ACS) Women Chemists Committee Travel Award
Heidi Behrens	Vilas Travel Fellowship
Weifeng Cao	Vilas Travel Fellowship 2009
Ruibing Chen	Vilas Travel Fellowship
Ruibing Chen	Department of Chemistry Graduate Travel Award
Ruibing Chen	Gary Parr Memorial Award for outstanding bioanalytical chemistry student
Ruibing Chen	Society for Neuroscience Graduate Student Travel Award
Robert Cunningham	Vilas Travel Fellowship
Stephanie DeKeyser	Merck Travel Award
Stephanie DeKeyser	NRSA Predoctoral Fellowship (score 162, 12.8% percentile)
Stephanie DeKeyser	Pfizer ACS Analytical Division Graduate Travel Award
James Dowell	American Foundation for Pharmaceutical Education (AFPE) Fellowship
James Dowell	Witiak Graduate Student Travel Award
Dustin Frost	Rennebohm TA Award 2010
Qiang Fu	Vilas Travel Fellowship
Qiang Fu	Merck Analytical/Physical Graduate Fellowship
Qiang Fu	Cohen-McElvain Travel Grants
Qiang Fu	Research Excellence Award in Analytical Chemistry, UW-Madison
Qiang Fu	American Chemical Society Division of Analytical Chemistry Graduate Fellowship
Qiang Fu	American Association for Pharmaceutical Scientist (AAPS) Graduate Student Symposium in Analysis and Pharmaceutical Quality Award
Tyler Greer	Outstanding Chemistry Teaching Assistant Award (2010-2011)
Tyler Greer	Department of Chemistry Graduate Travel Award
Kimberly Kutz	NIH Chemistry-Biology Interface Training Grant
Kimberly Kutz	Department of Chemistry Teaching Assistant Excellence Award
Kimberly Kutz	Gary Parr Memorial Award for outstanding bioanalytical chemistry student
Kimberly Kutz	Vilas Travel Fellowship
Limei Hui	Department of Chemistry Graduate Travel Award
Limei Hui	Vilas Travel Fellowship 2009
Chenxi Jia	HHMI International Research Fellowship UW Finalist 2012
Xiaoyue Jiang	Vilas Travel Fellowship 2009
Xiaoyue Jiang	Witiak Graduate Student Travel Award (2010)
Mingming Ma	Vilas Travel Fellowship
Mingming Ma	Bausch & Lomb Student Innovation Award
Mingming Ma	Rennebohm Dissertation Award (2009)
Mingming Ma	Witiak Graduate Student Travel Award
Claire Schmerberg	Connors Wisconsin Distinguished Fellowship
Claire Schmerberg	NIH Biotechnology Traineeship
Claire Schmerberg	American Chemical Society (ACS) Women Chemists Committee Travel Award
Claire Schmerberg	Vilas Travel Fellowship
Claire Schmerberg	Peterson Graduate Student Travel Award (2011)
Joshua Schmidt	American Foundation for Pharmaceutical Education (AFPE) Fellowship
Joshua Schmidt	Vilas Travel Fellowship
Robert Sturm	Clinical Neuroengineering Training Program (CNTP) Fellowship
Justin Vrana	Sophomore Honors Summer Research Apprenticeship
Xin Wei	Vilas Travel Fellowship
Xin Wei	Department of Chemistry Graduate Travel Award
Nicole Woodards	UW-Madison Advanced Opportunity Fellowship
Feng Xiang	Midwestern Universities Analytical Chemistry Conference (MUACC) 2010 Graduate Student Travel Award
Feng Xiang	Vilas Travel Fellowship
Hui Vivian Ye	Vilas Travel Fellowship

Yuzhuo (Zoe) Zhang Department of Chemistry Graduate Travel Award  
 Yuzhuo (Zoe) Zhang Vilas Travel Fellowship  
 Zichuan Zhang Vilas Travel Fellowship  
 Zichuan Zhang HHMI International Research Fellowship UW Finalist 2011

**D. Temporary advisors for new graduate students – Fall 2007**

Tsz Chung Lai, Claire Schmerberg, and Kenneth Simmons

**E. Temporary advisors for new graduate students – Fall 2008, Fall 2011**

Hui Ye, Zichuan Zhang, and Wei Zhang

**Service as Committee Member for Ph.D. Candidacy Exams and Final Thesis Defenses:**

Student	Research Area	Research Advisor	Examination/Committee
Jian Zhang	Analytical/Natural Product	Ben Shen	Ph.D. candidacy
Dalia Dhingra	Analytical Chemistry	David Schwartz	Ph.D. candidacy/Thesis defense
Kimberly Kutz	Analytical Chemistry	Lingjun Li	Ph.D. candidacy/Thesis defense
Qiang Fu	Analytical Chemistry	Lingjun Li	Ph.D. candidacy/Thesis defense
Joshua Schmidt	Pharmaceutical Sciences	Lingjun Li	Research progress/ Prelim/Thesis defense
Lu Shang	Analytical Chemistry	Robert Hamers	Ph.D. candidacy/Thesis defense
Bei Nie	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy, Ph.D. thesis defense
Xu Zhang	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy/Ph.D. thesis defense
Siyuan Chen	Analytical Chemistry	Lloyd Smith	Ph.D. thesis defense
Jie Yang	Pharmaceutical Sciences	Jon Thorson	Ph.D. candidacy (Prelim)/Ph.D. thesis defense
Jieun Lee	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy/Thesis defense
Yuan Lin	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy
Stephanie DeKeyser	Analytical Chemistry	Lingjun Li	Ph.D. candidacy/Thesis defense
Heidi Behrens	Analytical Chemistry	Lingjun Li	Ph.D. candidacy
Mingming Ma	Pharmaceutical Sciences	Lingjun Li	Research progress/PhD thesis committee
James Dowell	Pharmaceutical Sciences	Lingjun Li/Jeff Johnson	Qualifier exam/Prelim/PhD thesis committee
Claire Schmerberg	Pharmaceutical Sciences	Lingjun Li	Research progress/Thesis committee
Xiaoyue Jiang	Pharmaceutical Sciences	Lingjun Li	PhD thesis committee
Catherine Rideaux	Pharmaceutical Sciences	Jeffrey Johnson	Research progress
Jeffrey Jones	Neuroscience Training Program	Su-chun Zhang	Thesis research committee
Timothy LaVaute	Neuroscience Training Program	Su-chun Zhang	Research progress/Prelim/PhD thesis committee
Jessica Jarecki	Neuroscience Training Program	Tony Stretton	Research progress/Prelim
Katherine (Kari) Andersen	Zoology	Tony Stretton	M.S. thesis committee
Christopher J Konop	Zoology	Tony Stretton	Ph.D. thesis committee
Rita Buresh	Pharmaceutical Sciences	Darin Furgeson	Ph.D. thesis committee



Howard Chen	Pharmaceutical Sciences	Darin Furgeson/Glen Kown	PhD Thesis Committee
Nella Barshteyn	Pharmaceutical Sciences	Adnan Elfarrar	Research progress/Prelim
Roy Irving	Molecular and Environmental Toxicology Program	Adnan Elfarrar	Ph.D. thesis committee
Manchun Lu	Analytical Chemistry	Lloyd Smith	Ph.D. thesis defense
Xiaoyu Chen	Analytical Chemistry	Lloyd Smith	Ph.D. thesis defense
Cheng Hsien Wu	Cellular & Molecular Biology	Lloyd Smith	Ph.D. thesis/Prelim
Suzie Kulevich	Analytical Chemistry	Lloyd Smith	Ph.D. thesis
Daniel Lador	Analytical Chemistry	Lloyd Smith	Research proposal committee
Eileen Dimalanta	Analytical Chemistry	David Schwartz	Ph.D. thesis defense
Sang Alex Lim	Analytical Chemistry	David Schwartz	Ph.D. thesis defense
Lisa Jungbauer	Biophysics	Silvia Cavagnero	Ph.D. thesis defense
Daria Fedyukina	Organic Chemistry	Silvia Cavagnero	Research progress committee
Clark Nelson	Cellular & Molecular Biology	Michael Sussman	Ph.D. thesis defense
Melanie Ivancic	Biochemistry	Michael Sussman	Ph.D. thesis committee
Edward Huttlin	Biochemistry	Michael Sussman	Ph.D. thesis research/defense
Sean Zuckerman	Biomedical Engineering	John Kao	M.S. thesis defense/PhD thesis committee
Sean McIwain	Biostatistics/Medical Informatics	David Page	Prelim exam/Ph.D. thesis defense
Michael Conway	Pharmaceutical Sciences	Warren Heideman	Qualifier exam
Jing Chen	Pharmaceutical Sciences	Warren Heideman	Research progress
Di Ma	Pharmaceutical Sciences	Warren Heideman	Ph.D. thesis committee
Matthew Slattery	Pharmaceutical Sciences	Warren Heideman	Ph.D. thesis defense
Shiping Fang	Analytical Chemistry	Robert Corn	Ph.D. thesis defense
Xin Wei	Analytical Chemistry	Lingjun Li	Ph.D. candidacy
Ryan Hilger	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy
Gloria Kreitinger	Analytical Chemistry	Lloyd Smith	Ph.D. candidacy
Ruibing Chen	Analytical Chemistry	Lingjun Li	Ph.D. candidacy
Jiang Zhang	Pharmaceutical Sciences	Lingjun Li	Research progress
Danielle Swaney	Analytical Chemistry	Joshua Coon	Ph.D. candidacy
David Good	Analytical Chemistry	Joshua Coon	Ph.D. candidacy
April Jue	Analytical Chemistry	Joshua Coon	Ph.D. candidacy
Aaron Ledvina	Analytical Chemistry	Joshua Coon	Ph.D. candidacy (TBO)
Jason Russell	Analytical Chemistry	Joshua Coon	Ph.D. candidacy (TBO/Prelim)
Graeme McAllister	Analytical Chemistry	Joshua Coon	Ph.D. thesis defense
Craig Wenger	Analytical Chemistry	Joshua Coon	Ph.D. candidacy (TBO)
Nicole Beauchene	Integrated program in biochemistry	Joshua Coon	Prelim exam committee
Alex Hebert	Integrated program in biochemistry	Joshua Coon	Prelim exam committee
Amelia Peterson	Analytical Chemistry	Joshua Coon	Ph.D. candidacy (TBO)
Violet Lee	Analytical Chemistry	Joshua Coon	Ph.D. thesis defense
Doug Phanstiel	Analytical Chemistry	Joshua Coon	Ph.D. thesis defense
Anna Larson	Analytical Chemistry	Joshua Coon	Ph.D. candidacy (TBO)
Tian Wu	Analytical Chemistry	David Schwartz	Ph.D. thesis defense
India Viola	Neuroscience	Tony Stretton	Ph.D. thesis committee
Hua Bai	Neuroscience	Ed Chapman	Ph.D. thesis committee
Ting Lu	Pharmaceutical Sciences	Richard Hsung	Prelim exam committee
Yonggang Wei	Pharmaceutical Sciences	Richard Hsung	Prelim exam committee

Gang Li	Pharmaceutical Sciences	Richard Hsung	Prelim exam committee
Hongyan Li	Pharmaceutical Sciences	Richard Hsung	Prelim exam committee
Xuejun Zhang	Pharmaceutical Sciences	Richard Hsung	Ph.D. thesis defense
Feng Xiang	Pharmaceutical Sciences	Lingjun Li	Prelim exam committee
Vivian Hui Ye	Pharmaceutical Sciences	Lingjun Li	Thesis research committee
Zichuan Zhang	Pharmaceutical Sciences	Lingjun Li	Thesis research committee
Limei Hui	Analytical Chemistry	Lingjun Li	Prelim exam committee
Yuzhuo Zhang	Analytical Chemistry	Lingjun Li	Prelim exam committee
Weifeng Cao	Analytical Chemistry	Lingjun Li	Prelim exam committee
Robert Sturm	Analytical Chemistry	Lingjun Li	Prelim exam committee
Robert Cunningham	Analytical Chemistry	Lingjun Li	Prelim exam committee
Nicole Woodards	Analytical Chemistry	Lingjun Li	Prelim exam committee
Tyler Greer	Analytical Chemistry	Lingjun Li	Ph.D. thesis committee
Chenxi Jia	Pharmaceutical Sciences	Lingjun Li	Ph.D. thesis committee
Shan Ke	Analytical Chemistry	John Wright/Glen Kwon	Prelim exam/Ph.D. thesis defense committee
Kartik Kumar	Molecular & Environmental Toxicology Program	Joel Pedersen	Ph.D. thesis committee
Christen Bell	Environmental Chemistry & Technology	Joel Pedersen	Ph.D. thesis committee
Clarissa Booth	Molecular & Environmental Toxicology Program	Joel Pedersen	Ph.D. thesis committee
Serife Ayaz-Guner	Cellular & Molecular Biology	Wei Xu	Ph.D. thesis committee
Renhe Liu	Pharmaceutical Sciences	Weiping Tang	Prelim exam committee
Xiaoxun Li	Pharmaceutical Sciences	Weiping Tang	Prelim exam committee
Na Liu	Pharmaceutical Sciences	Weiping Tang	Prelim exam committee
Paige Jany	Cellular and Molecular Pathology	Albee Messing	Ph.D. thesis committee
Abha Rajbhandari	Neuroscience Training Program	Vaishali Bakshi	Ph.D. thesis committee
Tom Wyche	Pharmaceutical Sciences	Tim Bugni	Ph.D. thesis committee
Navid Adnani	Pharmaceutical Sciences	Tim Bugni	Ph.D. thesis committee
John Dopp	Graduate Program in Clinical Investigation (ICTR)	Lingjun Li	M.S. Thesis Committee (Chair)
Julia Schwartzman	Department of Medical Microbiology & Immunology	Edward Ruby	Prelim Exam Committee
Daniel Wolak	Pharmaceutical Sciences Division	Robert Throne	Ph.D. thesis committee
Katie Hurley	Pharmaceutical Sciences Division	Jon Thorson	Ph.D. Thesis Committee
Jennifer Grant	Molecular and Cellular Pharmacology	Arnold Ruoho	Ph.D. thesis defense

## SERVICE

### A. Professional Affiliations

- American Chemical Society
- American Chemical Society, Division of Analytical Chemistry
- American Society for Mass Spectrometry (ASMS)
- ASMS Education Committee (2010-current)
- Society for Neuroscience
- American Association of Colleges of Pharmacy
- New York Academy of Sciences
- American Association for the Advancement of Science

- Human Proteome Organization
- Board Member for the Chinese American Society for Mass Spectrometry (CASMS)

## **B. Grant Review and Meeting Organizational Activities**

- Permanent member on the NIH Enabling Bioanalytical and Imaging Technologies (EBIT) Study Section, July 2011-July 2015
- NHLBI (NIH National Heart, Lung and Blood Institute) “Proteomics Initiative” Special Emphasis Review Panel, 2002
- Reviewer, NIH P41 Biomedical Technology Research Center grant applications, 2012
- Reviewer, NIH COBRE (Center of Biomedical Research Excellence) grant application, 2012
- NSF Collaborative Research in Chemistry (CRC) Proposal Review Panel, 2004
- Ad hoc reviewer for NSF Chemistry Division, Analytical and Surface Chemistry Program, 2004, 2005, 2006, 2007
- Ad hoc reviewer for NSF CAREER program, 2005
- Ad hoc reviewer for NSF International Research Fellowship Program, 2005
- Ad hoc reviewer for NSF National High Magnetic Field Laboratory renewal proposal, 2006
- Ad hoc reviewer for NSF Chemistry Division, Chemical Measurement and Imaging Program, 2010
- Panelist, NSF Chemistry Division, Chemical Measurement and Imaging Program, 2011
- Department of Energy (DOE) Genome Science Program Review Panel, 2010
- NSF Review Panel on Disease Diagnostics and Prognostics for the Small Business Innovation Research (SBIR) program, 2007
- NSF Analytical and Surface Chemistry (ASC) CAREER Review Panel, 2008
- NSF Analytical and Surface Chemistry (ASC) CAREER program ad hoc reviewer, 2009
- NIH National Institute of Diabetes & Digestive & Kidney Diseases, SEP Review Panel, 2009, 2011
- NIH National Center for Research Resources Mass Spectrometry-related Shared Instrumentation Grant (S10) Program Review Panel, 2009
- Reviewer on NIH Study Section Enabling Bioanalytical/Biophysical Technologies (EBT), 2010
- NSF Major Research Instrumentation (MRI) Program, Ad hoc reviewer, 2009
- Ad hoc reviewer for the March of Dimes Foundation grant application, 2009
- Reviewer, Mass Spectrometry Capability at the DOE's Environmental Molecular Sciences Laboratory (EMSL) User Facility Peer Review Panel, 2010, 2011
- Review panel invitation from the NIH Neurotechnology Study Section, 2011 (turned down due to schedule conflict)
- Ad hoc reviewer for neuroproteomics center, North Carolina Biotechnology Center’s Institutional Development Grants Program, 2003
- Ad hoc reviewer for the Collaborative Funding Grant Program, North Carolina Biotechnology Center, 2005
- Ad hoc reviewer for the UW Graduate School Industrial & Economic Development Research (IEDR) program competition, 2006
- Ad hoc reviewer for the Netherlands Organization for Scientific Research (NWO) Council, 2008, 2009
- Ad hoc reviewer for the Research Foundation Flanders (FWO), 2011
- Ad hoc reviewer for the Institutional Hatch Grant Program, 2008
- External reviewer for the Vanderbilt University Intramural Discovery Grant Program (IDGP), 2009, 2010
- Stage I reviewer for NIH Challenge Grants, 2009
- Session Chair for Tissue Imaging and Miniaturization Mass Spectrometry for Lab of Automation 2010
- Session Chair for 24<sup>th</sup> International Symposium on Microscale Bioseparations, 2009
- American Society for Mass Spectrometry (ASMS) 2010 Program Review Committee
- American Society for Mass Spectrometry (ASMS) Education Committee, 2011
- Chinese American Society for Mass Spectrometry (CASMS) 3<sup>rd</sup> and 4<sup>th</sup> World Congress Abstract Review Committee, 2010, 2011
- The 2011 Wisconsin Human Proteomics Symposium Organizing Committee
- Organizing and chairing a symposium on peptidomics at PittCon 2012

**C. Journal Editorial and Review Activities**

- Features Advisory Panel for the journal *Analytical Chemistry* January 2012-December 2014
- Advisory Board Member, *The Analyst* (The Royal Society of Chemistry Journal), 2011
- Review Editor of *Frontiers in Invertebrate Physiology*, 2011
- Section Editor for Proteomics, *Frontiers in Biology*, 2011
- Editorial Board Member, *The International Journal of Clinical and Experimental Pathology* (2008)
- Associate Editor-in-chief, *International Journal of Biochemistry and Molecular Biology* (2008)
- Editor-in-chief, *International Journal of Pathophysiology and Pharmacology* (declined invitation)
- Reviewer, *Science*
- Reviewer, *Proceedings of the National Academy of Sciences*
- Reviewer, *Chemical Reviews* (ACS journal)
- Reviewer, *ACS Chemical Neuroscience*
- Reviewer, *Organic Letters* (ACS journal)
- Reviewer, *Analyst* (The Royal Society of Chemistry Journal)
- Reviewer, *Mass Spectrometry Reviews* (Wiley InterScience Journal)
- Reviewer, *Journal of Mass Spectrometry* (Wiley InterScience Journal)
- Reviewer, *Journal of the American Society for Mass Spectrometry*
- Reviewer, *Rapid Communications in Mass Spectrometry* (Wiley InterScience Journal)
- Reviewer, *International Journal of Mass Spectrometry*
- Reviewer, *International Journal of Molecular Sciences* (Open Access journal)
- Reviewer, *Journal of Neurochemistry*
- Reviewer, *Analytical Chemistry* (ACS journal)
- Reviewer, *Journal of Proteome Research* (ACS journal)
- Reviewer, *Proteomics* (Wiley InterScience Journal)
- Reviewer, *Expert Review of Proteomics*
- Reviewer, *Journal of Proteomics*
- Reviewer, *Briefings in Functional Genomics and Proteomics* (Oxford Journal)
- Reviewer, *Journal of Neuroscience*
- Reviewer, *Journal of Neuroscience Methods*
- Reviewer, *Brain Research* (Elsevier journal)
- Reviewer, *Journal of Neurophysiology*
- Reviewer, *Developmental Neurobiology*
- Reviewer, *Analytica Chimica Acta*
- Reviewer, *Lab On a Chip* (The Royal Society of Chemistry Journal)
- Reviewer, *Chemical Communications* (The Royal Society of Chemistry Journal)
- Reviewer, *Analytical Methods* (The Royal Society of Chemistry Journal)
- Reviewer, *Trends in Analytical Chemistry*
- Reviewer, *Trends in Biotechnology*
- Reviewer, *Peptides* (Elsevier journal)
- Reviewer, *General Comparative Endocrinology* (Elsevier journal)
- Reviewer, *Analytical Bioanalytical Chemistry*
- Reviewer, *Analytical Biochemistry*
- Reviewer, *Journal of Chromatography A*
- Reviewer, *Journal of Chromatography B*
- Reviewer, *Journal of Separation Science*
- Reviewer, *Journal of Lipid Research*
- Reviewer, *Journal of Neuroinflammation*
- Reviewer, *Biological Bulletin*
- Reviewer, *European Journal of Mass Spectrometry*
- Reviewer, *BioMed Central (BMC) Genomics*
- Reviewer, *AAPS Journal*
- Reviewer, *Journal of the Association for Laboratory Automation* (2010)
- Reviewer, *Journal of Toxicology and Environmental Health* (PrioNet Open Call)
- Reviewer, *Cellular and Molecular Life Sciences*

- Reviewer, European Neuropsychopharmacology
- Reviewer, Methods in Molecular Biology Series, Peptidomics Protocols Book Chapter
- Reviewer, Journal of Undergraduate Chemistry Research
- Reviewer, Expert Opinion on Drug Discovery
- Consultant, IonSpec Corporation 2005
- Reviewer, 2006 Pacific Symposium on Biocomputing research papers
- Reviewer, American Chemical Society Symposium Series Volume on Smart Coatings 2005

#### **D. University and School of Pharmacy Service Activities**

- Chair, School of Pharmacy Analytical Instrumentation Center (AIC) Staff Search Committee, 2012
- Serve on School of Pharmacy PharmD Admissions Committee (2011-2012)
- Served on School of Pharmacy Instrumentation Committee (2003-2007)
- Served on School of Pharmacy Analytical Instrumentation Center Advisory Board (2007-current)
- Co-Chair, School of Pharmacy Analytical Instrumentation Center Committee, 2010-present
- Served on the Steering Committee for the UW-Madison Chemistry-Biology Interface Training Program (2010-current)
- Served on the Admission Committee for the UW-Madison Clinical Neuroengineering Training Program, 2011
- Served on the Steering Committee for the Neuroscience Training Program, 2011-2014
- Served on School of Pharmacy Graduate Student Admission Committee (2003-present)
- Served on School of Pharmacy Student Promotion Committee (2007-current)
- Served on School of Pharmacy Faculty Activities Review Committee (2008-2009)
- Served on School of Pharmacy Executive Committee (2008-current)
- Seminar Chair and Coordinator, Pharmaceutical Sciences Seminar Series (2009-current)
- Served on School of Pharmacy Mass Spectrometry Facility Director Search Committee, 2005-2006
- Served on UW-Madison Department of Chemistry Junior Faculty (Prof. Joshua Coon) Tenure Committee, 2008-current
- Served on Prof. Orly Vardeny (SoP Pharmacy Practice Division)'s Mentoring and Tenure Promotion Committee, 2009
- Served on Prof. May Xiong (SoP Pharmaceutical Sciences Division)'s Mentoring and Tenure Promotion Committee, 2009
- Served on Prof. Tim Bugni (SoP Pharmaceutical Sciences Division)'s Mentoring and Tenure Promotion Committee, 2009
- Served on Prof. John Dopp (CHS Assistant Professor, SoP Pharmacy Practice Division)'s MS Thesis Research Committee, 2010
- Tenure package review for junior faculty at other institution, 2009
- School of Pharmacy Pharmaceutical Sciences Division Committee on Faculty Awards, Alumni Relations and Fundraising (2006-current)
- Invited speaker for UW-Madison Pharmaceutical Sciences Graduate Student Retreat, Academic career and lab management (2009)
- Participated as faculty representative for the Pharmaceutical Sciences Division in the School of Pharmacy Discovery Day to help recruit college students interested in professional (PharmD) and B.S. Pharmacology-Toxicology Programs (2007)
- Faculty Senate Alternative Representative, University of Wisconsin (2003-2006)
- Chair, Analytical Division Seminar Committee, 2004-2005
- Neuroscience Training Program, Neurobiology Undergraduate Research Award Committee, 2004
- Advisory committee for UW Medical School Proteomics Facility (2004-current)
- Advisory committee for the UW Biotechnology Center Mass Spectrometry Facility (2005-current)
- Organizing committee for the 2<sup>nd</sup> Annual Human Proteomics Symposium (2007)
- Session Chair for the Symposium on Cellular and Network Functions in the Spinal Cord 2007 (Madison, WI, June 2007)
- Faculty focus group on mass spectrometry for the Wisconsin Institutes for Discovery (2007)
- Served on UW Medical School Proteomics Center Mass Spectrometry Facility Operation Committee
- Reviewer, Graduate Women in Science Scholarship Applications, UW-Madison, 2006

- Served on Ad Hoc Nomination Committee for the Howard Hughes International Graduate Fellowship at the Neuroscience Training Program of UW-Madison (2010)
- Served on Awards Committee for the Neuroscience Training Program at UW-Madison (2011)