

## **Nathan G. Dodder, Ph.D.**

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### **Professional Experience**

- 2016 – Present      Research Scientist, San Diego State University Research Foundation (SDSURF), San Diego, CA
- 2016 – Present      Research Fellow, Graduate School of Public Health, San Diego State University (SDSU), San Diego, CA.
- 2010 – 2016          Senior Scientist, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA
- 2005 – 2010          Research Chemist, National Institute of Standards and Technology (NIST), Gaithersburg, MD
- 2003 – 2005          Postdoctoral Fellow, National Institute of Standards and Technology, Gaithersburg, MD
- 1998 – 2003          Graduate Research Assistant, Indiana University, Bloomington, IN

### **Academic Training**

- 1998 – 2003          Ph.D., Indiana University Bloomington. Major: Analytical Chemistry, Minor: Environmental Science. Research Advisor: Professor Ronald A. Hites.
- 1993 – 1997          B.A., Chemistry, Minnesota State University Moorhead

### **Research Expertise**

- Analytical method development for the quantification of contaminants, metabolites, and protein biomarkers by chromatography/mass spectrometry. Non-targeted mass spectrometry for the identification of unexpected environmental contaminants.
- Environmental survey design to assess the occurrence and fate of contaminants in abiotic and biotic matrices.
- Scientific software development, including tools for mass spectral interpretation and mass spectral libraries, automated quality control validation, and data analysis and visualization.

### **Peer Reviewed Publications**

1. Alonso, M. B.; Maruya, K. A.; Dodder, N. G.; Brito Jr., J. L.; Azevedo, A.; Santos-Neto, E.; Torres, J. P. M.; Malm, O.; Hoh, E. Non-targeted screening of halogenated organic compounds in bottlenose dolphins (*Tursiops Truncatus*) from Rio de Janeiro, Brazil. *Environ. Sci. Technol.*, **2017**, 51, 1176-1185.
2. Mackintosh, S. A.; Dodder, N. G.; Shaul, N. J.; Aluwihare, L. I.; Maruya, K. A.; Chivers, S. J.; Danil, K.; Weller, D. W.; Hoh, E. Newly identified DDT-related compounds accumulating in southern California bottlenose dolphins. *Environ. Sci. Technol.* **2016**, 50, 12129-12137.
3. Maruya, K. A.; Dodder, N. G.; Sengupta, A.; Smith, D. J.; Lyons, J. M.; Heil, A. T.; Drewes, J. E. Multi-media screening of contaminants of emerging concern (CECs) in coastal urban watersheds in Southern California (USA). *Environ. Toxicol. Chem.* **2016**, 35, 1986-1994.
4. Maruya, K. A.; Dodder, N. G.; Mehinto, A. C.; Denslow, N. D.; Schlenk, D.; Snyder, S. A.; Weisberg, S. B. A tiered, integrated biological and chemical monitoring framework for contaminants of emerging concern in aquatic ecosystems. *Integr. Environ. Assess. Manag.* **2016**, 12, 540-547.

5. Schiff, K.; Greenstein, D.; Dodder, N.; Gillett, D. J. Southern California Bight regional monitoring. *Regional Studies in Marine Science* **2016**, *4*, 34–46.
6. Millow, C. J.; Mackintosh, S. A.; Lewison, R. L.; Dodder, N. G.; Hoh, E. Identifying bioaccumulative halogenated organic compounds using a nontargeted analytical approach: seabirds as sentinels. *PLoS One* **2015**, *10* (5), e0127205.
7. Shaul, N. J.; Dodder, N. G.; Aluwihare, L. I.; Mackintosh, S. A.; Maruya, K. A.; Chivers, S. J.; Danil, K.; Weller, D. W.; Hoh, E. Nontargeted biomonitoring of halogenated organic compounds in two ecotypes of bottlenose dolphins (*Tursiops truncatus*) from the Southern California Bight. *Environ. Sci. Technol.* **2015**, *49* (3), 1328–1338.
8. Maruya, K. A.; Dodder, N. G.; Tang, C.-L.; Lao, W.; Tsukada, D. Which coastal and marine environmental contaminants are truly emerging? *Environ. Sci. Pollut. Res.* **2015**, *22* (3), 1644–1652.
9. Maruya, K. A.; Dodder, N. G.; Weisberg, S. B.; Gregorio, D.; Bishop, J. S.; Klosterhaus, S.; Alvarez, D. A.; Furlong, E. T.; Bricker, S.; Kimbrough, K. L.; et al. The Mussel Watch California pilot study on contaminants of emerging concern (CECs): Synthesis and next steps. *Mar. Pollut. Bull.* **2014**, *81* (2), 355–363.
10. Maruya, K. A.; Dodder, N. G.; Schaffner, R. A.; Weisberg, S. B.; Gregorio, D.; Klosterhaus, S.; Alvarez, D. A.; Furlong, E. T.; Kimbrough, K. L.; Lauenstein, G. G.; et al. Refocusing Mussel Watch on contaminants of emerging concern (CECs): The California pilot study (2009-10). *Mar. Pollut. Bull.* **2014**, *81* (2), 334–339.
11. Dodder, N. G.; Maruya, K. A.; Ferguson, P. L.; Grace, R.; Klosterhaus, S.; La Guardia, M. J.; Lauenstein, G. G.; Ramirez, J. Occurrence of contaminants of emerging concern in mussels (*Mytilus spp.*) along the California coast and the influence of land use, storm water discharge, and treated wastewater effluent. *Mar. Pollut. Bull.* **2014**, *81* (2), 340–346.
12. Alvarez, D. A.; Maruya, K. A.; Dodder, N. G.; Lao, W.; Furlong, E. T.; Smalling, K. L. Occurrence of contaminants of emerging concern along the California coast (2009-10) using passive sampling devices. *Mar. Pollut. Bull.* **2014**, *81* (2), 347–354.
13. Phinney, K. W.; Ballihaut, G.; Bedner, M.; Benford, B. S.; Camara, J. E.; Christopher, S. J.; Davis, W. C.; Dodder, N. G.; Eppe, G.; Lang, B. E.; et al. Development of a Standard Reference Material for metabolomics research. *Anal. Chem.* **2013**, *85* (24), 11732–11738.
14. Abbatiello, S. E.; Mani, D. R.; Schilling, B.; MacLean, B.; Zimmerman, L. J.; Feng, X.; Cusack, M. P.; Sedransk, N.; Hall, S. C.; Addona, T.; ...Dodder, N. G.; ...; et al. Design, implementation and multisite evaluation of a system suitability protocol for the quantitative assessment of instrument performance in liquid chromatography-multiple reaction monitoring-MS (LC-MRM-MS). *Mol. Cell. Proteomics* **2013**, *12* (9), 2623–2639.
15. Dodder, N. G.; Maruya, K. A.; Lauenstein, G. G.; Ramirez, J.; Ritter, K. J.; Schiff, K. C. Distribution and sources of polybrominated diphenyl ethers in the Southern California Bight. *Environ. Toxicol. Chem.* **2012**, *31* (10), 2239–2245.
16. Hoh, E.; Dodder, N. G.; Lehotay, S. J.; Pangallo, K. C.; Reddy, C. M.; Maruya, K. A. Nontargeted comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry method and software for inventorying persistent and bioaccumulative contaminants in marine environments. *Environ. Sci. Technol.* **2012**, *46* (15), 8001–8008.
17. Lowenthal, M. S.; Gasca-Aragon, H.; Schiel, J. E.; Dodder, N. G.; Bunk, D. M. A quantitative LC-MS/MS method for comparative analysis of capture-antibody affinity toward protein antigens. *J. Chromatogr. B* **2011**, *879* (26), 2726–2732.
18. Liao, W.-L.; Heo, G.-Y.; Dodder, N. G.; Reem, R. E.; Mast, N.; Huang, S.; DiPatre, P. L.; Turko, I. V.; Pikuleva, I. A. Quantification of cholesterol-metabolizing P450s CYP27A1 and CYP46A1 in neural tissues reveals a lack of enzyme-product correlations in human retina but not human brain. *J. Proteome Res.* **2011**, *10* (1), 241–248.

19. Liao, W.-L.; Heo, G.-Y.; Dodder, N. G.; Pikuleva, I. A.; Turko, I. V. Optimizing the conditions of a multiple reaction monitoring assay for membrane proteins: quantification of cytochrome P450 11A1 and adrenodoxin reductase in bovine adrenal cortex and retina. *Anal. Chem.* **2010**, *82* (13), 5760–5767.
20. Addona, T. A.; Abbatiello, S. E.; Schilling, B.; Skates, S. J.; Mani, D. R.; Bunk, D. M.; Spiegelman, C. H.; Zimmerman, L. J.; Ham, A.-J. L.; Keshishian, H.; ...Dodder, N. G.; ...; et al. Multi-site assessment of the precision and reproducibility of multiple reaction monitoring-based measurements of proteins in plasma. *Nat. Biotechnol.* **2009**, *27* (7), 633–U85.
21. Liao, W.-L.; Dodder, N. G.; Mast, N.; Pikuleva, I. A.; Turko, I. V. Steroid and protein ligand binding to cytochrome P450 46A1 as assessed by hydrogen-deuterium exchange and mass spectrometry. *Biochemistry* **2009**, *48* (19), 4150–4158.
22. Stapleton, H. M.; Dodder, N. G. Photodegradation of decabromodiphenyl ether in house dust by natural sunlight. *Environ. Toxicol. Chem.* **2008**, *27* (2), 306–312.
23. Dodder, N. G.; Tai, S. S.-C.; Sniegoski, L. T.; Zhang, N. F.; Welch, M. J. Certification of creatinine in a human serum reference material by GC-MS and LC-MS. *Clin. Chem.* **2007**, *53* (9), 1694–1699.
24. Dodder, N. G.; Peck, A. M.; Kucklick, J. R.; Sander, L. C. Analysis of hexabromocyclododecane diastereomers and enantiomers by liquid chromatography/tandem mass spectrometry: Chromatographic selectivity and ionization matrix effects. *J. Chromatogr. A* **2006**, *1135* (1), 36–42.
25. Stapleton, H. M.; Dodder, N. G.; Kucklick, J. R.; Reddy, C. M.; Schantz, M. M.; Becker, P. R.; Gulland, F.; Porter, B. J.; Wise, S. A. Determination of HBCD, PBDEs and MeO-BDEs in California sea lions (*Zalophus californianus*) stranded between 1993 and 2003. *Mar. Pollut. Bull.* **2006**, *52* (5), 522–531.
26. Stapleton, H. M.; Dodder, N. G.; Offenberg, J. H.; Schantz, M. M.; Wise, S. A. Polybrominated diphenyl ethers in house dust and clothes dryer lint. *Environ. Sci. Technol.* **2005**, *39* (4), 925–931.
27. Dodder, N. G.; Strandberg, B.; Augspurger, T.; Hites, R. A. Lipophilic organic compounds in lake sediment and American coot (*Fulica americana*) tissues, both affected and unaffected by avian vacuolar myelinopathy. *Sci. Total Environ.* **2003**, *311* (1-3), 81–89.
28. Mazdai, A.; Dodder, N. G.; Abernathy, M. P.; Hites, R. A.; Bigsby, R. M. Polybrominated diphenyl ethers in maternal and fetal blood samples. *Environ. Health Perspect.* **2003**, *111* (9), 1249–1252.
29. Dodder, N. G.; Strandberg, B.; Hites, R. A. Concentrations and spatial variations of polybrominated diphenyl ethers and several organochlorine compounds in fishes from the northeastern United States. *Environ. Sci. Technol.* **2002**, *36* (2), 146–151.
30. Strandberg, B.; Dodder, N. G.; Basu, I.; Hites, R. A. Concentrations and spatial variations of polybrominated diphenyl ethers and other organohalogen compounds in Great Lakes air. *Environ. Sci. Technol.* **2001**, *35* (6), 1078–1083.

### Scientific Software

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| 2010 – Present | Lead Developer: OrgMassSpecR software package for organic/biological mass spectrometry data analysis.<br><a href="http://OrgMassSpec.github.io/">http://OrgMassSpec.github.io/</a> |
| 2014           | Developer: Web Based RIVPACS Benthic Index Calculator Tool.<br><a href="http://data.sccwrp.org/sqo/index.php">http://data.sccwrp.org/sqo/index.php</a>                             |

### Participation in Inter-Laboratory Comparisons

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| 2013 – 2014 | Coordinated studies of contaminant quantification in marine sediments and tissues in support of the Bight '13 Regional Monitoring Program.                |
| 2009 – 2010 | Quantification of protein biomarkers by nano-LC/MRM/MS. Organized by the Clinical Proteomic Technology Assessment for Cancer (National Cancer Institute). |

- 2007 – 2009      Development of reference materials for an inter-laboratory comparison of peptide identification by mass spectrometry. Organized by the Clinical Proteomic Technology Assessment for Cancer (National Cancer Institute).
- 2002              Quantification of polybrominated diphenyl ethers in biological and sediment reference materials. Organized by the Netherlands Institute for Fisheries Research (*Chemosphere*, 2002, 46, 625-633.).

### Conference/Workshop Organization

- 2016      Session Co-Chair, Advanced Analytical Methods for Contaminant Discovery, SETAC North America Conference, Orlando, Florida
- 2015      Session Co-Chair, Advanced Analytical Methods for Contaminant Discovery, SETAC North America Conference, Salt Lake City, Utah
- 2014      Session Co-Chair, Advanced Analytical Methods for Contaminant Discovery, SETAC North America Conference, Vancouver, Canada
- 2012      Session Co-Chair, Helping Contaminants Emerge: Non-targeted and Effect-directed Environmental Analysis, SETAC North America Conference, Long Beach, CA
- 2005      Co-Organizer, Workshop on Brominated Flame Retardants in the Environment, National Institute of Standards and Technology, Gaithersburg, MD

### Technical Reports

1. Clatterbuck, C. A.; Lewison, R. A.; Dodder, N.; Zeeman, C.; Schiff, K. Southern California Bight 2013 Regional Monitoring Program: Volume V. Contaminant Bioaccumulation in Seabird Eggs of the Southern California Bight. SCCWRP Technical Report 944. September **2016**.
2. Dodder, N.; Schiff, K.; Latker, A.; Tang, C.-L. Southern California Bight 2013 Regional Monitoring Program: Volume IV. Sediment Chemistry. SCCWRP Technical Report 922. April **2016**.
3. Dodder, N.; Schiff, K. Areas of Special Biological Significance: Northern California Bioaccumulation Monitoring. Technical Report 857. SCCWRP Technical Report 857. January **2015**.
4. Dodder, N. G.; Mehinto, A. C.; Maruya, K. A. Monitoring of Constituents of Emerging Concern (CECs) in California's Aquatic Ecosystems – Pilot Study Design and QA/QC Guidance. Southern California Coastal Water Research Project. SCCWRP Technical Report 854. March **2015**.
5. Dodder, N.; Lao, W.; Tsukada, D.; Diehl, D.; Schiff, K. Areas of Special Biological Significance: Bioaccumulation Monitoring. SCCWRP Technical Report 816. February **2014**.
6. Schiff, K.; Gossett, R.; Ritter, K.; Tiefenthaler, L.; Dodder, N.; Lao, W.; Maruya, K. Southern California Bight 2008 Regional Monitoring Program: III. Sediment Chemistry. SCCWRP Technical Report 661. July **2011**.
7. Eppe, G.; Dodder, N. G. Identification of endogenous and exogenous metabolites in SRM 1950 using the NIST mass spectral library and retention indices. NIST Report of Analysis, **2010**.
8. Eppe, G.; Dodder, N. G. Identification of endogenous and exogenous metabolites in SRM 1950 using authentic compounds. NIST Report of Analysis, **2010**.
9. Eppe, G.; Lowenthal, M. S.; Dodder, N. G. Identification of amino acids (AA) in SRM 1950 using authentic compounds. NIST Report of Analysis, **2009**.
10. Dodder, N. G. Identification of collision-induced-dissociation fragment ions of cobalamin (Vitamin B12 SRM 3951). NIST Report of Analysis, **2009**.
11. Dodder, N. G. Characterization of Peptides for NCI CPTAC Study 7. NIST Report of Analysis, **2009**.

12. Dodder, N. G.; Liao, W.-L.; Camara, J. E.; Bunk, D. M.; Turko, I. V. Informatics to determine the percent incorporation of nitrogen-15 in isotopically labeled proteins. NIST Report of Analysis, **2009**.
13. Dodder, N. G.; Lowenthal, M. S.; Bunk, D. M. Determination of the Optimum Target Peptides and MS/MS Transitions for the Quantification of Cardiac Troponin. NIST Report of Analysis, **2008**.
14. Dodder, N. G.; Bunk, D. M. Characterization of Peptide Reference Materials for the CPTAC Initial Multiple Reaction Monitoring Inter-Laboratory Comparison (Study 4). NIST Report of Analysis, **2008**.
15. Dodder, N. G. Error Rate of Peptide De Novo Sequencing. NIST Report of Analysis, **2007**.
16. Dodder, N. G. Computer Program for the Automated Determination of Protein Sequence Coverage. NIST Report of Analysis, **2007**.
17. Dodder, N. G. Computer Programs for the Determination of Amino Acid Combinations of Similar Mass. NIST Report of Analysis, **2007**.
18. Dodder, N. G.; Bunk, D. M. Initial Determination of the Peptide Sequencing Capabilities of the MALDI TOF/TOF Mass Spectrometer. NIST Report of Analysis, **2007**.
19. Dodder, N. G. AWK Computer Program for the Calculation of Peptide Ion Fragments. NIST Report of Analysis, **2007**.
20. Dodder, N. G. AWK Computer Programs for the Analysis of Hydrogen/Deuterium Exchange Experiments. NIST Report of Analysis, **2007**.
21. Dodder, N. G.; Sniegowski, L. T.; Welch, M. J. SRM 967 Creatinine in Human Serum NKDEP Commutability Study: GC/MS Measurements. NIST Report of Analysis, **2006**.
22. Dodder, N. G.; Sniegowski, L. T.; Welch, M. J. Quantification of Creatinine in Standard Reference Material 967 by GC/MS. NIST Report of Analysis, **2006**.
23. Dodder, N. G. Separation of Hexabromocyclododecane Isomers by C18 and C30 Liquid Chromatography. NIST Report of Analysis, **2005**.
24. Dodder, N. G. Percent Composition of Three Hexabromocyclododecane (HBCD) Isomers in Atmospheric Samples from Five Locations in the United States. NIST Report of Analysis, **2005**.
25. Dodder, N. G.; Stapleton, H. M. Development of a Quantitation Method for Three Hexabromocyclododecane (HBCD) Isomers by C30 Liquid Chromatography and Tandem Mass Spectrometry. NIST Report of Analysis, **2005**.
26. Stapleton, H. M.; Dodder, N. G. Measurement of PBDEs, Methoxylated PBDEs and HBCD in Archived California Sea Lion (*Zalophus californianus*) Blubber. NIST Report of Analysis, **2005**.
27. Dodder, N. G. Analysis of Boswellic Acids by Liquid Chromatography Mass Spectrometry. NIST Report of Analysis, **2005**.

### **Presentations**

1. Non-targeted identification of contaminants in Southern California sentinel marine mammals. Society for Environmental Toxicology and Chemistry, Southern California Chapter Annual Meeting, Dana Point, CA. April 27, **2017**. (Invited Oral)
2. Non-targeted identification of contaminants in Southern California sentinel marine mammals. SETAC North America 37<sup>th</sup> Annual Meeting, Orlando, FL. November 10, **2016**. (Oral).
3. Methods and software for identification of contaminants in sentinel marine mammals. Nontarget2016, Ascona, Switzerland. June 2, **2016**. (Oral)

4. Non-Targeted Biomonitoring of Contaminants in Southern California Bottlenose Dolphins (*Tursiops truncatus*). Southern California Marine Mammal Workshop, Newport Beach, CA. February 19, **2016**. (Invited Oral)
5. Biomonitoring of organic contaminants in marine mammals by GCxGC/TOF-MS. SETAC North America 36th Annual Meeting, Salt Lake City, UT. November 4, **2015**. (Poster)
6. An integrated biological and chemical monitoring framework for contaminants of emerging concern in aquatic ecosystems. Industrial Environmental Association 31st Environmental Training Symposium and Conference, San Diego, CA. October 30, **2015**. (Invited Oral)
7. Comprehensive Detection of Contaminants by Non-Targeted Mass Spectrometry. SCCWRP Annual Symposium, Costa Mesa, CA. February 26, **2015**. (Oral)
8. The Southern California Coastal Water Research Project (SCCWRP). Scripps Center for Oceans and Human Health, La Jolla, CA. December 10, **2014**. (Invited Oral)
9. Monitoring of Constituents of Emerging Concern (CECs) in Aquatic Ecosystems – Pilot Study Requirements. California Surface Water Ambient Monitoring Program (SWAMP) Meeting, Riverside, CA. November 6, **2014**. (Invited Oral)
10. Southern California CEC Surveys, Monitoring Prioritization, and Advanced Measurement Technology. Southern California Environmental LC/MS/MS Discussion Group, Orange County Water District, Fountain Valley, CA. May 22, **2014**. (Oral)
11. Broader Impacts of SCOHH Non-Targeted Analysis and Natural Halogenated Product Research. Oceans and Human Health Grantee Conference, Scripps Institute of Oceanography, La Jolla, CA. March 27, **2014**. (Invited Oral)
12. Trend detection and enhanced cataloguing of bioaccumulative chemicals in southern California dolphins. Annual California Stranding Network Meeting, NOAA Southwest Fisheries Science Center, La Jolla, CA. February 7, **2014**. (Invited Oral)
13. Monitoring Strategies for Contaminants in Marine Ecosystems. Babcock Laboratories, Riverside, CA, February 5, **2014**. (Invited Oral)
14. Contaminants of Emerging Concern in Southern California. Society for Environmental Toxicology and Chemistry, Southern California Chapter Annual Meeting, San Pedro, CA, April 18, **2013**. (Invited Oral)
15. National Mussel Watch Monitoring of the California Coast in 2010. Korean-American Scientists and Engineers Association Regional Conference, Carlsbad, CA. February 16, **2013**. (Invited Oral)
16. Levels of Persistent Organic Pollutants in Blubber of Free-Ranging Bottlenose Dolphins (*Tursiops truncatus*) Off Southern California. Southern California Marine Mammal Workshop, Newport Beach, CA. February 1, **2013**. (Poster)
17. Pilot Monitoring of CECs in California via the Mussel Watch Program. SCCWRP Annual Symposium, Costa Mesa, CA. January 24, **2013**. (Oral)
18. Occurrence of CECs in Bivalve Tissues from the California Mussel Watch Pilot Study. Society for Environmental Toxicology and Chemistry National Meeting, Long Beach, CA. November 14, **2012**. (Oral)
19. Pilot Monitoring of CECs in California via the Mussel Watch Program. Society for Environmental Toxicology and Chemistry, Southern California Chapter Annual Meeting, Costa Mesa, CA, April 20, **2012**. (Oral)
20. A non-targeted GCxGC/TOF-MS method for inventorying persistent and bioaccumulative contaminants in marine environments. American Chemical Society Annual Meeting, San Diego, CA. March 28, **2012**. (Poster)
21. Pilot Monitoring of CECs in California via the Mussel Watch Program. SCCWRP Annual Symposium, Costa Mesa, CA. January 26, **2012**. (Oral)

22. Non-targeted Mass Spectrometry for Contaminant Identification. Orange County Sanitation District, Fountain Valley, CA. December 6, **2011**. (Invited Oral)
23. Untargeted Mass Spectrometry for Contaminants of Emerging Concern. San Francisco Estuary Institute, Oakland, CA. March 25, **2011**. (Invited Oral)
24. Identification of anthropogenic and naturally occurring organic compounds in California sea lion and Massachusetts dolphin blubber. Southern California Marine Mammal Workshop, Newport Beach, CA. January 21-22, **2011**. (Poster)
25. Untargeted Mass Spectrometry for Contaminants of Emerging Concern. SCCWRP Annual Symposium, Costa Mesa, CA. January 25, **2011**. (Oral)
26. Tracking Contaminants in the Southern California Coastal Waters. University of California Riverside, Department of Environmental Sciences, Riverside, CA. December 1, **2010**. (Invited Oral)
27. Identification of anthropogenic and naturally occurring organic compounds in California sea lion and Massachusetts dolphin blubber. Society for Environmental Toxicology and Chemistry National Meeting, Portland, OR. November 7-10, **2010**. (Poster)
28. Identification and Quantification of Metabolites in a Human Plasma Standard Reference Material by Multiple Mass Spectrometry Methods. American Society for Mass Spectrometry Conference, Philadelphia, PA, **2009**. (Oral)
29. Quantification of Creatinine in a Human Serum Standard Reference Material (SRM 967) by GC-MS and LC-MS. American Society for Mass Spectrometry Conference, Indianapolis, IN, **2007**. (Poster)
30. Protein biomarker analysis: measurement of the analytical variability due to tryptic digestion and MALDI-TOF-MS analysis. United States Human Proteome Organization Conference, Boston, MA, **2006**. (Poster)
31. The reproducibility of tryptic digests measured by MALDI-TOF-MS. American Chemical Society National Meeting, Washington, DC, **2005**. (Oral)
32. Improvements in the Analysis of Hexabromocyclododecane (HBCD) by LC/MS/MS. Workshop on Brominated Flame Retardants in the Environment, National Institute of Standards and Technology, Gaithersburg, MD, **2005**. (Poster)
33. Quantitation of Transferrin in Human Serum by MALDI-TOF-MS. American Society for Mass Spectrometry Conference, San Antonio, TX, **2005**. (Poster)
34. Analysis of Three Hexabromocyclododecane (HBCD) Isomers by C30 Liquid Chromatography and Tandem Mass Spectrometry. Sigma Xi Postdoctoral Presentation, National Institute of Standards and Technology, Gaithersburg, MD, **2005**. (Poster)
35. Studies on the Quantitation of Proteins Using Matrix Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF-MS). American Society for Mass Spectrometry Conference, Nashville, TN, **2004**. (Poster)
36. Brominated Flame Retardants: Current Sources, Fate and Transformation in the Environment. National Institute of Standards and Technology, Building and Fire Research Laboratory, Gaithersburg, MD, **2004**. (Oral presentation with Heather M. Stapleton.)
37. Quantitation of Intact Proteins by Matrix Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF-MS). Sigma Xi Postdoctoral Presentation, National Institute of Standards and Technology, Gaithersburg, MD, **2004**. (Poster)
38. Polybrominated Diphenyl Ethers in Air, Fish, and Human Maternal and Umbilical Cord Blood Samples. National Institute of Standards and Technology, Analytical Chemistry Division, Gaithersburg, MD, **2003**. (Oral)
39. Polybrominated Diphenyl Ethers in Air, Fish, and Human Maternal and Umbilical Cord Blood Samples. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, **2003**. (Oral)
40. Polybrominated Diphenyl Ether (PBDE) in Human Maternal and Umbilical Cord Blood Samples. Indiana Analytical Conference, McCormick's Creek State Park, IN, **2002**. (Oral)

41. Polybrominated Diphenyl Ethers (PBDE) in Air, Fish, and Human Maternal and Umbilical Cord Blood Samples. Midwest Environmental Chemistry Workshop, Chicago, IL, **2002**. (Oral, award winner.)
42. Concentrations and Spatial Variations of Polybrominated Diphenyl Ethers in Air, Fish, and Human Blood from the Northeastern United States. Annual Polybrominated Diphenyl Ether Workshop, Burlington, ON, **2001**. (Oral)
43. Polybrominated Diphenyl Ethers (PBDEs) in Fish from a Lake in the Vicinity of a Potential Point Source. Society for Environmental Toxicology and Chemistry Meeting, Nashville, TN, **2000**. (Oral)
44. Polybrominated Diphenyl Ethers (PBDEs) in Fish from a Lake in the Vicinity of a Potential Point Source. International Association for Great Lakes Research Meeting, Cornwall, ON, **2000**. (Oral)