

## CURRICULUM VITAE

Eunha Hoh, PhD, MSES

Environmental Health Division

Graduate School of Public Health

San Diego State University

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### I. PROFESSIONAL APPOINTMENTS

- 8/2017- Professor, Environmental Health Division, Graduate School of Public Health, San Diego State University, San Diego, CA
- 8/2012-8/2017 Associate Professor, Environmental Health Division, Graduate School of Public Health, San Diego State University, San Diego, CA
- 8/2014-8/2016 Division Head of Environmental Health, Graduate School of Public Health, San Diego State University, San Diego, CA
- 1/2009-8/2012 Assistant Professor, Environmental Health Division, Graduate School of Public Health, San Diego State University, San Diego, CA.
- 1/2006-12/2008 Postdoctoral Fellow/Research Chemist, United States Department of Agriculture, Agricultural Research Service (USDA ARS), Wyndmoor, PA.
- 1/2001-1/2006 Research Assistant, School of Public and Environmental Affairs, Indiana University, Bloomington, IN.
- 1/2001-5/2001 Teaching Assistant, School of Public and Environmental Affairs, Indiana University, Bloomington, IN.
- 2/1997-7/1999 Researcher, Samsung SDI, Suwon, Kyongki-Do, Republic of Korea.

### II. ADDITIONAL APPOINTMENTS

- 2013-present Advisory Board Member of *Environmental Science and Technology Letters*
- 10/2012-present Adjunct Faculty, Chemistry, Oregon State University,
- 3/2013-present Adjunct Faculty, Chemistry and Biochemistry, San Diego State University

### III. ACADEMIC TRAINING

- Ph.D. Environmental Science: Indiana University, School of Public and Environmental Affairs, Bloomington, IN, 2006  
Advisor: Distinguished Professor Ronald A. Hites.  
Title of Dissertation: Investigation of Organochlorine and Organobromine Contaminants in the Atmosphere
- MSES. Environmental Science: Indiana University, School of Public and Environmental Affairs, Bloomington, IN, 2003
- M.S. Chemistry: Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea, 1997  
Title of Thesis: Synthetic Studies on (-)-Allosamizoline
- B.S. Chemistry: Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea, 1995

## IV. PROFESSIONAL GROWTH

### A. Articles Published In Peer-Reviewed Journals

(\* indicates student and postdoc co-author)

1. Hong M.Y.; Hoh, E.; Kang, B.; Dehamer, R.; Kim, J.Y.; Lumibao, J. “Effects of Contaminated Fish Oil on Abberant Crypt Foci Formulation, Colonic Cell Kinetics and Gene Expression Involved in Inflammation and DNA Repair Enzyme”. *Journal of Nutrition* 2017, 147, 1524-1530. doi: 10.3945/jn.117.251082
2. Melstrom, P; Koszowski, B; Thanner, M.H.; Hoh, E.; King, B.; Bunnell, R. et al. “Measuring PM2.5, Ultrafine Particles, Air Nicotine and Wipe Samples Following the Use of Electronic Cigarettes” *Nicotine & Tobacco Research*. 2017; doi:10.1093/ntr/ntx058
3. Chibwe, L.\*; Davie-Martin, C.L.; Aitken, M.D.; Hoh, E.; Massey Simonich, S.L. “Identification of polar transformation products and high molecular weight polycyclic aromatic hydrocarbons (PAHs) in contaminated soil following bioremediation” *Science of the Total Environment* 2017, 599–600, 1099–1107. doi:10.1016/j.scitotenv.2017.04.190
4. Alonso, M.B.\*; Maruya, K.A.; Dodder, N.G.; Brito, J.L.; Azevedo, A.; Santos-Neto, E.; Torres, J.P.M.; Malm, O.; Hoh, E. “A Comprehensive Non-Targeted Screening of Halogenated Organic Compounds in Bottlenose Dolphins from Brazil”. *Environmental Science and Technology* 2017, 51, 1176–1185. doi:10.1021/acs.est.6b04186
5. Chibwe, L.\*; Titaley, I.A.; Hoh, E.; Simonich SLM. “Integrated Framework for Identifying Toxic Transformation Products in Complex Environmental Mixtures”. *Environmental Science and Technology Letters* 2017, 4, 32-43. doi: 10.1021/acs.estlett.6b00455
6. Neira, C.; Cossaboon, J.\*; Mendoza, G.; Hoh, E.; Levin, L.A. “Occurrence and distribution of polycyclic aromatic hydrocarbons in surface sediments of San Diego Bay marinas”, *Marine Pollution Bulletin* 2017, 114, 466-479. doi: 10.1016/j.marpolbul.2016.10.009
7. Mackintosh, S.A.\*; Dodder, N.G.; Shaul, N.J.; Aluwihare, L.I.; Maruya, K.A.; Chivers, S.J.; Danil K.D.; Weller, D.W.; Hoh, E. “Newly Identified DDT-Related Compounds Accumulating in Southern California Bottlenose Dolphins”, *Environmental Science and Technology* 2016, 50, 12129-12137. doi: 10.1021/acs.est.6b03150
8. Matt, G.E.; Quintana, P.J.; Zakarian, J.M.; Hoh, E.; Hovell, M.F.; Mahabee-Gittens, M.; Watanabe, K.; Datuin, K.; Vue, C.; Chatfield, D.A. “When smokers quit: exposure to nicotine and carcinogens persists from thirdhand smoke pollution” *Tobacco Control*. 2016 Sep 21. pii: tobaccocontrol-2016-053119. doi: 10.1136/tobaccocontrol-2016-053119.
9. Northrup, T.F.; Jacob, P 3<sup>rd</sup>.; Benowitz, N.L.; Hoh, E.; Quintana, P.J.E.; Hovell, M.F. et al. “Thirdhand Smoke: State of the Science and a Call for Policy Expansion” *Public Health Reports* 2016, 131, 233–238. doi: 10.1177/003335491613100206
10. Maldonado A, Lavado R, Knuston S, Slattery M, Ankisetty S, Goldstone JV, Hoh E, et al. Biochemical Mechanisms for Geographical Adaptations to Novel Toxin Exposures in Butterflyfish. *PLoS One*. 2016;11: e0154208. doi:10.1371/journal.pone.0154208
11. Northrup TF, Khan AM, Jacob P 3rd, Benowitz NL, Hoh E, Hovell MF, et al.

- Thirdhand smoke contamination in hospital settings: assessing exposure risk for vulnerable paediatric patients. *Tobacco Control* 2015; doi:10.1136/tobaccocontrol-2015-052506
12. Millow, C.J.\*; Mackintosh, S.A.\*; Lewsion, 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. doi:10.1371/journal.pone.0127205
  13. Hong, M.Y.; Lumibao, J.; Mistry, P.; Saleh, R.\*; Hoh, E. “Fish Oil Contaminated with Persistent Organic Pollutants Reduce Antioxidant Capacity and Induce Oxidative Stress without Affecting its Capacity to Lower Lipid Concentrations and Systemic Inflammation in Rats”, *Journal of Nutrition* 2015, *145*, 939-945. doi: 10.3945/jn.114.206607
  14. 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”, *Environmental Science and Technology* 2015, *49*, 1328-1338. doi: 10.1021/es505156q
  15. Rochman, C.M.\*; Hoh, E.; Kurobe, T.; Teh, S. “Plastic Ingested by Fish Transfers Contaminants and Induces Hepatic Stress”, *Scientific Reports* 2013, *3*, 3263. doi:10.1038/srep03263
  16. Matt, G.E.; Quintana, P.J.; Fortmann, A.L.; Zakarian, J.M.; Vanessa, G.; Chatfield, D.A.; Hoh, E.; Hovell, M.F. “Thirdhand smoke and exposure in California hotels: non-smoking rooms fail to protect non-smoking hotel guests from tobacco smoke exposure”, *Tobacco Control* 2014, *23*, 264–272. doi:10.1136/tobaccocontrol-2012-050824
  17. Rochman, C.M.\*; Manzano, C.\*; Hentschel, B.T.; Simonich, S.L.M.; Hoh, E. “Polystyrene Plastic: A Source and Sink for Polycyclic Aromatic Hydrocarbons in the Marine Environment” *Environmental Science and Technology* 2013, *47*, 13976-13984. doi:10.1021/es403605f
  18. Quintana, P.J.E.; Matt, G.E.; Chatfield, D.; Zakarian, J.M.; Fortmann, A.L.; Hoh, E. “Wipe Sampling for Nicotine as a Marker of Thirdhand Tobacco Smoke Contamination on Surfaces in Homes, Cars, and Hotels” *Nicotine & Tobacco Research* 2013; doi: 10.1093/ntr/ntt014
  19. Ngo, H.L.; Dunn, R.O.; Hoh, E. “C18-Unsaturated branched-chain fatty acid isomers: characterization and physical properties” *European Journal of Lipid Science and Technology* 2013, *115*, 676-683. doi:10.1002/ejlt.201200323
  20. Rochman, C.M.\*; Browne M.A.; Halpern, B.S.; Hentschel, B.T.; Hoh, E.; Karapanagioti, H.K.; Rios, L.M.; Takada, H.; The, S.; Thompson, R.C. “Closing the loop: Repackaging plastic debris as a hazardous substance” *Nature* 2013, *494*, 169-171. doi:10.1038/494169a
  21. Rochman, C.M.\*; Hoh, E.; Hentschel, B.T.; Kaye, S. “Long-term field measurement of sorption of organic contaminants to five types of plastic pellets: Implications for plastic marine debris” *Environmental Science and Technology* 2013, *47*, 1646-1654.
  22. Manzano, C.\*; Hoh, E.; Staci, M.S. “Quantification of Complex Polycyclic Aromatic Hydrocarbon Mixtures Using Novel Column Combinations in GC×GC/ToF-MS” *Journal of Chromatography A* 2013, *1307*, 172-179. doi: 10.1016/j.chroma.2013.07.093.
  23. Matt, G.E.; Fortmann, A.L.; Quintana, P.J.; Zakarian, J.M.; Romero, R.A.; Chatfield,

- D.A.; Hoh, E.; Hovell, M.F. "Toward Smoke-Free Rental Cars: An Evaluation of Voluntary Smoking Restrictions in California" *Tobacco Control* 2013, 22, 201-207. doi:10.1136/tobaccocontrol-2011-050231
24. Hoh, E.; Dodder, N. G.; Lehotay, S. J.; Pangallo, K. C.; Reddy, C. M.; Maruya, K. A. "A non-targeted GC×GC/TOF-MS method and software for inventorying persistent and bioaccumulative contaminants in marine environments" *Environmental Science and Technology* 2012, 46, 8001-8008.
  25. Manzano, C.\*; Hoh, E.; Staci, M.S. "Improved Separation of Complex Polycyclic Aromatic Hydrocarbon Mixtures Using Novel Column Combinations in GC×GC/TOF-MS" *Environmental Science and Technology* 2012, 46, 7677-7684.
  26. Hoh, E.; Hunt, R. N.\*; Quintana, P. J. E.; Zakarian, J. M.; Chatfield, D. A.; Wittry, B. C.; Rodriguez, E.; Matt, G. E. "Environmental Tobacco Smoke as a Source of Polycyclic Aromatic Hydrocarbons in Settled Household Dust" *Environmental Science and Technology* 2012, 46, 4174-4183.
  27. Van, A.\*; Rochman, C. M.\*; Flores, E. M.\*; Hill, K. L.\*; Vargas, E.\*; Vargas, S. A.\*; Hoh, E. "Persistent Organic Pollutants in Plastic Marine Debris Found on Beaches in San Diego, California" *Chemosphere* 2012, 86, 258-263.
  28. Ngo, H.L.; Hoh, E.; Foglia, T.A.; Lin, W. "Improved Synthesis and Characterization of Saturated Branched-Chain Fatty Acid" *European Journal of Lipid Science and Technology*. 2012, 114, 213-221
  29. Matt, G.E.; Quintana, P.J.E.; Zakarian, J.M.; Fortmann, A.L.; Chatfield, D.A.; Hoh, E.; Uribe, A.M.; Hovell, M.F. "When Smokers Move Out and Nonsmokers Move In: Residential Thirdhand Smoke Pollution and Exposure" *Tobacco Control*. 2011, 20, e1.
  30. Lehotay, S.J.; Son, K.A.; Kwon, H.; Koesukwiwat, U.; Fu, W.; Mastovska, K.; Hoh, E.; Leepipatpiboon, N. "Comparison of QuEChERS Sample Preparation Methods for the Analysis of Pesticide Residues in Fruits and Vegetables" *Journal of Chromatography A*. 2010, 1217, 2548-2560.
  31. Hoh, E.; Lehotay, S.J.; Pangallo, J.C.; Mastovska, K.; Ngo, H.L.; Reddy, C.M.; Vetter, W. "Simultaneous Quantitation of Multiple Classes of Organohalogen Compounds in Fish Oils with Direct Sample Introduction Comprehensive Two-Dimensional Gas Chromatography and Time-of-Flight Mass Spectrometry", *Journal of Agricultural and Food Chemistry*, 2009, 57, 2653-2660.
  32. Hoh, E.; Lehotay, S.J.; Mastovska, K.; Ngo, H.L.; Vetter, W.; Pangallo, J.C.; Reddy, C.M. "Capabilities of Direct Sample Introduction-Comprehensive Two-Dimensional Gas Chromatography-Time-of-Flight Mass Spectrometry to Analyze Organic Chemicals of Interest in Fish Oils" *Environmental Science and Technology*, 2009, 57, 2653-2660.
  33. Hoh, E.; Lehotay, S.J.; Mastovska, K.; Huwe, J.K. "Evaluation of automated direct sample introduction with comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry for the screening analysis of dioxins in fish oil" *Journal of Chromatography A*, 2008, 1201, 69-77.
  34. Hoh, E.; Mastovska, K. "Large Volume Injection Techniques in Capillary Gas Chromatography" *Journal of Chromatography A*, 2008, 1186, 2-15.
  35. Hoh, E.; Mastovska, K.; Lehotay, S.J. "Optimization of Separation and Detection Conditions for GC×GC-TOF analysis of Polychlorinated dibenzo-*p*-dioxins and dibenzofurans" *Journal of Chromatography A*, 2007, 1145, 210-221.
  36. Hoh, E.; Zhu, L.Y.; Hites, R.A. "Dechlorane Plus, a Chlorinated Flame Retardant, in

the Great Lakes" *Environmental Science and Technology*, 2006, 40, 1184-1189.

37. Hoh, E.; Hites, R.A. "Brominated Flame Retardants in the Atmosphere of the Eastern United States" *Environmental Science and Technology*, 2005, 39, 7794-7802.
38. Hoh, E.; Zhu, L.Y.; Hites, R.A. "Novel Flame Retardants, 1,2-Bis(2,4,6-tribromophenoxy)ethane and 2,3,4,5,6-Pentabromoethylbenzene, in United States' Environmental Samples" *Environmental Science and Technology*, 2005, 39, 2472-2477.
39. Hoh, E.; Hites, R.A. "Sources of Toxaphene and Other Organochlorine Pesticides in North America As Determined By Air Measurements and Potential Source Contribution Function Analysis" *Environmental Science and Technology*, 2004, 38, 4187-4194.

C. Presentations in Professional Conferences As 1<sup>st</sup> Author/Presenter (Refereed)

1. April 2017 – "Persistent Organic Pollutants in Breastmilk and Dietary History" at Children's Environmental Health Network, Arlington, Virginia
2. May 2016 – "An Analytical Framework for the Discovery of Bio-accumulative Organic Compounds" (Invited Keynote Speaker) at first International Non-Target Analysis Workshop, Ascona, Switzerland
3. August 2015 – "Non-targeted Biomonitoring of Halogenated Organic Compounds in Marine Species" at EPA Non-Targeted Analysis Workshop (Invited Keynote Speaker)
4. September 2014 – Oral "Halogenated Natural Products Identified in Two Ecotypes of Southern California Bottlenose Dolphins: a Nontargeted Analytical Approach and Profile Comparison" Presented at the 34<sup>th</sup> International Symposium on Halogenated Persistent Organic Pollutants, Madrid, Spain.
5. May 2013 – Oral "Simultaneous Analysis for Complex PAH Mixtures Using Novel Column Combinations in GC×GC/TOF-MS" Presented at the ISCC 10th GC×GC Symposium, Palm Spring, CA
6. November 2012 – Oral "Comparing Polycyclic Aromatic Hydrocarbon (PAH) Profiles in Polystyrene Foam Before and After Deployment in San Diego, CA" Presented at the SETAC North America 33<sup>rd</sup> Annual Meeting, Long Beach, CA
7. November 2012 – Oral "A Non-Targetd GC×GC/TOF-MS method, data analysis tools, and data reporting system for the advancement of environmental monitoring" Presented at the SETAC North America 33<sup>rd</sup> Annual Meeting, Long Beach, CA
8. June 2012 – Oral "Organic Chemicals Found in Settled Household Dust Collected in San Diego County by Non-targeted Analysis" Presented at the Teratology Society's 52<sup>nd</sup> Annual Meeting in Baltimore, Maryland
9. April 2012 – Oral "The Capabilities of GC×GC/ToF-MS and Its Application Towards Challenging Environmental Problems" Presented at Southern California Regional Chapter of the Society of Environmental Toxicology and Chemistry, Costa Mesa, CA
10. Nov 2010 – Oral. "Occurrence of Small Plastic Debris in San Diego Beaches and Their POP Content" Presented at 31<sup>st</sup> SETAC Annual Meeting at Portland, OR.
11. March 2010 – Poster. "Untargeted analysis of organic contaminants in dolphin blubber using DSI-GC×GC/TOF-MS" Presented at ACS Spring 2010 National Meeting & Exposition at San Francisco, CA
12. November 2009 – Poster. "Untargeted analysis of marine mammal exposure to multiple classes of man-made and naturally occurring halogenated organic chemicals" Presented at 30<sup>th</sup> SETAC Annual Meeting at New Orleans, LA.

13. November 2009 – Poster. “Analysis of untargeted organic contaminants in dietary fish oils using DSI-GC×GC/TOF-MS” Presented at 2009 Symposium on Food Systems & Public Health at San Diego, CA.
14. November 2008 – Oral. “Targeted/untargeted screening analysis of organic contaminants in cod liver oil using GC×GC/TOF-MS with direct sample introduction (DSI)” Presented at SETAC North America 29<sup>th</sup> Annual Meeting, Tampa, FL.
15. August 2007 – Oral. “Non-regulated Flame Retardants in Environment and their Sources” Presented at UKC2007, Reston, VA.
16. June 2007 – Poster. “Optimization of GC×GC-TOF MS with Automated Direct Sample Introduction for Dioxin Analysis” Presented at 55<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Indianapolis, IN.
17. November 2006 – Poster. “Optimization of GC×GC-TOF MS and DSI approach for Dioxin Analysis.” Presented at the Eastern Analytical Symposium & Exposition, Somerset, NJ.
18. October 2005 – Oral. “Dechlorane Plus in Great Lakes” Presented at the 28<sup>th</sup> Midwest Environmental Chemistry Workshop, Evanston, IL.
19. May 2005 – Oral. “Atmospheric Brominated Flame Retardants in Lake Michigan.” Presented at the 48<sup>th</sup> Annual Conference on Great Lakes Research (IAGLR) Meeting, Ann Arbor, MI.
20. November 2004 – Poster. “Behavior of Polybrominated Diphenyl Ethers in the Atmosphere of the U.S.” Presented at the 25<sup>th</sup> SETAC Annual Meeting, Portland, OR.

#### D. Invited Talks

1. November 2014 – “Growing Concern in Chemical Contaminants & Human Health” at San Diego WIC Program
2. October 2014 – “Chemical Contaminants & Human Health” at 2014 Clinical Research Workshop by US Navy Marine Mammal Program and National Marine Mammal Foundation.
3. March 2014 – “Diversity of Persistent Bioaccumulative Halogenated Organic Compounds in Southern California Bight” at Ocean and Human Health (OHH) Grantee Conference SIO Forum
4. January 2014 – “GC×GC/TOF-MS Nontargeted Analysis and Its Application Towards Challenging Environmental Problems”, Environmental Science and Environmental Toxicology Programs at University of California Riverside
5. December 2012 – “A non-targeted GC×GC/TOF-MS method, data analysis tools, and data reporting system for the advancement of environmental monitoring” Oregon State University
6. November 2012 – “GC×GC/TOF-MS Nontargeted Analysis and its Application Towards Challenging Environmental Problems” University of California at Davis
7. Oct 2011 – “Application of Non-Targeted Analysis in Chemical Food Safety” Presented at Wiley Award Symposium, 125<sup>th</sup> AOAC Annual Meeting & Exposition at New Orleans, LA.
8. Nov 2010 – “Occurrence of Small Plastic Debris in San Diego Beaches and Their POP Content and Toxicity Assessment” Presented at Second Research Workshop on Microplastic Debris, Tacoma, WA.
9. June 2010 – “Potential benefits of an untargeted analytical approach for

- environmental health studies” at Korean-American Women in Science and Engineering 4<sup>th</sup> West Coast Symposium at U.S. FDA, Irvine, CA.
10. March 2010 – “Untargeted analysis of organic chemicals of interest in environmental samples using GC×GC-TOF mass spectrometry” at Environmental Chemistry Laboratory, California Department of Toxic Substance Control, Berkeley, CA.
  11. March 2010 – “Potential benefits of an untargeted analytical approach for environmental health studies” at California Department of Public Health, Richmond, CA.
  12. December 2007 – “Flame retardants in environment and their sources” at Korea Advanced Institute of Science and Technology”, Daejeon, Korea.
  13. December 2007 – “Flame retardants in environment and their sources” at Pohang University of Science and Technology, Pohang, Korea.
  14. February 2007 – Poster. “Optimization of GC×GC-TOF MS and DSI approach for Dioxin Analysis.” Presented at ARS-FSIS Food Safety Research Planning Meeting, National Conservation Training Center, Shepherdstown, WV
  15. March 2005 – Oral. “Brominated Flame Retardants in the Atmosphere of the U.S.” Presented at the Environmental Science and Policy Seminar Series, Indiana University

E. Funded Research Grants (chronological order)

1. Project Title: Smoking Policies and Secondhand Smoke in Rental Cars  
 Source of Support: TRDRP  
 Award Amount: \$609,853  
 Period Covered: 07/01/06-06/30/09  
 Location: San Diego State University  
 Role: Co-I
2. Project Title: Fast and Cost Effective Analytical Method Development: Untargeted Analytical Method for Simultaneous Analysis of Multiple Classes of Toxic Organic Chemicals in Breast Milk and Dust (LOI3-RT-01-G)  
 Source of Support: NIH, National Children Study  
 Award Amount: \$108,430  
 Period Covered: 09/28/2010 – 09/27/2011  
 Location: San Diego State University  
 Role: PI
3. Project Title: Untargeted analysis using GC×GC/TOF-MS for a thorough investigation of persistent and bioaccumulative chemicals in Pacific marine species  
 Source of Support: California State University Program for Education and Research in Biotechnology (CSUPERB)  
 Award Amount: \$15,000  
 Period Covered: 06/01/11-12/31/12  
 Location: San Diego State University  
 Role: PI
4. Project Title: Thirdhand Smoke Pollution and Exposure in Ex-Smokers’ Homes  
 Source of Support: Tobacco Related Disease Research Program (TRDRP)  
 Award Amount: \$770,378

- Period Covered: 07/01/10-6/30/13  
Location: San Diego State University  
Role: Co-I
5. Project Title: Untargeted Analytical Approach for Screening Mixtures of Toxic Chemicals in House Dust  
Source of Support: SDSU UGP  
Award Amount: \$9,957  
Period Covered: 01/15/10-6/30/11  
Location: San Diego State University  
Role: PI
  6. Project Title: Identification of Anthropogenic and Naturally Occurring Organic Compounds in California Sea Turtles and Dolphins  
Source of Support: SDSU UGP  
Award Amount: \$9,994  
Period Covered: 01/15/11-6/30/12  
Location: San Diego State University  
Role: PI
  7. Project Title: A High-Throughput Method Development Using Dispersive SPE for Screening Mixture of Toxicants in Breast Milk  
Source of Support: SDSU UGP  
Award Amount: \$8,813  
Period Covered: 01/15/12-6/30/13  
Location: San Diego State University  
Role: PI
  8. Project Title: Certifying Smoke-Free Used Cars: Effects on Value and Consumer Behavior (TRDRP)  
Source of Support: Tobacco Related Disease Research Program (TRDRP)  
Award Amount: \$687,545  
Period Covered: 08/01/12-07/31/15  
Location: San Diego State University  
Role: Co-I
  9. Proposal Title: Desert Tortoise Contaminant Testing and Analysis  
Source of Support: Ironwood Consulting, Inc.  
Award Amount: \$ 25,000  
Period Covered: 10/01/2012 – 06/30/2014  
Location: San Diego State University  
Role: PI
  10. Proposal Title: Subaward from the SIO center grant “Scripps Center for Oceans and Human Health advancing the biology and chemistry of marine contaminants of emerging concern”.  
Source of Support: NIH NIEHS/NSF  
Award Amount: \$ 844,564  
Period Covered: 09/01/2012 – 07/31/2017  
Location: San Diego State University  
Role: PI (Project leader of Project 3 in the center grant)
  11. Proposal Title: Subcontract from the UCSD center grant “Superfund – Detection and Models of Toxicant Exposure  
Source of Support: NIH/NIEHS



Award Amount: \$12,000  
Period Covered: 10/1/2012-3/31/2013  
Role: PI

12. Proposal Title: Subaward from the OSU center grant “PAHs: New Technologies and Emerging Health Risks”.  
Source of Support: NIH/NIEHS  
Award Amount: \$ 45,702  
Period Covered: 02/01/2013 – 01/31/2017  
Location: San Diego State University  
Role: PI
13. Proposal Title: Toward Smoke-Free Casinos: The Win-River Experience  
Source of Support: Tobacco Related Disease Research Program (TRDRP)  
Award Amount: \$ 180,074  
Period Covered: 08/01/2013 – 07/31/2015  
Location: San Diego State University  
Role: Co-I
14. Proposal Title: Evaluation of Halogenated Organic Compounds in Treated Wastewater by Nontargeted Analysis.  
Source of Support: Orange County Water District (OCWD)  
Award Amount: \$ 9,990  
Period Covered: 09/01/2013 – 06/30/2014  
Location: San Diego State University  
Role: PI
15. Proposal Title: Thirdhand Smoke Analysis in Dust Collected in Smokers’ Homes in Minnesota.  
Source of Support: University of Minnesota  
Award Amount: \$ 13,200  
Period Covered: 08/31/2013 – 09/30/2014  
Location: San Diego State University  
Role: PI
16. Project Title: PAH Analysis in San Diego Bay Sediment  
Source of Support: UCSD  
Award Amount: \$20,000  
Period Covered: 05/01/14-06/30/15  
Location: San Diego State University  
Role: PI
17. Project Title: A Novel Approach to in situ Marine Contaminant Assessment: Linking Exposure to Effects  
Source of Support: CSU COAST  
Award Amount: \$15,000  
Period Covered: 06/15/14-06/30/15  
Location: San Diego State University  
Role: Co-PI
18. Project Title: Subaward from Southern California Coastal Water Research Project “Enhanced Cataloguing of Bioaccumulative Chemicals in Stranded Marine Mammals to Assess Health Impacts”

Source of Support: NOAA  
Award Amount: \$30,000  
Period Covered: 08/01/14-07/31/16  
Location: San Diego State University  
Role: PI

19. Proposal Title: Identification of Persistent Organic Compounds in Treated Wastewater by a Non-Targeted Chemical Analysis  
Source of Support: Orange County Water District (OCWD)  
Award Amount: \$ 9,990  
Period Covered: 09/01/2014 – 06/30/2015  
Location: San Diego State University  
Role: PI
20. Proposal Title: Assessing Toxicity of Tobacco Product Waste to Humans  
Source of Support: Tobacco Related Disease Research Program (TRDRP)  
Award Amount: \$ 520,278  
Period Covered: 12/01/2014 – 11/30/2017  
Location: San Diego State University  
Role: PI
21. Proposal Title: Persistent Thirdhand Smoke Toxicants in Indoor Environments: Subsidiary-CA Collaborative Consortium on Thirdhand Smoke Exposure & Health Effects  
Source of Support: Tobacco Related Disease Research Program (TRDRP)  
Award Amount: \$ 240,203  
Period Covered: 12/01/2014 – 11/30/2017  
Location: San Diego State University  
Role: Co-I
22. Proposal Title: Nicotine Analysis: Wipes/Air Samples  
Source of Support: US Department of Health and Human Services  
Award Amount: \$ 19,410  
Period Covered: 5/21/2015 – 5/20/2016  
Location: San Diego State University  
Role: PI
23. Proposal Title: NO-POPs Trial: A Pilot Investigation  
Source of Support: Harvard University  
Award Amount: \$ 54,000  
Period Covered: 03/01/2015 – 02/28/2017  
Location: San Diego State University  
Role: PI
24. Proposal Title: Thirdhand Smoke Low Income Housing  
Source of Support: US Department of Housing and Urban Development  
Award Amount: \$ 699,866  
Period Covered: 11/16/2015 – 11/15/2018  
Location: San Diego State University  
Role: Co-PI
25. Proposal Title: Silicone Wristbands as Personal Samplers for Exposure to Tobacco Toxicants  
Source of Support: Tobacco Related Disease Research Program (TRDRP)  
Award Amount: \$ 360,608

- Period Covered: 07/01/2016 – 06/30/2018  
Location: San Diego State University  
Role: Co-PI
26. Project Title: PCB Analysis in San Diego Bay Sediment  
Source of Support: UCSD  
Award Amount: \$16,000  
Period Covered: 10/01/15-09/30/16  
Location: San Diego State University  
Role: PI
27. Project Title: Reduce Secondhand Smoke NICU Homes  
Source of Support: University of Texas Medical Branch  
Award Amount: \$50,342  
Period Covered: 11/01/15-02/28/18  
Location: San Diego State University  
Role: PI
28. Project Title: Screening and Non-Targeted Analysis  
Source of Support: Environmental Protection Agency  
Award Amount: \$19,268  
Period Covered: 06/20/16-06/19/17  
Location: San Diego State University  
Role: PI
29. Project Title: Subaward from UCSD, “Pesticides and Mental Health among Adolescents in Ecuadorian Agricultural Communities”  
Award Amount: \$50,824  
Period Covered: 09/01/15 – 8/31/17  
Location: San Diego State University  
Role: PI
30. Project Title: Identification of unknown chemicals in southern California inland waters by non-targeted chemical analysis  
Source of Support: Southern California Coastal Water Research Project (SCCWRP)  
Award Amount: \$60,000  
Period Covered: 09/01/16-09/30/17  
Location: San Diego State University  
Role: PI
31. Project Title: Assessing Toxicity of Waterpipe Tobacco Smoking in Laboratory and Naturalistic Settings  
Source of Support: NIH/NIDA  
Award Amount: \$1,350,000  
Period Covered: 07/01/16-06/30/19  
Location: San Diego State University  
Role: Co-I
32. Proposal Title: Non-Targeted Chemical Analysis for Identification of Persistent Organic Compounds in Treated Wastewater  
Source of Support: Orange County Water District (OCWD)  
Award Amount: \$ 9,990  
Period Covered: 11/02/2015 – 06/30/2016  
Location: San Diego State University

Role: PI

33. Proposal Title: Confirmation and Further Analysis of Non-Targeted Trace Organics Recovered from ROP and UVP Source Waters of the AWPf.

Source of Support: Orange County Water District (OCWD)

Award Amount: \$ 19,990

Period Covered: 10/01/16 – 6/30/17

Location: San Diego State University

Role: PI

34. Proposal Title: Effects of Thirdhand Smoke Exposure on the Microbiome of Young Children

Source of Support: TRDRP

Award Amount: \$ 361,161

Period Covered: 07/01/17 – 06/30/19

Location: San Diego State University

Role: Co-I

35. Proposal Title: WERF: Enhanced evaluation of the removal of contaminants of emerging concern in decentralized water reuse systems by non-targeted analysis

Source of Support: NSF

Award Amount: \$ 329,569

Period Covered: 08/01/17 – 07/31/20

Location: San Diego State University

Role: Co-PI

F. Unpublished Work

Synthesis of sorbent for cleanup of chlorophyll (selectively retention of chlorophyll) from plant samples, which is marketed as “QuEChERS ChloroFiltr” by UCT. Inc.

H. Participation in Professional Associations

American Chemical Society

American Society of Mass Spectrometry

International Society of Exposure Science

The Society of Environmental Toxicology and Chemistry

Korean-American Scientists and Engineers Association

Korean-American Women in Science and Engineering

**V. TEACHING EFFECTIVENESS**

A. Curriculum Development and Teaching Innovations

PH700: Research Methods

PH451: Public Health and Food Safety

PH634: Environmental Protection

PH499: Undergraduate Research/Special Study

PH784: Global Environmental Health

PH604: Environmental determinants of Human Health

PH296: Public Health Research

B. Teaching Awards

100 Inspiring Women in STEM Awards in 2015 by *Insight Into Diversity*

## 2017 Outstanding Faculty Award

## C. Thesis Supervision

Chair, Thesis Chaired (Complete)

1. *Rhonda Saleh* (2017): Risk Assessment of Persistent Organic Pollutants via Fish Oil Consumption
2. *Melissa Vales* (2017): Distribution of Polychlorinated Biphenyls in San Diego Marinas
3. *Allison McMullen* (2017: Plan B: Manuscript in Nutrition): Critical Review of Assessment of Benefits and Concerns of Dietary Fish Oil
4. *Claire O'Brien* (2016: Plan B: Manuscript): Relationship Between PBDEs and Methoxy-PBDEs in Human Breastmilk and Seafood Consumption
5. *Chelsea Basirico* (2016: Plan B: Manuscript): Relationship Between PCBs in Human Breastmilk and Seafood Consumption
6. *Jennifer Cossaboon* (2016): Enhanced Cataloguing of Halogenated organic Compounds in Marine Mammals of the Southern California Bight Using a Non-targeted Analytical Method (Under my supervision, but Dr. Gersberg chaired because of sabbatical)
7. *Raisa Luna* (2016): Non-Targeted Chemical Analysis for the Identification of Persistent Organic Compounds in Treated Wastewater
8. *Amanda Gee* (2015): Nicotine and Tobacco Specific Nitrosamines in House Dust Collected in Minnesota
9. *Cuong Tran* (2014): Plan B Manuscript Option, Comprehensive Analysis of Organic Contaminants in Human Breast Milk
10. *Nicolas Lopez-Galvez* (2014): Soil Analysis of Organic and Inorganic Contaminants in Goat Canyon at the US-Mexico Border
11. *Chester Huang* (2013): Screening Organic Contaminants in Desert Tortoise from the Mojave
12. *Anju Melkani* (2012): Assessment of the Potential Health Hazardous Chemicals in Household Dust
13. *Tina Davis* (2012): Polycyclic Aromatic Hydrocarbons Profiles in Polystyrene Foams in San Diego Bay
14. *Yang Jiao* (2012): Elemental Analysis in House Dust Using Handheld X-Ray Fluorescence
15. *Veronika Shevchenko* (2011): Characterization of Chemical Compounds in Cigarette Filter Leachates
16. *Almira Van* (2010): Persistent Organic Pollutant Content of Marine Debris Found on San Diego Beaches
17. *Beth Wittry* (2010): Evaluation of Thirdhand Smoke Exposure to Polycyclic Aromatic Hydrocarbons through Indoor Contamination of Settled House Dust
18. *Richard Hunt* (2009): Investigation of Polycyclic Aromatic Hydrocarbon Content in Settled House Dust of Homes Exposed to Environmental Tobacco Smoke

Dissertation Committee (Co-Advising Complete)

1. *Leah Chibwe*, Ph.D. Chemistry, Oregon State University (2016): Use of Targeted and Non-Targeted Analysis to Study Complex PAH Environmental Mixtures

2. *Chelsea Rochman*, Ph.D. Ecology SDSU/UC Davis joint doctoral program (2013): Plastics and Priority Pollutants: A Multiple Stressor in Aquatic Habitats
3. *Carlos Manzano*, Ph.D. Chemistry, Oregon State University (2012): The Identification and Quantitation of Complex Polycyclic Aromatic Hydrocarbon Mixtures in Environmental Samples Using Comprehensive Two-Dimensional Gas Chromatography with Time-of-flight Mass Spectrometry

Supervision of Postdoctoral Researchers

1. Susan Mackintosh, Ph.D. (May 2013 – July 2015)
2. Mariana Alonso, Ph.D. (April 2014 – March 2016)

Thesis Supervision in Process (Chair)

1. *William Richardot*: Bioaccumulation of Tobacco Product Waste Feeding Experiment
2. *Ryan Alexander*: Identification of Unknown Chemicals in Southern California Inland Waters by Non-Targeted Chemical Analysis
3. *Jenna Krischling*: Non-Targeted Analysis for Discovery of Chemicals of Emerging Concerns in Treated Water for Drinking and Source Investigation
4. *Lenard Yabes*: Bioaccumulation Test of Tobacco Product Waste in Freshwater Fish
5. *Hung-Hsu Wei*: Identification of Toxic Chemicals in Leachate of Cigarette Butts
6. *Cher Vue*: Assessment of Tobacco Specific Nitrosamines in House Dust Collected in Smoker's Houses
7. *Jayson Arceo*: Organic Pillows as an Indicator of Residential Thirdhand Smoke Pollution
8. *Kathy Dautin*: Fate of Thirdhand Smoke in Ex-Smokers' Homes

Dissertation Committee (Co-Advising In Process)

1. Corey Clatterbuck, Ph.D. Candidate, Ecology SDSU/UC Davis joint doctoral program: Biomonitoring of Legacy and Emerging Toxicants in North Pacific Waters.
2. Marisa Trego, Ph.D. Candidate, Ecology SDSU/UC Davis joint doctoral program: A Novel Approach to Contaminant-Related Health Assessment in Free-ranging Cetaceans
3. Nellie Shaul, Ph.D. Candidate, UC San Diego-Scripps Institution of Oceanography: Halogenated Natural Products of Environmental Relevance in the Marine Environment

Membership on Thesis Committee (2<sup>nd</sup> or 3<sup>rd</sup> member)

1. *Evan Lemons* (2017): Sediment Accretion Rates and Metal Contamination of the Kendall-Frost March Reserve in Mission Bay, CA.
2. *Jake Munson-Decker* (2016): Toxicity of Copper and Zinc under Pulse Exposure Regimes to Purple Sea Urchins, *Strongylocentrotus Purpuratus*, and Mysid Shrimp, *Americamysis Bahía*.
3. *Giang Tran* (2016): Method Development for Analysis of Creatinine in Whole Urine Samples by Liquid Chromatography Tandem Mass Spectrometry
4. *Ebony Miller* (2016): The Effect of the El Niño Southern Oscillation on Levels of Fecal Indicator Bacteria at the Imperial Beach, CA Shoreline
5. *Renita Salas* (2016): Predictors of Food Facility Violations During Routine Inspections in San Diego County During 2013-2014

6. *Lyubov Razhavskly* (2016): The Association Between Season and Critical Food Safety Violations in San Diego County Retail Food Facilities
7. *Adrian Olivares* (2016): Accuracy of Three Screening-Level Vapor Intrusion Models for Indoor Air Comparison of Predicted Volatile Organic Compound (VOC) Concentrations with Measured Levels
8. *Teaba Theweny* (2015): Measurement of Thirdhand Smoke in a Casina: Surface Nicotine Wipes Pre and Post Smoking Ban
9. *Chris Millow* (2015): Contaminants and Reproductive Output in a Sentinel Seabird, The Black Skimmer (*Rynchopsniger*)
10. *Chelsea Oakes* (2014): Polycyclic Aromatic Hydrocarbon Concentrations in Rental Car Dust Samples as a Measure of Thirdhand Smoke
11. *Taylor Correll* (2014): Analysis of Complex Polycyclic Hydrocarbon Mixtures Found in Particulate Matter Air Samples from the San Diego-Tijuana Border Region Using GCxGC/TOF-MS
12. *Mike Checkai* (2014): Risk Assessment of Isoflurane Exposure
13. *Ryan Gray* (2014): *Insincerus*
14. *Haoli Wu* (2014): Sensitive Detection of Dioxin and Malachite Green by Degenerate Four-Wave Mixing Coupled with Electrolytic Cell and Capillary Electrophoresis
15. *Begoña Díaz Lopez* (2014): Evaluation of Halogenated Organic Compounds in Treated Wastewater by Non-targeted Analysis (Universidad de A Coruña ETS de Ingenieros de Caminos, Canales y Puertos)
16. *Bernado Rivera* (2013): An Assessment of Mobile Food Operators Food Handler Knowledge
17. *Nina Bahman* (2013): Bioassessment of The San Diego Hydrologic Region
18. *Sara Romero* (2013): Effect of Methyl-Tert-Butyl Ether (MTBE) on Aromatase Gene Expression in Female Sprague-Dawley Rats
19. *William Elyea* (2013): Effects of MTBE on Serum and Intratesticular Testosterone Levels in Male Sprague-Dawley Rats Following Fourteen Day Oral Exposure
20. *Roshan Ashoor* (2013): Pertubation of Autophagy by Lysosomotropic Drugs
21. *Rolla Yafawi* (2012): Perturbation of Autophagy by Basic Lipophilic Compounds: Correlation of LC3 and p62 Abundance Employing U2OS-GFP Cells.
22. *Tiffany Bucher* (2012): Removal of Dissolved Metals by The Imperial And Brawley Constructed Wetlands, Imperial Valley, CA
23. *Marbie Guillergan* (2012): Sansalvamide A and Heat Shock Protein 90 Binding and Biochemical Studies
24. *Grace Farinas* (2012): Analysis of Pyrethroid Pesticides in Sediments from San Diego County Streams Using Liquid Chromatography-Triple Quadrupole Mass Spectrometry
25. *Jose Velascosoltero* (2012): The Effects of Climate Variability in The Abundance of West Nile Virus Vectors in San Diego County
26. *Melissa Ta* (2012): Factors Affecting Regionwide Water Quality in San Diego County Watersheds
27. *Jacqueline Devera* (2012): Chemical Characterization of PM<sub>2.5</sub> Air Pollution in Dhaka and Noakhali, Bangladesh
28. *Jacqueline Devera* (2012): Chemical Characterization of PM<sub>2.5</sub> Air Pollution in Dhaka and Noakhali, Bangladesh

29. *Alethea Ramos* (2012): Risk Assessment of Methylmercury from Fish Consumption in Oahu, Hawaii Using Hair as a Biomarker of Exposure
30. *Sarah Meyer* (2012): Toxic Effects of Selected marine phytoplankton on purple urchin fertilization and larval development
31. *Mira Ko* (2011): Assessment of Potential Biomarkers For Detecting Immune-Mediated Drug-Induced Liver Injury in The Modified Lymphocyte Transformation Test
32. *Edgar Rodriguez* (2011): Roadside Air Pollution Measurements and Traffic Volume in a US-Mexico Border City: Tijuana, B.C
33. *Marcela Braga* (2010): The Role of Biological Volatilization in Selenium Removal by The Imperial Constructed Wetlands, Imperial, CA
34. *Craig Cameon* (2011): Hand-held Oxidation-Reduction Potential Meter for Use as an Indicator of Swimming Pool Water Quality
35. *Matthew James Nemeo* (2011): Effect of MTBE on CYP19 (Aromatase) Activity and Total P450 in Male Sprague-Dawley Rats Following Fourteen Day Gavage Exposure
36. *Ke Gong* (2011): Synthesis, Optical Properties, and Surface Modification of Magic-Size Semiconductor Nanocrystals, Nanowires and Nanoplatelets
37. *Rory James Klinger* (2011): Investigation of Resistance Development from Residual Contamination of Ciprofloxacin
38. *Koyuki Takenaka* (2010): Method Development for Analysis of Testosterone/Epitestosterone in Human Samples Using Liquid Chromatography Tandem Mass Spectrometry
39. *Renato F. Borrás Chavez* (2010): Ecological and Chemical Responses of Macroalgae (Phaeophyceae) Under Primitive Harvesting Methods. The Pursuit of Sustainable Harvesting in Northern Chile

#### Membership on Dissertation Committee

1. Jenny Van, Ph.D. Chemistry, San Diego State University (2015): Part 1: Method Development for the Analysis of Polyamines by Derivatives with Benzoyl Chloride by HPLC Tandem Mass Spectrometry; and Part 2: Detection of Volatile Organic Compound Tracers in Human Breath

#### Students Awards Under My Supervision

1. Jennifer Cossaboon: Hanlon award in Graduation 2017 (Outstanding MPH student in Public Health, SDSU, 2017)
2. Jenna Krichling: NWRI Graduate Fellowship in 2016
3. Chelsea Basirico: Outstanding Student Award of Environmental Health Division, 2016
4. Claire O'Brien: Outstanding Student Award of Environmental Health Division, 2015
5. Jennifer Cossaboon: CSU COAST Graduate Research Award in 2016/SOCAL SETAC Graduate Research Award in 2016/EPA STAR Fellowship Finalist in 2015
6. Chelsea Rochman: ARCS Scholarship 2011/AWIS San Diego Chapter Student Scholarship 2011/SoCal SETAC Best Student Presentation 2010/NSF Graduate Research Fellowship 2010/PADI Foundation Grant 2010/SoCal SETAC Research Grant Award 2010-11
7. Chris Millow: EPA STAR Fellowship in 2012



8. Carlos Manzano: Graduate Student Paper Awards of the Environmental Chemistry Division in 2012 ACS

## VI. SERVICE FOR THE UNIVERSITY AND THE COMMUNITY

### Service for the Department

1. GSPH Committee for Laboratory Resource (2009-present)
2. GSPH International Health Committee (2009 – present)
3. GSPH Committee for Performance Evaluation and Renewal for Accreditation (2012-present)
4. Division Head of Environmental Health (Fall 2014-Spring 2016): advising EH students, scheduling courses, leading student recruitment, admission, orientation, social and student events, graduation event, and curriculum
5. Lead in updating the GSPH Environmental Health Division and the Environmental Health Laboratory web pages

### Service for the College

1. Faculty Search Committees (Chair for Environmental Health (Water Tox) Faculty: 2015, Members for Two Health Promotion Faculty: 2012-2014, and One Global Health Faculty: 2015)
2. Search Committee for Instructional Support Technician: 2016
3. Research Committee (2017- )

### Service for the University

1. SDSU Environment and Safety Committee (2014-present)
2. Area of Excellence: Core-Member of Blue Gold (Water Scarcity) Selected in 2015
3. Recipient of 2015 The President's Leadership Fund (PLB) Faculty and Staff Excellence Award

### Service for the Profession

1. Session Chair for Advanced Analytical Methods for Contaminant Discovery, in the Annual North America Meeting of Society of Environmental Toxicology and Chemistry 2013-2015: Sponsored by Chemistry Advisory Council
2. Editorial Activities:
  - Reviewer
  - Environmental Science & Technology (ES&T), 2003-present
  - ES&T excellence in review (2014)*
  - ES&T "Super Reviewer" Award (2015)*
  - Journal of Agricultural and Food Chemistry, 2008-present
  - Analytica Chimica Acta, 2008-present
  - International Journal of Environmental Analytical Chemistry, 2008-present
  - Journal of Food Composition and Analysis, 2009-present
  - Journal of Chromatography A, 2009-present
  - Environmental Pollution, 2009-present
  - Chemosphere, 2010-present
  - Environmental International, 2010-present
  - Marine Pollution, 2012-present

Advisory Board Member, 2013-present for Environmental Science and Technology Letters

### **Service for the Community**

1. Grant Proposal Review:  
NIH RFA OD-09-003 Challenge Grants (2009)  
NIEHS/EPA Children's Environmental Health and Disease Prevention Center Review P20 (July 2009)  
AAAS invitation to review proposals on pollutants for Saudi National Science Agency (2015)  
EPA STAR fellowship (2015)  
CSU COAST graduate applications for review (2015)  
NIH review: adjunct member of Community Influences on Health Behavior Study Section Scientific Review (2017)
2. Co-Author of "Life Cycle Implications from Tobacco Consumption: Secondhand and Thirdhand Smoke" prepared for CBPP/WHO TFI project on "The Lifecycle of Tobacco Environmental Impacts and Recommendations for Policy Responses".
3. Panel Expert Attending "Ocean and Freshwater Plastic Pollution: Impacts and Opportunities" by the California Legislative Latino Caucus and Monterey Bay Aquarium for a science-policy briefing. January 7, 2016, State Capitol Building, Sacramento, CA.
4. Interview for third hand smoke/ tobacco smoke residue's effect on human health for our Medical news program by KBS (Korean Broadcasting System(KBS) is South Korea's largest public television network and broadcasts both in the US and in Korea): Feb, 2016
5. Invited as a panel member in Korean-American Women Scientist Symposium sponsored by the Korean Federation of Science and Technology Societies, Park City, Utah, August 13, 2011
6. Invited talk, "Potential Benefits of an Untargeted Analytical Approach for Environmental Health Studies," at the West Coast Symposium of Korean-American Women Scientists and Engineers in U.S. FDA, Irvine, CA, June 2010
7. Vice president for Korean American Women in Science and Engineering (2010-2012)
8. Member of Executive Committee of Korean-American Scientists and Engineers Association San Diego Chapter (2012-present)
9. Invited phone interview with the Committee on Energy and Commerce of the U.S. House of Representatives on the subject of toxic substance control in March 2010.
10. A person to person interview with Associate Producer, Felicia Kit, from KGTV ABC 10News about PBDEs (flame retardant and environmental contaminant) for her investigation of potential PBDE contamination in San Diego Bay. Oct, 2009
11. Member of Steering Committee: Chair of the Poster Session for 2009 Symposium on Food Systems & Public Health, November 4-6, 2009, San Diego, CA.
12. Member of Asian Pacific American Network in Agriculture-Greater Philadelphia Chapter: planning and organizing the commemoration of the Asian Pacific American Heritage Month (2006-2008)

### **VII. Honors**

1. Delta Omega (Honorary Society for Graduate Studies in Public Health)
2. Pi Alpha Alpha (Honorary Society for Public Affairs and Administration)
3. Environmental Science and Technology excellence in review 2014
4. 2015 SDSU President's Leadership Fund Faculty and Staff Excellence Award
5. 2015 "100 Inspiring Women in STEM Award" from INSIGHT Into Diversity magazine
6. 2015 Environmental Science and Technology "Super Reviewer" Award
7. 2017 Outstanding Faculty Award