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EDUCATION

Ph.D. Oceanography, Texas A&M University, 1988

M.S., Oceanography, Texas A&M University, 1982

B.S., Chemistry, Texas A&M University at Galveston, 1980

PROFESSIONAL EXPERIENCE

- Assistant Dean for Academic Affairs, Health Science Center, School of Public Health, Texas A&M System, June 2014 – present.
- Interim Associate Dean for Academic Affairs, Health Science Center, School of Public Health, Texas A&M System, November 2015 – October 2016.
- Professor, Health Science Center, School of Rural Public Health, Texas A&M System, September 2012 – present.
- Department Head, Environmental and Occupational Health, Health Science Center, School of Rural Public Health, Texas A&M System, September 2010 – May 2014.
- Interim Department Head, Environmental and Occupational Health, Health Science Center, School of Rural Public Health, Texas A&M System, July 2009 – August 2010.
- Associate Professor, Health Science Center, School of Rural Public Health, Texas A&M System, September 2006 – August 2012.
- Assistant Professor, Health Science Center, School of Rural Public Health, Texas A&M System, September 2005 – August-2006.
- Lecturer, Health Science Center, School of Rural Public Health, Texas A&M University System, September 2001 – August 2005.
- TEES Associate Research Scientist, Department of Civil Engineering, Texas A&M University, August 1998 – August 2002.
- Senior Project Manager, TDI-BI. July 1996 -present.
- TEES Assistant Research Scientist, Department of Civil Engineering, Texas A&M University, January 1996 – August 1998.
- Manager, Mass Spectrometry Group, Geochemical and Environmental Research Group, Texas A&M University, September 1993 - January 1996.
- Assistant Research Scientist, Geochemical and Environmental Research Group, Texas A&M University, September 1989 - January 1996.
- Post-Doctoral Research Associate, Geochemical and Environmental Research Group, Texas A&M University, June 1988 - August 1989.
- Research Assistant, Department of Oceanography, Texas A&M University, November 1984 - May 1988.



SELECTED ACTIVITIES AWARDS

- The Association of Former Students of Texas A&M University, Distinguished Achievement Award at the College Level for Teaching, Fall 2015.
- Editorial Board Member, Regional Studies in Marine Science, Elsevier. July 2014 to present.
- Member of Advisory Council for the TTI “Center for Transportation Safety”. Feb. 2011-Feb. 2013.
- Award for Excellence in Leadership and Service, Texas A&M Health Science Center, January 20, 2010.
- Member of San Jacinto Junior College Industrial Advisory Board. January 10, 2010- Present.
- Session Co-Chairperson: Geochemistry Session on Quantitative Determinations of Biological Markers, ACS National Meeting 1994.
- Outstanding Graduate Student Award - Division of Environmental Chemistry, American Chemical Society 1988.
- Organic Geochemist, Ocean Drilling Project, Leg 104, 1985.
- Organic Geochemist, Deep Sea Drilling Project, Leg 84, 1982.

PUBLICATIONS

- Luo, Y.S., Cichocki, J.A., McDonald, T.J., Rusyn, I. 2017. Simultaneous detection of the tetrachloroethylene metabolites S-(1,2,2-trichlorovinyl) glutathione, S-(1,2,2-trichlorovinyl)-L-cysteine, and N-acetyl-S-(1,2,2-trichlorovinyl)-L-cysteine in multiple mouse tissues via ultra-high performance liquid chromatography electrospray ionization tandem mass spectrometry. *J Toxicol Environ Health A*. 80(9): 513-524. (PMID 28696834).
- Sharma, V.K., Yang, X., Cizmas, L., McDonald, T.J., Luque, R., Sayes, C.M., Yuan, B., Dionysiou, D., 2017. Impact of metal ions, metal oxides, and nanoparticles on the formation of disinfection byproducts during chlorination (review article). *Chem. Eng. Journal*. (317) 777-792.
- Cichocki, J.A., Furuya, S., Venkatratnam, A., McDonald, T.J., Knap, A.H., Wade, T.L., Sweet, S., Chiu, W.A., Threadgill, D.W., Rusyn, I. 2017. Characterization of Variability in Toxicokinetics and Toxidynamics of Tetrachloroethylene Using the Collaborative Cross Mouse Populations. *Environ. Health Perspect*. 125(5) 057006-1 057006-12. (PMID 28572074).
- Telesford-Checkley, J.M., Mora, M.A., Gentry, T.J., McDonald, T.J., Boellstorff, D.E., 2017 Impacts of Hormones on Water Quality as Evaluated through *Escherichia coli* and Fecal Sterol Analyses. *Water Environ. Res*. 89(6): 508-518. (PMID 28545602).
- Cichocki, J.A., Furuya, S., Konganti, K., Luo, Y.S., McDonald, T.J., Iwata, Y., Chiu, W.A., Threadgill, D.W., Pogribny, I.P., Rusyn, I. 2017. Impact of nonalcoholic fatty liver disease on toxicokinetics of tetrachloroethylene. *J. Pharmacol Exp. Ther*. 361: 17-28. (PMID 2814637).
- Sansom G., Berke P., McDonald T.J., Shipp E., and Horney J. 2016. Confirming the Environmental Concerns of Community Members Utilizing Participatory-Based Research in the Houston Neighborhood of Manchester. *Int. Journal Environ Research Public Health*. 13(9). (PMID: 27563915).
- Trueblood, A.B., Rincon, R., Perales, R., Hollingsworth, R., Miller, C., McDonald, T.J. and Cizmas, L.H. 2016. A Pilot Study of Changes in Environmental Knowledge and Behaviors among Head Start Employees and Parents Following Environmental Health Training in Webb County, TX. *Journal of Immig and Min Hlth*. 18(1) 135-142. (PMID 25538003).



- Sharma, V.K., Johnson N, Cizmas L.H., McDonald T.J., and Kim H. 2016. A review of the influence of treatment strategies on antibiotic resistant bacteria and antibiotic resistance genes. *Chemosphere* Vol. 150; 702-714. (PMID 26775188).
- Vuong A.M., Shinde M.U., Brender J.D., Shipp E.M., Huber J.C. Jr, Zheng Q., Sharkey, J.R. McDonald T.J., Werler M.M., Kelley K.E., Griesnebeck, J.S., Langlois P.H., Canfield M.A. 2016. Prenatal Exposure to Nitrosatable Drugs, Dietary Intake of Nitrates, and Preterm Birth. *Am. Journal of Epidemiology*. 183 (5).
- Cizmas L., Sharma V.K., Gray C.M., McDonald T.J. (2015). Pharmaceuticals and personal care products in waters: occurrence, toxicity, and risk. *Environ. Chem. Lett.* Dec. 13(4): 381-394.
- Sharma V.K., McDonald T.J., Kim H., Garg V.K. (2015). Magnetic graphene-carbon nanotube iron nanocomposites as adsorbents and antibacterial agents for water purification. *Adv. Colloid Interface Sci.* Nov: 225:229-240. (PMID: 26498500).
- Cizmas L, Ackerman L, Donnelly DA, Donnelly K.C., McDonald T.J. (2015). Measurement of Organophosphate Pesticides, Organochlorine Pesticides, and Polycyclic Aromatic Hydrocarbons in Household Dust from Two Rural Villages in Nepal. *Journal of Environmental & Analytical Toxicological*. 5:261.
- Sharma, V.K., McDonald, T.J., Sohn, M. Anquandah, G.A.K., Pettine, M., and Zboril, R. 2015. Biogeochemistry of Selenium. A Review. *Environmental Chemistry Letters*. Vol 13(1). 49-58. (PMID)
- Vuong A.M., Shinde M.U., Brender J.D., Shipp E.M., Huber J.C. Jr, Zheng Q., McDonald T.J., Sharkey J.R., Hoyt A.T., Werler M.M., Kelley K.E., Langlois P.H., Canfield M.A. 2015. Nitrosatable Drug Exposure during Pregnancy and Preterm and Small-for-Gestational-Age Births. *Peadiatr Perinat Epidemiol*. January 29(1): 60-71, (PMID 25492517).
- Phillips T.D., Richardson M., Cheng Y-S.L., He L., McDonald T.J, Cizmas L.H., Safe S.H., Donnelly K.C., Wang .F, Moorthy B., Zhou G-D. 2014. Mechanistic relationships between hepatic genotoxicity and carcinogenicity in male B6C3F1 mice treated with polycyclic aromatic hydrocarbon mixtures. *Arch. Toxicol.*, published online June 3, 2014, (PMID 24888377).
- Sharma, V.K., Zboril, R., and McDonald. T.J. (2014). Formation and toxicity of brominated disinfection byproducts during chlorination and chloramination of water: A review. *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*. January (49): 212-228. (PMID: 24380621)
- Sexton, K., Salinas, J.J., McDonald, T.J. Thomas, Gowen, R.M.Z., Miller, R.P, McCormick J.B. and Fisher-Hoch, S.P. (2013). Biomarker Measurements of Prenatal Exposure to Polychlorinated Biphenyls (PCB) in Umbilical Cord Blood from Postpartum Hispanic Women in Brownsville, Texas. *Journal of Toxicology and Environmental Health, Part A: Current Issues*, 76(22): 1225-1235. (PMID: 24283394).
- Trefry, J.H., Dunton, K.H., Trocine, R.P., Schonberg, S.V., McTigue, N.D., Hersh, E.S., and McDonald, T.J. (2013). Chemical and Biological Characterization of Two Historic Offshore Drill Sites in the Alaskan Arctic. *Mar Environ. Res.* May (86): 35-45. (PMID: 23535013).
- Sexton, K., Salinas, J.J., McDonald, T.J. Thomas, Gowen, R.M.Z., Miller, R.P, McCormick J.B. and Fisher-Hoch, S.P. (2013). Biomarkers of Maternal and Fetal Exposures to Organochlorine Pesticides Measured in Pregnant Hispanic Women from Brownsville, Texas. *Int. J. Environ. Res. Public Health*, 10(1): 237-248. (PMID: 23343981).



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- Kelley, M.A., Gillespie, A., Zhou, G.D., Zhang, S., Meador, J.P., Duncan, B., Donnelly, K.C., and McDonald, T.J. 2011. *In situ* biomonitoring of caged, juvenile Chinook salmon (*Oncorhynchus tshawytscha*) in the Lower Duwamish Waterway. *Mar. Poll. Bull.* 62(11): 2520-2532. (PMID 21906759).
- Sexton, K., Salinas, J.J., McDonald, T.J. Thomas, Gowen, R., M.Z., Miller, R.P, McCormick J.B. and Fisher-Hoch, S.P. (2011). Polycyclic Aromatic Hydrocarbons in Maternal and Umbilical Cord Blood from Pregnant Hispanic Women Living in Brownsville, Texas. *Int. J. Environ. Res. Public Health*, 8(8): 3365-3379. (PMID: 21909312)
- Rinner, B.P., Matson, C.W., Islamzadeh, A., McDonald, T.J., Donnelly, K.C., and Bickham, J.W. 2011. Evolutionary toxicology: contaminant-induced genetic mutations in mosquito fish from Sumgayit, Azerbaijan. *Ecotoxicology*. 20(2): 365-376. (PMID: 21312027)
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- Bruce, E.D., Autenrieth, R.L., McDonald, T.J., Donnelly, K.C., and Burghardt, R.C. 2009. Modeling Toxic Endpoints for Improving Human Health Risk Assessment of Polycyclic Aromatic Hydrocarbons – Parent Compounds and Simple Mixtures. *Toxicological and Environmental Chemistry*, 91(1), pp.137-156. (PMID: 18569619).
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- Bruce, E.D., A.A. Abusalih, T.J. McDonald, and R.L. Autenrieth. 2007. Comparing deterministic and probabilistic risk assessments for sites contaminated by polycyclic aromatic hydrocarbons (PAHs). *Journal of Environmental Science and Health A*. 42(6): 697-706. (PMID: 17473995).
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- Matson, C.W., G. Palatnikov, A. Islamzadeh, T.J. McDonald, R.L. Autenrieth, K.C. Donnelly, and J. W. Bickham. 2005. Chromosomal Damage in two species of aquatic turtles (*Emys orbicularis* and *Mauremys caspica*) inhabiting contaminated sites in Azerbaijan. *Ecotoxicology*, 513-525
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