Duke University

Nicholas School of the Environment A150C Levine Science Research Center 450 Research Drive Durham, NC 27708

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EDUCATION

Christopher D. Kassotis, Ph.D.

K99/R00 Postdoctoral Research Scholar Integrated Toxicology and Environmental Health Program

Interests: endocrinology, toxicology, mixtures http://www.cdkassotis.com

Ph.D.,	Biological Sciences, focus: Endocrinology, (2010 – 2015)
	University of Missouri, Columbia, MO
	Advisors: Susan C. Nagel and Frederick S. vom Saal
	Dissertation: Unconventional Oil and Gas Extraction as a Novel Source of Endocrine
	Disrupting Chemicals to Water and the Potential for Adverse Human and Animal Health
	Outcomes
Gradua	te Certificate, Science and Public Policy, (2010 – May 2015)
	University of Missouri Columbia MO

University of Missouri, Columbia, MO Advisor: Michael A. Diamond

B.S. Biology, (2004 – 2008) Keene State College, Keene, NH Advisor: Karen R. Cangialosi

EMPLOYMENT HISTORY

K99/R00 Postdoctoral Research Scholar Heather Stapleton Laboratory Nicholas School of the Environment Duke University, Durham, NC	May 2019 – current
NRSA Postdoctoral Research Scholar Heather Stapleton Laboratory Nicholas School of the Environment Duke University, Durham, NC	April 2017 – May 2019
Postdoctoral Research Associate Heather Stapleton Laboratory Nicholas School of the Environment Duke University, Durham, NC	September 2015 – April 2017
Postdoctoral Research Associate Susan Nagel Laboratory Department of Obstetrics, Gynecology, and Women's Healt University of Missouri, Columbia, MO	May 2015 – August 2015 h.

Environmental Protection Agency STAR Fellow Susan C. Nagel Laboratory Department of Obstetrics, Gynecology, and Women's Health. University of Missouri, Columbia, MO	August 2012 – May 2015
Graduate Research Assistant Susan C. Nagel Laboratory Department of Obstetrics, Gynecology, and Women's Health. University of Missouri, Columbia, MO	June 2012 – August 2012
Graduate Teaching Assistant Mammalian Reproductive Biology, Biological Sciences #4984 University of Missouri, Columbia, MO	January 2012 – May 2012
Graduate Research Assistant Janu Susan C. Nagel Laboratory Department of Obstetrics, Gynecology, and Women's Health. University of Missouri, Columbia, MO	ary 2011 - December 2011
Graduate Teaching Assistant Aug Introductory Biology Laboratory, Biological Sciences #1500 University of Missouri, Columbia, MO	gust 2010 - December 2010
Analytical Chemist II Taylor Technology, Princeton, NJ	June 2008 - June 2010

PUBLICATIONS

Under review:

Kassotis, CD, Vandenberg, L, Demeneix, B, Slama, R, Trasande, L. Endocrine Disrupting Chemicals: Economic, regulatory, and policy implications. *In revision*.

Kassotis, CD, Hoffman, K, Filer, D, Thayer, KA, and Stapleton, HM. Building a Predictive Model with ToxCast Data to Evaluate Potential Metabolic Disruption by Environmental Chemicals. *In revision*.

Kassotis, CD, Harkness, JS, Hoffman, K, Vu, DC, Lin, C-H, Cinnamon, KM, Vengosh, A, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activities and Inorganic Geochemistry of Surface and Groundwater are Associated with Unconventional Oil and Gas Wells and Wastewater Spills. *Under review*.

In preparation:

Kassotis, CD, Phillips, AL, Hoffman, K, Zhang, S, Webster, TF, and Stapleton, HM. Characterization of Adipogenic, PPARg, and TRb Activities in House Dust Extracts and their Associations with Organic Contaminants. *Co-author review*.

Kassotis, CD, Hoffman, K, Hammell, SC, Herkert, NJ, Kullman, SW, and Stapleton, HM. Thyroid Receptor Antagonism of Silicone Wristband Extracts and Associations with Human Health. *Co-author review*.

Published (27 total):

Jane Muncke, Anna-Maria Andersson, Thomas Backhaus, Justin M. Boucher, Bethanie Carney Almroth, Arturo Castillo Castillo, Jonathan Chevrier, Barbara A. Demeneix, Jorge A. Emmanuel, Jean-Baptiste Fini, David Gee, Birgit Geueke, Ksenia Groh, Jerrold J. Heindel, Jane Houlihan, Christopher D. Kassotis, Carol F. Kwiatkowski, Lisa Y. Lefferts, Maricel V. Maffini, Olwenn V. Martin, John Peterson Myers, Angel Nadal, Cristina Nerin, Katherine E. Pelch, Seth Rojello Fernández, Robert M. Sargis, Ana M. Soto, Leonardo Trasande, Laura N. Vandenberg, Martin Wagner, Changqing Wu, R. Thomas Zoeller, and Martin Scheringer. Impacts of food contact chemicals on human health: a consensus statement. *Environmental Health. In press*.

Nagel, SC, Kassotis, CD, Vandenberg, LN, Lawrence, BP, Robert, J, and Balise, VD. Developmental exposure to a mixture of unconventional oil and gas chemicals: A review of effects on adult health, behavior, and disease. *Molecular & Cellular Endocrinology. In press.*

McElroy, JA, <u>Kassotis, CD</u>, and Nagel, SC. In our backyard: Beliefs about fracking, science, and health by community members. *New Solutions. In press.*

Balise, VD, Cornelius-Green, J, Parmenter, B, Baxter, S, Kassotis, CD, Rector, RS, Thyfault, JP, Palanza, P, Ruiz, D, Sargis, R, and Nagel, SC. Developmental Exposure to a Mixture of Unconventional Oil and Gas Chemicals Increased Risk-Taking Behavior, Activity and Energy Expenditure in Aged Female Mice After a Metabolic Challenge. *Frontiers in Endocrinology*. 2019; 10, 460.

Balise, VD, Cornelius-Green, J, <u>Kassotis, CD</u>, Rector, RS, Thyfault, JP, and Nagel, SC. Preconceptional, Gestational, and Lactational Exposure to an Unconventional Oil and Gas Chemical Mixture Alters Energy Expenditure in Adult Female Mice. *Frontiers in Endocrinology*. 2019; 10, 323.

Kassotis, CD, Kollitz, EM, Hoffman, K, Sosa, JA, and Stapleton, HM. Thyroid Receptor Antagonism as a Contributory Mechanism for Adipogenesis Induced by Environmental Mixtures in 3T3-L1 Cells. *Science of the Total Environment*. 2019; 666, 431-444.

Kassotis, CD, Hoffman and Stapleton, HM. Endocrine-Mediated Mechanisms of Metabolic Disruption and New Approaches to Examine the Public Health Threat. *Frontiers in Endocrinology*. 2019; 10 (39), 1-22.

Kollitz, EM, Kassotis, CD, Hoffman, K, Ferguson, PL, Sosa, JA, and Stapleton, HM. Chemical Mixtures Isolated From House Dust Disrupt Thyroid Receptor β (TR β) Signaling. *Environmental Science & Technology*. 2018; 52 (20), 11857-11864.

Kassotis, CD, Nagel, SC, and Stapleton, HM. Unconventional Oil and Gas Chemicals and Wastewater-Impacted Water Samples Promote Adipogenesis via PPARγ-Dependent and Independent Mechanisms in 3T3-L1 Cells. *Science of the Total Environment*. 2018; 640-641, 1601-1610.

Kassotis, CD, Vu, DC, Vo, PH, Lin, C-H, Cornelius-Green, JN, Patton, S, and Nagel, SC. Endocrine Disrupting Activities and Organic Contaminants in Wyoming Groundwater Associated with Unconventional Oil and Gas Operations. *Archives of Environmental Contamination and Toxicology*. 2018; 75 (2), 247-258.

Boule, L, Chapman, T, Hillman, S, Georas, S, Kassotis, CD, Balise, VD, Nagel, SC, and Lawrence, BP. Developmental exposure to chemicals associated with unconventional oil and gas extraction alters CD4+ T cell populations in multiple immune responses. *Toxicological Sciences*. 2018; 163 (2), 639-654.

Sapouckey, SS, Kassotis, CD, Nagel, SC, and Vandenberg, LN. Prenatal Exposure to Unconventional Oil and Gas Operation Chemical Mixtures Altered Mammary Gland Development in Adult Female Mice. *Endocrinology*. 2018; 159 (3), 1277-1289.

Luz, AL, <u>Kassotis, CD</u>, Stapleton, HM, and Meyer, JN. The high-production volume fungicide pyraclostrobin induces triglyceride accumulation associated with mitochondrial dysfunction, and promotes adipocyte differentiation independent of PPAR activation, in 3T3-L1 cells. *Toxicology*. 2018; 393, 150-159.

Kassotis, CD, Kollitz, EM, Ferguson, PL, and Stapleton, HM. Ethoxylated Alkylphenol and Alcohol Surfactants Promote Adipogenesis in 3T3-L1 Cells. *Toxicological Sciences*. 2018; 162 (1), 124-136.

Kassotis, CD, Hoffman, K, and Stapleton, HM. Characterization of Adipogenic Activity of Semi-Volatile Indoor Contaminants and House Dust. *Environmental Science & Technology*. 2017; 51(15), 8735-8745.

Kassotis, CD, Masse, L, Kim, S, Schlezinger, JJ, Webster, TF, and Stapleton, HM. Characterization of Adipogenic Chemicals in Three Different Cell Culture Systems: Implications for Reproducibility Based on Cell Source and Handling. *Scientific Reports*. 2017; 7, 42104.

Kassotis, CD, Klemp, KC, Bromfield, JJ, Meng, C-X, Besch-Williford, CL, Pinatti, L, Zoeller, RT, Balise, VD, Isiguzo, CI, Williams, MA, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Adverse Health Outcomes Following Prenatal Exposure in Female Mice. *Endocrinology*. 2016; 157(9): 3469-3481.

Balise, VD, Meng, C-X, Cornelius-Green, J, <u>Kassotis, CD</u>, Kennedy, R, and Nagel, SC. A systematic review of the association between oil and natural gas extraction processes and human reproduction. *Fertility & Sterility*. 2016; 106(4): 795-819.

Wylie, S, Schultz, K, Thomas, D, <u>Kassotis, CD</u>, and Nagel, SC. Inspiring Collaboration: The Legacy of Theo Colborn's Trans-Disciplinary Research on Fracking. *New Solutions*. 2016; 26(3): 360-388.

Kassotis, CD, Iwanowicz, L, Akob, DM, Cozzarelli, IM, Mumford, A, Orem, WH, and Nagel, SC. Endocrine Disrupting Activities of Surface Water Associated with a West Virginia Oil and Gas Wastewater Disposal Site. *Science of the Total Environment*. 2016; 557-558: 901-910.

Kassotis, CD, Tillitt, DE, Lin, C-H, McElroy, JA, and Nagel, SC. Endocrine Disrupting Chemicals and Oil and Natural Gas Operations: Recommendations to Assess Complex Environmental Mixtures. *Environmental Health Perspectives*. 2016; 124(3): 256-264.

Kassotis, CD, Klemp, KC, Vu, DC, Lin, C-H, Meng, C-X, Besch-Williford, CL, Pinatti, L, Zoeller, RT, Drobnis, EZ, Balise, VD, Isiguzo, CJ, Williams, MA, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Adverse Health Outcomes Following Prenatal Exposure in Male Mice. *Endocrinology*. 2015; 156(12): 4458-4473.

Heindel, JJ, vom Saal, FS, Blumberg, B, Bovolin, P, Calamandrei, G, Ceresini, G, Cohn, BA, Fabbri, E, Gioiosa, L, <u>Kassotis, CD</u>, Legler, J, La Merrill, M, Rizzir, L, Machtinger, R, Mantovani, A, Mendez, MA, Montanini, L, Molteni, L, Nagel, SC, Parmigiani, S, Panzica, G, Paterlini, S, Pomatto, V, Ruzzin, J, Sartor, G, Schug, TT, Street, ME, Suvorov, A, Volpi, R, Zoeller, RT, Palanza, P. Parma Consensus Statement on Metabolic Disruptors. *Environmental Health.* 2015; 14(54): 1-7.

Kassotis, CD, Alvarez, DA, Taylor, JA, Vom Saal, FS, Nagel, SC, and Tillitt, DE. Potential Novel Route of Exposure to Bisphenol A through Characterization of Missouri Waters near Point Sources of Pollution. *Science of the Total Environment*. 2015; 524-525: 384-393.

Bhandari RK, Deem SL, Holliday DK, Jandegian CM, Kassotis CD, Nagel SC, Tillitt DE, Vom Saal FS, and Rosenfeld CS. Effects of the environmental estrogenic contaminants bisphenol A and 17α -ethinyl estradiol on sexual development and adult behaviors in aquatic wildlife species. *General and Comparative Endocrinology*. 2015; 214: 195-219.

Webb, E, Bushkin-Bedient, S, Cheng, A, <u>Kassotis CD</u>, Balise, V, and Nagel SC. Developmental and reproductive effects of chemicals associated with unconventional oil and natural gas operations. *Reviews on Environmental Health*. 2014; 29(4): 307-318.

Kassotis, CD, Tillitt, DE, Davis, JW, Hormann, AM, and Nagel, SC. Estrogen and Androgen Receptor Activity of Natural Gas Drilling Chemicals and Surface and Ground Water in a Drilling-Dense Region. *Endocrinology*. 2014; 155(3): 897-907.

GRANT SUPPORT

Ongoing

K99/R00 (NIH; NIEHS)

Role: PI

Title: "Mechanisms of Environmental-Mixture Induced Metabolic Disruption"

This award was designed to expand experience in utilizing the zebrafish model to study adipose physiology as a model for human metabolic dysfunction and assess the role of polyethoxylated surfactants in promoting metabolic dysfunction *in vitro* and *in vivo* as a model for potential human effects, as well as to quantify their role in adipogenic responses by complex environmental samples and identify their underlying molecular mechanisms.

In preparation R21 (NIH; NIEHS)

Role: Co-I

Title: "Mechanisms of Environmental-Mixture Induced Metabolic Disruption"

This grant application, submitted once in 2019 and scored but not funded, is anticipated to be resubmitted in March 2020. This grant is intended to assess felines as a sentinel for interrogating the potential impacts of indoor contaminant mixtures on adverse metabolic health concerns, in particular increased adiposity. Observations between humans and feline companions are planned, as well as mechanistic comparisons between the two models using a variety of *in vitro* models.

Completed F32-ES027320 (NIH; NIEHS)

Role: PI

Title: "Development of affinity-directed isolation methods to identify novel hormonally active chemicals"

This fellowship was designed to expand experience in analytical chemistry techniques and address research aims to identify causative chemicals present in complex environmental samples contributing to adipogenic responses and to identify the causative mechanistic pathways.

FP-91747101 (US EPA)

Role: Graduate Student Fellow (EPA STAR)

Title: "Environmentally Relevant Mixtures of Endocrine Disrupting Chemicals"

This fellowship was designed to assess the endocrine disrupting chemicals used in the process of hydraulic fracturing via molecular characterization of commonly used hydraulic fracturing chemicals, characterization of surface and groundwater near hydraulic fracturing operations, and elucidation of potential adverse outcomes through a developmental exposure study in mice.

AWARDS, HONORS, AND FELLOWSHIPS

K99/R00 Pathway to Independence Award, NIEHS	(2019-2024)
Postdoctoral Fellowship, NIEHS National Research Service Award (NRSA)	(2017-2020)
Doctoral Fellowship, Environmental Protection Agency STAR Fellowship	(2012-2015)

3/2020 target submission

5/2017-5/2019

6/2012-6/2015

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2020 Best Postdoctoral Publication Award, Society of Toxicology	(2019)
Top Ten Abstracts Award, Mixtures Specialty Section, Society of Toxicology Ar	nual Meeting
	(2018)
Best Postdoctoral Poster Award, EDC-NC Annual Meeting	(2018)
Selected for 2017 Advancing Green Chemistry Science Communication Fellowsh	nip (2017)
Elected as Co-Chair of 2018 Gordon Research Seminar, Environmental Endocrin	e Disruptors
	(2016)
Gordon Research Conference Travel Award, Environmental Endocrine Disruptor	rs (2016)
Gordon Research Seminar Travel Award, Environmental Endocrine Disruptors	(2016)
Endocrine Society 2015 Meeting Presidential Poster Award (2015)	
Endocrine Society Early Career Forum Travel Award, The Endocrine Society An	nual Meeting (2015)
Endocrine Society In-Training and Early Career Travel Grant, Prenatal Programm IV Meeting	ning & Toxicity (2014)
Selected for Endocrine Society 2014 Meeting Presidential Poster Competition	(2014)
Graduate Professional Council Travel Award, University of Missouri	(2014)
Second Place Poster Award, <i>Genetics, Evolution, and Environment</i> , University of Sciences Week	f Missouri Life (2014)
Kassotis, et al. featured on cover of March 2014 issue of Endocrinology	(2014)
Honorable Mention, National Science Foundation Graduate Research Fellowship	(2012)
Gordon Research Conference Travel Award, Environmental Endocrine Disruptor	rs (2012)
Larry Ewing Memorial Trainee Travel Fund, Society for the Study of Reproducti	on (2011)
National Society of Collegiate Scholars	(Inducted 2004)

PRIMARY RESEARCH PRESENTATIONS AND POSTERS

Platform/Oral Presentations (20 total):

Kassotis, Christopher D. From Fracking to Fat Cells: How Environmental Contaminants Can Disrupt Metabolic Health. **Invited Oral Presentation**. Wayne State University, Institute of Environmental Health Sciences: Seminar Series, Detroit, MI, October 17, 2019.

Kassotis, Christopher D. From Fracking to Fat Cells: How Environmental Contaminants Can Disrupt Metabolic Health. **Invited Oral Presentation**. The National Institute of Occupational Safety and Health (NIOSH): Seminar Series. Morgantown, WV, May 8, 2019.

Kassotis, Christopher D. From Fracking to Fat Cells: How Environmental Contaminants Can Disrupt Metabolic Health. **Invited Oral Presentation**. New York University (NYU), Department of Endocrinology and Metabolism. New York City, NY, April 22, 2019. Kassotis, Christopher D. From Fracking to Fat Cells: How Environmental Contaminants Can Disrupt Metabolic Health. **Invited Oral Presentation**. University of North Carolina - Greensboro: Biological Sciences Seminar Series. Greensboro, NC, April 3, 2019.

Kassotis, Christopher D. Metabolic Disrupting Potential of Unconventional Oil and Gas Operation Chemicals and Mixtures. **Invited Oral Presentation**. The Endocrine Disruption Exchange, Oil and Gas Program Webinar Series. September 4, 2018. Recording of presentation and PDF of slides available at: https://endocrinedisruption.org/audio-and-video/oil-and-gas/webinar-kassotis

Kassotis, Christopher D., Nagel, Susan C., and Stapleton, Heather M. Endocrine Disrupting Activities Associated with Unconventional Oil and Gas Operations. **Invited Oral Presentation**. International Society of Exposure Science/International Society of Environmental Epidemiology Joint Annual Meeting. Ottawa, Canada, August 28, 2018.

Kassotis, Christopher D. Mechanisms of Metabolic Disruption by Environmental Contaminants and Mixtures. **Invited Oral Presentation**. The Environmental Protection Agency: Emerging Topics Seminar Series. Durham, NC, February 14, 2018.

Kassotis, Christopher D. Mechanisms of Adipogenic Activity of Environmental Contaminants and Mixtures. **Invited Oral Presentation**. Duke University: Integrated Toxicology and Environmental Health Program Seminar Series. Durham, NC, October 13, 2017.

Kassotis, Christopher D. Chemicals in House Dust: Potential Contributors to Obesity and Metabolic Disease. **Invited Oral Presentation**. Collaborative on Health and the Environment: EDC Strategies Partnership, a Teleconference Series. October 18, 2017. Recording of presentation and PDF of slides available at: https://www.healthandenvironment.org/partnership_calls/95946

Kassotis, Christopher D, Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts in 3T3-L1 Cells and Associations with Flame Retardants. **Oral Presentation**. Brominated Flame Retardants (BFR) 2017. York, UK, May 8, 2017.

Kassotis, Christopher D, Stapleton, Heather M. Characterization of Potential Obesogens *in vitro* and Implications for Reproducibility. **Invited Oral Presentation**. Gordon Research Conference: Environmental Endocrine Disruptors, 2016. Sunday River, ME, June 21, 2016.

Kassotis, Christopher D, Stapleton, Heather M. Characterizing the Adipogenic Potential of Flame Retardants Using 3T3-L1 Cell Cultures. **Oral Presentation**. Brominated Flame Retardants (BFR) 2016. Toronto, Canada, May 7, 2016.

Kassotis, Christopher D. Unconventional Oil and Gas Extraction and Endocrine Disruptors: Potential Implications for Human and Animal Health. **Invited Oral Presentation**. The Endocrine Disruption Exchange: Endocrine Disruption and Unconventional Oil and Gas Production, a Teleconference Series. April 7, 2016. Recording of presentation and PDF of slides available at: http://endocrinedisruption.org/chemicals-in-natural-gas-operations/uoged-kassotis

Kassotis, Christopher D. Unconventional Oil and Gas Extraction as a Novel Source of Endocrine Disrupting Chemicals to Water and the Potential for Adverse Human and Animal Health Outcomes. **Invited Oral Presentation**. The Environmental Protection Agency: Emerging Topics Seminar Series. Durham, NC, January 14, 2016.

Kassotis, Christopher D. Endocrine Disrupting Potential of Unconventional Oil and Gas Production. **Invited Oral Presentation**. Social Science – Environmental Health Collaborations Conference: Northeastern University, Social Science Environmental Health Research Institute (SSEHRI). Boston, MA, May 21, 2015.

Kassotis, Christopher D. Endocrine Disrupting Potential of Unconventional Oil and Gas Extraction. **Invited Oral Presentation**. Duke University: Durham, NC, April 28, 2015.

Kassotis, Christopher D, Klemp, Kara C, Vu, Danh C, Lin, Chung-Ho, Drobnis, Erma Z, Balise, Victoria D, Isiguzo, Chiamaka J, Williams, Michelle A, Tillitt, Donald E., and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Health Outcomes Following Prenatal Exposure in Mice. **Oral Presentation**. The 249th American Chemical Society Meeting: Denver, CO, March 23, 2015.

Kassotis, Christopher D. Hormones, Endocrine Disrupting Chemicals, and Hydraulic Fracturing. **Oral Presentation**. Hinsdale High School: Hinsdale, NH, October 31, 2014.

Kassotis, Christopher D. Hydraulic Fracturing Chemicals and Implications for Water Contamination. **Invited Oral Presentation**. Keene State College: Keene, NH, September 30, 2013.

Kassotis, Christopher D, Cook-Bailey, Audrey M, Hormann, Annette M, and Nagel, Susan C. Hormonal Activity of Surface and Ground Water in Natural Gas Drilling-dense Areas. **Oral Presentation**. Endocrine Disruptor Discussion Group: Columbia, MO, March 12, 2012.

Poster Presentations (28 total):

Kassotis, Christopher D., Hoffman, Kate, Phillips, Allison L., Choyke, Sarah, Ferguson, P. Lee, and Stapleton, Heather M. Assessment of Causative Chemicals and Molecular Mechanisms of Indoor House Dust Extract-Induced Adipogenesis. Poster Presentation. Endocrine Disruption Chemicals Research in NC (EDC-NC) Annual Meeting 2018. NIEHS, Durham, NC, April 6, 2019.

Kassotis, Christopher D., Hoffman, Kate, Phillips, Allison L., Choyke, Sarah, Ferguson, P. Lee, and Stapleton, Heather M. Assessment of Causative Chemicals and Molecular Mechanisms of Indoor House Dust Extract-Induced Adipogenesis. Poster Presentation. The Endocrine Society Annual Meeting: New Orleans, LA, March 25, 2019.

Kassotis, Christopher D., Kollitz, Erin M., Hoffman, Kate, and Stapleton, Heather M. Thyroid Receptor Antagonism as a Contributory Mechanism for Indoor House Dust Extract-Induced Adipogenesis in 3T3-1 Cells. Poster Presentation. The United States Society for Developmental Origins of Health and Disease 2018 Conference. Chapel Hill, North Carolina, October 1, 2018.

Kassotis, Christopher D., Kollitz, Erin M., Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts Occurs at Environmentally Relevant Concentrations. Poster Presentation. Gordon Research Conference on Environmental Endocrine Disruptors 2018. Les Diablerets, Switzerland, June 6, 2018.

Kassotis, Christopher D., Kollitz, Erin M., Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts Occurs at Environmentally Relevant Concentrations. Poster Presentation. Gordon Research Seminar on Environmental Endocrine Disruptors 2018. Les Diablerets, Switzerland, June 2, 2018.

Kassotis, Christopher D., Kollitz, Erin M., Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts Occurs at Environmentally Relevant Concentrations. Poster Presentation. Society of Toxicology Annual Meeting 2018. San Antonio, TX, March 13, 2018.

Kassotis, Christopher D., Kollitz, Erin M., Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts Occurs at Environmentally Relevant Concentrations. Poster Presentation. Endocrine Disruption Chemicals Research in NC (EDC-NC) Annual Meeting 2018. NIEHS, Durham, NC, February 23, 2018.

Kassotis, Christopher D, Hoffman, Kate, and Stapleton, Heather M. Adipogenic Activity of Indoor House Dust Extracts in 3T3-L1 Cells and Associations with Flame Retardants. Poster Presentation. Brominated Flame Retardants (BFR) 2017. York, UK, May 8, 2017.

Kassotis, Christopher D, Hoffman, Kate, and Stapleton, Heather M. Characterization of Adipogenic Activity of Semi-Volatile Indoor Contaminants and House Dust Extracts in 3T3-L1 Cells. Poster Presentation. NIEHS Fest: The Environmental Health Science Festival. Durham, NC, December 7, 2016.

Kassotis, Christopher D and Stapleton, Heather M. Characterization of Adipogenic Activity of Semi-Volatile Indoor Contaminants and House Dust Extracts in 3T3-L1 Cells. Poster Presentation. 25 Years of Endocrine Disruption Research: Past Lessons and Future Directions. Bethesda, MD, September 19, 2016.

Kassotis, Christopher D, Harkness, JS, Vu, DC, Lin, C-H, Cinnamon, KM, Vengosh, A, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activities and Inorganic Geochemistry of Surface and Groundwater are Associated with Unconventional Oil and Gas Wells and Wastewater Spills. Poster Presentation. 25 Years of Endocrine Disruption Research: Past Lessons and Future Directions. Bethesda, MD, September 19, 2016.

Kassotis, Christopher D, Harkness, JS, Vu, DC, Lin, C-H, Cinnamon, KM, Vengosh, A, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activities and Inorganic Geochemistry of Surface and Groundwater are Associated with Unconventional Oil and Gas Wells and Wastewater Spills. Poster Presentation. Gordon Research Conference: Environmental Endocrine Disruptors, 2016. Sunday River, ME, June 21, 2016.

Kassotis, Christopher D, Harkness, JS, Vu, DC, Lin, C-H, Cinnamon, KM, Vengosh, A, Tillitt, DE, and Nagel, SC. Endocrine Disrupting Activities and Inorganic Geochemistry of Surface and Groundwater are Associated with Unconventional Oil and Gas Wells and Wastewater Spills. Poster Presentation. Gordon Research Seminar: Environmental Endocrine Disruptors, 2016. Sunday River, ME, June 18, 2016.

Kassotis, Christopher D, Bromfield, John J, Klemp, Kara C, Meng, Chun-Xia, Wolfe, Andrew, Balise, Victoria D, Isiguzo, Chiamaka J, Tillitt, Donald E., and Nagel, Susan C. Adverse Reproductive and Developmental Health Outcomes Following Prenatal Exposure to a Hydraulic Fracturing Chemical Mixture in Female C57Bl/6 Mice. Poster Presentation. The National Institute of Environmental Health Sciences: Triangle Consortium on Reproductive Biology. Durham, NC, February 6, 2016.

Kassotis, Christopher D, Klemp, Kara C, Vu, Danh C, Lin, Chung-Ho, Drobnis, Erma Z, Balise, Victoria D, Isiguzo, Chiamaka J, Williams, Michelle A, Tillitt, Donald E., and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Health Outcomes Following Prenatal Exposure in Mice. Poster Presentation. The Endocrine Society Annual Meeting: San Diego, CA, March 5, 2015.

Kassotis, Christopher D, Lin, Chung-Ho, Tillitt, Donald E., and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Health Outcomes Following Prenatal Exposure in Mice. Poster Presentation. Health Sciences Research Day: Columbia, MO, November 13, 2014.

Kassotis, Christopher D, Lin, Chung-Ho, Tillitt, Donald E., and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Health Outcomes Following Prenatal Exposure in Mice. Poster Presentation. Prenatal Programming and Toxicity IV: Boston, MA, October 27, 2014.

Kassotis, Christopher D, Lin, Chung-Ho, Tillitt, Donald E., Davis, J. Wade, and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Mixtures. Poster Presentation. The Endocrine Society/International Congress on Endocrinology Meeting 2014: Chicago, IL, June 23, 2014.

Kassotis, Christopher D, Lin, Chung-Ho, Tillitt, Donald E., Davis, J. Wade, and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Mixtures. Poster Presentation. Gordon Research Conference: Environmental Endocrine Disruptors: Lucca, Italy, May 14, 2014.

Kassotis, Christopher D, Lin, Chung-Ho, Tillitt, Donald E., Davis, J. Wade, and Nagel, Susan C. Endocrine Disrupting Activity of Hydraulic Fracturing Chemicals and Mixtures. Poster Presentation. Gordon Research Seminar: Environmental Endocrine Disruptors: Lucca, Italy, May 10, 2014.

Kassotis, Christopher D, Tillitt, Donald E., Davis, J. Wade, Hormann, Annette M, and Nagel, Susan C. Estrogen and Androgen Receptor Activities of Hydraulic Fracturing Chemicals and Surface and Ground Water in a Drilling-dense Region. Poster Presentation. Life Sciences Week: Columbia, MO, April 14, 2014.

Kassotis, Christopher D, Tillitt, Donald E., Davis, J. Wade, Hormann, Annette M, and Nagel, Susan C. Estrogen and Androgen Receptor Activities of Hydraulic Fracturing Chemicals and Surface and Ground Water in a Drilling-dense Region. Poster Presentation. Health Sciences Research Day: Columbia, MO, November 14, 2013.

Kassotis, Christopher D. and Nagel, Susan C. Estrogen and Androgen Receptor Activities of Hydraulic Fracturing Chemicals and Surface and Ground Water in a Drilling-dense Region. Poster Presentation. Copenhagen Workshop on Endocrine Disruptors: Copenhagen, Denmark, May 28-31, 2013.

Kassotis, Christopher D, Tillitt, Donald E., Davis, J. Wade, Hormann, Annette M, and Nagel, Susan C. Estrogen and Androgen Receptor Activities of Hydraulic Fracturing Chemicals and Surface and Ground Water in a Drilling-dense Region. Poster Presentation. Life Sciences Week: Columbia, MO, April 15-20, 2013.

Kassotis, Christopher D, Cook-Bailey, Audrey M, Hormann, Annette M, and Nagel, Susan C. Hormonal Activity of Surface and Ground Water in Natural Gas Drilling-dense Areas. Poster Presentation. Gordon Research Conference: Mount Snow, VT, June 2-8, 2012.

Kassotis, Christopher D, Cook-Bailey, Audrey M, Hormann, Annette M, and Nagel, Susan C. Hormonal Activity of Surface and Ground Water in Natural Gas Drilling-dense Areas. Poster Presentation. Life Sciences Week: Columbia, MO, April 16-21, 2012.

Kassotis, Christopher D, Cook-Bailey, Audrey M, Hormann, Annette M, and Nagel, Susan C. Hormonal Activity of Surface and Ground Water in Natural Gas Drilling-dense Areas. Poster Presentation. Health Sciences Research Day: Columbia, MO, November 3, 2011.

Kassotis, Christopher D, Cook-Bailey, Audrey M, Hormann, Annette M, Nagel, Susan C. Hormonal Activity of Surface and Ground Water in Natural Gas Drilling-dense Areas. Poster Presentation. Society for the Study of Reproduction: Portland, OR, July 31 - August 4, 2011.

TEACHING EXPERIENCE

Guest Lecture for Environmental Health, ENVIRON 537 Environmental and Human Health Impacts of Unconventional Oil and Gas Extraction Duke University, Durham, NC

(2/19)

Guest Lecture for Mechanisms in Environmental Toxicology, ENVIRON 819 Environmental Endocrine Disrupting Chemical Mixtures and Health Duke University, Durham, NC	(2/19)
Guest Lecture for Environmental Toxicology and Chemistry, ENVIRON 360 Introduction to Endocrine Disrupting Chemicals and Health Duke University, Durham, NC	(2/19)
Guest Lecture for Environmental Health, ENVIRON 537 Environmental Health Impacts of Unconventional Oil and Gas Extraction and Potential Adverse Health Outcomes Duke University, Durham, NC	(3/18) for
Guest Lecture for Environmental Toxicology and Chemistry, ENVIRON 360 Endocrine Disrupting Chemicals and Adverse Health Outcomes Duke University, Durham, NC	(2/17)
Guest Lecture for Environmental Health, ENVIRON 537 Environmental and Human Health Impacts of Unconventional Oil and Gas Extraction Duke University, Durham, NC	(3/16)
Guest Lecture for Ecotoxicology, ENVIRON 610 Endocrine Disrupting Chemicals and Adverse Health Outcomes Duke University, Durham, NC	(3/16)
Guest Lecture for Environmental Toxicology and Chemistry, ENVIRON 360 Endocrine Disrupting Chemicals and Adverse Health Outcomes Duke University, Durham, NC	(2/16)
Guest Lectures for Senior Seminar: Endocrine Disruptors (two sections) Hydraulic Fracturing and Endocrine Disrupting Chemicals Keene State College: Keene, NH	(9/13)
Guest Lecture for Environmental Geology Hydraulic Fracturing and Potential Environmental Consequences Keene State College: Keene, NH	(9/13)
Graduate Teaching Assistant for Mammalian Reproductive Biology, BioSci 4984 (1) University of Missouri, Columbia, MO	/12-5/12)
Graduate Teaching Assistant for Introductory Biology Laboratory, BioSci 1500 (8/ Two sections, Instructor of record University of Missouri, Columbia, MO	10-12/10)

MENTORING

Undergraduate students: Kara Klemp, B.S. Biological Sciences, University of Missouri; M.S. Genetic Counseling Katelyn Cinnamon, B.S. Nutritional Sciences, University of Missouri

Post-baccalaureate students: Christine Simbolon, Johns Hopkins University '20 Chiamaka Isiguzo, Kirksville College of Osteopathic Medicine '20

Laboratory technicians/staff: Jennifer Cornelius-Green, M.S. – Lab manager, Nagel Lab, University of Missouri

Graduate students: MacKenzie Purdy (Washburn), M.D. University of Missouri '14 Victoria Balise, Ph.D. University of Missouri '18 Anthony Luz, Ph.D. Duke University, '17 Kirsten Overdahl, Doctoral student, Duke Toxicology program '21 Matthew Ruis, Doctoral student, Duke Toxicology program '20 Rose Schrott, Doctoral student, Duke Toxicology program '21

PROFESSIONAL ACTIVITIES

Provided expert testimony for Garfield County, CO West Colorado Congress in lawsuit related to hydraulic fracturing wastewater injection well near drinking water intake, February 2017 Serviced as expert witness for Fayette County Commission in lawsuit related to hydraulic fracturing wastewater disposal well legislation, July 2016

Ad hoc manuscript reviewer for the following journals:

Environmental Health Perspectives, The Lancet Planetary Health, Science of the Total Environment, Environmental Science & Technology, Toxicological Sciences, Environmental Health, Frontiers in Endocrinology, Journal of the Endocrine Society, Environment International, Environmental Pollution, Environmental Research, Environmental Toxicology & Chemistry, Chemosphere, Endocrine Disruptors, Environmental and Molecular Mutagenesis, Environmental Science and Pollution Research, Marine Pollution Bulletin, Water, Water Science & Technology, and several other journals.

Service to the field:

Organizing Committee for "EDC-NC" Annual Meeting	April 2020
Member of Organizing Committee for HEEDS Early Career Mentoring Group, supporting early	
career researchers in the endocrine disruption community	2018-current
Member of Advisory Board for HEEDS, supporting endocrine disruption research and	
researchers, collaboration, and communication in a global context	2018-current
Organizing Committee for "EDC-NC" Annual Meeting	April 2019

Member of Oversight Committee for "EDC-NC" Group, supporting endocrine disruption		
research, collaboration, and communication across North Carolina	2018-current	
Organizing Committee for "EDC-NC" Annual Meeting	February 2018	
Co-Chair for Gordon Research Seminar on Environmental Endocrine Disruptors		
	June 2018	
Organizing Committee Member for Gordon Research Conference on Environmer Disruptors	ntal Endocrine June 2018	
Hosted Duke Toxicology Program Seminar Series Speaker, Dr. Leo Trasande Hosted Biological Sciences Seminar Series speaker, Dr. Lou Guillette	January 2017 April 2014	
Hosted Biological Sciences Seminar Series speaker, Dr. Tom Zoeller	March 2014	
Hosted Biological Sciences Seminar Series speaker, Dr. Heather Patisaul	March 2013	
Coordinator for Endocrine Disruptor Discussion Group, University of Missouri	2012-2014	
Society Memberships:		
The Endocrine Society	2012-current	
American Association for the Advancement of Science (AAAS)	2013-current	
Society of Toxicology (SOT), Mixtures Specialty Section	2018-current	
Society of Toxicology (SOT), Mechanisms Specialty Section	2019-current	
North Carolina Society of Toxicology (NC-SOT)	2018-current	

North Carolina Society of Toxicology (NC-SOT)

International Society of Exposure Science (ISES)	2018-2019
American Chemical Society (ACS), Environmental Chemistry Division	2013-2015
Society for the Study of Reproduction (SSR)	2011-2015