

## News at a Glance

February 8, 2017



During a special seminar enjoyed by CEG members, trainees and guests (10 Jan 2018), [Dr. Deborah Cory-Slechta](#) of the University of Rochester spoke on **Combined Effects of Developmental Lead Exposure and Prenatal Stress and their Transgenerational Consequences**. Dr. Cory-Slechta is a Professor of Environmental Medicine, Pediatrics and Public Health at the University of Rochester and Principal Investigator of its NIEHS Environmental Health Sciences Center. Dr. Cory-Slechta and CEG member **Kim N. Dietrich, PhD, MA**, have collaborated in various endeavors over more than three decades. Dr. Dietrich is Director of the Molecular Epidemiology in Children's Environmental Health Training Program in the UC College of Medicine (NIEHS T32 ES010957) and Dr. Cory-Slechta serves as a member of its External Advisory Board.

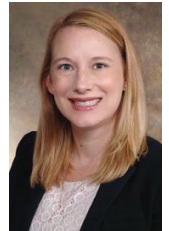


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CEG New Investigator Awardee **Kelly Brunst, PhD**, Assistant Professor of Environmental Health, has recently published several articles on the developmental effects of prenatal stress and environmental exposures, including

- **Brunst KJ**, Sanchez-Guerra M, Chiu YM, Wilson A, Coull BA, Kloog I, et al. Prenatal particulate matter exposure and mitochondrial dysfunction at the maternal-fetal interface: Effect modification by maternal lifetime trauma and child sex. *Environ Int.* 2017 Dec 14;112:49-58. PubMed [PMID: 29248865](#).
- Lipton LR, **Brunst KJ**, Kannan S, Ni YM, Ganguri HB, Wright RJ, Bosquet Enlow M. Associations among prenatal stress, maternal antioxidant intakes in pregnancy, and child temperament at age 30 months. *J Dev Orig Health Dis.* 2017 Dec;8(6):638-648. PubMed [PMID: 28651674](#).
- **Brunst KJ**, Sanchez Guerra M, Gennings C, Hacker M, Jara C, Bosquet Enlow M, Wright RO, Baccarelli A, Wright RJ. Maternal lifetime stress and prenatal psychological functioning and decreased placental mitochondrial DNA copy number in the PRISM Study. *Am J Epidemiol.* 2017 Dec 1;186(11):1227-36. PubMed [PMID: 28595325](#).



CEG member **Erin Haynes, MS, DrPH**, and fellow members of [Women in Medicine and Science \(WIMS\)](#) welcomed to UC [Dr. Teresa K. Woodruff](#), Thomas J. Watkins Professor of Obstetrics & Gynecology and Director of the Women's Health Research Institute at Northwestern University (1 Feb 2018). Topic: **Three Breakthroughs that Will Change Our Lives in the Next 10 Years**. WIMS in the UC College of Medicine is an affiliate of the "Group on Women in Medicine and Science" (GWIMS), a national organization run through the Association of American Medical Colleges. Dr. Haynes co-founded the UC chapter of WIMS in 2016 and currently serves as local president (2016–2018). Other CEG members who are also active in [WIMS](#) include Drs. **Zalfa Abdel-Malek, Shuk-Mei Ho, Susan Pinney, Dawn Kleindorfer, Grace LeMasters, Katie Burns** and **Kelly Brunst**.



CEG member **Kim Cecil, PhD** will speak on Children's Environmental Health and Neuroimaging for a February 9 NIEHS Webinar: **Children's Environmental Health and Neuroimaging: Using Neuroimaging to Detect Developmental Pathways Perturbed by Environmental Exposures**. Friday February 9, 1:00–2:00 PM EST. Registration required, click [here](#). Dr. Cecil is one of two presenters who are studying prenatal exposure to various neurotoxicants and nonchemical stressors affect brain structure and function in newborn infants and children.

CEG founding director, Professor Emeritus [Daniel W. Nebert, PhD](#), continues to contribute toward greater understanding of gene-environment interactions, including *via* this article in **NATURE** and a new article in the **Journal of Food and Chemical Toxicology**:

Schiering C, Wincent E, Metidji A, Iseppon A, Li Y, Potocnik AJ, Omenetti S, Henderson CJ, Wolf CR, **Nebert DW**, Stockinger B. Feedback control of AHR signalling regulates intestinal immunity. *Nature.* 2017 Feb 9;542(7640):242-245. doi: 10.1038/nature21080. [PMID: 28146477](#). PMCID: [PMC5302159](#)

Uno S, **Nebert DW**, Makishima M. Cytochrome P450 1A1 (CYP1A1) protects against nonalcoholic fatty liver disease caused by Western diet containing benzo[a]pyrene in mice. *Food Chem Toxicol.* 2018 Jan 20. pii: S0278-6915(18)30029-2. doi: 10.1016/j.fct.2018.01.029. [Epub ahead of print] [PMID: 29366871](#)

Perez Ramirez L, Wendroth H, Martin LJ, Pilipenko VV, He H, Kroner J, **Ryan PH, LeMasters GK, Lockey JE, Bernstein DI, Khurana Hershey GK**, Biagini Myers JM. High number of early respiratory infections in association with allergic sensitization to mold promotes childhood asthma. *J Allergy Clin Immunol.* 2018 Jan 26. pii: S0091-6749(18)30113-1. [PMID: 29378287](#).

New and Important Papers

