News at a Glance

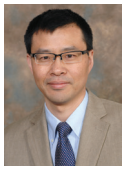
September 22, 2017

CEG
Center for Environmental Genetics

Several CEG investigators have recently merited major extramural funding awards, bolstering the Center's plans to become a global leader in the study of gene-environment (GxE) interactions and the advancement of precision-medicine based risk assessment, risk communication, disease monitoring, prevention, and therapies. New R01 and DoD awards for Drs. Kasper, Chen, Genter, *et al.*, total more than $2,000,000 in new funding over the next 5 years.

Funded by NIEHS award P30 ES006096
http://med.uc.edu/eh/centers/ceg

Susan Kasper, PhD
Stathmin phosphorylation as a target for blocking metastasis in prostate cancer, U.S. Department of Defense Idea Award, 09/30/17 – 09/29/20



Aimin Chen, MD, PhD
Developmental neurotoxicity of organophosphate and novel bromated flame retardants in children, NIEHS R01 ES028277, 09/30/17 – 06/30/22

Mary Beth Genter, PhD, DABT
Neuroprotective effects of carnosine in the olfactory system, U.S. Department of Defense, 09/30/17 -- 09/29/19

COEC Director Dr. Erin Haynes (far right) poses with colleagues Jen Veevers, PhD (3rd from left) and Rachael Shepler (3rd from right) following a meeting with Guernsey County Commissioners, Byesville Mayor Jay Jackson (2nd from right), and Guernsey County Emergency Management DirectorGerry Beckner, et al. Photo Credit: The Daily Jeffersonian

Mario Medvedovic, PhD, Director of the CEG Bioinformatics Core, has been named a **Biomedical Research Exemplar** by the Professionalism & Integrity (PI) in Research program of the Center for Clinical and Research Ethics, Washington University-St. Louis. Dr. Medvedovic leads the CEG Bioinformatics Core together with Dr. Jaroslaw Meller and is a principal investigator for the NIH-funded Big Data to Knowledge (BD2K-LINCS) Perturbation Data Coordination and Integration Center

New Publications

- **Vuong AM, Yolton K,** Poston KL, **Xie C,** Webster GM, Sjödin A, Braun JM, **Dietrich KN,** Lanphear BP, **Chen A.** Prenatal and postnatal polybrominated diphenyl ether (PBDE) exposure and measures of inattention and impulsivity in children. Neurotoxicol Teratol. 2017 Sep 11. pii: S0892-0362(17)30097-1. doi: 10.1016/j.ntt.2017.09.001. [Epub ahead of print] PMID: 28911831
- Pell T, Eliot M, **Chen A,** Lanphear BP, **Yolton K**, Sathyanarayana S, Braun JM. Parental concern about environmental chemical exposures and children's urinary concentrations of phthalates and phenols. J Pediatr. 2017 Jul;186:138-144.e3. PMID: 28476460; PMCID: PMC5484741
- Zipkin FB, Falciglia GA, Kuhnell P, **Haynes EN.** Development and evaluation of a manganese and iron food frequency questionnaire for pediatrics. Int J Environ Res Public Health. 2017 Sep 14;14(9). pii: E1060. doi: 10.3390/ijerph14091060. PMID: 28906436
- **Haynes EN**, Sucharew H, Hilbert TJ, Kuhnell P, Spencer A, Newman NC, Burns R, Wright R, Parsons PJ, **Dietrich KN**. Impact of air manganese on child neurodevelopment in East Liverpool, Ohio. Neurotoxicology. 2017 Sep 6. pii: S0161-813X(17)30177-8. doi: 10.1016/j.neuro.2017.09.001. [Epub ahead of print] PMID: 28888663

COEC Director **Erin N. Haynes, MS, DrPH;** COEC Program Coordinator Rachael Shepler; and team member | scientific writer Jen Veevers, PhD recently traveled to Cambridge, Ohio, to share with Guernsey County Commissioners and other civic leaders an update on an air quality study, funded by the CEG Pilot Project Program, that Haynes and her team conducted in Guernsey, Belmont, and Muskingum Counties.

As reported in **The Daily Jeffersonian** on August 23, 2017, the study collected air quality samples that were subsequently analyzed for more than 60 volatile organic compounds (VOCs) and formaldehyde. Air quality in the county is of concern to local commissioners in light of proposed and ongoing natural gas extraction activity.

The study was conducted in partnership with Guernsey County Emergency Management and other local community partners. The purpose of the meeting was to discuss preliminary results with the community before publication of the findings.

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