

Investigator(s):

Jennifer Bartlett, Postdoctoral Research Fellow, Department of Pediatrics; Paul B. McCray Jr., Professor, Department of Pediatrics

Project Title:

The role of PLUNC in responses to inhaled particles

Year Funded:

2009

Amount Received:

\$30,000

Publications:

Gakhar, L., Bartlett, J.A., Penterman, J., Mizrahi, D., Singh, P.K., Mallampalli, R.K., Ramaswamy, S., and McCray, P.B., Jr. (2010). PLUNC is a novel airway surfactant protein with anti-biofilm activity. PLoS One. 2010 Feb 9;5(2):e9098, PMID: 20161732, PMCID: PMC2817724.

Investigator(s):

Alejandro P. Comellas, Assistant Professor, Department of Internal Medicine

Project Title:

Particulate matter disrupts alveolar epithelial tight junctions

Year Funded:

2009

Amount Received:

\$30,000

Investigator(s):

Jong Sung Kim, Graduate Research Assistant, Department of Occupational and Environmental Health, Peter Thorne, Professor, Department of Occupational and Environmental Health, Tom Peters, Assistant Professor, Department of Occupational and Environmental Health; Andrea Adamcakova-Dodd, Postdoctoral Research Assistant, Department of Occupational and Environmental Health, Patrick T. O'Shaughnessy, Associate Professor, Department of Occupational and Environmental Health, Vicki H. Grassian, Professor, Department of Chemistry

Project Title:

In vitro evaluation of nanoparticle uptake, localization and cytotoxicity

Year Funded:

2009

Amount Received:

\$30,000

Investigator(s):

Wayne Sanderson, Associate Professor, Department of Occupational and Environmental Health;
Matthew Lozier, Graduate Research Assistant, Department of Occupational and Environmental Health

Project Title:

Pesticide exposure in Honduras: identifying determinants of exposure in an effort to reduce exposure

Year Funded:

2009

Amount Received:

\$10,000

Investigator(s):

Nervana Metwali, Postdoctoral Research Assistant, Department of Occupational and Environmental Health; Kimberly A. Hoppe, Research Assistant, Department of Occupational and Environmental Health; Peter S. Thorne, Professor, Department of Occupational and Environmental Health; Tamara T. Perry, Assistant Professor, Department of Pediatrics

Project Title:

Evaluation of the electrostatic dust fall collector for indoor air sampling

Year Funded:

2009

Amount Received:

\$30,000

Investigator(s):

Kai Wang, Associate Professor, Department of Biostatistics

Project Title:

Robust statistical methods for studies of susceptibility to environmentally induced diseases

Year Funded:

2009

Amount Received:

\$23,200

Publications:

Wang, K., Huang, J. A Simple Model-Free Resampling Method for Genome-Wide Association Studies. Genetic Analysis Workshop 17, submitted

Wang, K. Tests for difference in population structure between two samples via F-statistic with application to HapMap genotype data, Biometrics, to be submitted

Wang, K, Yin, J. Robust Statistical Methods for Association Studies of Gene-Environment Interaction. Under preparation.

Investigator(s):

Orarat Wangpradit, Graduate Research Assistant, Occupational and Environmental Health; Gregor Luthe, Visiting Professor, Department of Occupational and Environmental Health; Thomas M. Peters, Assistant Professor, Department of Occupational and Environmental Health; Peter S. Thorne, Professor, Department of Occupational and Environmental Health; Larry Robertson, Professor, Department of Occupational and Environmental Health

Project Title:

Airborne PCBs and their metabolites increase the production of prostaglandins in vivo

Year Funded:

2009

Amount Received:

\$29,400

Publications:

Wangpradit O, Mariappan S.V., Teesch M. L., Duffel M.W., Norstrom K., Robertson L.W., Luthe G. Oxidation of 4-chlorobiphenyl metabolites to electrophilic species by prostaglandin H synthase. Chem. Res. Toxicol. 2009; 22(1), 64-71. PMID: 19105592, PMCID: PMC2637223.

Investigator(s):

Wei Xie, Postdoctoral Fellow, Department of Occupational and Environmental Health; Larry W. Robertson, Professor, Department of Occupational and Environmental Health; Gabriele Ludewig, Associate Professor, Department of Occupational and Environmental Health

Project Title:

Neutrophil and respiratory tract DNA damage and mutagenesis: Exposure to airborne PCBs

Year Funded:

2009

Amount Received:

\$30,000

Publications:

W. Xie, K. Wang, L.W. Robertson, G. Ludewig. Investigation of mechanism(s) of DNA damage induced by 4-monochloro- biphenyl (PCB3) metabolites. Environment International 36(8), 950-961, 2010. PMID: 20129669, PMCID: PMC2888624.