Dear EOPH members,

Welcome to our December newsletter. We wish you happy holidays. This newsletter highlights the best publications from our membership in November. Please send us any of your “Things worth celebrating”, and your best work. We are especially interested in highlighting the best work of trainees and junior faculty members. Our goal for the new year is to collect your most interesting clinical cases for the newsletter and the website. We would welcome any input into what else you would like to see in the newsletter. Please contact us at kbailey@unmc.edu or Craig.Glazer@UTSouthwestern.edu with any noteworthy publications, achievements, or suggestions for future issues.

Your web committee co-chairs,
Recent publications

This section highlights some of our member’s best work in the month of November. This month’s list is especially long because it includes both published and ‘epub ahead of print’ articles. The January 2016 edition will include only the ‘epub ahead of print’. This will allow us to shift to an easier search method and make you aware of your colleagues most recent work.

Air Pollution

**Hydraulic Fracturing (Fracking) and the Clean Air Act.**

**Lifetime Exposure to Ambient Pollution and Lung Function in Children.**

**Commuting mode and pulmonary function in Shanghai, China.**

**Residential Proximity to Major Roadways Is Associated With Increased Levels of AC133+ Circulating Angiogenic Cells.**

Ozone

**Ozone-induced Nasal Type 2 Immunity in Mice is Dependent on Innate Lymphoid Cells.**

**Resistin deficiency in mice has no effect on pulmonary responses induced by acute ozone exposure.**

Particulate matter

**Dietary Supplementation with Olive Oil or Fish Oil and Vascular Effects of Concentrated Ambient Particulate Matter Exposure in Human Volunteers.**

**Particulate Air Pollution and Clinical Cardiovascular Disease Risk Factors.**
Association between Particulate Air Pollution and QT Interval Duration in an Elderly Cohort.

The Impact of Multi-pollutant Clusters on the Association between Fine Particulate Air Pollution and Microvascular Function.

Exposure to sub-chronic and long-term particulate air pollution and heart rate variability in an elderly cohort: the Normative Aging Study.

Wood Smoke Particle Sequesters Cell Iron to Impact a Biological Effect.

Prenatal Particulate Air Pollution and Asthma Onset in Urban Children. Identifying Sensitive Windows and Sex Differences.

Diesel exhaust

Neighborhood-Scale Spatial Models of Diesel Exhaust Concentration Profile Using 1-Nitropyrene and Other Nitroarenes

Pretreatment with Antioxidants Augments the Acute Arterial Vasoconstriction Caused by Diesel Exhaust Inhalation.

Nanoparticles

Amine modification of nonporous silica nanoparticles reduces inflammatory response following intratracheal instillation in murine lungs.

Single-Cell Mechanics Provides an Effective Means To Probe in Vivo Interactions between Alveolar Macrophages and Silver Nanoparticles.

Occupational exposure to nanoparticles at commercial photocopy centers.

Asthma

Effects of omalizumab on T lymphocyte function in inner-city children with asthma.

Alterations in DNA methylation and airway hyperreactivity in response to in utero exposure to environmental tobacco smoke
Isocyanates and work-related asthma: Findings from California, Massachusetts, Michigan, and New Jersey, 1993-2008.

Folate Deficiency, Atopy and Severe Asthma Exacerbations in Puerto Rican Children.

School Endotoxin Exposure and Asthma Morbidity in Inner-city Children.

Depression, Asthma, and Bronchodilator Response in a Nationwide Study of US Adults.


Cleaning products and short-term respiratory effects among female cleaners with asthma.

COPD


COPD (confusion over proper diagnosis) in the zone of maximum uncertainty.

The safety of anticholinergic bronchodilators for the treatment of chronic obstructive pulmonary disease.

Smoking
Gan WQ, Mannino DM, Jemal A. Tob Control. 2015 Nov;24(6):568-73

Marijuana
How beneficial is vaping cannabis to respiratory health compared to smoking?

Interstitial lung disease
The role of inducible nitric oxide synthase for interstitial remodeling of alveolar septa in surfactant protein D-deficient mice.

Climate Change

Saharan dust, climate variability, and asthma in Grenada, the Caribbean.

Pulmonary inflammation
Inhalation exposure to ethylene induces eosinophilic rhinitis and nasal epithelial remodeling in Fischer 344 rats.

Interferon-γ enhances both the anti-bacterial and the pro-inflammatory response of human mast cells to Staphylococcus aureus.

Association of Nrf2 with airway pathogenesis: lessons learned from genetic mouse models.

Functional polymorphisms in Nrf2: implications for human disease.

Airway epithelial dual oxidase 1 mediates allergen-induced IL-33 secretion and activation of type 2 immune responses.

Lung Cancer
Fine-mapping of chromosome 5p15.33 based on a targeted deep sequencing and high density genotyping identifies novel lung canc susceptibility loci.

Differential N-Glycosylation Patterns in Lung Adenocarcinoma Tissue.

CT Screening for Lung Cancer: Nonsolid Nodules in Baseline and Annual Repeat Rounds.

Environmental and Occupational Health
Cross-Sectional Study of Respiratory Symptoms, Spirometry, and Immunologic Sensitivity in Epoxy Resin Workers

Occupational Medicine Model and Asthma Military Recruitment.

Measuring multimorbidity in a working population: the effect on incident sickness absence.

Styrene-associated health outcomes at a windblade manufacturing plant.

Hospital Workers
Psychosocial work factors in new or recurrent injuries among hospital workers: a prospective study.

Sleep interruption associated with house staff work schedules alters circadian gene expression.

Silicosis
From silicosis to silica hazards: An experiment in medicine, history, and the social sciences.

"Acute" silicosis at the 1930 Johannesburg Conference on silicosis and in its aftermath: Controversies over a distinct entity later recognized as silicoproteinosis.

Agriculture
Farmworker Housing in the United States and Its Impact on Health.

Pesticide exposure and end-stage renal disease risk among wives of pesticide applicators in the Agricultural Health Study.

**Ambient Ammonia Exposures in an Agricultural Community and Pediatric Asthma Morbidity.**

**Reviews**

*Alcohol, Aldehydes, Adducts and Airways.*

*Environmental factors in cardiovascular disease.*

**Things worth celebrating**
I know that there are many good things that have happened to the talented people in our assembly this month. Unfortunately, no one sent us any information about their accomplishments. Please send your “things worth celebrating” to kbailey@unmc.edu.

**Educational Opportunities**

**Toxic Substances in the Workplace and the Environment and Updates in Occupational and Environmental Medicine**

**March 10-12, 2016 in San Francisco, CA**

Course Chairs: Paul D. Blanc, MD, MSPH; Robert Kosnik, MD, DiH; Timur Durrani, MD, MPH, MBA

This course is designed to provide occupational and environmental health professionals and persons from other health-related disciplines with a review and update of current topics in occupational and environmental medicine. The first day of the curriculum will focus on toxic substances in the workplace and the environment. A poster session the evening before will supplement the Toxic Substances course content. The second day and final half-day of the course will cover a multi-topic theme: Updates in Occupational and Environmental Health. Click here for more information.
Send us your interesting cases

The web committee is currently soliciting interesting pulmonary cases with an EOPH focus. These cases will be posted on the website and highlighted in this newsletter. They will be peer reviewed prior to acceptance, so this is a good opportunity for your trainees. kbailey@unmc.edu or craig.glazer@utsouthwestern.edu.

Funding Opportunities

RFA 15-1: Walter A. Rosenblith New Investigator Award
This award supports creative junior investigators, at Assistant Professor or equivalent level, with outstanding promise who are interested in the health effects of air pollution. Request for Applications 15-1 provides up to 3 years of funding for a project relevant to HEI's research interests, as outlined in the HEI Strategic Plan 2015-2020. More Information

RFPA 15-2: Health Effects of Air Pollution
Request for Preliminary Applications 15-2 provides an application mechanism for investigators whose area of interest falls outside of the topics targeted in other requests for applications from HEI. Of greatest interest is research that is relevant to HEI's current priorities, as outlined in the HEI Strategic Plan 2015-2020. RFPA 15-2 provides funding for two studies of up to 2 years or 2.5 years in duration, with a funding cap of $400,000 per study. More information