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EOPH Newsletter

EOPH web editorial committee

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Dear EOPH members,

Welcome to the July 2016 EOPH newsletter. Included are the “epub ahead of print” articles from our membership for June 2016. We are certain that our members are doing great things worthy of recognition. Please send us notice of these accomplishments so that we can include them in the August 2016 newsletter. We 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.

Sincerely,

Your web committee co-chairs,

Kristina Bailey and Craig Glazer



Recent publications

This section highlights some of our members' best work in June 2016. We have only included "epub ahead of print" articles in an effort to simplify our search method while making you aware of your colleagues' most recent work.

Air Pollution and Ozone

[Murine precision-cut lung slices exhibit acute responses following exposure to gasoline direct injection engine emissions.](#)

Maikawa CL, Zimmerman N, Rais K, Shah M, Hawley B, Pant P, Jeong CH, Delgado-Saborit JM, Volckens J, Evans G, Wallace JS, Godri Pollitt KJ. Sci Total Environ. 2016 Jun 28. PMID: 27369091

[Hypoxia-induced pulmonary arterial hypertension augments lung injury and airway reactivity caused by ozone exposure.](#)

Zychowski KE, Lucas SN, Sanchez B, Herbert G, Campen MJ. Toxicol Appl Pharmacol. 2016 Jun 7;305:40-45. PMID: 27286659

[Fine Particulate Matter, Residential Proximity to Major Roads, and Markers of Small Vessel Disease in a Memory Study Population.](#)

Wilker EH, Martinez-Ramirez S, Kloog I, Schwartz J, Mostofsky E, Koutrakis P, Mittleman MA, Viswanathan A. J Alzheimers Dis. 2016 Jun 30. PMID: 27372639

[Long-Term Exposure to Air Pollution and Increased Risk of Membranous Nephropathy in China.](#)

Xu X, Wang G, Chen N, Lu T, Nie S, Xu G, Zhang P, Luo Y, Wang Y, Wang X, Schwartz J, Geng J, Hou FF. J Am Soc Nephrol. 2016 Jun 30. PMID: 27365535

[Residential Proximity to Major Roads, Exposure to Fine Particulate Matter, and Coronary Artery Calcium: The Framingham Heart Study.](#)

Dorans KS, Wilker EH, Li W, Rice MB, Ljungman PL, Schwartz J, Coull BA, Kloog I, Koutrakis P, D'Agostino RB Sr, Massaro JM, Hoffmann U, O'Donnell CJ, Mittleman MA. Arterioscler Thromb Vasc Biol. 2016 Jun 16. PMID: 27312220

[Telomere Length, Long-Term Black Carbon Exposure, and Cognitive Function in a Cohort of Older Men: The VA Normative Aging Study.](#)

Colicino E, Wilson A, Frisardi MC, Prada D, Power MC, Hoxha M, Dioni L, Spiro A 3rd, Vokonas PS, Weisskopf MG, Schwartz JD, Baccarelli AA. Environ Health Perspect. 2016 Jun 3. PMID: 27259001

[Ambient Air Pollution Exposures and Risk of Parkinson Disease.](#)

Liu R, Young MT, Chen JC, Kaufman JD, Chen H. Environ Health Perspect. 2016 Jun 10. PMID: 27285422

Asthma

[Feasibility of Deploying Inhaler Sensors to Identify the Impacts of Environmental Triggers and Built Environment Factors on Asthma Short-Acting Bronchodilator Use.](#)

Su JG, Barrett MA, Henderson K, Humblet O, Smith T, Sublett JW, Nesbitt L, Hogg C, Van Sickle D, Sublett JL. Environ Health Perspect. 2016 Jun 24. PMID: 27340894 [Free Article](#)

[Risk and Protective Factors for Childhood Asthma: What Is the Evidence?](#)

Castro-Rodriguez JA, Forno E, Rodriguez-Martinez CE, Celedón JC. J Allergy Clin Immunol Pract. 2016 Jun 8. pii: S2213-2198(16)30139-8. PMID: 27286779

COPD

[Indoor particulate matter exposure is associated with increased black carbon content in airway macrophages of former smokers with COPD.](#)

Belli AJ, Bose S, Aggarwal N, DaSilva C, Thapa S, Grammer L, Paulin LM, Hansel NN. Environ Res. 2016 Jun 30;150:398-402. PMID: 27372063

[What is asthma-COPD overlap syndrome? Towards a consensus definition from a round table discussion.](#)

Sin DD, Miravittles M, Mannino DM, Soriano JB, Price D, Celli BR, Leung JM, Nakano Y, Park HY, Wark PA, Wechsler ME. Eur Respir J. 2016 Jun 23. PMID: 27338195

Population studies

[Serum polychlorinated biphenyls and their hydroxylated metabolites are associated with demographic and behavioral factors in children and mothers.](#)

Koh WX, Hornbuckle KC, Wang K, Thorne PS.
Environ Int. 2016 Jun 25. PMID: 27352881

[Development and Progression of Interstitial Lung Abnormalities in the Framingham Heart Study.](#)

Araki T, Putman RK, Hatabu H, Gao W, Dupuis J, Latourelle JC, Nishino M, Zazueta OE, Kurugol S, Ross JC, San José Estépar R, Schwartz DA, Rosas IO, Washko GR, O'Connor GT, Hunninghake GM. Am J Respir Crit Care Med. 2016 Jun 17. PMID: 27314401

[Community-based Participatory Research is Needed to Address Pulmonary Health Disparities.](#)

Harris DA, Pensa MA, Redlich CA, Pisani MA, Rosenthal MS.
Ann Am Thorac Soc. 2016 Jun 1. PMID: 27249657

[Temperature Variability and Mortality: A Multi-Country Study.](#)

Guo Y, Gasparrini A, Armstrong BG, Tawatsupa B, Tobias A, Lavigne E, Coelho MS, Pan X, Kim H, Hashizume M, Honda Y, Guo YL, Wu CF, Zanobetti A, Schwartz JD, Bell ML, Overcenco A, Punnasiri K, Li S, Tian L, Saldiva P, Williams G, Tong S. Environ Health Perspect. 2016 Jun 3. PMID: 27258598

Climate Change

[Documenting the Human Health Impacts of Climate Change in Tropical and Subtropical Regions.](#)

Kreslake JM, Sarfaty M, Maibach EW.
Am J Trop Med Hyg. 2016 Jun 13. pii: 16-0400. [Epub ahead of print]
PMID: 27296386

Occupational Exposures

[Differential respiratory health effects from the 2008 northern California wildfires: A spatiotemporal approach.](#)

Reid CE, Jerrett M, Tager IB, Petersen ML, Mann JK, Balmes JR.
Environ Res. 2016 Jun 15;150:227-235. PMID: 27318255

Obesity and weight gain among former World Trade Center workers and volunteers.

Napier CO, Mbadugha O, Bienenfeld LA, Doucette JT, Lucchini R, Luna-Sánchez S, de la Hoz RE. Arch Environ Occup Health. 2016 Jun 7:1-5.
PMID: 27268046

Breath-taking jobs: a case-control study of respiratory work disability by occupation in Norway.

Fell A, Abrahamsen R, Henneberger PK, Svendsen MV, Andersson E, Torén K, Kongerud J. Occup Environ Med. 2016 Jun 30. PMID: 27365181

Evaluation of Reported Fatality Data Associated with Workers Using Respiratory Protection in the United States (1990 - 2012).

Cowan DM, Benson S, Cheng TJ, Hecht S, Boulos NM, Henshaw J. Arch Environ Occup Health. 2016 Jun 24:0. PMID: 27341297

Agriculture

Rheumatoid Arthritis in Agricultural Health Study Spouses: Associations with Pesticides and Other Farm Exposures.

Parks CG, Hoppin JA, DeRoos AJ, Costenbader KH, Alavanja MC, Sandler DP. Environ Health Perspect. 2016 Jun 10. PMID: 27285288

Smoking and E-cigarettes

Electronic cigarette aerosols and copper nanoparticles induce mitochondrial stress and promote DNA fragmentation in lung fibroblasts.

Lerner CA, Rutagarama P, Ahmad T, Sundar IK, Elder A, Rahman I. Biochem Biophys Res Commun. 2016 Jun 23. PMID: 27343559

Associations Between Cigarette Print Advertising and Smoking Initiation Among African Americans.

Trinidad DR, Blanco L, Emery SL, Fagan P, White MM, Reed MB. J Racial Ethn Health Disparities. 2016 Jun 23. PMID: 27337978

[Differences in Health-related Quality of Life Between New Mexican Hispanic and Non-Hispanic White Smokers.](#)

Diaz AA, Petersen H, Meek P, Sood A, Celli B, Tesfaigzi Y. Chest. 2016 Jun 16. PMID: 27321735

Mechanisms

[Novel Innate Immune Genes Regulating the Macrophage Response to Gram Positive Bacteria.](#)

Alper S, Warg LA, De Arras L, Flatley BR, Davidson EJ, Adams J, Smith K, Wohlford-Lenane CL, McCray PB Jr, Pedersen BS, Schwartz DA, Yang IV. Genetics. 2016 Jun 29. PMID: 27356610

[Resolvin D2 decreases TLR4 expression to mediate resolution in human monocytes.](#)

Croasdell A, Sime PJ, Phipps RP. FASEB J. 2016 Jun 2. PMID: 27256622

[HIV Controller T Cells Effectively Inhibit Viral Replication in Alveolar Macrophages.](#)

Walker-Sperling V, Merlo C, Buckheit R, Lambert A, Tarwater P, Kirk G, Drummond B, Blankson J. AIDS Res Hum Retroviruses. 2016 Jun 28. PMID: 27353255

[Disease-Induced Disparities in Formation of the Nanoparticle-Biocorona and the Toxicological Consequences.](#)

Shannahan JH, Fritz KS, Raghavendra AJ, Podila R, Brown JM. Toxicol Sci. 2016 Jun 2. PMID: 27255384

[Repeated mouse lung exposures to Stachybotrys chartarum shift immune response from type 1 to type 2.](#) Rosenblum Lichtenstein JH, Molina RM, Donaghey TC, Hsu YH, Mathews JA, Kasahara DI, Park JA, Bordini A, Godleski JJ, Gillis BS, Brain JD. Am J Respir Cell Mol Biol. 2016 May 5.

Modeling, Diagnostics, and Therapeutics

Exposure Enriched Case-Control (EECC) Design for the Assessment of Gene-Environment Interaction.

Huque MH, Carroll RJ, Diao N, Christiani DC, Ryan LM. Genet Epidemiol. 2016 Jun 17. PMID: 27313007

A diagnostic model for chronic hypersensitivity pneumonitis.

Johannson KA, Elicker BM, Vittinghoff E, Assayag D, de Boer K, Golden JA, Jones KD, King TE Jr, Koth LL, Lee JS, Ley B, Wolters PJ, Collard HR. Thorax. 2016 May 31. pii: thoraxjnl-2016-208286. doi: 10.1136/thoraxjnl-2016-208286.

Historical Prediction Modeling Approach for Estimating Long-Term Concentrations of PM2.5 in Cohort Studies before the 1999

Implementation of Widespread Monitoring.

Kim SY, Olives C, Sheppard L, Sampson PD, Larson TV, Keller JP, Kaufman JD. Environ Health Perspect. 2016 Jun 24. PMID: 27340825

A clustering approach to identify severe bronchiolitis profiles in children.

Dumas O, Mansbach JM, Jartti T, Hasegawa K, Sullivan AF, Piedra PA, Camargo CA Jr. Thorax. 2016 Jun 23. PMID: 27339060

Efficacy of Inhaled Levalbuterol Compared to Albuterol in Horses with Recurrent Airway Obstruction.

Arroyo MG, Couëtill LL, Nogradi N, Kamarudin MM, Ivester KM. J Vet Intern Med. 2016 Jun 9. PMID: 27282625

Mass or total surface area with aerosol size distribution as exposure metrics for inflammatory, cytotoxic and oxidative lung responses in rats exposed to titanium dioxide nanoparticles.

Noël A, Truchon G, Cloutier Y, Charbonneau M, Maghni K, Tardif R. Toxicol Ind Health. 2016 Jun 2. PMID: 27256293

Things worth celebrating

We know that many of you have successes to share with us. Please help us expand this section by emailing us your good news: kbailey@unmc.edu or craig.glazer@utsouthwestern.edu.



Send us your interesting cases

The web committee is currently soliciting interesting pulmonary cases with an EOPH focus for additional [Quick Hits](#). 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.