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EOPH Newsletter

EOPH

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Dear EOPH members,

We hope you all are having a great summer. In this June 2016 issue of the EOPH newsletter, we share some recent “epub ahead of print” articles written by our membership. We would also like to welcome Christopher Rider and Hissam Haider to the EOPH web committee.

We would appreciate feedback for future issues. Please contact us with any noteworthy publications, achievements, or suggestions for future issues at kbailey@unmc.edu or craig.glazer@utsouthwestern.edu.

Sincerely,

Kristina Bailey and Craig Glazer



Recent publications

This section highlights some of our assembly members' exciting work that became available as "epubs ahead of print" in May. It is possible that our search may miss your best work, so please send your recent publications to: kbailey@unmc.edu.

Asbestos, Dusts, Endotoxin and Fungi

[Collegium Ramazzini: Comments on the 2014 Helsinki consensus report on asbestos.](#)

Baur X, Frank AL, Budnik LT, Weitowitz HJ, Oliver LC, Welch LS, Landrigan P, Lemen R; Collegium Ramazzini. Am J Ind Med. 2016 May 17.

[Characterization of the bacterial and fungal microbiome in indoor dust and outdoor air samples: a pilot study.](#)

Hanson B, Zhou Y, Bautista EJ, Urch B, Speck M, Silverman F, Muilenberg M, Phipatanakul W, Weinstock G, Sodergren E, Gold DR, Sordillo JE. Environ Sci Process Impacts. 2016 May 23.

[Imaging Phenotype of Occupational Endotoxin-Related Lung Function Decline.](#)

Lai PS, Hang JQ, Zhang FY, Sun J, Zheng BY, Su L, Washko GR,

[Beta-2 adrenergic agonists attenuate organic dust-induced lung inflammation.](#)

Romberger DJ, Heires AJ, Nordgren TM, Poole JA, Toews ML, West WW, Wyatt TA. Am J Physiol Lung Cell Mol Physiol. 2016 May 17.

[Environmental mold and mycotoxin exposures elicit specific cytokine and chemokine responses.](#)

Rosenblum Lichtenstein JH, Hsu YH, Gavin IM, Donaghey TC, Molina RM, Thompson KJ, Chi CL, Gillis BS, Brain JD. PLoS One. 2015 May 26; 10(5): e0126926.

Christiani DC. Environ Health Perspect. 2016 May 3.

[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.

[β-Glucan exacerbates allergic asthma independent of fungal sensitization and promotes steroid-resistant T_H2/T_H17 responses.](#)

Zhang Z, Biagini Myers JM, Brandt EB, et al. J Allergy Clin Immunol. 2016 Apr 20.

Asthma and Airway Diseases in Childhood

[Explaining Racial Disparities in Child Asthma Readmission Using a Causal Inference Approach.](#)

Beck AF, Huang B, Auger KA, Ryan PH, Chen C, Kahn RS. JAMA Pediatr. 2016 May 16.

[Advancing our understanding of infant bronchiolitis through phenotyping and endotyping: Clinical and molecular approaches.](#)

Hasegawa K, Dumas O, Hartert TV, Camargo CA. Expert Rev Respir Med. 2016 May 18.

[Patterns of Growth and Decline in Lung Function in Persistent Childhood Asthma.](#)

McGeachie MJ, Yates KP, Zhou X, et al. N Engl J Med. 2016 May 12; 374(19):1842-52.

Cancer

[Colorectal Cancer Screening in Vulnerable Patients: Promoting Informed and Shared Decisions.](#)

Brenner AT, Hoffman R, McWilliams A, Pignone MP, Rhyne RL, Tapp H, Weaver MA, Callan D, de Hernandez BU, Harbi K, Reuland DS. Am J Prev Med. 2016 May 18.

[Clinical characteristics and dose-volume histogram parameters associated with the development of pleural effusions in non-small cell lung cancer patients treated with chemoradiation therapy.](#)

Deek MP, Nagarajan S, Kim S, Ahmed I, Paul S, Scher ED, Listo M, Chen A, Aisner J, Hussain S, Haffty BG, Jabbour SK. Acta Oncol. 2016 May 24.

[The importance of the regimen of screening in maximizing the benefit and minimizing the harms.](#)

Henschke CI, Li K, Yip R, Salvatore M, Yankelevitz DF. Ann Transl Med. 2016 Apr; 4(8):153.

[Associations of red and processed meat with survival among patients with cancers of the upper aerodigestive tract and lung.](#)

Miles FL, Chang SC, Morgenstern H, Tashkin D, Rao JY, Cozen W, Mack T, Lu QY, Zhang ZF. Nutr Res. 2016 Jun; 36(6): 620-6.

Chronic Obstructive Pulmonary Disease

[Occupational exposure and risk of Chronic Obstructive Pulmonary Disease: a systematic review and meta-analysis.](#)

Alif SM, Dharmage SC, Bowatte G, Karahalios A, Benke G, Dennekamp M, Mehta AJ, Miedinger D, Künzli N, Probst-Hensch N, Matheson MC. Expert Rev Respir Med. 2016 May 17.

[Defining a COPD composite safety endpoint for demonstrating efficacy in clinical trials: results from the randomized, placebo-controlled UPLIFT® trial.](#)

Celli BR, Decramer M, Liu D, Metzdorf N, Asijee GM, Tashkin DP. Respir Res. 2016 May 4; 17(1): 48.

[Defining Airflow Obstruction.](#)

Eschenbacher WL. Chronic Obstr Pulm Dis (Miami). 2016; 3(2): 515-518.

[Meeting the challenge of COPD care delivery in the USA: a multiprovider perspective.](#)

Han MK, Martinez CH, Au DH, et al. Lancet Respir Med. 2016 May 12.

[Persistent and Newly Developed Chronic Bronchitis Are Associated with Worse Outcomes in Chronic Obstructive Pulmonary Disease.](#)

Kim V, Zhao H, Boriek AM, et al. Ann Am Thorac Soc. 2016 May 9.

[Health behaviors and their correlates among participants in the Continuing to Confront COPD International Patient Survey.](#)

Müllerová H, Landis SH, Aisanov Z, Davis KJ, Ichinose M, Mannino DM, Maskell J, Menezes AM, van der Molen T, Oh YM, Tabberer M, Han MK. Int J Chron Obstruct Pulmon Dis. 2016 Apr 27; 11: 881-90.

[Haemophilus influenzae in COPD: Effect of fluoroquinolones and macrolides on eradication and resistance.](#)

Pettigrew MM, Tsuji BT, Gent JF, Kong Y, Holden PN, Sethi S, Murphy TF. Antimicrob Agents Chemother. 2016 May 2.

[Effect of Endobronchial Coils vs Usual Care on Exercise Tolerance in Patients With Severe Emphysema: The RENEW Randomized Clinical Trial.](#)

Sciurba FC, Criner GJ, Strange C, et al. JAMA. 2016 May 24-31; 315(20): 2178-89.

Cigarette Smoke and Tobacco Products

[The E-cigarette Social Environment, E-cigarette Use, and Susceptibility to Cigarette Smoking.](#)

Barrington-Trimis JL, Berhane K, Unger JB, Cruz TB, Urman R, Chou CP, Howland S, Wang K, Pentz MA, Gilreath TD, Huh J, Leventhal AM, Samet JM, McConnell R. J Adolesc Health. 2016 May 6.

[Time Course of Heart Rate Variability Response to PM2.5 Exposure from Secondhand Smoke.](#)

Garza JL, Mittleman MA, Zhang J, Christiani DC, Cavallari JM. PLoS One. 2016 May 25; 11(5): e0154783.

[Cigarettes, Smokeless Tobacco, and Poly-Tobacco Among Workers in Three Dusty Industries.](#)

Graber JM, Delnevo CD, Manderski MT, Wackowski OA, Rose CS, Ahluwalia JS, Cohen RA. J Occup Environ Med. 2016 May; 58(5): 477-84.

[High-Intensity Sweeteners in Alternative Tobacco Products.](#)

Miao S, Beach ES, Sommer TJ, Zimmerman JB, Jordt SE. Nicotine Tob Res. 2016 May 23.

[Clinical Significance of Symptoms in Smokers with Preserved Pulmonary Function.](#)

Prescott G, Woodruff PG, Barr RG, et al. N Engl J Med. 2016 May 12; 374(19): 1811-21.

Effects of Metals and Sex on the Lung and Brain

[Gender differences in the duration of non-work-related sickness absence episodes due to musculoskeletal disorders.](#)

Arcas MM, Delclos GL, Torá-Rocamora I, Martínez JM, Benavides FG. J Epidemiol Community Health. 2016 May 13.

[A Method to Target and Isolate Airway-innervating Sensory Neurons in Mice.](#)

Kaelberer MM, Jordt SE. J Vis Exp. 2016 Apr 19.

[Size-Dependent Deposition, Translocation, and Microglial Activation of Inhaled Silver Nanoparticles in the Rodent Nose and Brain.](#)

Patchin ES, Anderson DS, Silva RM, Uyeminami DL, Scott GM, Guo T, Van Winkle LS, Pinkerton KE. Environ Health Perspect. 2016 May 6.

[Copper disrupts S-nitrosothiol signaling in activated BV2 microglia.](#)

Rossi-George A, Guo CJ. Neurochem Int. 2016 May 20.

Environmental and Occupational Factors Related to Cardiovascular Diseases

[Individual and Neighborhood Socioeconomic Status and the Association between Air Pollution and Cardiovascular Disease.](#)

Chi GC, Hajat A, Bird CE, Cullen MR, Griffin BA, Miller KA, Shih RA, Stefanick ML, Vedal S, Whitsel EA, Kaufman JD. Environ health Perspect. 2016 May 3.

[Association between air pollution and coronary artery calcification within six metropolitan areas in the USA \(the Multi-Ethnic Study of Atherosclerosis and Air Pollution\): a longitudinal cohort study.](#)

Kaufman JD, Adar SD, Barr RG, et al. Lancet. 2016 May 24.

[Concentration of Smaller High-Density Lipoprotein Particle \(HDL-P\) Is Inversely Correlated With Carotid Intima Media Thickening After Confounder Adjustment: The Multi Ethnic Study of Atherosclerosis \(MESA\).](#)

Kim DS, Li YK, Bell GA, Burt AA, Vaisar T, Hutchins PM, Furlong CE, Otvos JD, Polak JF, Arnan MK, Kaufman JD, McClelland RL, Longstreth WT Jr, Jarvik GP. J Am Heart Assoc. 2016 May 20; 5(5).

[Association Between Rotating Night Shift Work and Risk of Coronary Heart Disease Among Women.](#)

Vetter C, Devore EE, Wegrzyn LR, Massa J, Speizer FE, Kawachi I, Rosner B, Stampfer MJ, Schernhammer ES. JAMA. 2016 Apr 26; 315(16):1726-34.

[Does total antioxidant capacity modify adverse cardiac responses associated with ambient ultrafine, accumulation mode, and fine particles in patients undergoing cardiac rehabilitation?](#)

Wang M, Utell MJ, Schneider A, Zareba W, Frampton MW, Oakes D, Hopke PK, Wiltshire J, Kane C, Peters A, Breitner S, Chalupa D, Rich DQ. Environ Res. 2016 May 9; 149: 15-22.

Genetic Risks for Pulmonary and Neurological Diseases

[Cross-cancer genome-wide analysis of lung, ovary, breast, prostate and colorectal cancer reveals novel pleiotropic associations.](#)

Fehring G, Kraft P, Pharoah PD, et al. Cancer Res. 2016 Apr 20.

[Advancing Exposure Science through Chemical Data Curation and Integration in the Comparative Toxicogenomics Database.](#)

Grondin CJ, Davis AP, Wiegiers TC, King BL, Wiegiers JA, Reif DM, Hoppin JA, Mattingly CJ. Environ Health Perspect. 2016 May 12.

[A Polymorphic Antioxidant Response Element Links NRF2/sMAF Binding to Enhanced MAPT Expression and Reduced Risk of Parkinsonian Disorders.](#)

Wang X, Campbell MR, Lacher SE, Cho HY, Wan M, Crowl CL, Chorley BN, Bond GL, Kleeberger SR, Slattery M, Bell DA. Cell Rep. 2016 Apr 13.

[Novel genetic risk factors for asthma in African American children: Precision Medicine and the SAGE II Study.](#)

White MJ, Risse-Adams O, Goddard P, Contreras MG, Adams J, Hu D, Eng C, Oh SS, Davis A, Meade K, Brigino-Buenaventura E, LeNoir MA, Bibbins-Domingo K, Pino-Yanes M, Burchard EG. Immunogenetics. 2016 May 3.

Infections, Antimicrobials, and Hospital Care

[Linking Infectious and Narcology Care \(LINC\) in Russia: design, intervention and implementation protocol.](#)

Gnatienko N, Han SC, Krupitsky E, Blokhina E, Briden C, Chaisson CE, Cheng DM, Walley AY, Raj A, Samet JH. Addict Sci Clin Pract. 2016 May 4; 11(1): 10.

[Days of Therapy and Antimicrobial Days: Similarities and Differences Between Consumption Metrics.](#)

Rhodes NJ, Wagner JL, Gilbert EM, Crew PE, Davis SL, Scheetz MH. Infect Control Hosp Epidemiol. 2016 May 13:1-3.

Medical Education and Training in Cardiopulmonary Diseases

[Moving Forward From the Affordable Care Act to a Single-Payer System.](#)

Gaffney A, Woolhandler S, Angell M, Himmelstein DU. Am J Public Health. 2016 Jun; 106(6): 987-8.

[What's New in 10 Years? A Revised Cardiothoracic Curriculum for Diagnostic Radiology Residency with Goals and Objectives Related to General Competencies.](#)

Nguyen ET, Ackman JB, Rajiah P, Little B, Wu C, Bueno JM, Gilman MD, Christensen JD, Madan R, Laroia AT, Lee C, Kanne JP, Collins J. Acad Radiol. 2016 May 27.

[The Future of the Academic Cardiothoracic Surgeon: Results of the TSRA/TSDA In-Training Examination Survey.](#)

Stephens EH, Shah AA, Robich MP, et al. Ann Thorac Surg. 2016 Apr 27.

[Gender and Cardiothoracic Surgery Training: Specialty Interests, Satisfaction, and Career Pathways.](#)

Stephens EH, Robich MP, Walters DM, et al. Ann Thorac Surg. 2016 May 5.

Outdoor Air Pollution and Respiratory Diseases

[Investigating the Effects of Particulate Matter on House Dust Mite and Ovalbumin Allergic Airway Inflammation in Mice.](#)

Castañeda AR, Pinkerton KE. Curr Protoc Toxicol. 2016 May 4; 68(18): 1-18.

[Perception and reality of particulate matter exposure in New York City taxi drivers.](#)

Gany F, Bari S, Prasad L, Leng J, Lee T, Thurston GD, Gordon T, Acharya S, Zelikoff JT. J Expo Sci Environ Epidemiol. 2016 May 11.

[Prediction of fine particulate matter chemical components with a spatio-temporal model for the Multi-Ethnic Study of Atherosclerosis cohort.](#)

Kim SY, Sheppard L, Bergen S, Szpiro AA, Sampson PD, Kaufman JD, Vedal S. J Expo Sci Environ Epidemiol. 2016 May 18.

[Fine particulate matter components and emergency department visits among a privately insured population in Greater Houston.](#)

Liu S, Ganduglia CM, Li X, Delclos GL, Franzini L, Zhang K. Sci Total Environ. 2016 May 25; 566-567: 521-527.

[Diesel exposure suppresses natural killer cell function and resolution of eosinophil inflammation: a randomized controlled trial of exposure in allergic rhinitis.](#)

Pawlak EA, Noah TL, Zhou H, Chehrazhi C, Robinette C, Diaz-Sanchez D, Müller L, Jaspers I. Part Fibre Toxicol. 2016 May 6; 13(1): 24.

[The Year of Ozone.](#)

Schwartz J. Am J Respir Crit Care Med. 2016 May 15; 193(10): 1077-9.

[Estimating Causal Effects of Local Air Pollution on Daily Deaths: Effect of Low Levels.](#)

Schwartz J, Bind MA, Koutrakis P. Environ Health Perspect. 2016 May 20.

Prenatal and Early Life Exposures to Pollutants

[Association of Children's Urinary CC16 Levels with Arsenic Concentrations in Multiple Environmental Media.](#)

Beamer PI, Klimecki WT, Loh M, Van Horne YO, Sugeng AJ, Lothrop N, Billheimer D, Guerra S, Lantz RC, Canales RA, Martinez FD. Int J Environ Res Public Health. 2016 May 23; 13(5).

[Association of Changes in Air Quality With Bronchitic Symptoms in Children in California, 1993-2012.](#)

Berhane K, Chang CC, McConnell R, Gauderman WJ, Avol E, Rapaport E, Urman R, Lurmann F, Gilliland F. JAMA. 2016 Apr 12; 315(14): 1491-501.

[Prenatal Air Pollution Exposures, DNA Methyl Transferase Genotypes, and Associations with Newborn LINE1 and Alu Methylation and Childhood Blood Pressure and Carotid Intima-Media Thickness in the Children's Health Study.](#)

Breton CV, Yao J, Millstein J, Gao L, Siegmund KD, Mack W, Whitfield-Maxwell L, Lurmann F, Hodis H, Avol E, Gilliland FD. Environ Health Perspect. 2016 May 24.

[Early life exposure to environmental tobacco smoke alters immune response to asbestos via a shift in inflammatory phenotype resulting in increased disease development.](#)

Brown TA, Holian A, Pinkerton KE, Lee JW, Cho YH. Inhal Toxicol. 2016 Jul; 28(8):349-56.

[Decreased lung function in 7-year-old children with early-life organophosphate exposure.](#)

Raanan R, Balmes JR, Harley KG, Gunier RB, Magzamen S, Bradman A, Eskenazi B. Thorax. 2016 Feb; 71(2): 148-53.

Social Science Studies

[Shared decision-making in mental health care-A user perspective on decisional needs in community-based services.](#)

Grim K, Rosenberg D, Svedberg P, Schön UK. Int J Qual Stud Health Well-being. 2016 May 9; 11: 30563

[Alternative indicators for the risk of non-response bias: a simulation study.](#)

Nishimura R, Wagner J, Elliott MR. Int Stat Rev. 2016 Apr; 84(1):43-62.

[Alcohol Consumption in Ugandan HIV-Infected Household-Brewers Versus Non-Brewers.](#)

Thakrar K, Asiimwe SB, Cheng DM, Forman L, Ngabirano C, Muyindike WR, Emenyonu NI, Samet JH, Hahn JA. AIDS Behav. 2016 May 5.

Toxicant Exposures and Metabolic Disorders

[Particulate Air Pollution and Fasting Blood Glucose in Non-Diabetic Individuals: Associations and Epigenetic Mediation in the Normative Aging Study, 2000-2011.](#)

Peng C, Bind MC, Colicino E, Kloog I, Byun HM, Cantone L, Trevisi L, Zhong J, Brennan K, Dereix AE, Vokonas PS, Coull BA, Schwartz JD, Baccarelli AA. Environ Health Perspect. 2016 May 24.

[Patterns of Energy Drink Use and Associated Symptoms Among a Population of Connecticut Factory Workers.](#)

Pensa MA, Galusha DH, Stowe MH, Lefkowitz RY, Redlich CA. J Occup Environ Med. 2016 May; 58(5): e188-90.

[The Association Between Air Pollution Exposure and Glucose and Lipids Levels.](#)

Yitshak Sade M, Kloog I, Liberty IF, Schwartz J, Novack V. J Clin Endocrinol Metab. 2016 May 24.

[Repeated ozone exposure exacerbates insulin resistance and activates innate immune response in genetically susceptible mice.](#)

Zhong J, Allen K, Rao X, Ying Z, Braunstein Z, Kankanala SR, Xia C, Wang X, Bramble LA, Wagner JG, Lewandowski R, Sun Q, Harkema JR, Rajagopalan S. Inhal Toxicol. 2016 May 31:1-10.

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.



ATS 2017 – Call for Input

The ATS is calling for session proposals for the ATS 2017 Conference. Input for multiple session formats, including Postgraduate Courses, Scientific Symposia, Workshops, Sunrise Seminars, and Meet the Professor Seminars, can be submitted. Additional information can be found at <http://conference.thoracic.org/program/call-for-input/index.php>.

The deadline for proposals is June 29 at 5:00 pm ET.

Interesting Clinical Cases?

The web committee is currently calling for “Quick Hit” clinical cases, which will be posted on the website and highlighted in this newsletter. It is a good, peer-reviewed writing opportunity for trainees. Submit clinical cases to kbailey@unmc.edu or craig.glazer@utsouthwestern.edu.