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Volume 3| Issue 4
April 2017

Assembly on Environmental Occupational and Population Health (EOPH) Newsletter

EOPH

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Dear EOPH members,

We are excited to see everyone next month in Washington DC! In this April issue of the EOPH newsletter, we share some recent “epub ahead of print” articles and accomplishments from our members. Please also note the included EOPH and TID ATS 2017 programs/meetings that will be going on during the conference this year. These descriptions can be found immediately following the Recent Publications list.

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 tnordgren@unmc.edu.

Sincerely,

Your web committee co-chairs,

Kristina Bailey and Tara Nordgren



Recent publications

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

Environmental and Occupational Exposures

[Kerosene lighting contributes to household air pollution in rural Uganda.](#)

Muyanja D, Allen JG, Vallarino J, Valeri L, Kakuhikire B, Bangsberg DR, Christiani DC, Tsai AC, Lai PS. Indoor Air. 2017 Mar 7. PMID: 28267233

[Deaths from Non-Malignant Respiratory Disease in Styrene-Exposed Workers: Does Obliterative Bronchiolitis Contribute to Mortality?](#)

Nett RJ, Edwards NT, Ruder AM, Bertke SJ, Keumala I, Cox-Ganser J, Cummings KJ. Ann Am Thorac Soc. 2017 Mar 27. PMID: 28345967

Pulmonary Fibrosis

[Regulation of MUC5B Expression in Idiopathic Pulmonary Fibrosis.](#)

Helling BA, Gerber AN, Kadiyala V, Sasse SK, Pedersen BS, Sparks L, Nakano Y, Okamoto T, Evans CM, Yang IV, Schwartz DA. Am J Respir Cell Mol Biol. 2017 Mar 8. PMID:28272906

[Plasma Soluble Receptor for Advanced Glycation Endproducts in Idiopathic Pulmonary Fibrosis.](#)

Manichaikul A, Sun L, Borczuk AC, Onengut-Gumuscu S, Farber EA, Mathai SK, Zhang W, Raghu G, Kaufman JD, Hinckley-Stukovsky KD, Kawut SM, Jelic S, Liu W, Fingerlin TE, Schwartz DA, Sell JL, Rich SS, Barr RG, Lederer DJ. Ann Am Thorac Soc. 2017 Mar 1. PMID: 28248552

Clinical Guidelines, Criteria, Diagnostics

[Classification criteria for diffuse idiopathic skeletal hyperostosis: a lack of consensus.](#)

Kuperus JS, de Gendt EE, Oner FC, de Jong PA, Buckens SC, van der Merwe AE, Maat GJ, Regan EA, Resnick DL, Mader R, Verlaan JJ. Rheumatology (Oxford). 2017 Mar 27. PMID:28371859

[Code-Based Diagnostic Algorithms for Idiopathic Pulmonary Fibrosis: Case Validation and Improvement.](#)

Ley B, Urbania T, Husson G, Vittinghoff E, Brush DR, Eisner MD, Iribarren C, Collard HR. Ann Am Thorac Soc. 2017 Mar 29. PMID:28355518

[Epiphyseal Arterial Network and Inferior Retinacular Artery Seem Critical to Femoral Head Perfusion in Adults With Femoral Neck Fractures.](#)

Zhao D, Qiu X, Wang B, Wang Z, Wang W, Ouyang J, Silva RM, Shi X, Kang K, Xu D, Li C, Zhong S, Zhang Y, Pinkerton KE. Clin Orthop Relat Res. 2017 Mar 17. PMID: 28315184

[Early detection, clinical diagnosis, and management of lung disease from exposure to diacetyl.](#)

Rose CS. Toxicology. 2017 Mar 23. pii: S0300-483X(17)30096-3. PMID: 28344095

[Novel magnetic resonance imaging for assessment of bronchial stenosis in lung transplant recipients.](#)

Mahmood K, Ebner L, He M, Robertson SH, Wang Z, McAdams HP, Wahidi MM, Shofer SL, Huang YT, Driehuys B. Am J Transplant. 2017 Mar 29. PMID: 28371091

[Recommended Reading from Rutgers Robert Wood Johnson Medical School Pulmonary and Critical Care Medicine Fellows.](#)

Hussain S, Jagpal S, Baig SH, Len EK, Agarwal P. Am J Respir Crit Care Med. 2017 Mar 17. PMID: 28306322

[The Diagnosis and Management of Airway Complications Following Lung Transplantation.](#) Mahajan AK, Folch E, Khandhar SJ, Channick CL, Santacruz JF, Mehta AC, Nathan SD. Chest. 2017 Mar 5. pii: S0012-3692(17)30265-9. Review. PMID: 28274791

[Nursing teams: behind the charts.](#) Bae SH, Farasat A, Nikolaev A, Seo JY, Foltz-Ramos K, Fabry D, Castner J. J Nurs Manag. 2017 Mar 12. PMID: 28294446

Smoking, E-cigarettes, Smoking Cessation

[Pre-adolescent Receptivity to Tobacco Marketing and Its Relationship to Acquiring Friends Who Smoke and Cigarette Smoking Initiation.](#) Strong DR, Messer K, Hartman SJ, Nodora J, Vera L, White MM, Leas E, Pharris-Ciurej N, Borek N, Pierce JP. Ann Behav Med. 2017 Mar 2. PMID: 28255935

[Transcriptomic Analysis of Lung Tissue from Cigarette Smoke Induced Emphysema Murine Models and Human COPD Show Shared and Distinct Pathways.](#) Yun JH, Morrow J, Owen CA, Qiu W, Glass K, Lao T, Jiang Z, Perrella MA, Silverman EK, Zhou X, Hersh CP. Am J Respir Cell Mol Biol. 2017 Mar 1. PMID: 28248572

Population Health

[Isolated diastolic hypertension and incident heart failure in community-dwelling older adults: Insights from the Cardiovascular Health Study.](#) Sheriff HM, Tsimploulis A, Valentova M, Anker MS, Deedwania P, Banach M, Morgan CJ, Blackman MR, Fonarow GC, White M, Alagiakrishnan K, Allman RM, Aronow WS, Anker SD, Ahmed A. Int J Cardiol. 2017 Mar 1. pii: S0167-5273(17)31293-7. PMID: 28343761

[Association Between Cardiorespiratory Fitness and Lung Health from Young Adulthood to Middle Age.](#) Benck LR, Cuttica MJ, Colangelo LA, Sidney S, Dransfield MT, Mannino DM, Jacobs DR Jr, Lewis CE, Zhu N, Washko GR, Liu K, Carnethon MR, Kalhan R. Am J Respir Crit Care Med. 2017 Mar 1. PMID: 28248551

[Short-term effects of air temperature and mitochondrial DNA lesions within an older population.](#) Peng C, Sanchez-Guerra M, Wilson A, Mehta AJ, Zhong J, Zanolotti A, Brennan K, Dereix AE, Coull BA, Vokonas P, Schwartz J, Baccarelli AA. Environ Int. 2017 Mar 25;103:23-29. PMID: 28351767

Toxicology and Mechanisms

[TRPA1: Acrolein meets its target.](#) Achanta S, Jordt SE. Toxicol Appl Pharmacol. 2017 Mar 8. pii: S0041-008X(17)30111-4. PMID: 28284857

Cancer

[Characterization of the Anti-PD-1 Antibody REGN2810 and Its Antitumor Activity in Human PD-1 Knock-In Mice.](#) Burova E, Hermann A, Waite J, Potocky T, Lai V, Hong S, Liu M, Allbritton O, Woodruff A, Wu Q, D'Orvilliers A, Garnova E, Rafique A, Poueymirou W, Martin J, Huang T, Skokos D, Kantrowitz J, Popke J, Mohrs M, MacDonald D, Ioffe E, Olson W, Lowy I, Murphy A, Thurston G. Mol Cancer Ther. 2017 Mar 6. PMID: 28265006

Microbiome

[Breast Milk TGF \$\beta\$ is Associated with Neonatal Gut Microbial Composition.](#)

Sitarik AR, Bobbitt KR, Havstad SL, Fujimura KE, Levin AM, Zoratti EM, Kim H, Woodcroft KJ, Wegienka G, Ownby DR, Joseph CL, Lynch SV, Johnson CC. J Pediatr Gastroenterol Nutr. 2017 Mar 30. PMID: 28362692

[Lactobacillus johnsonii supplementation attenuates respiratory viral infection via metabolic reprogramming and immune cell modulation.](#)

Fonseca W, Lucey K, Jang S, Fujimura KE, Rasky A, Ting HA, Petersen J, Johnson CC, Boushey HA, Zoratti E, Ownby DR, Levine AM, Bobbit KR, Lynch SV, Lukacs NW. Mucosal Immunol. 2017 Mar 15. PMID: 28295020

[Helminth-induced alterations of the gut microbiota exacerbate bacterial colitis.](#) Su C, Su L, Li Y, Long SR, Chang J, Zhang W, Walker WA, Xavier RJ, Cherayil BJ, Shi HN. Mucosal Immunol. 2017 Mar 29. PMID: 28352104

Genomics

Weighted pseudolikelihood for SNP set analysis with multiple secondary outcomes in case-control genetic association studies. Sofer T, Schifano ED, Christiani DC, Lin X. Biometrics. 2017 Mar 27. PMID: 28346824

On the association analysis of genome-sequencing data: A spatial clustering approach for partitioning the entire genome into nonoverlapping windows. Loehlein Fier H, Prokopenko D, Hecker J, Cho MH, Silverman EK, Weiss ST, Tanzi RE, Lange C. Genet Epidemiol. 2017 Mar 20. PMID: 28318110

Asthma

Characteristics of Pediatric Emergency Revisits After an Asthma-Related Hospitalization. Johnson LH, Beck AF, Kahn RS, Huang B, Ryan PH, Olano KK, Auger KA. Ann Emerg Med. 2017 Mar 14. pii: S0196-0644(17)30030-6. PMID: 28302425

Viral Infections

Accelerated and accentuated neurocognitive aging in HIV infection. Sheppard DP, Iudicello JE, Morgan EE, Kamat R, Clark LR, Avci G, Bondi MW, Woods SP; HIV Neurobehavioral Research Program (HNRP) Group. J Neurovirol. 2017 Mar 20. PMID: 28321696

ATS 2017 International Conference

Full Registration is OPEN for the ATS 2017 Conference on May 19-24 in Washington, D.C. More information is available at <http://conference.thoracic.org/attendees/registration/index.php>.

ATS 2017 Section on Terrorism and Inhalation Disasters Membership Meeting:

Please join us for the **Section on Terrorism and Inhalation Disasters (TID) Membership Meeting** at the ATS International Conference in Washington DC.

TID Co-Chairs: Sadis Matalon, PhD & Carl White, MD



Judith Wolfe Laney, PhD

Biomedical Advanced Research and Development Authority (BARDA)
Department of Health and Human Services

Will be giving her talk entitled

*BARDA's Commitment to Developing
Countermeasures for Chemical Threats*

Time: Tuesday, May 23rd 4:30-6:30 pm
Location : Renaissance Washington, DC
Downtown Hotel, Renaissance Ballroom
A (Ballroom Level)



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ATS 2017 EOPH Program Committee Updates:

This year, the EOPH Program Committee is proud to highlight four scientific symposia that recognize timely topics relevant to the charge of the members of the Assembly.

On Sunday afternoon, Session A91, titled “Catching Fire: The Global Health Issue of Household Air Pollution” will tackle the worldwide problem of indoor air pollution that arises from burning of biomass such as wood, animal dung, and crop residues or coal for cooking and heating.

On Monday morning, Session B8 (“Realizing the Paris Climate Agreement to Improve Cardio-Pulmonary Health: Where Science meets Policy”) tackles the problem of climate change. Aside from prominent members of our Assembly, speaking in this session are former EPA Administrator, Carol M. Browner, and current US Senator Sheldon Whitehouse (D-RI). Monday afternoon sees Session B88 (“Gene-Environment Interactions in Interstitial Lung Disease”) tackle environment-induced genomic mechanisms in the development of interstitial lung disease.

On Wednesday morning, Session D7, “Air Pollution and Psychosocial Stress and the Origins of Lung Disease” tackles the role of early life psychosocial stressors in increasing susceptibility to the effects of air pollution. In addition to these Scientific Symposia, EOPH will have four Poster Discussion sessions and seven Thematic Poster Discussion sessions throughout the meeting. The Program Committee is certain that the membership will help to support the success of these sessions.

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 tnordgren@unmc.edu.

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 tnordgren@unmc.edu