

THE ASSEMBLY ON

# Environmental, Occupational, and Population Health

NEWSLETTER



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**Volume 5 | Issue 10**  
**November 2019**

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## Dear EOPH Members,

We hope you are continuing to enjoy the fall season! In this November issue of the EOPH Newsletter, we include some of our members' recent "epub ahead of print" articles from the month of October. If you have a recent publication that you would like to share in the upcoming newsletter, please send the citation or link to [tara.nordgren@medsch.ucr.edu](mailto:tara.nordgren@medsch.ucr.edu).

In addition, be sure to check out our "In The News" section at the end of the Newsletter to learn more about the outreach and advocacy our EOPH members have been involved in recently.

Are you interested in getting more involved with ATS and the EOPH assembly? Register [HERE](#) to indicate your interest!

Sincerely,

Your EOPH and TID Web Editorial Committee





## Recent Publications

This section highlights some of our assembly members' exciting research that was recently "e-published" or were submitted for inclusion in this newsletter. It is possible that our search may miss your best work, so please send your recent publications to [tara.nordgren@medsch.ucr.edu](mailto:tara.nordgren@medsch.ucr.edu).

### *Air Pollution and Environmental Exposures*

[Acute differences in pulse wave velocity, augmentation index, and central pulse pressure following controlled exposures to cookstove air pollution in the Subclinical Tests of Volunteers Exposed to Smoke \(SToVES\) study.](#)

Walker ES, Fedak KM, Good N, Balmes J, Brook RD, Clark ML, Cole-Hunter T, Dinunno F, Devlin RB, L'Orange C, Luckasen G, Mehaffy J, Shelton R, Wilson A, Volckens J, Peel JL.  
Environ Res. 2019 Oct 17;180:108831. doi: 10.1016/j.envres.2019.108831. [Epub ahead of print]

PMID:31648072

[Cardiopulmonary Health Effects of Airborne Particulate Matter: Correlating Animal Toxicology to Human Epidemiology.](#)

Pinkerton KE, Chen CY, Mack SM, Upadhyay P, Wu CW, Yuan W.  
Toxicol Pathol. 2019 Oct 23:192623319879091. doi: 10.1177/0192623319879091. [Epub ahead of print]

PMID:31645209

[The Potential Effects of Policy-Driven Air Pollution Interventions on Childhood Lung Development.](#)

Urman R, Garcia E, Berhane K, McConnell R, Gauderman WJ, Gilliland F.  
Am J Respir Crit Care Med. 2019 Oct 23. doi: 10.1164/rccm.201903-0670OC. [Epub ahead of print]

PMID:31644884

[Transcriptional profiling of the murine airway response to acute ozone exposure.](#)

Tovar A, Smith GJ, Thomas JM, Crouse WL, Harkema JR, Kelada SNP.  
Toxicol Sci. 2019 Oct 18. pii: kfz219. doi: 10.1093/toxsci/kfz219. [Epub ahead of print]

PMID:31626304

[Short-term exposures to particulate matter gamma radiation activities and biomarkers of systemic inflammation and endothelial activation in COPD patients.](#)

Huang S, Garshick E, Vieira CLZ, Grady ST, Schwartz JD, Coull BA, Hart JE, Laden F, Koutrakis P.  
Environ Res. 2019 Oct 19;180:108841. doi: 10.1016/j.envres.2019.108841. [Epub ahead of print]

PMID:31655330

[Early Life Exposure to Air Pollution and Autism Spectrum Disorder: Findings from a Multisite Case-Control Study.](#)

McGuinn LA, Windham GC, Kalkbrenner AE, Bradley C, Di Q, Croen LA, Fallin MD, Hoffman K, Ladd-Acosta C, Schwartz J, Rappold AG, Richardson DB, Neas LM, Gammon MD, Schieve LA, Daniels JL.  
Epidemiology. 2019 Oct 1. doi: 10.1097/EDE.0000000000001109. [Epub ahead of print]



PMID:31592868

[Toxic effects of chlorine gas and potential treatments: a literature review.](#)

Achanta S, Jordt SE.

Toxicol Mech Methods. 2019 Oct 1:1-13. doi: 10.1080/15376516.2019.1669244. [Epub ahead of print]

PMID:31532270

## *Research Methods, Therapeutics, and Clinical Strategies*

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[Methods in Lung Microbiome Research.](#)

Carney SM, Clemente JC, Cox MJ, Dickson RP, Huang YJ, Kitsios GD, Kloepfer KM, Leung JM, LeVan TD, Molyneaux PL, Moore BB, O'Dwyer DN, Segal LN, Garantziotis S; ATS Allergy, Immunology and Inflammation Assembly Working Group on Microbiome in Lung Disease.

Am J Respir Cell Mol Biol. 2019 Oct 29. doi: 10.1165/rcmb.2019-0273TR. [Epub ahead of print]

PMID:31661299

[A Perspective: Division of Lung Diseases at Fifty.](#)

Weinmann GG, Croxton TL, Aggarwal NR, Twery MJ, Kiley JP; National Heart, Lung, and Blood Institute, Division of Lung Diseases staff.

Am J Respir Crit Care Med. 2019 Oct 28. doi: 10.1164/rccm.201910-1999PP. [Epub ahead of print]

PMID:31657967

[Novel Reversible Fluorescent Glycan Linker for Functional Glycomics.](#)

Wei M, McKittrick TR, Mehta AY, Gao C, Jia N, McQuillan AM, Heimbürg-Molinario J, Sun L, Cummings RD.

Bioconjug Chem. 2019 Oct 25. doi: 10.1021/acs.bioconjchem.9b00613. [Epub ahead of print]

PMID:31600064

[Social Desirability Bias Impacts Self-Reported Alcohol Use Among Persons With HIV in Uganda.](#)

Adong J, Fatch R, Emenyonu NI, Cheng DM, Muyindike WR, Ngabirano C, Kekibiina A, Woolf-King SE, Samet JH, Hahn JA.

Alcohol Clin Exp Res. 2019 Oct 14. doi: 10.1111/acer.14218. [Epub ahead of print]

PMID:31610017

[Identifying nurses' concern concepts about patient deterioration using a standard nursing terminology.](#)

Kang MJ, Dykes PC, Korach TZ, Zhou L, Schnock KO, Thate J, Whalen K, Jia H, Schwartz J, Garcia JP, Knaplund C, Cato KD, Rossetti SC.

Int J Med Inform. 2019 Oct 31;133:104016. doi: 10.1016/j.ijmedinf.2019.104016. [Epub ahead of print]

PMID:31707264

[Earlier use of systemic immunosuppression is associated with fewer ophthalmic surgeries in paediatric non-infectious uveitis.](#)

Cheung CSY, Mireskandari K, Ali A, Silverman E, Tehrani N.



Br J Ophthalmol. 2019 Oct 11. pii: bjophthalmol-2019-314875. doi: 10.1136/bjophthalmol-2019-314875. [Epub ahead of print]

PMID:31604701

## *Interstitial Lung Disease*

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[MUC5B variant is associated with visually and quantitatively detected preclinical pulmonary fibrosis.](#)

Mathai SK, Humphries S, Kropski JA, Blackwell TS, Powers J, Walts AD, Markin C, Woodward J, Chung JH, Brown KK, Steele MP, Loyd JE, Schwarz MI, Fingerlin T, Yang IV, Lynch DA, Schwartz DA.

Thorax. 2019 Sep 26. pii: thoraxjnl-2018-212430. doi: 10.1136/thoraxjnl-2018-212430. [Epub ahead of print]

PMID:31558622

## *Asthma and Allergy*

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[Sex, obesity, diabetes, and exposure to particulate matter among patients with severe asthma: Scientific insights from a comparative analysis of open clinical data sources during a five-day hackathon.](#)

Fecho K, Ahalt SC, Arunachalam S, Champion J, Chute CG, Davis S, Gersing K, Glusman G, Hadlock J, Lee J, Pfaff E, Robinson M, Sid E, Ta C, Xu H, Zhu R, Zhu Q, Peden DB; Biomedical Data Translator Consortium.

J Biomed Inform. 2019 Oct 30;100:103325. doi: 10.1016/j.jbi.2019.103325. [Epub ahead of print]

PMID:31676459

[Household Endotoxin Reduction in the Louisa Environmental Intervention Project \(LEIP\) for Rural Childhood Asthma.](#)

Mendy A, Metwali N, Perry SS, Chrischilles EA, Wang K, Thorne PS.

Indoor Air. 2019 Oct 12. doi: 10.1111/ina.12610. [Epub ahead of print]

PMID:31605641

[Mental health, long-term medication adherence, and the control of asthma symptoms among persons exposed to the WTC 9/11 disaster.](#)

Brite J, Friedman S, de la Hoz RE, Reibman J, Cone J.

J Asthma. 2019 Oct 10:1-10. doi: 10.1080/02770903.2019.1672722. [Epub ahead of print]

PMID:31550944

[Severe asthma during childhood and adolescence: A longitudinal study.](#)

Ross KR, Gupta R, DeBoer MD, Zein J, Phillips BR, Mauger DT, Li C, Myers RE, Phipatanakul W, Fitzpatrick AM, Ly NP, Bacharier LB, Jackson DJ, Celedón JC, Larkin A, Israel E, Levy B, Fahy JV, Castro M, Bleecker ER, Meyers D, Moore WC, Wenzel SE, Jarjour NN, Erzurum SC, Teague WG, Gaston B.

J Allergy Clin Immunol. 2019 Oct 14. pii: S0091-6749(19)31318-1. doi: 10.1016/j.jaci.2019.09.030. [Epub ahead of print]

PMID:31622688





## *Cigarettes, E-cigs, and Cannabis Smoke Exposure*

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### [Vaping-Induced Acute Lung Injury: An Epidemic That Could Have Been Prevented.](#)

Balmes JR.

Am J Respir Crit Care Med. 2019 Oct 15. doi: 10.1164/rccm.201910-1903ED. [Epub ahead of print] No abstract available.

PMID:31613146

### [Lung function decline in former smokers and low-intensity current smokers: a secondary data analysis of the NHLBI Pooled Cohorts Study.](#)

Oelsner EC, Balte PP, Bhatt SP, Cassano PA, Couper D, Folsom AR, Freedman ND, Jacobs DR Jr, Kalhan R, Mathew AR, Kronmal RA, Loehr LR, London SJ, Newman AB, O'Connor GT, Schwartz JE, Smith LJ, White WB, Yende S.

Lancet Respir Med. 2019 Oct 9. pii: S2213-2600(19)30276-0. doi: 10.1016/S2213-2600(19)30276-0. [Epub ahead of print]

PMID:31606435

### [What are the respiratory effects of e-cigarettes?](#)

Gotts JE, Jordt SE, McConnell R, Tarran R.

BMJ. 2019 Sep 30;366:l5275. doi: 10.1136/bmj.l5275. Review. Erratum in: [BMJ. 2019 Oct 15;367:l5980.](#)

PMID:31570493

### [6. The science of flavour in tobacco products. In: WHO STUDY GROUP ON TOBACCO PRODUCT REGULATION. Report on the Scientific Basis of Tobacco Product Regulation: Seventh Report of a WHO Study Group.](#)

World Health Organization.

2019 Oct 24; 124-142, ISBN: 9789241210204-9.

## *Occupational Exposures*

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### [Military Occupational Specialty Codes: Utility In Predicting Inhalation Exposures In Post-9/11 Deployers.](#)

Zell-Baran LM, Meehan R, Wolff J, Strand M, Krefft SD, Gottschall EB, Macedonia TV, Gross JE, Sanders OL, Pepper GC, Rose CS.

J Occup Environ Med. 2018 Oct 7. doi: 10.1097/JOM.0000000000001731. [Epub ahead of print]

PMID:31592941

### [Association of Occupational Exposure to Disinfectants With Incidence of Chronic Obstructive Pulmonary Disease Among US Female Nurses.](#)

Dumas O, Varraso R, Boggs KM, Quinot C, Zock JP, Henneberger PK, Speizer FE, Le Moual N, Camargo CA Jr.

JAMA Netw Open. 2019 Oct 2;2(10):e1913563. doi: 10.1001/jamanetworkopen.2019.13563.

PMID:31626315



## *Cellular and Molecular Mechanisms*

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### [Lung cell exposure to secondary photochemical aerosols generated from OH oxidation of cyclic siloxanes.](#)

King BM, Janecek NJ, Bryngelson N, Adamcakova-Dodd A, Lersch T, Bunker K, Casuccio G, Thorne PS, Stanier CO, Fiegel J.

Chemosphere. 2019 Oct 15;241:125126. doi: 10.1016/j.chemosphere.2019.125126. [Epub ahead of print]

PMID:31683444

### [ILC2s mediate systemic innate protection by priming mucus production at distal mucosal sites.](#)

Campbell L, Hepworth MR, Whittingham-Dowd J, Thompson S, Bancroft AJ, Hayes KS, Shaw TN, Dickey BF, Flamar AL, Artis D, Schwartz DA, Evans CM, Roberts IS, Thornton DJ, Grencis RK.

J Exp Med. 2019 Oct 3. pii: jem.20180610. doi: 10.1084/jem.20180610. [Epub ahead of print]

PMID:31582416

### [Cadmium exposure during prenatal development causes testosterone disruption in multigeneration via SF-1 signaling in rats.](#)

Huang Y, Zhu J, Li H, Wang W, Li Y, Yang X, Zheng N, Liu Q, Zhang Q, Zhang W, Liu J.

Food Chem Toxicol. 2019 Oct 22:110897. doi: 10.1016/j.fct.2019.110897. [Epub ahead of print]

PMID:31654709

## *Cancer*

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### [Novel genetic variants in KIF16B and NEDD4L in the endosome-related genes are associated with non-small cell lung cancer survival.](#)

Yang S, Tang D, Zhao YC, Liu H, Luo S, Stinchcombe TE, Glass C, Su L, Shen S, Christiani DC, Wang Q, Wei Q.

Int J Cancer. 2019 Oct 16. doi: 10.1002/ijc.32739. [Epub ahead of print]

PMID:31618441

### [NO<sup>•</sup> /RUNX3/kynurenine metabolic signaling enhances disease aggressiveness in pancreatic cancer.](#)

Wang L, Tang W, Yang S, He P, Wang J, Gaedcke J, Ströbel P, Azizian A, Ried T, Gaida MM, Yfantis HG, Lee DH, Lal A, Van den Eynde BJ, Alexander HR, Ghadimi BM, Hanna N, Hussain SP.

Int J Cancer. 2019 Oct 14. doi: 10.1002/ijc.32733. [Epub ahead of print]

PMID:31609478

### [Identifying Similarities and Disparities Between DNA Copy Number Changes in Cancer and Matched Blood Samples.](#)

Kachouie NN, Deebani W, Christiani DC.

Cancer Invest. 2019 Oct 10:1-11. doi: 10.1080/07357907.2019.1667368. [Epub ahead of print]

PMID:31584296



## *Education and Certification*

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### [Leading and Sustaining Curricular Change: Workshop Proceedings from the 2018 Sex and Gender Health Education Summit.](#)

Templeton K, Halpern L, Jumper C, Carroll RG.

J Womens Health (Larchmt). 2019 Oct 24. doi: 10.1089/jwh.2018.7387. [Epub ahead of print]

PMID:31647354

### [The NIOSH B Reader Certification Program-An Update Report \(1987-2018\) and Future Directions.](#)

Halldin CN, Hale J, Weissman D, Attfield M, Parker JE, Petsonk E, Cohen R, Markle T, Blackley D, Wolfe A, Tallaksen R, Laney AS.

J Occup Environ Med. 2019 Oct 15. doi: 10.1097/JOM.0000000000001735. [Epub ahead of print]

PMID:31626070

## *Diet*

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### [Associations of Prenatal Dietary Inflammatory Potential with Childhood Respiratory Outcomes in Project Viva.](#)

Hanson C, Rifas-Shiman SL, Shivappa N, Wirth MD, Hebert JR, Gold D, Camargo CA Jr, Sen S, Sordillo JE, Oken E, Litonjua AA.

J Allergy Clin Immunol Pract. 2019 Oct 31. pii: S2213-2198(19)30899-2. doi: 10.1016/j.jaip.2019.10.010. [Epub ahead of print]

PMID:31678301

## *Genetics, Epigenetics, and Genomics*

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### [Identification of CFTR variants in Latino patients with cystic fibrosis from the Dominican Republic and Puerto Rico.](#)

Zeiger AM, McGarry ME, Mak ACY, Medina V, Salazar S, Eng C, Liu AK, Oh SS, Nuckton TJ, Jain D, Blackwell TW, Kang HM, Abecasis G, Oñate LC, Seibold MA, Burchard EG, Rodriguez-Santana J.

Pediatr Pulmonol. 2019 Oct 30. doi: 10.1002/ppul.24549. [Epub ahead of print]

PMID:31665830

### [The Effects of Rare \*SERPINA1\* Variants on Lung Function and Emphysema in SPIROMICS.](#)

Ortega VE, Li X, O'Neal WK, Lackey L, Ampleford E, Hawkins GA, Grayeski PJ, Laederach A, Barjaktarevic I, Barr RG, Cooper C, Couper D, Han MK, Kanner RE, Kleerup EC, Martinez FJ, Paine lii R, Peters SP, Pirozzi C, Rennard SI, Woodruff PG, Hoffman EA, Meyers DA, Bleecker ER; NHLBI Subpopulations and Intermediate Outcomes Measures in COPD Study (SPIROMICS).

Am J Respir Crit Care Med. 2019 Oct 29. doi: 10.1164/rccm.201904-0769OC. [Epub ahead of print]

PMID:31661293

### [Maternal Gestational Diabetes Mellitus and Newborn DNA Methylation: Findings From the Pregnancy and Childhood Epigenetics Consortium.](#)



Howe CG, Cox B, Fore R, Jungius J, Kvist T, Lent S, Miles HE, Salas LA, Rifas-Shiman S, Starling AP, Yousefi P, Ladd-Acosta C, Baccarelli A, Binder EB, Chatzi VL, Czamara D, Dabelea D, DeMeo DL, Ghantous A, Herceg Z, Kajantie E, Lahti JMT, Lawlor DA, Litonjua A, Nawrot TS, Nohr EA, Oken E, Pizzi C, Plusquin M, Rääkkönen K, Relton CL, Sharp GC, Sørensen TIA, Sunyer J, Vrijheid M, Zhang W, Hivert MF, Breton CV.

Diabetes Care. 2019 Oct 10. pii: dc190524. doi: 10.2337/dc19-0524. [Epub ahead of print]

PMID:31601636

## *Chronic Obstructive Pulmonary Disease*

### [The Burden of Rural COPD: Analyses from the National Health and Nutrition Examination Survey \(NHANES\).](#)

Raju S, Brigham EP, Paulin LM, Putcha N, Balasubramanian A, Hansel NN, McCormack MC.

Am J Respir Crit Care Med. 2019 Oct 23. doi: 10.1164/rccm.201906-1128LE. [Epub ahead of print] No abstract available.

PMID:31644882

### [Metoprolol for the Prevention of Acute Exacerbations of COPD.](#)

Dransfield MT, Voelker H, Bhatt SP, Brenner K, Casaburi R, Come CE, Cooper JAD, Criner GJ, Curtis JL, Han MK, Hatipoğlu U, Helgeson ES, Jain VV, Kalhan R, Kaminsky D, Kaner R, Kunisaki KM, Lambert AA, Lammi MR, Lindberg S, Make BJ, Martinez FJ, McEvoy C, Panos RJ, Reed RM, Scanlon PD, Sciruba FC, Smith A, Sriram PS, Stringer WW, Weingarten JA, Wells JM, Westfall E, Lazarus SC, Connett JE; BLOCK COPD Trial Group.

N Engl J Med. 2019 Oct 20. doi: 10.1056/NEJMoa1908142. [Epub ahead of print]

PMID:31633896

### [High Deductible Health Plans and Healthcare Access, Use, and Financial Strain in Those with COPD.](#)

Gaffney A, White A, Hawks L, Himmelstein D, Woolhandler S, Christiani DC, McCormick D.

Ann Am Thorac Soc. 2019 Oct 10. doi: 10.1513/AnnalsATS.201905-400OC. [Epub ahead of print]

PMID:31599647

## *Updates from Terrorism and Inhalation Disasters Section*



### **Is tear gas in Hong Kong making polluted city take a toxic turn?**

Read more at <https://www.scmp.com/comment/letters/article/3038222/tear-gas-hong-kong-making-polluted-city-take-toxic-turn>





(Tear gas fired during clashes between anti-government protesters and anti-riot police at the junction of Nathan Road and Argyle Street in Mong Kok on October 27. Photo: Sam Tsang)

**The effects of tear gas are not acute:**

Widespread skin pathologies reported in tear gas-exposed areas in Hong Kong. Possible sensitization or reactions to toxic chemicals derived from tear gas. Some (unconfirmed) reports say that at least 10,000 tear gas canisters have been used against protesters in Hong Kong.

<https://yp.scmp.com/news/hong-kong/article/114738/hong-kong-protests-news-reporter-diagnosed-chloracne-after-exposure>



(from public media/social media)

**Morbidity and Mortality Weekly Report (MMWR) from CDC:**

Characteristics of Hospitalized and Nonhospitalized Patients in a Nationwide Outbreak of E-cigarette, or Vaping, Product Use–Associated Lung Injury — United States, November 2019

[https://www.cdc.gov/mmwr/volumes/68/wr/mm6846e1.htm?s\\_cid=mm6846e1\\_w](https://www.cdc.gov/mmwr/volumes/68/wr/mm6846e1.htm?s_cid=mm6846e1_w)

Update: Interim Guidance for Health Care Providers for Managing Patients with Suspected E-cigarette, or Vaping, Product Use–Associated Lung Injury — United States, November 2019

[https://www.cdc.gov/mmwr/volumes/68/wr/mm6846e2.htm?s\\_cid=mm6846e2\\_w](https://www.cdc.gov/mmwr/volumes/68/wr/mm6846e2.htm?s_cid=mm6846e2_w)



**Webinar of interest:**

**Smoke signals: examining the toxicities of wildfire exposures**

**Featured Speakers:**

Dr. Mary Rice – Assistant Professor of Medicine, Beth Israel Deaconess Medical Center

Dr. M. Ian Gilmour – Principal Investigator, Center for Public Health and Environmental Assessment US Environmental Protection Agency

**Date:** December 13, 2019

**Time:** 12 pm-1 pm EST (1 hour)

Attendee Registration Link: <https://aim-hq.webex.com/aim-hq/onstage/g.php?MTID=e1ddec5671a9c2df791498ac74ddb6224>

**Description:** Wildfires are increasing in size and severity, with adverse impacts on air quality and respiratory health. Wildfire smoke is positively associated with cardiopulmonary morbidity and mortality, including medication usage, emergency department visits, and hospitalizations. However, the clinical impacts and molecular mechanisms are not well characterized. Therefore, defining the toxicities of wildfire exposure is critical. This webinar will introduce the epidemiological data regarding community exposures during wildfires (Dr. Mary Rice), and then link the chemistry and combustion conditions of biomass smoke emissions with toxicological effects (Dr. M. Ian Gilmour). The webinar will cover human, rodent and *in vitro* studies to date.

Topics discussed will include:

- Known and predicted cardiopulmonary health effects
- How the fuel and combustion conditions can alter toxicity
- Susceptible populations
- Potential intervention and communication strategies
- Expert Review

Webinar moderators:

Dr. Kymberly Gowdy – Assistant Professor of Pharmacology and Toxicology, East Carolina University

Dr. Amie Lund – Assistant Professor of Biological Sciences, University of North Texas

Dr. Lisa Miller – Professor of Anatomy, Physiology, & Cell Biology, University of California, Davis

**Recent publications from TID members and relevant to TID section:**

Donevant SB, Svendsen ER, Richter JV, et al. Designing and executing a functional exercise to test a novel informatics tool for mass casualty triage. *J Am Med Inform Assoc.* 2019;26(10):1091–1098. doi:10.1093/jamia/ocz087

Howell AV, Vena JE, Cai B, et al. Temporal Trends in Cardiovascular Hospital Discharges Following a Mass Chlorine Exposure Event in Graniteville, South Carolina. *Front Public Health.* 2019;7:112. Published 2019 May 8. doi:10.3389/fpubh.2019.00112

Lieberman-Cribbin W, Tuminello S, Gillezeau C, et al. Complementary biobank of rodent tissue samples to study the effect of World Trade Center exposure on cancer development. *J Transl Med.* 2019;17(1):342. Published 2019 Oct 11. doi:10.1186/s12967-019-2089-7



Gao P, Hu J, Song J, et al. Inhalation bioaccessibility of polycyclic aromatic hydrocarbons in heavy PM<sub>2.5</sub> pollution days: Implications for public health risk assessment in northern China. *Environ Pollut.* 2019;255(Pt 2):113296. doi:10.1016/j.envpol.2019.113296

Moon DH, Kang DY, Haam SJ, et al. Hydrogen gas inhalation ameliorates lung injury after hemorrhagic shock and resuscitation. *J Thorac Dis.* 2019;11(4):1519–1527. doi:10.21037/jtd.2019.03.23

Rossiello MR, Szema A. Health Effects of Climate Change-induced Wildfires and Heatwaves. *Cureus.* 2019;11(5):e4771. Published 2019 May 28. doi:10.7759/cureus.4771

de la Hoz RE, Jeon Y, Reeves AP, et al. Increased pulmonary artery diameter is associated with reduced FEV<sub>1</sub> in former World Trade Center workers. *Clin Respir J.* 2019;13(10):614–623. doi:10.1111/crj.13067

Liu Y, Wang S, Hu J, et al. Bioaccessibility of polycyclic aromatic hydrocarbons in central air conditioner filter dust and its occupational exposure to shopping mall employees. *Environ Pollut.* 2019;246:896–903. doi:10.1016/j.envpol.2018.12.093

Parmentier-Decrucq E, Mathieu D. Intoxication au monoxyde de carbone [Carbon monoxide poisoning]. *Rev Prat.* 2019;69(1):75–79.

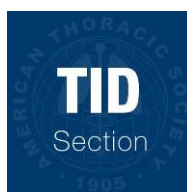
### **Job openings:**

The Jordt Lab at Duke University School of Medicine is looking for a veterinary research scientist. Please see the job posting and spread this to your colleagues/trainees/friends who might be interested in this position. Please click [HERE](#) for more details.

The lab is also looking for postdoctoral research scientists to work on inhalational toxicology projects. Interested candidates should send their CV and a cover letter to [sven.jordt@duke.edu](mailto:sven.jordt@duke.edu) or [satya.achanta@duke.edu](mailto:satya.achanta@duke.edu).



TID section is on [twitter](#)  
Follow TID section on [@ATSTIDSection](#)



TID section is soliciting ideas for putting together **podcasts, webinars, and journal clubs**. Please contact Satya Achanta, DVM, PhD ([satya.achanta@duke.edu](mailto:satya.achanta@duke.edu)), Web Director of TID section, if you are interested to lead any of these activities. Also, please email your publications, news articles, or presentations pertinent to TID section to include in the future EOPH newsletters.



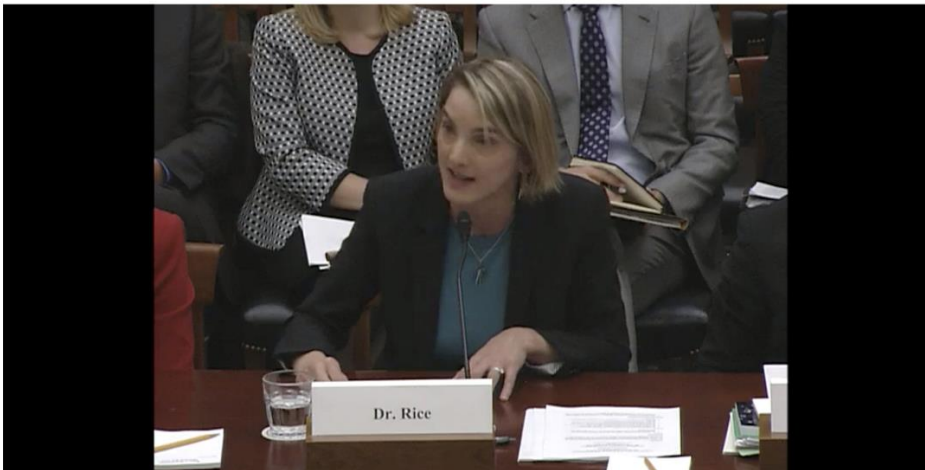
## In the News

We thank EOPH Assembly Member Dr. Mary Rice who recently gave testimony in congress on behalf of ATS on the EPA's proposed "Transparency" rule:

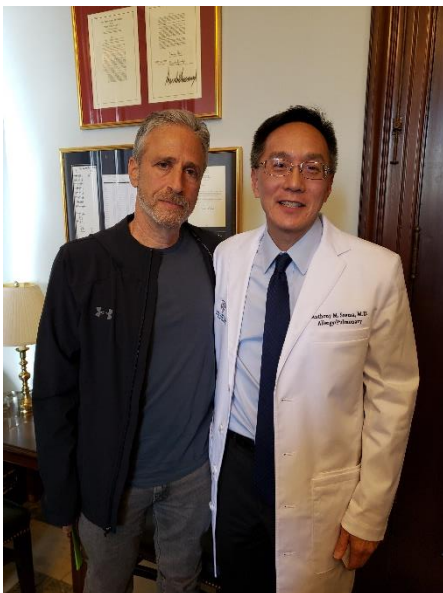
<https://science.house.gov/imo/media/doc/Rice%20Testimony.pdf>

### Panel 2:

- **Dr. Linda S. Birnbaum**, Former Director, National Institute of Environmental Health Sciences (NIEHS) 2009-2019 [Truth in Testimony]
- **Dr. Mary B. Rice**, Assistant Professor of Medicine, Harvard Medical School; Pulmonary and Critical Care Physician, Beth Israel Deaconess Medical Center [Truth in Testimony]
- **Dr. David Allison**, Dean, School of Public Health, Indiana University-Bloomington; Member, "Reproducibility and Replicability in Science" Committee, The National Academies of Sciences, Engineering, and Medicine [Truth in Testimony]
- **Dr. Brian Nosek**, Co-Founder and Executive Director, Center for Open Science [Truth in Testimony]
- **Dr. Todd Sherer**, CEO, The Michael J. Fox Foundation for Parkinson's Research [Truth in Testimony]



Building on his recent success with 9/11 responders, Jon Stewart with Dr. Anthony Szema organized a bipartisan team from the House of Representatives and Senate to work with multiple Veterans Service Organizations on burn pit care and research legislation, Russell Senate Building, October 28 2019:







Numerous EOPH Assembly members have been in the news to share information regarding the vaping youth epidemic and lung injury:

- Dan Croft, MD from University of Rochester Medical Center was recently featured on NBC's nightly news program (9/11/19). Click [HERE](#) to see the video—Dr. Croft is at minute 1:30 in the video discussing the inflammatory effects of e-cigarette aerosols.
  - Ilona Jaspers, PhD from the University of North Carolina has an article on Heraldnet, titled "[Viewpoints: A cloud of suspicion envelops e-cigarettes](#)".
  - Chris Carlsten, MD from the University of British Columbia was interviewed for the Times Colonist report titled, "[About 21% of B.C. teens have tried vaping despite warnings: survey](#)."
  - Sven-Eric Jordt, PhD from Duke University was interviewed for the LA Times article titled, "[Hoodies, watches and other camouflaged vaping devices confound parents, schools](#)."
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