

THE ASSEMBLY ON

Environmental, Occupational, and Population Health

NEWSLETTER



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Dear EOPH Members,

Happy New Year! In this January 2020 issue of the EOPH Newsletter, we include some of our members' recent "epub ahead of print" articles from the month of December 2019. 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.

Have you registered to attend the ATS 2020 Meeting in Philadelphia yet? You can learn more about this year's programming and register to attend with early registration rates [HERE](#).

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 Committees





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.

Air Pollution and Environmental Exposures

Association of Long-term Ambient Ozone Exposure With Respiratory Morbidity in Smokers.

Paulin LM, Gasset AJ, Alexis NE, Kirwa K, Kanner RE, Peters S, Krishnan JA, Paine R 3rd, Dransfield M, Woodruff PG, Cooper CB, Barr RG, Comellas AP, Pirozzi CS, Han M, Hoffman EA, Martinez FJ, Woo H, Peng RD, Fawzy A, Putcha N, Breyse PN, Kaufman JD, Hansel NN; for SPIROMICS investigators.

JAMA Intern Med. 2019 Dec 9. doi: 10.1001/jamainternmed.2019.5498. [Epub ahead of print]

PMID:31816012

Non-redox cycling mechanisms of oxidative stress induced by PM metals.

Samet JM, Chen H, Pennington ER, Bromberg PA.

Free Radic Biol Med. 2019 Dec 23. pii: S0891-5849(19)31249-3. doi: 10.1016/j.freeradbiomed.2019.12.027. [Epub ahead of print] Review.

PMID:31877355

Associations between Source-Specific Particulate Matter and Respiratory Infections in New York State Adults.

Croft DP, Zhang W, Lin S, Thurston SW, Hopke PK, van Wijngaarden E, Squizzato S, Masiol M, Utell MJ, Rich DQ.

Environ Sci Technol. 2019 Dec 18. doi: 10.1021/acs.est.9b04295. [Epub ahead of print]

PMID:31755707

Estimating Daily PM_{2.5} and PM₁₀ over Italy Using an Ensemble Model.

Shtein A, Kloog I, Schwartz J, Silibello C, Michelozzi P, Gariazzo C, Viegi G, Forastiere F, Karnieli A, Just AC, Stafoggia M.

Environ Sci Technol. 2019 Dec 10. doi: 10.1021/acs.est.9b04279. [Epub ahead of print]

PMID:31749355

Acute air pollution exposure alters neutrophils in never-smokers and at-risk humans.

Wooding DJ, Ryu MH, Li H, Alexis NE, Pena O, Carlsten C; Canadian Respiratory Research Network.

Eur Respir J. 2019 Dec 5. pii: 1901495. doi: 10.1183/13993003.01495-2019. [Epub ahead of print]

PMID:31806722

17 β -Estradiol affects lung function and inflammation following ozone exposure in a sex-specific manner.

Fuentes N, Nicoleau M, Cabello N, Montes D, Zomorodi N, Chroneos ZC, Silveyra P.

Am J Physiol Lung Cell Mol Physiol. 2019 Nov 1;317(5):L702-L716. doi: 10.1152/ajplung.00176.2019. Epub 2019 Sep 25.

PMID:31553636



Research Methods, Therapeutics, and Clinical Strategies

[Template Creation for High-Resolution Computed Tomography Scans of the Lung in R Software.](#)

Ryan SM, Vestal B, Maier LA, Carlson NE, Muschelli J.

Acad Radiol. 2019 Dec 13. pii: S1076-6332(19)30551-3. doi: 10.1016/j.acra.2019.10.030. [Epub ahead of print]

PMID:31843391

[Determinants and measurement of neonatal vitamin D: Overestimation of 25\(OH\)D in cord blood using CLIA assay technology.](#)

Lu M, Hollis BW, Carey VJ, Laranjo N, Singh RJ, Weiss ST, Litonjua AA.

J Clin Endocrinol Metab. 2019 Dec 24. pii: dgz299. doi: 10.1210/clinem/dgz299. [Epub ahead of print]

PMID:31872219

[Using the Consolidated Framework for Implementation Research \(CFIR\) to evaluate implementation effectiveness of a facilitated approach to an asthma shared decision making intervention.](#)

Shade L, Ludden T, Dolor RJ, Halladay J, Reeves K, Rees J, Hendrickson L, Bray P, Tapp H.

J Asthma. 2019 Dec 23:1-10. doi: 10.1080/02770903.2019.1702200. [Epub ahead of print]

PMID:31868043

[GlyMDB: Glycan Microarray Database and Analysis Toolset.](#)

Cao Y, Park SJ, Mehta AY, Cummings RD, Im W.

Bioinformatics. 2019 Dec 16. pii: btz934. doi: 10.1093/bioinformatics/btz934. [Epub ahead of print]

PMID:31841142

[Diagnosis of Acute Kidney Injury in Children Hospitalized in a Sub-Saharan African Unit by Saliva Urea Nitrogen Dipstick Test.](#)

Hussein RH, Calice-Silva V, Evans R, Levin NW, Ellidir RA, Ali EM, Bakhiet Y, Ahmed A, Abdelkareem A, Abdelraheem MB, Kotanko P, Pecoits-Filho R, Raimann JG;

the International Society of Nephrology (ISN) 0by25 Initiative.

Blood Purif. 2019 Dec 18:1-12. doi: 10.1159/000504080. [Epub ahead of print]

PMID:31851976

Education, Mentorship, and Outreach

[Effectiveness of a Faculty Mentor Development Program for Scholarship at an Academic Health Center.](#)

Sood A, Qualls C, Tigges B, Wilson B, Helitzer D.

J Contin Educ Health Prof. 2019 Dec 10. doi: 10.1097/CEH.0000000000000276. [Epub ahead of print]

PMID:31842022

Ann Am Thorac Soc. 2019 Nov 4. doi: 10.1513/AnnalsATS.201909-724PS. [Epub ahead of print] No abstract available.

PMID:31682475

[Social media to guide 'One Health' initiatives.](#)



Animasahun VJ, Chapman HJ, Oyewole BK.

Clin Teach. 2019 Jun 26. doi: 10.1111/tct.13045. [Epub ahead of print] No abstract available.

PMID:31240806

[Engaging with 'One Health' audiences.](#)

Chapman HJ, Dunham B.

Clin Teach. 2019 Nov 13. doi: 10.1111/tct.13107. [Epub ahead of print] No abstract available.

PMID:31722439

Asthma and Allergy

[Annual SO₂ exposure, asthma, atopy, and lung function in Puerto Rican children.](#)

Rosser F, Forno E, Kurland KS, Han YY, Mair C, Acosta-Pérez E, Canino G, Celedón JC.

Pediatr Pulmonol. 2019 Dec 5. doi: 10.1002/ppul.24595. [Epub ahead of print]

PMID:31805225

[Exposure to Violence, Psychosocial Stress, and Asthma.](#)

Landeo-Gutierrez J, Forno E, Miller GE, Celedón JC.

Am J Respir Crit Care Med. 2019 Dec 4. doi: 10.1164/rccm.201905-1073PP. [Epub ahead of print]

PMID:31801032

Cigarettes, E-cigs, and Cannabis Smoke Exposure

[Long-Term Sequelae of Smoking and Cessation in Spontaneously Hypertensive Rats.](#)

Wu CW, Yau T, Fulgar CC, Mack SM, Revilla AM, Kenyon NJ, Pinkerton KE.

Toxicol Pathol. 2019 Dec 24:192623319893312. doi: 10.1177/0192623319893312. [Epub ahead of print]

PMID:31870229

[E-cigarette, or vaping, product use associated lung injury \(EVALI\): case series and diagnostic approach.](#)

Kalininskiy A, Bach CT, Nacca NE, Ginsberg G, Marraffa J, Navarette KA, McGraw MD, Croft DP.

Lancet Respir Med. 2019 Dec;7(12):1017-1026. doi: 10.1016/S2213-2600(19)30415-1. Epub 2019 Nov 8.

PMID:31711871

[Microbial Toxins in Nicotine Vaping Liquids.](#)

Lee MS, Christiani DC.

Am J Respir Crit Care Med. 2019 Dec 9. doi: 10.1164/rccm.201911-2178LE. [Epub ahead of print] No abstract available.

PMID:31816248

[Electronic vapor products, marijuana use, smoking, and asthma in US adolescents.](#)

Han YY, Rosser F, Forno E, Celedón JC.



J Allergy Clin Immunol. 2019 Dec 9. pii: S0091-6749(19)31630-6. doi: 10.1016/j.jaci.2019.12.001. [Epub ahead of print]
No abstract available.

PMID:31830488

[Surface Detection of THC Attributable to Vaporizer Use in the Indoor Environment.](#)

Sempio C, Lindley E, Klawitter J, Christians U, Bowler RP, Adgate JL, Allshouse W, Awdziejczyk L, Fischer S, Bainbridge J, Vandyke M, Netsanet R, Crume T, Kinney GL.

Sci Rep. 2019 Dec 9;9(1):18587. doi: 10.1038/s41598-019-55151-5.

PMID:31819131

[Invalidity of an Oft-Cited Estimate of the Relative Harms of Electronic Cigarettes.](#)

Eissenberg T, Bhatnagar A, Chapman S, Jordt SE, Shihadeh A, Soule EK.

Am J Public Health. 2020 Feb;110(2):161-162. doi: 10.2105/AJPH.2019.305424. No abstract available.

PMID:31913680

Occupational Injuries and Exposures

[Occupational lung diseases in the 21st century: the changing landscape and future challenges.](#)

Fazen LE, Linde B, Redlich CA.

Curr Opin Pulm Med. 2019 Dec 31. doi: 10.1097/MCP.0000000000000658. [Epub ahead of print]

PMID:31895883

[Cleaning Products and Work-Related Asthma, 10 Year Update.](#)

Rosenman K, Reilly MJ, Pechter E, Fitzsimmons K, Flattery J, Weinberg J, Cummings K, Borjan M, Lumia M, Harrison R, Dodd K, Schleiff P.

J Occup Environ Med. 2019 Dec 31. doi: 10.1097/JOM.0000000000001771. [Epub ahead of print]

PMID:31895737

[Exercise-Induced Bronchoconstriction in Iraq and Afghanistan Veterans With Deployment-Related Exposures.](#)

Klein-Adams JC, Sotolongo AM, Serrador JM, Ndirangu DS, Falvo MJ.

Mil Med. 2019 Dec 31. pii: usz410. doi: 10.1093/milmed/usz410. [Epub ahead of print]

PMID:31889186

[Occupational exposure to dust and to fumes, work as a welder and invasive pneumococcal disease risk.](#)

Torén K, Blanc PD, Naidoo RN, Murgia N, Qvarfordt I, Aspevall O, Dahlman-Hoglund A, Schioler L.

Occup Environ Med. 2019 Dec 17. pii: oemed-2019-106175. doi: 10.1136/oemed-2019-106175. [Epub ahead of print]

PMID:31848233

[Self-Reported Cognitive Function and Mental Health Diagnoses among Former Professional American-Style Football Players.](#)

Plessow F, Pascual-Leone A, McCracken CM, Baker J, Krishnan S, Baggish A, Connor A, Courtney TK, Nadler LM, Speizer FE, Taylor HA, Weisskopf MG, Zafonte RD, Meehan WP, III.



J Neurotrauma. 2019 Dec 10. doi: 10.1089/neu.2019.6661. [Epub ahead of print]

PMID:31672091

Cellular and Molecular Mechanisms

[IL-10 Impairs Local Immune Response in Lung Granulomas and Lymph Nodes during Early *Mycobacterium tuberculosis* Infection.](#)

Wong EA, Evans S, Kraus CR, Engelman KD, Maiello P, Flores WJ, Cadena AM, Klein E, Thomas K, White AG, Causgrove C, Stein B, Tomko J, Mattila JT, Gideon H, Lin PL, Reimann KA, Kirschner DE, Flynn JL.

J Immunol. 2019 Dec 20. pii: j1901211. doi: 10.4049/jimmunol.1901211. [Epub ahead of print]

PMID:31862711

[Follistatin-like 1 Attenuation Causes Spontaneous Smoke-Resistant Pulmonary Emphysema.](#)

Henkel M, Partyka J, Gregory AD, Forno E, Cho MH, Eddens T, Tout AR, Salamacha N, Horne W, Rao KS, Wu Y, Alcorn JF, Kostka D, Hirsch R, Celedón JC, Shapiro SD, Kolls JK, Campfield BT.

Am J Respir Crit Care Med. 2019 Dec 13. doi: 10.1164/rccm.201905-0973OC. [Epub ahead of print]

PMID:31834999

Cancer

[Circulating Levels of Insulin-like Growth Factor 1 and Insulin-like Growth Factor Binding Protein 3 Associate With Risk of Colorectal Cancer Based on Serologic and Mendelian Randomization Analyses.](#)

Murphy N, Carreras-Torres R, Song M, Chan AT, Martin RM, Papadimitriou N, Dimou N, Tsilidis KK, Banbury B, Bradbury KE, Besevic J, Rinaldi S, Riboli E, Cross AJ, Travis RC, Agnoli C, Albanes D, Berndt SI, Béziau S, Bishop DT, Brenner H, Buchanan DD, Onland-Moret NC, Burnett-Hartman A, Campbell PT, Casey G, Castellví-Bel S, Chang-Claude J, Chirlaque MD, Chapelle A, English D, Figueiredo JC, Gallinger SJ, Giles GG, Gruber SB, Gsur A, Hampe J, Hampel H, Harrison TA, Hoffmeister M, Hsu L, Huang WY, Huyghe JR, Jenkins MA, Keku TO, Kühn T, Kweon SS, Le Marchand L, Li CI, Li L, Lindblom A, Martín V, Milne RL, Moreno V, Newcomb PA, Offit K, Ogino S, Ose J, Perduca V, Phipps AI, Platz EA, Potter JD, Qu C, Rennert G, Sakoda LC, Schafmayer C, Schoen RE, Slattery ML, Tangen CM, Ulrich CM, van Duynhoven FJ, Van Guelpen B, Visvanathan K, Vodicka P, Vodickova L, Vymetalkova V, Wang H, White E, Wolk A, Woods MO, Wu AH, Zheng W, Peters U, Gunter MJ.

Gastroenterology. 2019 Dec 26. pii: S0016-5085(19)41951-3. doi: 10.1053/j.gastro.2019.12.020. [Epub ahead of print]

PMID:31884074

[Malignant Diffuse Mesothelioma in Women: A Study of 354 Cases.](#)

Pavliko EN, Liu B, Green C, Sporn TA, Roggli VL.

Am J Surg Pathol. 2019 Dec 23. doi: 10.1097/PAS.0000000000001418. [Epub ahead of print]

PMID:31876584



Tuberculosis

[Health care workers' recommendations for strengthening tuberculosis infection control in the Dominican Republic.](#)

Chapman HJ, Veras-Estévez BA, Pomeranz JL, Pérez-Then EN, Marcelino B, Lauzardo M. *Rev Panam Salud Publica*. 2018 Dec 28;42:e169. doi: 10.26633/RPSP.2018.169. eCollection 2018.

PMID:31093197

[Timing of treatment interruption among latently infected tuberculosis cases treated with a nine-month course of daily isoniazid: findings from a time to event analysis.](#)

Séraphin MN, Hsu H, Chapman HJ, de Andrade Bezerra JL, Johnston L, Yang Y, Lauzardo M. *BMC Public Health*. 2019 Sep 3;19(1):1214. doi: 10.1186/s12889-019-7524-4.

PMID:31481046

[Moving Closer to Tuberculosis Elimination through Institutional Scientific Collaboration: Opportunities for Cuba and the USA.](#)

Chapman HJ, Armas-Pérez LA, Lauzardo M, González-Ochoa ER. *MEDICC Rev*. 2018 Apr;20(2):59-63.

PMID:29773780

Interstitial Lung Disease

[Income and Other Contributors to Poor Outcomes in US Sarcoidosis Patients.](#)

Harper LJ, Gerke AK, Wang XF, Ribeiro Neto ML, Baughman RP, Beyer K, Drent M, Judson MA, Maier LA, Serchuck L, Singh N, Culver DA.

Am J Respir Crit Care Med. 2019 Dec 11. doi: 10.1164/rccm.201906-1250OC. [Epub ahead of print]

PMID:31825646

[Aetiology, Risk Factors, and Biomarkers in Systemic Sclerosis with Interstitial Lung Disease.](#)

Khanna D, Tashkin DP, Denton CP, Renzoni EA, Desai SR, Varga J.

Am J Respir Crit Care Med. 2019 Dec 16. doi: 10.1164/rccm.201903-0563CI. [Epub ahead of print]

PMID:31841044

Genetics, Epigenetics, and Genomics

[SNPs identified by GWAS affect asthma risk through DNA methylation and expression of cis-genes in airway epithelium.](#)

Kim S, Forno E, Yan Q, Jiang Y, Zhang R, Boutaoui N, Acosta-Pérez E, Canino G, Chen W, Celedón JC.

Eur Respir J. 2019 Dec 12. pii: 1902079. doi: 10.1183/13993003.02079-2019. [Epub ahead of print]



PMID:31831581

Diabetes, Obesity, and Metabolic Diseases

[Metabolomic Profiles of Overweight/Obesity Phenotypes During Adolescence: A Cross-Sectional Study in Project Viva.](#)

Perng W, Rifas-Shiman SL, Sordillo J, Hivert MF, Oken E.
Obesity (Silver Spring). 2019 Dec 26. doi: 10.1002/oby.22694. [Epub ahead of print]

PMID:31876390

[An exploratory, randomised, placebo-controlled, 14 day trial of the soluble guanylate cyclase stimulator praliquat in participants with type 2 diabetes and hypertension.](#)

Hanrahan JP, Seferovic JP, Wakefield JD, Wilson PJ, Chickering JG, Jung J, Carlson KE, Zimmer DP, Frelinger AL 3rd, Michelson AD, Morrow L, Hall M, Currie MG, Milne GT, Profy AT.
Diabetologia. 2019 Dec 19. doi: 10.1007/s00125-019-05062-x. [Epub ahead of print]

PMID:31858186

[Obesity, sedentary lifestyle, and exhaled nitric oxide in an early adolescent cohort.](#)

Flashner BM, Rifas-Shiman SL, Oken E, Camargo CA, Platts-Mills TJ, Workman L, Litonjua AA, Gold DR, Rice MB.
Pediatr Pulmonol. 2019 Dec 5. doi: 10.1002/ppul.24597. [Epub ahead of print]

PMID:31805224

[Multidimensional aspects of dyspnea in obese patients referred for cardiopulmonary exercise testing.](#)

Balmain BN, Weinstein K, Bernhardt V, Marines-Price R, Tomlinson AR, Babb TG.
Respir Physiol Neurobiol. 2019 Dec 30;274:103365. doi: 10.1016/j.resp.2019.103365. [Epub ahead of print]

PMID:31899350

[Postprandial Microvascular Blood Flow in Skeletal Muscle: Similarities and Disparities to the Hyperinsulinaemic Euglycaemic Clamp.](#)

Roberts-Thomson KM, Betik AC, Premilovac D, Rattigan S, Richards SM, Ross RM, Russell RD, Kaur G, Parker L, Keske MA.
Clin Exp Pharmacol Physiol. 2019 Dec 23. doi: 10.1111/1440-1681.13237. [Epub ahead of print]

PMID:31868941

Chronic Obstructive Pulmonary Disease

[Machine Learning Characterization of COPD Subtypes: Insights from the COPDGene Study.](#)

Castaldi PJ, Boueiz A, Yun J, San Jose Estepar R, Ross JC, Washko G, Cho MH, Hersh CP, Kinney GL, Young KA, Regan EA, Lynch DA, Criner GJ, Dy JG, Rennard SI, Casaburi R, Make BJ, Crapo J, Silverman EK, Hokanson JE; COPDGene Investigators.
Chest. 2019 Dec 27. pii: S0012-3692(19)34456-3. doi: 10.1016/j.chest.2019.11.039. [Epub ahead of print] Review.

PMID:31887283



[Comparative Causal Analysis of the Effects of Long-Acting Muscarinic Antagonist Versus No Long-Acting Bronchodilator Use on Readmission or Mortality After Hospitalization for Chronic Obstructive Pulmonary Disease.](#)

Roberts MH, Mapel DW, Petersen H.

Drugs Real World Outcomes. 2019 Dec 2. doi: 10.1007/s40801-019-00171-w. [Epub ahead of print]

PMID:31792873

Updates from Terrorism and Inhalation Disasters Section



The TID Section officers wish you a happy, productive, terrorism-free, and inhalation disasters-free peaceful new year!



Grants

Philippe A Haouzi, MD, PhD, Professor of Medicine at Pennsylvania State University, College of Medicine, Division of Pulmonary and Critical Care Medicine, Hershey Medical Center, Hershey, PA 17033 received R21 grant (1R21NS110549-01: The cyclic redox dye Azure B as a novel cyanide antidote: in vivo efficacy studies)

Drs. Sven-Eric Jordt, PhD and Satya Achanta, DVM, PhD, DABT, Duke University School of Medicine, Durham, NC received U01 grant (1U01ES030672-01) from the National Institutes of Environmental Health Sciences (NIEHS) under NIH CounterACT program to develop medical countermeasures against chlorine gas. The Title of the Grant: Advanced TRPA1 Inhibitor for the Treatment of Chlorine Inhalation Injury.



Accomplishments

Congratulations to Satya Achanta, DVM, PhD on becoming Diplomate of [American Board of Toxicology](#) (DABT)! Dr. Achanta is a junior faculty in Dr. Sven-Eric Jordt's laboratory at Duke University School of Medicine. Dr. Achanta has been actively conducting research on developing medical countermeasures against toxic inhalational agents-induced lung injuries. He is currently serving as the Web Director of TID Section.

Caring for Ebola virus patient

George L. Anesi, MD, MSCE, MBE
Pulmonary and Critical Care Medicine
University of Pennsylvania
Perelman School of Medicine

George L. Anesi, MD, MSCE, MBE, Pulmonary and Critical Care Medicine, University of Pennsylvania Perelman School of Medicine lead the Hospital of the University of Pennsylvania Critical Care Bioresponse Team that took care of a patient under investigation for Ebola virus disease who had arrived from the Democratic Republic of Congo (full activation of our preparedness program and Special Treatment Unit and ultimately found to have severe cerebral malaria). Some coverage: <https://www.nbcphiladelphia.com/news/local/ebola-monitoring-hospital-at-university-of-pennsylvania/5235/>.

Dr. Anesi was Awarded an AHRQ/PCORI K12 to study healthcare capacity strain due to severe seasonal and pandemic influenza.

Dr. Anesi was selected for and participated in the U.S. Department of Defense Joint Civilian Orientation Conference with a particular focus on government-academic collaboration on preparedness.

Outbreak of synthetic cannabinoids

Israel Rubinstein, M.D.
Professor of Medicine
Department of Medicine (M/C 719), University of Illinois at Chicago
Chicago, IL 60612

An outbreak of life-threatening synthetic cannabinoids (SC)-associated coagulopathy and bleeding in Illinois in Spring 2018 was due to inhalation of SC contaminated with brodifacoum, difenacoum and bromadiolone, highly potent long-acting anticoagulant rodenticides (LAARs) that are designated as chemical threat agents by CDC.

While resuscitation with blood products and high-dose intravenous and oral vitamin K1 (VK1) overcame coagulopathy and bleeding in our cohort of 32 patients, it did not clear LAARs from the circulation upon discharge from the hospital. This, in turn, could predispose poisoned patients to recurrent coagulopathy and bleeding if high-dose oral VK1 is inappropriately and/or prematurely discontinued.



Hence, close monitoring of both international normalized ratio (INR) and circulating LAAR concentrations is advocated during long-term follow-up of these patients.

Inhaled nanoparticles make their way to human olfactory bulb

Guenter Oberdoerster, D.V.M., Ph.D.

University of Rochester Medical Center

School of Medicine and Dentistry

Rochester, NY 14642

[Dr. Oberdoerster](#) and his team members have been studying the biokinetics and risk assessment of inhaled nanoparticles. During the past year, 2019, in continuation of their research on the respiratory tract as a portal of entry for airborne nanosized particles to reach secondary organs, they verified in a collaborative multidisciplinary approach the translocation of inhaled ambient nano particles to, and their presence in, the human olfactory bulb. This confirms their earlier results observed in rat inhalation studies.

Recent publications from TID members and relevant to TID section:

[Respiratory Health Effects of Exposure to Ambient Particulate Matter and Bioaerosols](#). Mack SM, Madl AK, **Pinkerton KE**. Compr Physiol. 2019 Dec 18;10(1):1-20. doi: 10.1002/cphy.c180040.PMID:31853953

Douglas L Feinstein, Daniel G Nosal, Swetha Ramanathan, Jifang Zhou, Luying Chen, Ronald C Hershow, Richard B van Breemen, Erik Wright, John W Hafner & Israel Rubinstein (2019): Effects of vitamin K1 treatment on plasma concentrations of long-acting anticoagulant rodenticide enantiomers following inhalation of contaminated synthetic cannabinoids, *Clinical Toxicology*, DOI: 10.1080/15563650.2019.1687903

Haouzi P, Sonobe T, Judenherc-Haouzi A. Hydrogen sulfide intoxication induced brain injury and methylene blue. *Neurobiol Dis*. 2020 Jan;133:104474. doi: 10.1016/j.nbd.2019.05.013. Epub 2019 May 16. Review. PubMed PMID: 31103557.

Cheung JY, Merali S, Wang J, Zhang XQ, Song J, Merali C, Tomar D, You H, Judenherc-Haouzi A, **Haouzi P**. The central role of protein kinase C epsilon in cyanide cardiotoxicity and its treatment. *Toxicol Sci*. 2019 Jun 7. pii: kfz137. doi: 10.1093/toxsci/kfz137. [Epub ahead of print] PubMed PMID: 31173149; PubMed Central PMCID: PMC6735853.

Haouzi P, McCann M, Tubbs N, Judenherc-Haouzi A, Cheung J, Bouillaud F. Antidotal Effects of the Phenothiazine Chromophore Methylene Blue Following Cyanide Intoxication. *Toxicol Sci*. 2019 Jul 1;170(1):82-94. doi: 10.1093/toxsci/kfz081. PubMed PMID: 30907955; PubMed Central PMCID: PMC6592189.



Haouzi P, Tubbs N, Cheung J, Judenherc-Haouzi A. Methylene Blue Administration During and After Life-Threatening Intoxication by Hydrogen Sulfide: Efficacy Studies in Adult Sheep and Mechanisms of Action. *Toxicol Sci.* 2019 Apr 1;168(2):443-459. doi: 10.1093/toxsci/kfy308. PubMed PMID: 30590764; PubMed Central PMCID: PMC6516679.

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 see the link for more details:

<https://careers.duke.edu/job/Durham-ASSOCIATE-IN-RESEARCH-NC-27710/610472400/>

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.

<https://careers.duke.edu/job/Durham-POSTDOCTORAL-ASSOCIATE-NC-27710/613539900/>

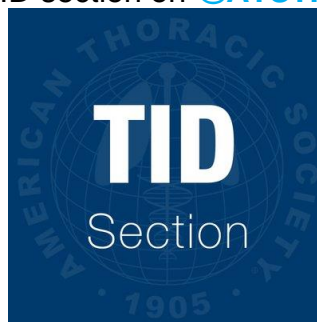
<https://careers.duke.edu/job/Durham-RESEARCH-SCIENTIST-NC-27710/614052400/>

<https://careers.duke.edu/job/Durham-RESEARCH-SCIENTIST-NC-27710/612858600/>

ATS Late Breaking Abstract Submission Deadline: **WEDNESDAY, JANUARY 29, 2020 (5 p.m. Eastern Time)**



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TID section is soliciting ideas for putting together **podcasts, webinars, and journal clubs**. Please contact Satya Achanta, DVM, PhD, DABT (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]

