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# Assembly on Environmental, Occupational, and Population Health Newsletter

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Dear EOPH members,

In this February issue of the EOPH newsletter, we share some of our members' recent "epub ahead of print" articles, information about the ATS 2018 Secretary-Treasurer Election, and some exciting news regarding Ms. Maya Rajavel, a student in Dr. Kent Pinkerton's lab at UC Davis.

Please let us know about your recent publications, awards, and achievements. Also, we would appreciate suggestions or feedback for future issues at [kbailey@unmc.edu](mailto:kbailey@unmc.edu) or [tnordgren@unmc.edu](mailto:tnordgren@unmc.edu).

Sincerely,

Your web committee co-chairs,

Kristina Bailey and Tara Nordgren



## Recent publications

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

### Air Pollution, Ozone, and Ultrafine Particles

[ATS and Marron Institute Report: Estimated Excess Morbidity and Mortality Associated with Air Pollution above ATS-Recommended Standards, 2013-2015.](#)

Cromar KR, Gladson LA, Ghazipura M, Ewart G.  
Ann Am Thorac Soc. 2018 Feb 9.

[News on Climate change, air pollution and allergic trigger factors of asthma.](#)

D'Amato M, Cecchi L, Annesi-Maesano I, D'Amato G.  
J Investig Allergol Clin Immunol. 2018 Jan 17:0.

[Local- and regional-scale air pollution modelling \(PM<sub>10</sub>\) and exposure assessment for pregnancy trimesters, infancy, and childhood to age 15 years: Avon Longitudinal Study of Parents And Children \(ALSPAC\).](#)

Gulliver J, Elliott P, Henderson J, Hansell AL, Vienneau D, Cai Y, McCrea A, Garwood K, Boyd A, Neal L, Agnew P, Fecht D, Briggs D, de Hoogh K.  
Environ Int. 2018 Jan 28;113:10-19.

[Ambient Air Pollution and Chronic Bronchitis in a Cohort of U.S. Women.](#)

Hooper LG, Young MT, Keller JP, Szpiro AA, O'Brien KM, Sandler DP, Vedal S, Kaufman JD, London SJ.  
Environ Health Perspect. 2018 Feb 6;126(2):027005.

[Ambient air pollution, adipokines, and glucose homeostasis: The Framingham Heart Study.](#)

Li W, Dorans KS, Wilker EH, Rice MB, Kloog I, Schwartz JD, Koutrakis P, Coull BA, Gold DR, Meigs JB, Fox CS, Mittleman MA.  
Environ Int. 2018 Feb;111:14-22.

[Temporal variations of fine and coarse particulate matter sources in Jeddah, Saudi Arabia.](#)

Lim CC, Thurston GD, Shamy M, Alghamdi M, Khoder M, Mohorjy AM, Alkhalaf AK, Brocato J, Chen LC, Costa M.  
J Air Waste Manag Assoc. 2018 Feb;68(2):123-138.

[Effects of Simulated Smog Atmospheres in Rodent Models of Metabolic and Immunologic Dysfunction.](#)

McGee Hargrove M, Snow SJ, Luebke RW, Wood CE, Krug JD, Krantz QT, King C, Copeland CB, McCullough SD, Gowdy KM, Kodavanti UP, Gilmour MI, Gavett SH.  
Environ Sci Technol. 2018 Feb 14.

[Persistent organic pollutant emission via dust deposition throughout Pakistan: Spatial patterns, regional cycling and their implication for human health risks.](#)

Sohail M, Eqani SAMAS, Podgorski J, Bhowmik AK, Mahmood A, Ali N, Sabo-Attwood T, Bokhari H, Shen H.  
Sci Total Environ. 2018 Mar 15;618:829-837.

[Ozone-Induced Vascular Contractility and Pulmonary Injury are Differentially Impacted by Diets Enriched with Coconut Oil, Fish Oil, and Olive Oil.](#)

Snow SJ, Cheng WY, Henriquez A, Hodge M, Bass V, Nelson GM, Carswell G, Richards JE, Schladweiler MC, Ledbetter AD, Chorley B, Gowdy KM, Tong H, Kodavanti UP. Toxicol Sci. 2018 Jan 10.

## **Agricultural-Related Lung Diseases**

[An approach to the asthma-protective farm effect by geocoding: Good farms and better farms.](#)

Müller-Rompa SEK, Markevych I, Hose AJ, Loss G, Wouters IM, Genuneit J, Braun-Fahrlander C, Horak E, Boznanski A, Heederik D, von Mutius E, Heinrich J, Ege MJ; GABRIELA Study Group. Pediatr Allergy Immunol. 2018 Jan 4.

[Effects of agricultural organic dusts on human lung-resident mesenchymal stem \(stromal\) cell function.](#)

Nordgren TM, Bailey KL, Heires AJ, Katafiasz D, Romberger DJ. Toxicol Sci. 2018 Jan 8.

[Spatial Variation of Endotoxin Concentrations Measured in Ambient PM<sub>10</sub> in a Livestock-Dense Area: Implementation of a Land-Use Regression Approach.](#)

de Rooij MMT, Heederik DJJ, van Nunen EJHM, van Schothorst IJ, Maassen CBM, Hoek G, Wouters IM. Environ Health Perspect. 2018 Jan 11;126(1):017003.

## **Allergic Diseases**

[Treatment of allergic rhinitis using mobile technology with real world data: The MASK observational pilot study.](#)

Bousquet J, Arnavielhe S, Bedbrook A, Alexis-Alexandre G, van Eerd M, Murray R, et al. C Allergy. 2018 Jan 15.

[Methylene-tetrahydrofolate reductase contributes to allergic airway disease.](#)

Eyring KR, Pedersen BS, Maclean KN, Stabler SP, Yang IV, Schwartz DA. PLoS One. 2018 Jan 12;13(1):e0190916.

## **Asthma**

[The phosphatidylinositide 3-kinase \(PI3K\) signaling pathway is a determinant of zileuton response in adults with asthma.](#)

Dahlin A, Qiu W, Litonjua AA, Lima JJ, Tamari M, Kubo M, Irvin CG, Peters SP, Wu AC, Weiss ST, Tantisira KG. Pharmacogenomics J. 2018 Jan 3.

[Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks.](#)

Deménais F, Margaritte-Jeannin P, Barnes KC, Cookson WOC, Altmüller J, Ang W, et al. Nat Genet. 2018 Jan;50(1):42-53.

[Outdoor pollen is a trigger of child and adolescent asthma ED presentations: a systematic review and meta-analysis.](#)

Erbas B, Jazayeri M, Lambert KA, Katelaris CH, Prendergast LA, Tham R, Parrodi MJ, Davies J, Newbiggin E, Abramson MJ, Dharmage SC. Allergy. 2018 Jan 13.

[School exposure and asthma.](#)

Esty B, Phipatanakul W.

Ann Allergy Asthma Immunol. 2018 Jan 30. pii: S1081-1206(18)30035-8.

[Prevalence and features of asthma-chronic obstructive pulmonary disease overlap in Northern Italy general population.](#)

Guerriero M, Caminati M, Viegi G, Senna G, Pomari C.

J Asthma. 2018 Feb 8:1-7.

[Fluid Balance is Associated with Clinical Outcomes and Extravascular Lung Water in Children with Acute Asthma Exacerbation.](#)

Kantor DB, Hirshberg EL, McDonald MC, Griffin J, Buccigrosso T, Stenquist N, Smallwood CD, Nelson KA, Zurakowski D, Phipatanakul W, Hirschhorn JN.

Am J Respir Crit Care Med. 2018 Jan 9.

[The role of local CpG DNA methylation in mediating the 17q21 asthma-susceptibility GSDMB/ORMDL3 expression quantitative trait locus.](#)

Kothari PH, Qiu W, Croteau-Chonka DC, Martinez FD, Liu AH, Lemanske RF Jr., et al.

J Allergy Clin Immunol. 2018 Jan 25. pii: S0091-6749(18)30112-X.

[Gene-environment interaction between an IL4R variant and school endotoxin exposure contributes to asthma symptoms in inner-city children.](#)

Lai PS, Massoud AH, Xia M, Petty CR, Cunningham A, Chatila TA, Phipatanakul W.

J Allergy Clin Immunol. 2018 Feb;141(2):794-796.e3.

[The efficacy and safety of mannitol challenge in a workplace setting for assessing asthma prevalence.](#)

de Menezes MB, Ferraz E, Brannan JD, Martinez EZ, Vianna EO.

J Asthma. 2018 Jan 4:1-8.

[Obese Asthmatics are Characterised by Altered Adipose Tissue Macrophage Activation.](#)

Periyalil HA, Wood LG, Wright TA, Karihaloo C, Starkey MR, Miu AS, Baines KJ, Hansbro PM, Gibson PG.

Clin Exp Allergy. 2018 Jan 31.

[Factors reducing omalizumab response in severe asthma.](#)

Sposato B, Scalese M, Milanese M, Masieri S, Cavaliere C, Latorre M, Scichilone N, Matucci A, Vultaggio A, Ricci A, Cresti A, Santus P, Perrella A, Paggiaro PL.

Eur J Intern Med. 2018 Jan 29.

## Bioinformatics and Data Sharing

[LipSpin: A New Bioinformatics Tool for Quantitative <sup>1</sup>H NMR Lipid Profiling.](#)

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Anal Chem. 2018 Feb 6;90(3):2031-2040.

[ClinVar: improving access to variant interpretations and supporting evidence.](#)

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[Pharmacogenomic biomarkers do not predict response to drotrecogin alfa in patients with severe sepsis.](#)

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## Cancer

[Whole blood FPR1 mRNA expression predicts both non-small cell and small cell lung cancer.](#)

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Int J Cancer. 2018 Jan 5.

[Adaptive reprogramming of NK cells in X-linked lymphoproliferative syndrome.](#)

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[Nuclear grade and necrosis predict prognosis in malignant epithelioid pleural mesothelioma: a multi-institutional study.](#)

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[Nitrate in drinking water and colorectal cancer risk: A nationwide population-based cohort study.](#)

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[Detection of Deep Vein Thrombosis by Follow-up Indirect Computed Tomography Venography after Pulmonary Embolism.](#)

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[TM6SF2: A novel target for plasma lipid regulation.](#)

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[Carotid artery ultrasound texture, cardiovascular risk factors, and subclinical arterial disease: the Multi-Ethnic Study of Atherosclerosis \(MESA\).](#)

Mitchell CC, Korcarz CE, Tattersall MC, Gepner AD, Young RL, Post WS, Kaufman JD, McClelland RL, Stein JH.  
Br J Radiol. 2018 Jan 31:20170637.

[Defining the relationship between COPD and CVD: what are the implications for clinical practice?](#)

Morgan AD, Zakeri R, Quint JK.  
Ther Adv Respir Dis. 2018 Jan-Dec;12:1753465817750524.

[Plasma n-3 and n-6 Fatty Acids Are Differentially Related to Carotid Plaque and Its Progression: MESA \(the Multi-Ethnic Study of Atherosclerosis\).](#)

Steffen BT, Guan W, Stein JH, Tattersall MC, Kaufman JD, Sandfort V, Szklo M, Tsai MY. Arterioscler Thromb Vasc Biol. 2018 Jan 11. pii: ATVBAHA.117.310366.

## Chronic Obstructive Pulmonary Disease (COPD)

[Smoking duration alone provides stronger risk estimates of chronic obstructive pulmonary disease than pack-years.](#)

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[Chronic Obstructive Pulmonary Disease in Hispanics. A 9-Year Update.](#)

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[Prediction of mortality in patients with chronic obstructive pulmonary disease with the new Global Initiative for Chronic Obstructive Lung Disease 2017 classification: a cohort study.](#)

Gedebjerg A, Szépligeti SK, Wackerhausen LH, Horváth-Puhó E, Dahl R, Hansen JG, Sørensen HT, Nørgaard M, Lange P, Thomsen RW. Lancet Respir Med. 2018 Jan 10.

[Ensemble genomic analysis in human lung tissue identifies novel genes for chronic obstructive pulmonary disease.](#)

Morrow JD, Cho MH, Platig J, Zhou X, DeMeo DL, Qiu W, Celli B, Marchetti N, Criner GJ, Bueno R, Washko GR, Glass K, Quackenbush J, Silverman EK, Hersh CP. Hum Genomics. 2018 Jan 15;12(1):1.

[Human Lung DNA Methylation Quantitative Trait Loci Colocalize with COPD Genome-wide Association Loci.](#)

Morrow JD, Glass K, Cho MH, Hersh CP, Pinto-Plata V, Celli B, Marchetti N, Criner G, Bueno R, Washko G, Choi AMK, Quackenbush J, Silverman EK, DeMeo DL. Am J Respir Crit Care Med. 2018 Jan 9.

[Human airway branch variation and chronic obstructive pulmonary disease.](#)

Smith BM, Traboulsi H, Austin JHM, Manichaikul A, Hoffman EA, Bleecker ER, et al. Proc Natl Acad Sci U S A. 2018 Jan 30;115(5):E974-E981.

[How Long Should We Be Vigilant Following a Hospitalization for a COPD Exacerbation?](#)

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[The Long-Term Oxygen Treatment Trial for Chronic Obstructive Pulmonary Disease: Rationale, Design, and Lessons Learned.](#)

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Harrington KF, Cooper JAD Jr, Diaz P, Gay S, Kanner R, MacIntyre N, Martinez FJ, Piantadosi S, Scirba F, Shade D, Stibolt T, Tonascia J, Wise R, Bailey WC; LOTT Research Group \* ; LOTT Research Group.

Ann Am Thorac Soc. 2018 Jan;15(1):89-101.

## **Diesel Exhaust and Traffic Emissions**

[Inhaled diesel exhaust alters the allergen-induced bronchial secretome in humans.](#)

Mookherjee N, Piyadasa H, Ryu MH, Rider CF, Ezzati P, Spicer V, Carlsten C.

Eur Respir J. 2018 Jan 25;51(1).

[Exposure to Traffic Emissions and Fine Particulate Matter and Computed Tomography Measures of the Lung and Airways.](#)

Rice MB, Li W, Dorans KS, Wilker EH, Ljungman P, Gold DR, Schwartz J, Koutrakis P, Kloog I, Araki T, Hatabu H, Estepar RSJ, O'Connor GT, Mittleman MA, Washko GR.

Epidemiology. 2018 Jan 30.

[Mobile and Fixed-Site Measurements To Identify Spatial Distributions of Traffic-Related Pollution Sources in Los Angeles.](#)

Tessum MW, Larson T, Gould TR, Simpson CD, Yost MG, Vedal S.

Environ Sci Technol. 2018 Feb 14.

## **Environmental Exposure Measurements**

[Diagnosis, monitoring and prevention of exposure-related non-communicable diseases in the living and working environment: DiMoPEX-project is designed to determine the impacts of environmental exposure on human health.](#)

Budnik LT, Adam B, Albin M, Banelli B, Baur X, Belpoggi F, Bolognesi C, Broberg K, Gustavsson P, Göen T, Fischer A, Jarosinska D, Manservigi F, O'Kennedy R, Øvrevik J, Paunovic E, Ritz B, Scheepers PTJ, Schlünssen V, Schwarzenbach H, Schwarze PE, Sheils O, Sigsgaard T, Van Damme K, Casteleyn L.

J Occup Med Toxicol. 2018 Feb 5;13:6.

[Community interest and feasibility of using a novel smartphone-based formaldehyde exposure detection technology.](#)

Castner J, Gehrke GE, Shapiro N, Dannemiller KC.

Public Health Nurs. 2018 Jan 11.

[Multifunctional nanoparticles for real-time evaluation of toxicity during fetal development.](#)

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PLoS One. 2018 Feb 8;13(2):e0192474.

## **Household Air Pollution**

[Household Air Pollution and COPD: "A Riddle Wrapped in a Mystery, Inside an Enigma".](#)

Balmes JR, Eisen EA.

Am J Respir Crit Care Med. 2018 Jan 26.

[Knowledge, attitudes and beliefs about the health hazards of biomass smoke exposure amongst commercial food vendors in Nigeria.](#)

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PLoS One. 2018 Jan 29;13(1):e0191458.

[The short-term effects of indoor size-fractionated particulate matter and black carbon on cardiac autonomic function in COPD patients.](#)

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[ERS/ATS workshop report on respiratory health effects of household air pollution.](#)

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Svendsen ER, Gonzales M, Commodore A. Sci Total Environ. 2018 Mar;616-617:1513-1523.

## Intracellular Effects

[Interleukin-13 stimulates production of nitric oxide in cultured human nasal epithelium.](#)

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## Lung Function and Respiratory Symptoms

[Guidelines for Inclusion of Patient-Reported Outcomes in Clinical Trial Protocols: The SPIRIT-PRO Extension.](#)

Calvert M, Kyte D, Mercieca-Bebber R, Slade A, Chan AW, King MT, et al. JAMA. 2018 Feb 6;319(5):483-494. doi: 10.1001/jama.2017.21903.

[Isolated diffusing capacity reduction is a common clinical presentation in deployed Iraq and Afghanistan veterans with deployment-related environmental exposures.](#)

Falvo MJ, Helmer DA, Klein JC, Osinubi OY, Ndirangu D, Patrick-DeLuca LA, Sotolongo AM. Clin Respir J. 2018 Feb;12(2):795-798.

[Respiratory Symptoms in Young Adults and Future Lung Disease: The CARDIA Lung Study.](#)

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[Cleaning at Home and at Work in Relation to Lung Function Decline and Airway Obstruction.](#)

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Am J Respir Crit Care Med. 2018 Feb 16.

[Chlorine Countermeasures: Supplemental Oxygen Equals Supplemental Lung Injury?](#)

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Am J Respir Cell Mol Biol. 2018 Jan;58(1):10-11.

## Occupational Health and Industrial Chemicals

[Risk Factors for Declines in Kidney Function in Sugarcane Workers in Guatemala.](#)

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J Occup Environ Med. 2018 Jan 24.

[Respiratory effects of trichloroethylene.](#)

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[Oxidative Stress as a Mechanism Involved in Kidney Damage After Subchronic Exposure to Vanadium Inhalation and Oral Sweetened Beverages in a Mouse Model.](#)

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[Measuring Best Practices for Workplace Safety, Health and Wellbeing: The Workplace Integrated Safety and Health Assessment.](#)

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[Irritant-induced asthma to hypochlorite in mice due to impairment of the airway barrier.](#)

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[The Public Health Conundrum of Coal Mining.](#)

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[Update on metal-induced occupational lung disease.](#)

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Curr Opin Allergy Clin Immunol. 2018 Jan 13.

## Pulmonary Hypertension

[Pulmonary hypertension in interstitial lung disease: Limitations of echocardiography compared to cardiac catheterization.](#)

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TM, MacDonald P, Hansell DM, Wells AU.  
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[Loss of KCNK3 is a hallmark of RV hypertrophy/dysfunction associated with pulmonary hypertension.](#)

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Cardiovasc Res. 2018 Jan 19.

## Radiation

[Gilbert W. Beebe Symposium on 30 Years after the Chernobyl Accident: Current and Future Studies on Radiation Health Effects.](#)

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## Respiratory Infections

[Feasibility and yield of screening for non-communicable diseases among treated tuberculosis patients in Peru.](#)

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Int J Tuberc Lung Dis. 2018 Jan 1;22(1):86-92.

[Association of day 4 cumulative fluid balance with mortality in critically ill patients with influenza: A multicenter retrospective cohort study in Taiwan.](#)

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[Household-Contact Investigation for Detection of Tuberculosis in Vietnam.](#)

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N Engl J Med. 2018 Jan 18;378(3):221-229.

[The Platelet Count can Predict In-hospital Death in HIV-negative Smear-positive Pulmonary Tuberculosis Inpatients.](#)

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Intern Med. 2018 Jan 11.

[GM-CSF overexpression after influenza a virus infection prevents mortality and moderates M1-like airway monocyte/macrophage polarization.](#)

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Perez Ramirez L, Wendroth H, Martin LJ, Pilipenko VV, He H, Kroner J, Ryan PH, LeMasters GK, Lockey JE, Bernstein DI, Khurana Hershey GK, Biagini Myers JM.

J Allergy Clin Immunol. 2018 Jan 26. pii: S0091-6749(18)30113-1.

[Miliary tuberculosis with co-existing pulmonary cryptococcosis in non-HIV patient without underlying diseases: a case report.](#)

Sawai T, Nakao T, Koga S, Ide S, Yoshioka S, Matsuo N, Mukae H.  
BMC Pulm Med. 2018 Jan 16;18(1):6.

[Infectious virus in exhaled breath of symptomatic seasonal influenza cases from a college community.](#)

Yan J, Grantham M, Pantelic J, Bueno de Mesquita PJ, Albert B, Liu F, Ehrman S, Milton DK; EMIT Consortium.

Proc Natl Acad Sci U S A. 2018 Jan 30;115(5):1081-1086.

## **World Trade Center Firefighters**

[Predictive Biomarkers of Gastroesophageal Reflux Disease and Barrett's Esophagus in World Trade Center Exposed Firefighters: a 15 Year Longitudinal Study.](#)

Haider SH, Kwon S, Lam R, Lee AK, Caraher EJ, Crowley G, Zhang L, Schwartz TM, Zeig-Owens R, Liu M, Prezant DJ, Nolan A.

Sci Rep. 2018 Feb 15;8(1):3106.

[Blood Leukocyte Concentrations, FEV<sub>1</sub> Decline, and Airflow Limitation. A 15-Year Longitudinal Study of World Trade Center-exposed Firefighters.](#)

Zeig-Owens R, Singh A, Aldrich TK, Hall CB, Schwartz T, Webber MP, Cohen HW, Kelly KJ, Nolan A, Prezant DJ, Weiden MD.

Ann Am Thorac Soc. 2018 Feb;15(2):173-183.

## **Things Worth Celebrating!**

Please join us in congratulating Ms. Maya Rajavel, a high school student working in Dr. Kent Pinkerton's lab at UC Davis. Her abstract was accepted for an oral presentation in the C16 Mini Symposium (Cigarette, E-Cigarette, and Marijuana Smoking: Human and Mouse Studies) to be held at the 2018 ATS Annual Meeting. Ms. Rajavel has volunteered in Dr. Kent Pinkerton's lab for the last three summers. As described by Dr. Pinkerton, "Maya had just completed the 9<sup>th</sup> grade when she first started working in the laboratory. She has been truly amazing! Because of the highly impactful and significant research she completed over the past three summers, I encouraged Maya to submit an abstract to ATS." The abstract Ms. Rajavel will be presenting is titled, "Age-related modulation of pulmonary innate immunity by environmental tobacco smoke against influenza A/PR/8/34 in mice." We look forward to seeing her talk at the conference, and congratulations to Ms. Rajavel on this great achievement!

## ATS 2018 Secretary-Treasurer Elections

The ATS Nominating Committee selected two candidates for the 2018-2019 secretary-treasurer position: Dr. John Balmes, professor of medicine at the University of California San Francisco and professor in the School of Public Health at UC Berkeley, and Dr. Lynn Schnapp, professor of medicine and division chief of Pulmonary, Critical Care, Allergy, and Sleep Medicine at the Medical University of South Carolina

(MUSC) in Charleston. **Voting will take place Thursday, March 1 through Friday, March 23.** Results will be announced on the ATS website on April 1.

