



We help the world breathe  
PULMONARY • CRITICAL CARE • SLEEP

Volume 3| Issue 5  
May - June 2017

# Assembly on Environmental Occupational and Population Health (EOPH) Newsletter

---

## ***EOPH***

### ***Web Editorial Committee***

*Kristina Bailey, MD*

*Tara Nordgren, PhD*

*Craig Glazer, MD*

*Nirupama Putcha, MD*

*Leonard Go, MD*

*Claire McCarthy, MS*

*Christopher Rider, PhD*

*Hissam Haider, MD*

*Nuria Camina Garcia*

*Anna Nolan, MD, MS*

Dear EOPH members,

We hope you all had an educational and exciting time at ATS 2017! In this May-June combined issue of the EOPH newsletter, we share some of our members' recent "epub ahead of print" articles and accomplishments, as well as information about ATS Research Foundation Grants and the 100-year anniversary of AJRCCM. In addition, Claire McCarthy, one of our Assembly's own abstract scholarship awardees, has taken the time to talk with the other 2017 EOPH awardees about their research, and how attending ATS 2017 with the EOPH has impacted their training experience. Finally, we have included some pictures from the 2017 EOPH Assembly meeting, and the ATS 2017 Lab coats for Lung Rally. We hope you will enjoy these features!

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 became available as "epubs ahead of print" in April. 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).

### **Occupational Exposures and Health**

[Health problems and disinfectant product exposure among staff at a large multispecialty hospital.](#) Casey ML, Hawley B, Edwards N, Cox-Ganser JM, Cummings KJ. Am J Infect Control. 2017 May 23. PMID: 28549881

[Carbon Monoxide Exposure in Workplaces Including Coffee Processing Facilities.](#)

Hawley B, Cox-Ganser JM, Cummings KJ. Am J Respir Crit Care Med. 2017 May 4. PMID:28471692

[Recruitment, Methods, and Descriptive Results of a Physiologic Assessment of Latino](#)

[Farmworkers: The California Heat Illness Prevention Study.](#) Mitchell DC, Castro J, Armitage TL, Vega-Arroyo AJ, Moyce SC, Tancredi DJ, Bennett DH, Jones JH, Kjellstrom T, **Schenker MB**. J Occup Environ Med. 2017 Apr 14. PMID: 28414703

[Pleural abnormalities in the Framingham Heart Study: prevalence and CT image features.](#)

Araki T, Yanagawa M, Sun FJ, Dupuis J, Nishino M, Yamada Y, Washko GR, Christiani DC, Tomiyama N, O'Connor GT, Hunninghake GM, Hatabu H. Occup Environ Med. 2017 May 3. PMID: 28468931

### **Environmental Exposures**

[Fine Particulate Matter \(PM<sub>2.5</sub>\) Enhances Allergic Sensitization in BALB/c Mice.](#) Castañeda AR, Bein KJ, Smiley-Jewell S, **Pinkerton KE**. J Toxicol Environ Health A. 2017 May 11:1-11. PMID: 28494199

[NIAID, NIEHS, NHLBI, and MCAN Workshop Report: The indoor environment and childhood asthma-implications for home environmental intervention in asthma prevention and management.](#)

Gold DR, Adamkiewicz G, Arshad SH, Celedón JC, Chapman MD, Chew GL, Cook DN, Custovic A, Gehring U, Gern JE, Johnson CC, Kennedy S, Koutrakis P, **Leaderer B**, Mitchell H, Litonjua AA, Mueller GA, O'Connor GT, Ownby D, Phipatanakul W, Persky V, Perzanowski MS, Ramsey CD, Salo PM, Schwaninger JM, Sordillo JE, Spira A, Suglia SF, Togias A, Zeldin DC, Matsui EC. J Allergy Clin Immunol. 2017 May 10. PMID:28502823

[Air pollution, weight loss and metabolic benefits of bariatric surgery: a potential model for study of metabolic effects of environmental exposures.](#)

Ghosh R, Gauderman WJ, Minor H, Youn HA, Lurmann F, Cromar KR, Chatzi L, Belcher B, Fielding CR, McConnell R. Pediatr Obes. 2017 Apr 21. PMID: 28429404

[Long-Term Exposure to Ambient Air Pollution and Subclinical Cerebrovascular Disease in NOMAS \(the Northern Manhattan Study\).](#)

Kulick ER, Wellenius GA, Kaufman JD, DeRosa JT, Kinney PL, Cheung YK, Wright CB, Sacco RL, Elkind MS. Stroke. 2017 Apr 28. PMID: 28455324

[Effects of Long-Term Exposure to Traffic-Related Air Pollution on Lung Function in Children.](#)

Schultz ES, Litonjua AA, Melén E. Curr Allergy Asthma Rep. 2017. Review. PMID: 28551888

## ***Chemicals, Metals, and Other Toxicants***

[The early history of manganese and the recognition of its neurotoxicity, 1837-1936.](#)

Blanc PD. Neurotoxicology. 2017 Apr 14. PMID:28416395

## ***Pulmonary Fibrosis***

[The Lactate Dehydrogenase Inhibitor Gossypol Inhibits Radiation-Induced Pulmonary](#)

[Fibrosis.](#) Judge JL, Lacy SH, Ku WY, Owens KM, Hernady E, Thatcher TH, Williams JP, Phipps RP, Sime PJ, Kottmann RM. Radiat Res. 2017 May 2. PMID: 28463588

## ***Asthma***

[Steroid resistance of airway type 2 innate lymphoid cells from patients with severe asthma: The role of thymic stromal lymphopoietin.](#)

Liu S, Verma M, Michalec L, Liu W, Sripada A, **Rollins D**, Good J, Ito Y, Chu H, Gorska MM, Martin RJ, Alam R. J Allergy Clin Immunol. 2017 Apr 20. PMID:28433687

[Cardiomyocytes of the Heart and Pulmonary Veins: Novel Contributors to Asthma?](#)

Folmsbee SS, Gottardi CJ. Am J Respir Cell Mol Biol. 2017 May 8. PMID: 28481622

## ***Population Health***

[The Association between Parity and Inflammation among Mexican-American Women of Reproductive Age Varies by Acculturation Level: Results of the National Health and Nutrition Examination Survey \(1999-2006\).](#)

Rosenberg N, Daviglius ML, DeVon HA, Park CG, **Eldeirawi K**. Womens Health Issues. 2017 Apr 11. PMID: 28410971

[Adults born preterm: a review of general health and system-specific outcomes.](#) Raju TNK,

Buist AS, Blaisdell CJ, Moxey-Mims M, Saigal S. Acta Paediatr. 2017 Apr 17. Review. PMID: 28419544

## ***Alcohol***

[The Relationship Between Spirituality/Religiousness and Unhealthy Alcohol Use Among HIV-Infected Adults in Southwestern Uganda.](#)

Adong J, Lindan C, Fatch R, Emenyonu NI, Muyindike WR, Ngabirano C, Winter MR, Lloyd-Travaglini C, Samet JH, Cheng DM, Hahn JA. AIDS Behav. 2017 May 29 PMID: 28555316

[Mitochondrial ROS induced by chronic ethanol exposure promote hyper-activation of the NLRP3 inflammasome.](#)

Hoyt LR, Randall MJ, Ather JL, DePuccio DP, Landry CC, Qian X, Janssen-Heininger YM, van der Vliet A, Dixon AE, Amiel E, Poynter ME. Redox Biol. 2017 Apr 25;12:883-896. PMID: 28463821

## ***Diagnostics, Clinical Assessments, and Interventions***

[Association of Out-of-Hospital Hypotension Depth and Duration With Traumatic Brain Injury Mortality.](#)

Spaite DW, Hu C, Bobrow BJ, Chikani V, Barnhart B, Gaither JB, Denninghoff KR, Adelson PD, Keim SM, Viscusi C, Mullins T, Rice AD, Sherrill D. Ann Emerg Med. 2017 May 27. PMID:28559036

[Duplex Ultrasound Versus Clinical Surveillance in the Prediction of TIPS Malfunction Placed](#)

[for Refractory Ascites: Is Ultrasound Surveillance Useful?](#) Young S, **Scanlon P**, Sherestha P, Golzarian J, Sanghvi T. *Cardiovasc Intervent Radiol*. 2017 May 26. PMID:28550512

[Using DR52c/Ni<sub>2+</sub> mimotope tetramers to detect Ni<sub>2+</sub> reactive CD4<sub>+</sub> T cells in patients with joint replacement failure.](#) Zhang Y, Wang Y, Anderson K, Novikov A, Liu Z, **Pacheco K**, Dai S. *Toxicol Appl Pharmacol*. 2017 May 26. PMID: 28554661

[FIB-4 stage of liver fibrosis predicts incident heart failure among HIV infected and uninfected patients.](#) So-Armah KA, Lim JK, Lo Re V, Tate JP, Chung-Chou HC, Butt AA, Gibert CL, Rimland **D**, Marconi VC, Goetz MB, Rodriguez-Barradas MC, DeBakey ME, Budoff MJ, Tindle HA, Samet JH, Justice AC, Freiberg MS; VACS Project Team. *Hepatology*. 2017 May 24. PMID: 28543215

[Evidence-Based Utilization of Non-Invasive Ventilation and Patient Outcomes.](#)

Mehta AB, Douglas IS, Walkey AJ. *Ann Am Thorac Soc*. 2017 May 25. PMID: 28541747

[Elective Venovenous Extracorporeal Membrane Oxygenation for Resection of Endotracheal Tumor: A Case Report.](#) Dunkman WJ, Nicoara A, Schroder J, Wahidi MM, El Manafi A, Bonadonna **D**, Giovacchini CX, Lombard FW. *A A Case Rep*. 2017 May 24. PMID:28542046

[Transfusion practices for bone marrow harvests: a survey analysis from the AABB Bone Marrow Quality Improvement Initiative Working Group.](#) Spitzer TR, Sugrue MW, Gonzalez C, O'Donnell P, Confer **D**, Fuchs E, Pulsipher MA, **Schwartz J**, Linenberger M. *Bone Marrow Transplant*. 2017 May 22. PMID: 28530670

[PD-1 blockade for relapsed lymphoma post allogeneic hematopoietic cell transplant: high response rate but frequent GVHD.](#) Haverkos BM, Abbott **D**, Hamadani M, Armand P, Flowers ME, Merryman R, Kamdar M, Kanate AS, Saad A, **Mehta A**, Ganguly S, Fenske TS, Hari P, Lowsky R, Andritsos L, Jagasia M, Bashey A, Brown S, Bachanova V, Stephens **D**, Mineishi S, Nakamura R, Chen YB, Blazar BR, Gutman J, Devine SM. *Blood*. 2017 May 3. PMID: 28468799

[Efficacy of mycophenolate mofetil and oral cyclophosphamide on skin thickness: Post-hoc analyses from the Scleroderma Lung Study I and II.](#) Namas R, Tashkin DP, Furst DE, Wilhalme H, Tseng CH, Roth MD, Kafaja **S**, Volkmann E, Clements PJ, Khanna D. *Arthritis Care Res (Hoboken)*. 2017 May 23. PMID: 28544580

[Mycophenolate Mofetil Versus Placebo for Systemic Sclerosis-Related Interstitial Lung Disease: An Analysis of Scleroderma Lung Studies I and II.](#) Volkmann ER, Tashkin DP, Li N, Roth MD, Khanna D, Hoffmann-Vold AM, Kim G, Goldin J, Clements PJ, Furst DE, Elashoff RM. *Arthritis Rheumatol*. 2017 Apr 4. PMID: 28376288

## **Genetics and Epigenetics**

[Waardenburg syndrome: a rare cause of inherited neuropathy due to SOX10 mutation.](#) Bogdanova-Mihaylova P, Alexander MD, Murphy RP, Murphy SM. *J Peripher Nerv Syst*. 2017 May 22. PMID: 28544110

[Rare Genetic Variants in PARN are Associated with Pulmonary Fibrosis in Families.](#) Kropski JA, Reiss S, Markin C, Brown KK, **Schwartz DA**, Schwarz MI, Loyd JE, Phillips Iii JA, Blackwell TS, Cogan JD. *Am J Respir Crit Care Med*. 2017 Apr 17. PMID: 28414520

[Epigenomic study identifies a novel mesenchyme homeobox2-GLI1 transcription axis](#)

[involved in cancer drug resistance, overall survival and therapy prognosis in lung cancer patients.](#) Armas-López L, Piña-Sánchez P, Arrieta O, Guzman de Alba E, Ortiz-Quintero B, Santillán-Doherty P, Christiani DC, Zúñiga J, Ávila-Moreno F. *Oncotarget*. 2017 May 9. PMID: 28537914

[Variable Susceptibility to Cigarette Smoke-Induced Emphysema in 34 Inbred Strains of Mice Implicates Abi3bp in Emphysema Susceptibility.](#) Radder JE, Gregory AD, Leme AS, Cho MH, Chu Y, Kelly NJ, Bakke P, Gulsvik A, Litonjua AA, Sparrow D, Beaty TH, Crapo JD, Silverman EK, Zhang Y, Berndt A, Shapiro SD. *Am J Respir Cell Mol Biol*. 2017 Apr 25. PMID: 28441029

[Alpha-1 Antitrypsin PI MZ Genotype Is Associated with COPD in Two Racial Groups.](#) Foreman MG, Wilson C, DeMeo DL, Hersh CP, Beaty TH, Cho MH, Ziniti J, Curran-Everett D, Criner G, Hokanson JE, Brantly M, Rouhani FN, Sandhaus RA, Crapo JD, Silverman EK; COPD Gene Investigators. *Ann Am Thorac Soc*. 2017 Apr 5. PMID: 28380308

## **Pathogens**

[Nasopharyngeal viral PCR in immunosuppressed patients and its association with virus detection in bronchoalveolar lavage by PCR.](#) Lachant DJ, Croft DP, McGrane Minton H, Prasad P, Kottmann RM. *Respirology*. 2017 Apr 5. PMID: 28382762

[Structural Basis for Asymmetric Conductance of the Influenza M2 Proton Channel Investigated by Solid-State NMR Spectroscopy.](#) Mandala VS, Liao SY, Kwon B, Hong M. *J Mol Biol*. 2017 May 20. PMID: 28535993

[Perinatal Bacterial Exposure Contributes to IL-13 Aeroallergen Response.](#) Turturice BA, Ranjan R, Nguyen B, Hughes LM, Andropolis KE, Gold DR, Litonjua AA, Oken E, Perkins DL, Finn PW. *Am J Respir Cell Mol Biol*. 2017 Apr 26. PMID: 28443674

[Influenza vaccination modifies disease severity among community-dwelling adults hospitalized with influenza.](#) Arriola CS, Garg S, Anderson EJ, Ryan PA, George A, Zansky SM, Bennett N, Reingold A, Bargsten M, Miller L, Yousey-Hindes K, Tatham L, Bohm SR, Lynfield R, Thomas A, Lindegren ML, Schaffner W, Fry AM, Chaves SS. *Clin Infect Dis*. 2017 May 19. PMID: 28525597

## **Cancer**

[Cytologic features of a feline inductive odontogenic tumor.](#) Leite-Filho RV, Tagliari NJ, Grandi F, Laisse CJM, Gerardi DG, Pavarini SP. *Vet Clin Pathol*. 2017 May 16. PMID: 28510282

[INTU is essential for oncogenic Hh signaling through regulating primary cilia formation in basal cell carcinoma.](#) Yang N, Leung EL, Liu C, Li L, Eguether T, Jun Yao XJ, Jones EC, Norris DA, Liu A, Clark RA, Roop DR, Pazour GJ, Shroyer KR, Chen J. *Oncogene*. 2017 May 1. PMID: 28459465

[Effect of Combined Patient Decision Aid and Patient Navigation vs Usual Care for Colorectal Cancer Screening in a Vulnerable Patient Population: A Randomized Clinical Trial.](#) Reuland DS, Brenner AT, Hoffman R, McWilliams A, Rhyne RL, Getrich C, Tapp H, Weaver MA, Callan D, Cubillos L, Urquieta de Hernandez B, Pignone MP. *JAMA Intern Med*. 2017 May 15. PMID: 28505217

[Interleukin-17A Promotes Lung Tumor Progression through Neutrophil Attraction to Tumor Sites and Mediating Resistance to PD-1 Blockade.](#) Akbay EA, Koyama S, Liu Y, Dries R, Bufe LE, Silkes M, Alam MM, Magee DM, Jones R, Jinushi M, Kulkarni M, Carretero J, Wang X, Warner-Hatten T, Cavanaugh JD, Osa A, Kumanogoh A, Freeman GJ, Awad MM,

Christiani DC, Bueno R, Hammerman PS, Dranoff G, Wong KK. J Thorac Oncol. 2017 May 6.

PMID: 28483607

[Bladder Recurrence of Clear Cell Sarcoma of the Kidney Seven Years After Initial Presentation.](#) Weaver J, Ho T, Lang A, Koenig JF, Coplen DE, Dehner L, Traxel EJ.

Urology. 2017 Apr 21. pii: S0090-4295(17)30379-5. PMID: 28438624

## **Biomarkers**

[A Two Biomarker Model Predicts Mortality in the Critically Ill with Sepsis.](#) Mikacenic C, Price BL, Harju-Baker S, O'Mahony DS, Robinson-Cohen C, Radella F, Hahn WO, Katz R, Christiani DC, Himmelfarb J, Liles WC, Wurfel MM. Am J Respir Crit Care Med. 2017 Apr 18. PMID: 28418697

## **Public Health, Health Policy, and Healthcare Outcomes**

[Nurses on the move: Robert Wood Johnson Foundation nurse faculty scholars and their action on the social determinants of health.](#) Ogbolu Y, Ford J, Cohn E, Gillespie GL. Ethn Health. 2017 Apr 11:1-11. PMID:28398087

## **Nutrition**

[A short course of gamma-tocopherol mitigates LPS-induced inflammatory responses in humans ex vivo.](#) Burbank AJ, Duran CG, Almond M, Wells H, Jenkins S, Jiang Q, Yang C, Wang T, Zhou H, Hernandez ML, Peden DB. J Allergy Clin Immunol. 2017 May 12. PMID:28506847

## **Techniques and Methodology**

[Cluster Analysis in Nursing Research: An Introduction, Historical Perspective, and Future Directions.](#) Dunn H, Quinn L, Corbridge SJ, **Eldeirawi K**, Kapella M, Collins EG.

West J Nurs Res. 2017 May 1. PMID: 28508702

[How well does CAPTURE™ Translate? An Exploratory Analysis of a COPD Case-Finding Method for Spanish-Speaking Patients.](#) Quezada WA, Whippo BA, Jellen PA, Leidy NK, **Mannino D**, Kim KJ, Han MK, Houfek JF, Make B, Malley KG, Meldrum CA, Rennard S, Yawn BP, Martinez F, Thomashow BM; High-Risk-COPD Screening Study Group.

Chest. 2017 Apr 13. PMID: 28414029

[From Data to Improved Decisions: Operations Research in Healthcare Delivery.](#) Capan M, Khojandi A, Denton BT, Williams KD, Ayer T, Chhatwal J, Kurt M, Lobo JM, Roberts MS, Zaric G, Zhang S, Schwartz JS. Med Decis Making. 2017 Apr 1. PMID: 28423982

## **Tobacco Products**

[Prenatal environmental tobacco smoke exposure increases allergic asthma risk with methylation changes in mice.](#) Christensen S, Jaffar Z, Cole E, Porter V, Ferrini M, Postma B, **Pinkerton KE**, Yang M, Kim YJ, Montrose L, Roberts K, Holian A, Cho YH. Environ Mol Mutagen. 2017 May 25. PMID: 28543436

[Receptivity to Tobacco Advertising and Susceptibility to Tobacco Products.](#) Pierce JP, Sargent JD, White MM, Borek N, Portnoy DB, Green VR, Kaufman AR, Stanton CA, Bansal-Travers M, Strong DR, Pearson JL, Coleman BN, Leas E, Noble ML, Trinidad DR, Moran MB, Carusi C, Hyland A, Messer K. Pediatrics. 2017 May 22. PMID:28562266

[Susceptibility to tobacco product use among youth in wave 1 of the population Assessment of tobacco and health \(PATH\) study.](#) Trinidad DR, Pierce JP, Sargent JD, White MM, Strong DR, Portnoy DB, Green VR, Stanton CA, Choi K, Bansal-Travers M, Shi Y, Pearson JL, Kaufman AR, Borek N, Coleman BN, Hyland A, Carusi C, Kealey S, Leas E, Noble ML, Messer K. *Prev Med.* May 17. PMID: 28526392

[Flavored E-cigarette Liquids and Cinnamaldehyde Impair Respiratory Innate Immune Cell Function.](#) Clapp PW, Pawlak EA, Lackey JT, Keating JE, Reeber SL, Glish GL, **Jaspers I.** *Am J Physiol Lung Cell Mol Physiol.* 2017 May 11. PMID: 28495856

## ATS Research Foundation Grants

There is currently a call for ATS Research Foundation Grant applications from junior investigators. The deadline for a letter of intent is **June 6, 2017**. More information is available at <http://www.thoracic.org/professionals/research/research-program-portfolio/index.php>.

## One Hundred Years of AJRCCM

This is the 100-year anniversary of the American Journal of Respiratory and Critical Care Medicine. To find out more about the history of the Blue Journal, check out the ATS video with the AJRCCM Editor-in-Chief Jadwiga Wedzicha, MD at <https://www.youtube.com/watch?v=3XN3nLlrQec&feature=youtu.be>.

## The ATS EOPH Assembly Encourages the Research and Career Development of Trainees

**By 2017 EOPH Abstract Scholarship Awardee Claire McCarthy, MS**

As a trainee, I am grateful for the support that I have received from the ATS EOPH Assembly. The EOPH mentorship program has allowed me to meet and learn from experts in environmental respiratory research. The assembly, especially Kris Bailey, also gave me the chance to get involved with an ATS committee as a graduate student. I had previously thought that only established investigators and clinicians could be a member of an ATS group, and am grateful that I can be a member of the EOPH Web Editorial Team. Being a part of the group has helped me improve my communications skills and network with other researchers. The EOPH Assembly has also allowed me to present my experimental findings related to household air pollution at EOPH sessions during the ATS conference. However, I am not the only one who has received training and encouragement from the EOPH Assembly.

Each year, the EOPH Assembly gives Abstract Scholarship Awards to trainees. These awards help students, post-docs, and clinicians attend the ATS conference, where they can share their exciting results with the ATS community. This year's EOPH Abstract Award winners were able to communicate important findings on the role of metabolites during environmental lung diseases, impact of early life exposures on lung

function later in life, toxicological effects of household pollutants from cookstoves, identification of individuals with lung diseases using insurance claims data, impact of occupational exposures on lung inflammation, relationship between weight and lung diseases, and biological mechanisms of outdoor air pollutants, including diesel exhaust, that cause pulmonary diseases. Additionally, the EOPH Assembly helped them build their professional network and receive guidance from other respiratory researchers.

Nuria Camiña, a PhD student at King's College London, was able to present her work examining particle oxidative potential in urban particulate matter collected from different sites in London. She found that the metal content of particulates largely determines their oxidative potential, but ozone and photochemistry can also play a role. This relates to associations between fine particulate matter exposure and respiratory hospital admissions, which are influenced by the oxidative potential of particles. Additionally, Nuria attended the EOPH Assembly Meeting where she was able to meet and collaborate with other EOPH members.

Another individual who was supported with an ATS EOPH Abstract Scholarship is Lauren Kepple, an ASPPH/CDC Public Health Fellow. She shared her findings identifying beneficiaries likely to have silicosis in a health insurance claims database. She was able to determine suitable definitions for silicosis cases that allowed her to calculate the prevalence of silicosis in that population. She is also currently examining the incidence of silicosis and comorbidities associated with silicosis in the health insurance claims database. Also, the opportunity to present her research at an EOPH session allowed Lauren to receive valuable feedback from ATS conference attendees.

George Crowley, a trainee at New York University, discussed his research of metabolites related to lung injury in firefighters exposed to World Trade Center particulate matter. He identified a metabolic profile that differentiated exposed firefighters with reduced lung function and firefighters' resistant to World Trade Center-related lung injury. He found that the World Trade Center-lung injury resistant group displayed increased expression of several omega-3 fatty acids (that act as anti-inflammatory mediators) and branched chain amino acids (that contribute to the synthesis of complex metabolites). Along with communicating his research, the 2017 ATS EOPH Awards Dinner gave George the chance to network with EOPH assembly members, as well as helped him gain new perspectives on the implications of his research.

Similarly, EOPH trainee Sophia Kwon, DO, MPH at Hackensack University Medical Center, investigates the health effects of exposure to World Trade Center particulate matter in rescue and recovery workers. She has identified biomarkers of metabolic syndrome and vascular disease that predict the development of World Trade Center-lung injury in symptomatic individuals. Currently, she is examining these metabolically active biomarkers in the entire cohort of the Fire Department of New York City (FDNY). Sophia's research aims to define a biomarker profile that will identify pathways involved in World Trade Center particulate matter-associated lung diseases. In addition to supporting her research, the EOPH Assembly provided an encouraging environment where she could present her work and allowed her to connect with established experts in the field of environmental and occupational health. The EOPH assembly provided guidance for her research and training.

An EOPH trainee in genetic and molecular epidemiology at Brigham and Women's Hospital Harvard Medical School, Rachel Kelly, MPH, PhD, studies how environmental exposures lead to diseases, specifically asthma, preeclampsia, and



idiopathic pulmonary fibrosis. She uses integrative “omics” data (including genetic, transcriptomic, epigenetic and metabolomic information) to determine the mechanisms of disease pathogenesis, identify novel biomarkers to diagnose and monitor the development of diseases, and identify potential therapeutic targets. Furthermore, ATS EOPH Abstract Scholarship awards have allowed her to attend ATS conferences. “The benefits of such meetings for an early career investigator in terms of constructive feedback, networking, and learning about all the newest developments in the field are immeasurable.”

These are just a few examples of the trainee research and career development supported by the ATS EOPH from three of the 2017 ATS EOPH Abstract Awardees. Congratulations to all of the 2017 ATS Abstract Awardees (see the list below), and thank you ATS EOPH Assembly members for supporting trainee scientists and clinicians!

### **2017 ATS Abstract Award Winners**

James Allinson, MRCP, BM, BCH, BA – Imperial College London

Nuria Camiña, MSc – MRC-PHE Centre for Environment and Health and King’s College London

Daniel Croft, MD, MPH – University of Rochester Medical Center

George Crowley – NYU Medical Center

Graham S. Flitz, MS, BS – University of California, Berkeley

Andrew Freeman, MD - University of Utah School of Medicine

Matthew Grigsby, MSPH - Johns Hopkins University, School of Medicine

Stephanie M. Holm, MD - UCSF

Rachel S. Kelly, MPH, PhD - Brigham and Women's Hospital Harvard Medical School

Lauren Kepple, MPH - ASPPH/CDC, National Institute for Occupational Safety and Health

Sophia Kwon, DO, MPH - Hackensack University Medical Center

Chris C. Lim, MS – NYU School of Medicine

Sithembile L. Mabila, MSci – University of Illinois at Chicago

Claire E. McCarthy, MS - University of Rochester School of Medicine and Dentistry

Tara M. Nordgren, PhD – University of Nebraska Medical Center

Geneviève Racine, Bmed - Hopital du Sacre-Coeur de Montreal

Christopher F. Rider, BSc, PhD - University of British Columbia

Min Hyung Ryu, MSc – University of British Columbia



**Things Worth Celebrating!**

We would like to congratulate all of the ATS 2017 EOPH Assembly Award Winners!

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](mailto:kbailey@unmc.edu) or [tnordgren@unmc.edu](mailto:tnordgren@unmc.edu).

# Photos from the 2017 ATS EOPH Assembly and Lab coats for Lungs Rally!

