

Volume 6 | Issue 1  
Spring 2022

**EOPH WEB EDITORIAL COMMITTEE**

**Anna Nolan, MD, ATSF**

Website Director

[anna.nolan@med.nyu.edu](mailto:anna.nolan@med.nyu.edu)

**Sophia Kwon, DO, MPH**

Member

[Sophia.kwon@nyumc.org](mailto:Sophia.kwon@nyumc.org)

**Christopher Rider, PhD**

Member

[c.rider@ubc.ca](mailto:c.rider@ubc.ca)

**Nuria Camina Garcia, PhD**

Member

[caminagn@penmedicine.upenn.edu](mailto:caminagn@penmedicine.upenn.edu)

**Neha Solanki, MD**

Apprentice

[Neha.solanki@gmail.com](mailto:Neha.solanki@gmail.com)



**ASSEMBLY CONTACT**

Website:

<http://www.thoracic.org/go/eoph/>

Email: [eoph@thoracic.org](mailto:eoph@thoracic.org)

**TID SECTION WEB EDITORIAL  
COMMITTEE**

**Satya Achanta, DVM, PhD, DABT**

TID Web Director

[satya.achanta@duke.edu](mailto:satya.achanta@duke.edu)



*Dear EOPH Members,*



As we navigate through this pandemic and try to come to terms with our new normal, we have also decided to revamp how we communicate with the EOPH assembly. We hope everyone is staying safe and healthy as we continue to navigate and respond to the COVID-19 pandemic.

We have also included some resources to help everyone stay informed as to the current status of the pandemic.

Also included in this **Spring 2022** newsletter are some of our members' recent articles.

We would also like to receive your feedback to identify strengths and areas of improvement for the newsletter going forward. **Please participate in a 5-minute survey** regarding your experience with the newsletter, and contribute to a word cloud to be published in the next edition of the newsletter. You can find the survey link at <https://www.surveymonkey.com/r/CVYGJ8G>.

This link will be open until **May 18, 2022**.

If you have a recent publication or other items (available jobs, lectures/seminars) that you would like to share in the upcoming newsletter, please send the title and citation link to [sophia.kwon@nyulangone.org](mailto:sophia.kwon@nyulangone.org) and TID Section relevant postings to [satya.achanta@duke.edu](mailto:satya.achanta@duke.edu).

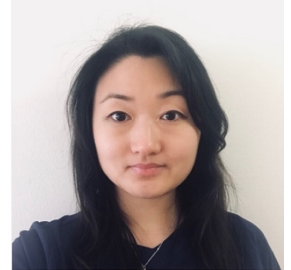
Best,

**EOPH Web Committee**

## Junior Member Highlight

---

For this edition of the newsletter, we would like to highlight Dr. **Sophia Kwon, DO, MPH**, from New York University Grossman School of Medicine. She has been working with the World Trade Center exposed Fire Department of New York City –NYU collaboration for the past 12 years focusing on longitudinal biomarkers of disease in this cohort of firefighters with exposure to World Trade Center particulate matter. Her recent work [“Dynamic Metabolic Risk Profile of World Trade Center Lung Disease: A Longitudinal Cohort Study”](#) published in the American Journal of Respiratory and Critical Care Medicine and was highlighted in an [editorial](#) by Dr. Fernando Holguin.



Metabolic syndrome, having at least three out of five conditions including obesity, hyperlipidemia, hypertension, and insulin resistance, had been previously shown to have increased risk of developing persistent obstructive airways disease after World Trade Center exposure in this cohort (N=16000). Dr. Kwon has since investigated serial, longitudinal measurements and used several important models to better understand the complex temporal relationship between lung disease, exposure, and traditionally cardiovascular risk factors. She also assessed the potential reversibility of these biomarkers and found that reduction in the risk factors could also risk of lung disease. Dr. Kwon and her group also further created an interactive risk assessment calculator that could predict the dynamic risk based on metabolic syndrome risk factors.

This field is of particular interest given the rising concerns of climate change, subsequent worsening ambient particulate matter exposure, and comorbid metabolic syndrome that could give rise to further inflammatory sequelae and pulmonary disease. The frameshift in investigating traditional markers of cardiovascular disease and investigating them as pulmonary ones gives interesting thought to multiple areas to mitigate disease after particulate matter exposure. This quarter’s newsletter also reflects this burgeoning interest in the field with multiple interesting publications investigating the often-comorbid detriments to respiratory health: metabolic health and particulate matter exposure. The contribution of socioeconomic status also overlaps heavily with metabolic risk factors and respiratory disease.

Dr. Kwon is finishing her critical care fellowship at NYU, and has accepted a position as junior faculty with the same institution for the upcoming academic year. On behalf of the EOPH Web Editorial Committee, we congratulate her for her achievements and look forward to more of her future work.

Please let us know if you have junior members whose work you would like to have highlighted in the next newsletter! Please contact [anna.nolan@med.nyu.edu](mailto:anna.nolan@med.nyu.edu).

---

## 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 [Sophia.Kwon@nyulangone.org](mailto:Sophia.Kwon@nyulangone.org).

---

## SARS-CoV-2 / COVID-19

---

[Woodsmoke particle exposure prior to SARS-CoV-2 infection alters antiviral response gene expression in human nasal epithelial cells in a sex-dependent manner.](#) Brocke SA, Billings GT, Taft-Benz S, Alexis NE, Heise MT, **Jaspers I.** *Am J Physiol Lung Cell Mol Physiol.* 2022 Mar 1;322(3):L479-L494. doi: 10.1152/ajplung.00362.2021. Epub 2022 Feb 2. PMID: 35107034

[Ambient air pollution and COVID-19 incidence during four 2020-2021 case surges.](#) Sidell MA, Chen Z, Huang BZ, Chow T, **Eckel SP**, Martinez MP, Lurmann F, Thomas DC, **Gilliland FD**, Xiang AH. *Environ Res.* 2022 May 15;208:112758. doi: 10.1016/j.envres.2022.112758. Epub 2022 Jan 19. PMID: 35063430

---

## Asthma and Allergy

---

[Reducing asthma exacerbations in vulnerable children through a medical-legal partnership.](#)

Mainardi AS, Harris D, Rosenthal A, **Redlich CA**, Hu B, Fenick AM. *J Asthma.* 2022 Mar 7:1-8. doi: 10.1080/02770903.2022.2045307. Online ahead of print. PMID: 35188437

[Severe asthma and death in a worker using methylene diphenyl diisocyanate MDI asthma death.](#)

**Wisniewski AV**, Cooney R, Hodgson M, Giese K, Liu J, **Redlich CA.** *Am J Ind Med.* 2022 Mar;65(3):166-172. doi: 10.1002/ajim.23323. Epub 2022 Jan 14. PMID: 35028957

[A Murine Model of Ozone-induced Nonatopic Asthma from the Collaborative Cross.](#) Smith GJ, Tovar A, McFadden K, Moran TP, **Wagner JG**, **Harkema JR**, Kelada SNP. *Am J Respir Cell Mol Biol.* 2021 Dec;65(6):672-674. doi: 10.1165/rcmb.2020-0577LE. PMID: 34851239

[The Precision Interventions for Severe and/or Exacerbation-Prone \(PrecISE\) Asthma Network: An overview of Network organization, procedures, and interventions.](#) Georas SN, Wright RJ, Ivanova A, Israel E, LaVange LM, Akuthota P, Carr TF, Denlinger LC, Fajt ML, Kumar R, O'Neal WK, Phipatanakul W, Szeffler SJ, Aronica MA, Bacharier LB, Burbank AJ, Castro M, Crotty Alexander L, Bamdad J, Cardet JC, Comhair SAA, Covar RA, DiMango EA, Erwin K, Erzurum SC, Fahy JV, Gaffin JM, Gaston B, Gerald LB, Hoffman EA, Holguin F, Jackson DJ, James J, Jarjour NN, Kenyon NJ, Khatri S, Kirwan JP, Kraft M, Krishnan JA, **Liu AH**, Liu MC, Marquis MA, Martinez F, Mey J, Moore WC, Moy JN, Ortega VE, **Peden DB**, Pennington E, Peters MC, Ross K, Sanchez M, Smith LJ, Sorkness RL, Wechsler ME, Wenzel SE, White SR, Zein J, Zeki AA, Noel P; PrecISE Study Team. *J Allergy Clin Immunol.* 2022 Feb;149(2):488-516.e9. doi: 10.1016/j.jaci.2021.10.035. Epub 2021 Nov 29. PMID: 34848210

[Impact of Personal, Sub-hourly Exposure to Ultrafine Particles on Respiratory Health in Adolescents With Asthma.](#) Turner AL, Brokamp C, Wolfe C, Reponen T, **Ryan PH.** *Ann Am Thorac Soc.* 2022 Mar 22. doi: 10.1513/AnnalsATS.202108-947OC. Online ahead of print. PMID: 35315743

[Child maltreatment, anxiety and depression, and asthma among British adults in the UK Biobank.](#)

Han YY, Yan Q, Chen W, **Celedón JC.** *Eur Respir J.* 2022 Mar 17:2103160. doi: 10.1183/13993003.03160-2021. Online ahead of print. PMID: 35301250

[Severe asthma in children: Description of a large multidisciplinary clinical cohort.](#)

Forero Molina M, Okoniewski W, Puranik S, Aujla S, **Celedón JC**, Larkin A, Forno E. *Pediatr Pulmonol.* 2022 Mar 9. doi: 10.1002/ppul.25887. Online ahead of print. PMID: 35261210

[Diet, Asthma, and Severe Asthma Exacerbations in a Prospective Study of Puerto Rican Youth.](#)



Reyes-Angel J, Han YY, **Rosser F**, Forno E, Acosta-Pérez E, Canino G, **Celedón JC**. *J Allergy Clin Immunol Pract.* 2022 Feb 2;S2213-2198(22)00081-2. doi: 10.1016/j.jaip.2022.01.029. Online ahead of print. PMID: 35123101

[Asthma in the Americas: An Update: A Joint Perspective from the Brazilian Thoracic Society, Canadian Thoracic Society, Latin American Thoracic Society, and American Thoracic Society.](#)

Forno E, Brandenburg DD, Castro-Rodriguez JA, Celis-Preciado CA, Holguin F, Liciskai C, Lovinsky-Desir S, Pizzichini M, Teper A, Yang C, **Celedón JC**. *Ann Am Thorac Soc.* 2022 Apr;19(4):525-535. doi: 10.1513/AnnalsATS.202109-1068CME. PMID: 35030062

[Persistent overweight or obesity, lung function, and asthma exacerbations in Puerto Rican youth.](#)

Wong M, Han YY, **Rosser F**, Acosta-Pérez E, Canino G, Forno E, **Celedón JC**. *Ann Allergy Asthma Immunol.* 2022 Apr;128(4):408-413.e2. doi: 10.1016/j.anai.2022.01.004. Epub 2022 Jan 10. PMID: 35017083

[Using Bayesian time-stratified case-crossover models to examine associations between air pollution and "asthma seasons" in a low air pollution environment.](#)

Bozigar M, Lawson AB, Pearce JL, **Svendsen ER**, Vena JE. *PLoS One.* 2021 Dec 8;16(12):e0260264. doi: 10.1371/journal.pone.0260264. eCollection 2021. PMID: 34879071

[HEPA filtration intervention in classrooms may improve some students' asthma.](#) Vesper SJ, Wymer L, Coull BA, Koutrakis P, Amparito, Petty CR, Metwali N, Sheehan WJ, Gaffin JM, Permaul P, **Lai PS**, Bartnikas LM, Hauptman M, **Gold DR**, Baxi SN, Phipatanakul W. *J Asthma.* 2022 Mar 27:1-12. doi: 10.1080/02770903.2022.2059672. Online ahead of print. PMID: 35341426

## COPD, Chronic Bronchitis

[Household air pollution and COPD: cause and effect or confounding by other aspects of poverty?](#)

Mortimer K, Montes de Oca M, Salvi S, Balakrishnan K, Hadfield RM, Ramirez-Venegas A, Halpin DMG, Ozoh Obianuju B, Han MeiLan K, Perez Padilla R, Kirenga B, Balmes JR. *Int J Tuberc Lung Dis.* 2022 Mar 1;26(3):206-216. doi: 10.5588/ijtld.21.0570. PMID: 35197160; PMCID: PMC8886958.

[Household air pollution and COPD: cause and effect or confounding by other aspects of poverty?](#)

Mortimer K, Montes de Oca M, Salvi S, Balakrishnan K, Hadfield RM, Ramirez-Venegas A, Halpin DMG, Ozoh Obianuju B, Han MeiLan K, Perez Padilla R, Kirenga B, **Balmes JR**. *Int J Tuberc Lung Dis.* 2022 Mar 1;26(3):206-216. doi: 10.5588/ijtld.21.0570. PMID: 35197160

[Forced Expiratory Flow at 25%-75% Links COPD Physiology to Emphysema and Disease Severity in the SPIROMICS Cohort.](#)

Ronish BE, Couper DJ, Barjaktarevic IZ, Cooper CB, **Kanner RE**, Pirozzi CS, Kim V, Wells JM, Han MK, Woodruff PG, Ortega VE, Peters SP, Hoffman EA, Buhr RG, Dolezal BA, Tashkin DP, Liou TG, Bateman LA, Schroeder JD, Martinez FJ, Barr RG, Hansel NN, Comellas AP, Rennard SI, Arjomandi M, Paine lii R. *Chronic Obstr Pulm Dis.* 2022 Feb 2. doi: 10.15326/jcopdf.2021.0241. Online ahead of print. PMID: 35114743

[Racial and Ethnic Minorities Have a Lower Prevalence of Airflow Obstruction than Non-Hispanic Whites.](#)

**Sood A**, Petersen H, Liu C, Myers O, Shore XW, Gore BA, Vazquez-Guillamet R, Cook LS, Meek P, Tesfaigzi Y. *COPD.* 2022 Jan 31:1-8. doi: 10.1080/15412555.2022.2029384. Online ahead of print. PMID: 35099333

[Optimism is associated with respiratory symptoms and functional status in chronic obstructive pulmonary disease.](#)

Koo HK, Hoth KF, Make BJ, **Regan EA**, Crapo JD, Silverman EK, DeMeo DL. *Respir Res.* 2022 Jan 29;23(1):19. doi: 10.1186/s12931-021-01922-6. PMID: 35093071

[The Air We Breathe: Respiratory Impact of Indoor Air Quality in Chronic Obstructive Pulmonary Disease.](#)

Mkorombindo T, **Balmes JR**, Custovic A, Dransfield MT. *Am J Respir Crit Care Med.* 2022 Feb 15;205(4):378-380. doi: 10.1164/rccm.202112-2822ED. PMID: 35007496



[Chronic respiratory disease in adult outpatients in three African countries: a cross-sectional study.](#)

Binegdie AB, Meme H, El Sony A, Haile T, Osman R, Miheso B, Zurba L, Lesosky M, **Balmes J**, Burney PJ, Mortimer K, Devereux G. *Int J Tuberc Lung Dis.* 2022 Jan 1;26(1):18-25. doi: 10.5588/ijtld.21.0362.PMID: 34969424

[Forced Expiratory Flow at 25%-75% Links COPD Physiology to Emphysema and Disease Severity in the SPIROMICS Cohort.](#)

Ronish BE, Couper DJ, Barjaktarevic IZ, Cooper CB, Kanner RE, **Pirozzi CS**, Kim V, Wells JM, Han MK, Woodruff PG, Ortega VE, Peters SP, Hoffman EA, Buhr RG, Dolezal BA, **Tashkin DP**, Liou TG, Bateman LA, Schroeder JD, Martinez FJ, Barr RG, Hansel NN, Comellas AP, Rennard SI, Arjomandi M, Paine lii R. *Chronic Obstr Pulm Dis.* 2022 Feb 2. doi: 10.15326/jcopdf.2021.0241. Online ahead of print.PMID: 35114743

[Identifying and predicting severe bronchiolitis profiles at high risk for developing asthma: Analysis of three prospective cohorts.](#)

Fujiogi M, **Dumas O**, Hasegawa K, Jartti T, Camargo CA. *EClinicalMedicine.* 2022 Jan 4;43:101257. doi: 10.1016/j.eclinm.2021.101257. eCollection 2022 Jan.PMID: 35028545

[Panlobular emphysema is associated with COPD disease severity: A study of emphysema subtype by computed tomography.](#)

Wilgus ML, Abtin F, Markovic D, **Tashkin DP**, Phillips JE, Buhr RG, Flynn MJ, Dembek M, Cooper CB, Barjaktarevic I. *Respir Med.* 2022 Feb;192:106717. doi: 10.1016/j.rmed.2021.106717. Epub 2021 Dec 14.PMID: 35026616

[Race/Ethnicity, Spirometry Reference Equations, and Prediction of Incident Clinical Events: The Multi-Ethnic Study of Atherosclerosis \(MESA\) Lung Study.](#)

Elmaleh-Sachs A, Balte P, Oelsner EC, Allen NB, Baugh A, Bertoni AG, **Hankinson JL**, Pankow J, Post WS, Schwartz JE, Smith BM, Watson K, Barr RG. *Am J Respir Crit Care Med.* 2022 Mar 15;205(6):700-710. doi: 10.1164/rccm.202107-1612OC.PMID: 34913853

[Benefit of Prompt versus Delayed Use of Single-Inhaler Fluticasone Furoate/Umeclidinium/Vilanterol \(FF/UMEC/VI\) Following a COPD Exacerbation.](#)

**Mannino D**, Bogart M, Germain G, Huang SP, Ismaila AS, Laliberté F, Jung Y, MacKnight SD, Stiegler MA, Duh MS. *Int J Chron Obstruct Pulmon Dis.* 2022 Mar 5;17:491-504. doi: 10.2147/COPD.S337668. eCollection 2022.PMID: 35281476

[Comparative Impact of Depressive Symptoms and FEV<sub>1</sub>% on Chronic Obstructive Pulmonary Disease.](#)

O'Toole J, Woo H, **Putchá N**, Cooper CB, Woodruff P, Kanner RE, Paine R, Bowler RP, Comellas A, Hoth KF, Krishnan JA, Han M, Dransfield M, Iyer AS, Couper D, Peters SP, Criner G, Kim V, Barr RG, Martinez FJ, Hansel NN, Eakin MN; SPIROMICS Investigators. *Ann Am Thorac Soc.* 2022 Feb;19(2):171-178. doi: 10.1513/AnnalsATS.202009-1187OC.PMID: 34410883

[Mortality and Exacerbation Risk by Body Mass Index in Patients with COPD in TIOSPIR and UPLIFT.](#)

**Putchá N**, Anzueto AR, Calverley PMA, Celli BR, Tashkin DP, Metzdorf N, Mueller A, Wise RA. *Ann Am Thorac Soc.* 2022 Feb;19(2):204-213. doi: 10.1513/AnnalsATS.202006-722OC.PMID: 34406915

[Home Dust Allergen Exposure Is Associated with Outcomes among Sensitized Individuals with Chronic Obstructive Pulmonary Disease.](#)

**Putchá N**, Woo H, McCormack MC, Fawzy A, Romero K, Davis MF, Wise RA, **Diette GB**, Koehler K, Matsui EC, Hansel NN. *Am J Respir Crit Care Med.* 2022 Feb 15;205(4):412-420. doi: 10.1164/rccm.202103-0583OC.PMID: 34752729

[Impact of Exposure to Diesel Exhaust on Inflammation Markers and Proteases in Former Smokers with COPD: A Randomized, Double-Blinded, Crossover Study.](#)

Ryu MH, Afshar T, Li H, Wooding DJ, Orach J, Zhou JS, Murphy S, Lau KS, Schwartz C, Yuen ACY, **Rider CF**, **Carlsten C**. *Am J Respir Crit Care Med.* 2022 Feb 24. doi: 10.1164/rccm.202104-1079OC. Online ahead of print. PMID: 35202552

## Occupational Injuries and Environmental Exposures

[Chemistry, lung toxicity and mutagenicity of burn pit smoke-related particulate matter.](#) Kim YH, Warren SH, Kooter I, Williams WC, George IJ, Vance SA, Hays MD, Higuchi MA, Gavett SH, DeMarini DM, Jaspers I, Gilmour MI. *Part Fibre Toxicol.* 2021 Dec 16;18(1):45. doi: 10.1186/s12989-021-00435-w. PMID:34915899; PMCID: PMC8675519.

[Occupational health disparities:The pandemic as prism and prod.](#) Brigham E, Harris D, Carlsten C, Redlich CA. *J Allergy Clin Immunol.* 2021 Nov;148(5):1148-1150. doi: 10.1016/j.jaci.2021.09.007. Epub 2021 Sep 14. PMID:34534567; PMCID: PMC8452464.

[Pathology and Mineralogy Demonstrate Respirable Crystalline Silica is a Major Cause of Severe Pneumoconiosis in US Coal Miners.](#)

**Cohen RA, Rose CS, Go LHT**, Zell-Baran LM, AlMBERG KS, Sarver EA, Lowers HA, Iwaniuk C, Clingerman SM, Richardson DL, **Abraham JL**, Cool CD, Franko AD, Hubbs AF, Murray J, Orandle MS, Sanyal S, Vorajee NI, **Petsonk EL**, Zulfikar R, Green FHY. *Ann Am Thorac Soc.* 2022 Mar 30. doi: 10.1513/AnnalsATS.202109-1064OC. Online ahead of print. PMID: 35353671

[The effect of air pollution on the transcriptomics of the immune response to respiratory infection.](#)

**Croft, D. P.**, Burton, D. S., Nagel, D. J., Bhattacharya, S., Falsey, A. R., Georas, S. N. & McCall, M. N. *Scientific reports.* 2021. 11(1), 1-14  
PMCID: [PMC8484285](#) DOI: [10.1038/s41598-021-98729-8](#)

[Pneumococcal pneumonia on the job: Uncovering the past story of occupational exposure to metal fumes and dust.](#)

Torén K, Naidoo RN, **Blanc PD**. *Am J Ind Med.* 2022 Mar 29. doi: 10.1002/ajim.23352. Online ahead of print. PMID: 35352358

[Current global perspectives on silicosis-Convergence of old and newly emergent hazards.](#)

Hoy RF, Jeebhay MF, Cavalin C, Chen W, **Cohen RA**, Fireman E, **Go LHT**, León-Jiménez A, Menéndez-Navarro A, Ribeiro M, Rosental PA. *Respirology.* 2022 Mar 18. doi: 10.1111/resp.14242. Online ahead of print. PMID: 35302259

[Cumulative occupational exposure to inorganic dust and fumes and invasive pneumococcal disease with pneumonia.](#)

Torén K, **Blanc PD**, Naidoo R, Murgia N, Stockfelt L, Schiöler L. *Int Arch Occup Environ Health.* 2022 Mar 9. doi: 10.1007/s00420-022-01848-6. Online ahead of print.

[Small airways and airspace inflammation and injury distinguish lung histopathology in deployed military personnel from healthy and diseased lungs.](#)

**Rose CS**, Moore CM, Zell-Baran LM, Krefft S, Wolff J, Pang K, Parr J, Cool C. *Hum Pathol.* 2022 Feb 28:S0046-8177(22)00047-8. doi: 10.1016/j.humpath.2022.02.014. Online ahead of print. PMID: 35240130

[Prevalence and severity of abnormal lung function among US former coal miners with and without radiographic coal workers' pneumoconiosis.](#) **Go LHT**, AlMBERG KS, **Rose CS**, Zell-Baran LM, Harris DA, Tomann M, Friedman LS, Weems DJ, Vonhof W, Mastel KM, **Cohen RA**. *Occup Environ Med.* 2022 Feb 11:oemed-2021-107872. doi: 10.1136/oemed-2021-107872. PMID: 35149597

[Dusty trades and associated rheumatoid arthritis in a population-based study in the coal mining counties of Appalachia.](#) Schmajuk G, Trupin L, Yelin EH, **Blanc PD**. *Occup Environ Med.* 2022 Jan 5:oemed-2021-107899. doi: 10.1136/oemed-2021-107899. PMID: 34987082

[Chemistry, lung toxicity and mutagenicity of burn pit smoke-related particulate matter.](#)

Kim YH, Warren SH, Kooter I, Williams WC, George IJ, Vance SA, Hays MD, Higuchi MA, Gavett SH, DeMarini DM, **Jaspers I**, Gilmour MI. *Part Fibre Toxicol.* 2021 Dec 16;18(1):45. doi: 10.1186/s12989-021-00435-w. PMID: 3491589

[Transcriptomics of single dose and repeated carbon black and ozone inhalation co-exposure highlight progressive pulmonary mitochondrial dysfunction.](#)

Hathaway QA, Majumder N, Goldsmith WT, Kunovac A, Pinti MV, **Harkema JR**, Castranova V, Hollander JM, Hussain S. *Part Fibre Toxicol.* 2021 Dec 15;18(1):44. doi: 10.1186/s12989-021-00437-8. PMID: 34911549

[Association of Outdoor Ambient Fine Particulate Matter With Intracellular White Matter Microstructural Properties Among Children.](#)

Burnor E, Cserbik D, Cotter DL, Palmer CE, Ahmadi H, **Eckel SP**, Berhane K, McConnell R, Chen JC, Schwartz J, Jackson R, Herting MM. *JAMA Netw Open.* 2021 Dec 1;4(12):e2138300. doi: 10.1001/jamanetworkopen.2021.38300. PMID: 34882178

[Coal mine dust lung disease in miners killed in the Upper Big Branch disaster: a review of lung pathology and contemporary respirable dust levels in underground US coal mines.](#)

**Go LHT**, Green FHY, Abraham JL, Churg A, **Petsonk EL**, **Cohen RA**. *Occup Environ Med.* 2021 Dec 8:oemed-2021-107694. doi: 10.1136/oemed-2021-107694. PMID: 34880046

[Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR.](#)

Belz DC, Woo H, Putcha N, Paulin LM, Koehler K, Fawzy A, Alexis NE, Barr RG, Comellas AP, Cooper CB, Couper D, Dransfield M, Gassett AJ, Han M, Hoffman EA, Kanner RE, Krishnan JA, Martinez FJ, Paine R 3rd, Peng RD, Peters S, **Pirozzi CS**, Woodruff PG, **Kaufman JD**, Hansel NN; SPIROMICS Investigators. *Sci Total Environ.* 2022 Mar 19;829:154694. doi: 10.1016/j.scitotenv.2022.154694. PMID: 35318050

[Acute air pollution exposure increases TETs in human PBMCs.](#)

Li H, Ryu MH, Orach J, Yuen A, Lau KSK, Yeung C, Wen W, **Carlsten C**. *J Allergy Clin Immunol.* 2022 Mar 31:S0091-6749(22)00438-9. doi: 10.1016/j.jaci.2022.03.018. PMID: 35367469

[Controlled human exposure to diesel exhaust: a method for understanding health effects of traffic-related air pollution.](#)

Long E, Schwartz C, **Carlsten C**. *Part Fibre Toxicol.* 2022 Feb 25;19(1):15. doi: 10.1186/s12989-022-00454-1. PMID: 35216599

[Effects of Traffic-Related Air Pollution on Exercise Endurance, Dyspnea, and Cardiorespiratory Responses in Health and COPD: A Randomized, Placebo-Controlled, Crossover Trial.](#)

Syed N, Ryu MH, Dhillon S, Schaeffer MR, Ramsook AH, Leung JM, Ryerson CJ, **Carlsten C**, Guenette JA; Canadian Respiratory Research Network. *Chest.* 2022 Mar;161(3):662-675. doi: 10.1016/j.chest.2021.10.020. Epub 2021 Oct 23. PMID: 34699772

[Lung cancer incidence among world trade center rescue and recovery workers.](#)

Sigel K, **de la Hoz RE**, Markowitz SB, Kong CY, Stone K, Todd AC, Wisnivesky JP. *Cancer Med.* 2022 Mar 28. doi: 10.1002/cam4.4672. PMID: 35343066

[Live cell imaging of oxidative stress in human airway epithelial cells exposed to isoprene hydroxyhydroperoxide.](#) Masood S, Pennington ER, Simmons SO, **Bromberg PA**, Shaikh SR, Rice RL, Gold A, Zhang Z, **Samet JM**. *Redox Biol.* 2022 Mar 15;51:102281. doi: 10.1016/j.redox.2022.102281. Online ahead of print. PMID: 35306372



## Neonatal and Pediatric Disease

---

### [Daily Associations of Air Pollution and Pediatric Asthma Risk Using the Biomedical REAI-Time Health Evaluation \(BREATHE\) Kit.](#)

Hao H, **Eckel SP**, Hosseini A, Van Vliet EDS, Dzibur E, Dunton G, Chang SY, Craig K, Rocchio R, Bastain T, **Gilliland F**, Okelo S, Ross MK, Sarrafzadeh M, Bui AAT, Habre R. *Int J Environ Res Public Health*. 2022 Mar 17;19(6):3578. doi: 10.3390/ijerph19063578. PMID: 35329265

### [Quantification and Analysis of Micro-Level Activities Data from Children Aged 1-12 Years Old for Use in the Assessments of Exposure to Recycled Tire on Turf and Playgrounds.](#)

Lopez-Galvez N, Claude J, Wong P, Bradman A, Hyland C, Castorina R, Canales RA, Billheimer D, Torabzadeh E, Leckie JO, **Beamer PI**. *Int J Environ Res Public Health*. 2022 Feb 21;19(4):2483. doi: 10.3390/ijerph19042483. PMID: 35206675

### [Prenatal Exposure to Air Pollution and Autism Spectrum Disorder: Sensitive Windows of Exposure and Sex Differences.](#)

Rahman MM, Shu YH, Chow T, Lurmann FW, Yu X, Martinez MP, Carter SA, **Eckel SP**, Chen JC, Chen Z, Levitt P, Schwartz J, McConnell R, Xiang AH. *Environ Health Perspect*. 2022 Jan;130(1):17008. doi: 10.1289/EHP9509. Epub 2022 Jan 18. PMID: 35040691

### [The role of growth and nutrition in the early origins of spirometric restriction in adult life: a longitudinal, multicohort, population-based study.](#)

Voraphani N, Stern DA, Zhai J, Wright AL, Halonen M, **Sherrill DL**, Hallberg J, Kull I, Bergström A, Murray CS, Lowe L, Custovic A, Morgan WJ, Martinez FD, Melén E, Simpson A, Guerra S. *Lancet Respir Med*. 2022 Jan;10(1):59-71. doi: 10.1016/S2213-2600(21)00355-6. Epub 2021 Nov 26. PMID: 34843665

### [Variability and predictors of urinary organophosphate ester concentrations among school-aged children.](#)

Louis LM, Quirós-Alcalá L, Kuiper JR, **Diette G**, Hansel NN, McCormack MC, Meeker JD, Buckley JP. *Environ Res*. 2022 Mar 25;113:192. doi: 10.1016/j.envres.2022.113192. PMID: 35346652

### [Comparison of the Respiratory Resistomes and Microbiota in Children Receiving Short versus Standard Course Treatment for Community-Acquired Pneumonia.](#)

Pettigrew MM, Kwon J, **Gent JF**, Kong Y, Wade M, Williams DJ, Creech CB, Evans S, Pan Q, Walter EB, Martin JM, Gerber JS, Newland JG, Hofto ME, Staat MA, Fowler VG, Chambers HF, Huskins WC; Antibacterial Resistance Leadership Group. *mBio*. 2022 Mar 24:e0019522. doi: 10.1128/mbio.00195-22. Online ahead of print. PMID: 35323040

## Global Health

---

### [Use, cost-effectiveness, and end user perspectives of a home solar lighting intervention in rural Uganda: a mixed methods, randomized controlled trial.](#)

Sundararajan R, D' Couto H, Mugerwa J, Tayebwa M, Lam N, Wallach E, Wiens M, Ponticiello M, Stanistreet D, Tsai AC, 8, Vallarino J, Allen JG, Muyanja D, Shrimme MG, Nuwagira E, Lai PS. *Environmental Research Letters*. 2022 Jan; 17(1): 015002. PMID: Pending. PMCID: PMC8923618.

### [Effect of a solar lighting intervention on fuel-based lighting use and exposure to household air pollution in rural Uganda: A randomized controlled trial.](#)

Wallach ES, Lam NL, Nuwagira E, Muyanja

D, Tayebwa M, Valeri L, Tsai AC, Jose Vallarino J, Allen JG, Lai PS. *Indoor Air*. 2022 Feb;32(2):e12986. PMID: 35225388.

## Climate Change, Public Health and Policy

[Global Health Impacts for Economic Models of Climate Change: A Systematic Review and Meta-Analysis.](#) Cromar KR, Anenberg SC, Balmes JR, Fawcett AA, Ghazipura M, Gohlke JM, Hashizume M, Howard P, Lavigne E, Levy K, Madrigano J, Martinich JA, Mordecai EA, Rice MB, Saha S, Scovronick NC, Sekercioglu F, Svendsen ER, Zaitchik BF, Ewart G. *Ann Am Thorac Soc*. 2022 Jan 24. doi:10.1513/AnnalsATS.202110-1193OC. Epub ahead of print. PMID: 35073249.

[Effect of desert dust storms and meteorological factors on respiratory diseases.](#)

Boğan M, Kul S, Al B, Oktay MM, Akpınar Elçi M, **Pinkerton KE**, Bayram H. *Allergy*. 2022 Mar 30. doi: 10.1111/all.15298. Online ahead of print. PMID: 35353917

[Sampling Low Air Pollution Concentrations at a Neighborhood Scale in a Desert U.S. Metropolis with Volatile Weather Patterns.](#)

Lothrop N, Lopez-Galvez N, Canales RA, O'Rourke MK, Guerra S, **Beamer P**. *Int J Environ Res Public Health*. 2022 Mar 8;19(6):3173. doi: 10.3390/ijerph19063173. PMID: 35328861

[Near-roadway air pollution, immune cells and adipokines among obese young adults.](#)

Rahman MM, Liu FF, **Eckel SP**, Sankaranarayanan I, Shafiei-Jahani P, Howard E, Baronikian L, Sattler F, Lurmann FW, Allayee H, Akbari O, McConnell R. *Environ Health*. 2022 Mar 19;21(1):36. doi: 10.1186/s12940-022-00842-2. PMID: 35305663

[Increases in ambient air pollutants during pregnancy are linked to increases in methylation of IL4, IL10, and IFN \$\gamma\$ .](#)

Aguilera J, Han X, Cao S, **Balmes J**, Lurmann F, Tyner T, Lutzker L, Noth E, Hammond SK, Sampath V, Burt T, Utz PJ, Khatri P, Aghaeepour N, Maecker H, Prunicki M, Nadeau K. *Clin Epigenetics*. 2022 Mar 14;14(1):40. doi: 10.1186/s13148-022-01254-2. PMID: 35287715

[Global Health Impacts for Economic Models of Climate Change: A Systematic Review and Meta-Analysis.](#)

Cromar KR, Anenberg SC, **Balmes JR**, Fawcett AA, Ghazipura M, Gohlke JM, Hashizume M, Howard P, Lavigne E, Levy K, Madrigano J, Martinich JA, Mordecai EA, Rice MB, Saha S, Scovronick NC, Sekercioglu F, Svendsen ER, Zaitchik BF, Ewart G. *Ann Am Thorac Soc*. 2022 Jan 24. doi: 10.1513/AnnalsATS.202110-1193OC. Online ahead of print. PMID: 35073249

[Effects of short-term increases in personal and ambient pollutant concentrations on pulmonary and cardiovascular function: A panel study analysis of the Multicenter Ozone Study in oldEr subjects \(MOSES 2\).](#)

**Frampton MW**, **Balmes JR**, **Bromberg PA**, Arjomandi M, **Hazucha MJ**, Thurston SW, Alexis NE, Ganz P, Zareba W, Koutrakis P, Thevenet-Morrison K, Rich DQ. *Environ Res*. 2022 Apr 1;205:112522. doi: 10.1016/j.envres.2021.112522. Epub 2021 Dec 15. PMID: 34919956

## Cigarettes, E-cigs, and other Tobacco or Cannabis Smoke Exposures

[Spatial analysis of tobacco outlet density on secondhand smoke exposure and asthma health among](#)

[children in Baltimore City.](#) Kaviany P, Senter JP, Collaco JM, Corrigan AE, Brigham E, Wood M, Woo H, Liu C, Koehl R, Galiatsatos P, Koehler K, Hansel N, McCormack M.

Tob Control. 2022 Jan 19;tobaccocontrol-2021-056878. doi: 10.1136/tobaccocontrol-2021-056878. Epub ahead of print. PMID: 35046128.

[The Nose Knows: Sniffing out the Unique Immunological Risk of Alternative Tobacco Products.](#)

Karey E, Hess J, Farrell K, Rebuli ME, Shearston JA, Lee L, Reed TA, Eazor J, Edid A, Shetty A, Khan S, Gibbon G, **Jaspers I**, Weitzman M, Gordon T. Am J Respir Cell Mol Biol. 2022 Apr;66(4):461-464. doi: 10.1165/rcmb.2021-0368LE. PMID: 35361069 .

[Cytokine signature clusters as a tool to compare changes associated with tobacco product use in upper and lower airway samples.](#)

Payton AD, Perryman AN, Hoffman JR, Avula V, Wells H, Robinette C, Alexis NE, **Jaspers I**, Rager JE, Rebuli ME. Am J Physiol Lung Cell Mol Physiol. 2022 Mar 23. doi: 10.1152/ajplung.00299.2021. Online ahead of print.

[Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR.](#)

Belz DC, Woo H, Putcha N, **Paulin LM**, Koehler K, Fawzy A, Alexis NE, Barr RG, Comellas AP, Cooper CB, Couper D, Dransfield M, Gassett AJ, Han M, Hoffman EA, **Kanner RE**, Krishnan JA, Martinez FJ, Paine R 3rd, Peng RD, Peters S, Pirozzi CS, Woodruff PG, Kaufman JD, Hansel NN; SPIROMICS Investigators. Sci Total Environ. 2022 Mar 19;829:154694. doi: 10.1016/j.scitotenv.2022.154694. Online ahead of print. PMID: 35318050

[Circulatory metabolites trigger ex vivo arterial endothelial cell dysfunction in population chronically exposed to diesel exhaust.](#)

Cheng W, Pang H, **Campen MJ**, Zhang J, Li Y, Gao J, Ren D, Ji X, Rothman N, Lan Q, Zheng Y, Leng S, Hu Z, Tang J. Part Fibre Toxicol. 2022 Mar 22;19(1):20. doi: 10.1186/s12989-022-00463-0. PMID: 35313899

[Reduced plasma phosphatidylethanolamines in e-cigarette, or vaping, product use-associated lung injury \(EVALI\).](#)

McGraw MD, **Croft DP**, Nacca NE, Rahman I. Pediatr Pulmonol. 2022 Feb 28. doi: 10.1002/ppul.25874. Online ahead of print. PMID: 35233972

[Effects of life-stage and passive tobacco smoke exposure on pulmonary innate immunity and influenza infection in mice.](#)

Wang L, Rajavel M, Wu CW, Zhang C, Poindexter M, Fulgar C, Mar T, Singh J, Dhillon JK, Zhang J, Yuan Y, Abarca R, Li W, **Pinkerton KE**. J Toxicol Environ Health A. 2022 Jun 3;85(11):439-456. doi: 10.1080/15287394.2022.2032518. Epub 2022 Feb 9. PMID: 35139765

[Effectiveness of e-cigarettes as aids for smoking cessation: evidence from the PATH Study cohort, 2017-2019.](#)

Chen R, Pierce JP, Leas EC, Benmarhnia T, Strong DR, **White MM**, Stone M, Trinidad DR, McMenamin SB, Messer K. Tob Control. 2022 Feb 7;tobaccocontrol-2021-056901. doi: 10.1136/tobaccocontrol-2021-056901. Online ahead of print. PMID: 35131948

[How Differential are the Effects of Smoking Cannabis Versus Tobacco on Lung Function? Tashkin](#)

**DP**, Barjaktarevic I. Am J Respir Crit Care Med. 2022 Feb 25. doi: 10.1164/rccm.202201-0062ED. Online ahead of print. PMID: 35213297

[Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR.](#)

Belz DC, Woo H, **Putcha N**, Paulin LM, Koehler K, Fawzy A, Alexis NE, Barr RG, Comellas AP, Cooper CB, Couper D, Dransfield M, Gassett AJ, Han M, Hoffman EA,



Kanner RE, Krishnan JA, Martinez FJ, Paine R 3rd, Peng RD, Peters S, Pirozzi CS, Woodruff PG, Kaufman JD, Hansel NN; SPIROMICS Investigators. *Sci Total Environ*. 2022 Mar 19;829:154694. doi: 10.1016/j.scitotenv.2022.154694. Online ahead of print. PMID: 35318050

[Vaping and Lung Inflammation and Injury](#). Park JA, Crotty Alexander LE, **Christiani DC**. *Annu Rev Physiol*. 2022 Feb 10;84:611-629. doi: 10.1146/annurev-physiol-061121-040014. Epub 2021 Nov 1. PMID: 34724436

## Cellular Mechanisms

[Oxysterols Modify NLRP2 in Epithelial Cells, Identifying a Mediator of Ozone-induced Inflammation](#).

Perryman A, Speen AM, Kim HH, Hoffman JR, Clapp PW, Rivera Martin W, Snouwaert JN, Koller BH, Porter NA, Jaspers I. *Am J Respir Cell Mol Biol*. 2021 Nov;65(5):500-512. doi: 10.1165/rcmb.2021-0032OC. PMID: 34126877; PMCID: PMC8641854.

## Sarcoidosis, Interstitial Lung Disease and Transplant

[Depressive symptoms in lung transplant recipients: trajectory and association with mortality and allograft dysfunction](#). Kolaitis NA, Gao Y, Soong A, Greenland JR, Hays SR, Golden JA, Venado A, Leard LE, Shah RJ, Kleinhenz ME, Katz PP, Kukreja J, **Blanc PD**, Smith PJ, Singer JP. *Thorax*. 2022 Mar 30;thoraxjnl-2021-217612. doi: 10.1136/thoraxjnl-2021-217612. Online ahead of print. PMID: 35354643

[Impact of Hepatopulmonary Syndrome in Liver Transplantation Candidates and the Role of Angiogenesis](#). Kawut SM, Krowka MJ, Forde KA, Al-Naamani N, Krok KL, Patel M, Bartoli CR, Doyle M, Moutchia J, Lin G, Oh JK, Mottram CD, **Scanlon PD**, Fallon MB; Pulmonary Vascular Complications of Liver Disease Study Group. *Eur Respir J*. 2021 Dec 23:2102304. doi: 10.1183/13993003.02304-2021. Online ahead of print. PMID: 34949701

[Prospective Identification of Subclinical Interstitial Lung Disease in a Rheumatoid Arthritis Cohort Is Associated with the \*MUC5B\* Promoter Variant](#). Matson SM, Deane KD, Peljto AL, Bang TJ, Sachs PB, Walts AD, Collora C, Ye S, Demoruelle MK, Humphries SM, **Schwartz DA**, Lee JS. *Am J Respir Crit Care Med*. 2022 Feb 15;205(4):473-476. doi: 10.1164/rccm.202109-2087LE. PMID: 34874815

[Possible Alternate Explanation for Cases of Idiopathic Pulmonary Fibrosis](#). **Frank AL**. *Ann Am Thorac Soc*. 2022 Mar 15. doi: 10.1513/AnnalsATS.202202-139LE. Online ahead of print. PMID: 35289726

[Variables Associated With Response to Therapy in Patients With Interstitial Pneumonia With Autoimmune Features](#). Joerns EK, Adams TN, Newton CA, Bermas B, Karp D, Batra K, Torrealba J, Davila L, Reisch J, **Glazer C**, Makris UE. *J Clin Rheumatol*. 2022 Mar 1;28(2):84-88. doi: 10.1097/RHU.0000000000001808. PMID: 34897197

[Early Radiographic Progression of Scleroderma: Lung Disease Predicts Long-term Mortality](#). Volkmann ER, **Tashkin DP**, Roth MD, Goldin J, Kim GHJ. *Chest*. 2021 Dec 8:S0012-3692(21)04435-4. doi: 10.1016/j.chest.2021.11.033. Online ahead of print. PMID: 34896093

[The Impact of Disease Severity Measures on Survival in U.S. Veterans with Rheumatoid Arthritis-Associated Interstitial Lung Disease](#). Brooks R, Baker JF, Yang Y, Roul P, Kerr GS, Reimold AM, Kunkel G, Wysham KD, Singh N, Lazaro D, Monach PA, **Poole JA**, Ascherman DP, Mikuls TR, England BR. *Rheumatology (Oxford)*. 2022 Apr 4;keac208. doi: 10.1093/rheumatology/keac208. Online ahead of print. PMID: 35377443

<https://www.docmatter.com/dm/app/profile/group/?id=12021>

## Member Announcements

### Overarching Goals of the Apprenticeship Program

The Environmental, Occupational and Population Health (EOPH) Assembly's Apprenticeship Program is designed to provide early career EOPH Assembly members with an opportunity to be directly involved in guiding the future of ATS. For the purposes of this application, we define "early career" as senior fellows or early career faculty (i.e. less than 3 years from fellowship), though other applications will be considered. Apprentices may serve on the Program, Planning or Web Committee (descriptions below). Under the mentorship of a committee member, Apprentices will get a 'behind the scenes' look at the operations of the EOPH Assembly while developing skills for evaluation of committee applications and development of committee projects. This provides important networking opportunities with current Committee members.

<https://www.thoracic.org/members/assemblies/assemblies/eoph/apprenticeship-program/index.php>

Please email Alex Noel [anoel@lsu.edu](mailto:anoel@lsu.edu) and Dan Croft [daniel\\_croft@urmc.rochester.edu](mailto:daniel_croft@urmc.rochester.edu) by May 13<sup>th</sup> (ATS 2022) if interested in the apprenticeship program.

Also, here is some mentoring info: We'll have a mentoring meeting spot and mentoring reception at the convention center. The Mentoring meeting spot will be available on Sun, 5/15 and Mon, 5/16 from 7 am – 7 pm.

We'll also have one mentoring reception after the membership meetings on Sun, 5/15 from 7 pm – 9 pm.

## Potential Faculty Positions

Please email us with and potential job openings that you would like included.

## Other RESOURCES

Are you interested in getting more involved with ATS and the EOPH assembly? Register to indicate your interest! <https://www.thoracic.org/members/assemblies/get-involved-with-ats.php>

## San Francisco Conference 2022



### Info

Below is a list of the EOPH Events. Hope you can join us.

### **EOPH Events at ATS2022**

#### **KEYNOTE**

**K2: CUTTING THROUGH THE SMOKE: CONFRONTING THE CLIMATE CRISIS THROUGH PATIENT CARE AND POLICY**

MONDAY, MAY 16 – 8:15 AM – 9:00 AM

#### **RAPID POSTER DISCUSSION**

**B25: ADVANCES IN OCCUPATIONAL LUNG DISEASE**

MONDAY, MAY 16 - 9:30 AM-11:00 AM

#### **MINI-SYMPOSIA**

**A14: INVESTIGATING COPD HEALTH INEQUITIES**

SUNDAY, MAY 15 - 9:30 AM-11:00 AM

**A95: THE IDEA GENERATOR: NOVEL RISK FACTORS AND FRESH APPROACHES TO DISEASE CHARACTERIZATION**

SUNDAY, MAY 15 - 2:15 PM-3:45 PM

**C95: WORLD TRADE CENTER 20TH ANNIVERSARY AND BEYOND**

TUESDAY, MAY 17 - 2:15 PM-3:45 PM

**D16: WILDFIRES AND WOODSMOKE**

WEDNESDAY, MAY 18 - 8:15 AM-9:45 AM

**THEMATIC POSTER****A48: SARS CoV-2: SURVEILLANCE, PREVENTION, AND IMPACT**

SUNDAY, MAY 15 - 9:30 AM-3:45 PM

**B48: OCCUPATIONAL AND EXPOSURE-RELATED CASE REPORTS**

MONDAY, MAY 16 - 9:30 AM-3:45 PM

**C50: EMERGING EPI IN OBSTRUCTIVE AND RESTRICTIVE LUNG DISEASE**

TUESDAY, MAY 17 - 9:30 AM-3:45 PM

**POSTER DISCUSSION****A25: TOBACCO AND THC HEALTH SCIENCE**

SUNDAY, MAY 15 - 9:30-11:00 AM

**B105: MORE CALLS TO ACTION: AIR POLLUTION EXPOSURES AND HEALTH**

MONDAY, MAY 16 - 2:15-3:45 PM

**C25: TERRORISM, INHALATIONAL DISASTERS, AND DEPLOYMENT-RELATED LUNG DISEASE**

TUESDAY, MAY 17 - 9:30-11:00 AM

**D15: THE VIEW AHEAD: EXPOSURE ASSESSMENT, COMMUNICATION, AND EARLY LIFE IMPACT**

WEDNESDAY, MAY 18 - 8:15-9:45 AM

**SCIENTIFIC SYMPOSIA****A12: (JOINT) THE FULL PICTURE: ASTHMA AS A CASE STUDY IN THE COMPLEXITIES OF EXPOSURE**

SUNDAY, MAY 15 - 9:30-11:00AM

**B9: COVID-19 PANDEMIC AND POST-PANDEMIC: DO AIR POLLUTION AND CLIMATE CHANGE HAVE A ROLE?**

MONDAY, MAY 16 - 9:30-11:00AM

**B92:(JOINT) THE PAST, PRESENT, AND FUTURE OF E-CIGARETTE OR VAPING ASSOCIATED LUNG ILLNESS (EVALI)**

MONDAY, MAY 16 - 2:15-3:45 PM

**C9: SEX, LUNGS, AND ENVIRONMENTAL EXPOSURES**

TUESDAY, MAY 17 - 9:30-11:00AM

**C12: (JOINT) ACHIEVING HEALTH EQUITY IN ASTHMA, LUNG CANCER, COPD, SLEEP, PULMONARY HYPERTENSION AND COVID-19**

TUESDAY, MAY 17 - 9:30-11:00AM

**D86: HEARTH OF THE MATTER: DO HOUSEHOLD AIR POLLUTION INTERVENTIONS IMPROVE HEALTH OUTCOMES**

WEDNESDAY, MAY 18 - 12:45-2:15 PM

**MEET THE EXPERT****ME31: MAPPING HEALTH AND EXPOSURE: GIS TO IMPRESS!**

TUESDAY, MAY 17 - 7:00-8:00AM

**ME41: UPDATE ON BURN PIT LEGISLATION AND ADVOCACY**

TUESDAY, MAY 17 - 12:15-1:15PM

**ME49: SLEEP HEALTH- A NEW FRONTIER OF HARM FROM AIR POLLUTION?**

WEDNESDAY, MAY 18 - 10:00-11:00AM



---

**Current Events**

---



(Photos Courtesy of Uwe Jaspers)

**March 2022**

**Dust storm from the Sahara Desert caused significant particulate deposits across Europe.**

Storm Celia off the northwest coast of Africa helped bring dust from the Sahara Desert into the atmosphere. Winds then pushed the dust northward into Europe, creating haunting scenes across the region. Dust concentrations in Spain were over five times the European Union's recommended threshold.

Climate change worsening Saharan dust being brought to areas of Europe is likely a contributor. Contributors include a change in wind and precipitation patterns and widespread desertification in Northern Africa.

We may likely see more of these events in the near future

Please send any future interesting photos and comments for future editions of the EOPH newsletter.

***PhD and Basic/Translational Focused Events at ATS2022***

---

Please see the below Brochure



## Get your start at the Annual ATS International Conference!

Present your science and receive feedback from experts in respiratory, critical care and sleep medicine.

The [Science and Innovation Center](#) is a conference resource for PhDs and other basic and translational scientists to network and learn about emerging new technologies in the field. Programing includes:

- Scientific and career development sessions
- Showcases of the latest research from early career researchers
- Sessions exploring innovative methods and emerging technologies
- Meet and greets with NIH program officers and industry biotech leaders
- Join us at the PhD Reception

To learn more, visit [conference.thoracic.org](http://conference.thoracic.org)

Scan here for more information on the **Science & Innovation Center**:



## Join the ATS!



Scan here to learn more and sign up today

 Follow us

[@ATSCommunity](#) | [@ATS\\_Assemblies](#) | [@ATSSIC](#)

**American Thoracic Society**

25 Broadway, 4th Fl. | New York, NY 10004  
thoracic.org



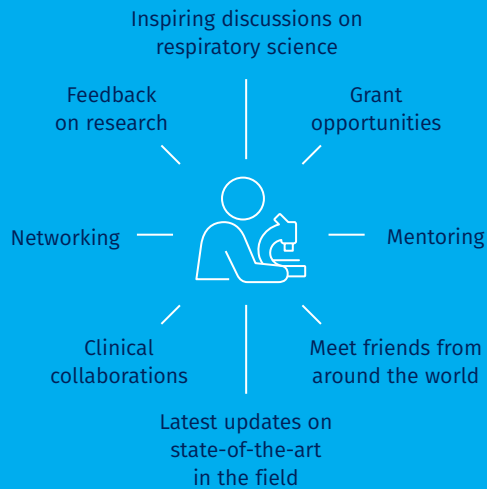
# PhDs

## Supercharge Your Career

PhD researchers are an extremely important constituency for achieving the mission of the ATS. Become a member and enjoy the many opportunities for PhD researchers within the ATS and contribute to the cutting edge science in our Society!







## Opportunities for PhDs within the ATS

- Be a part of the largest professional organization that focuses on the science of pulmonary, critical care, and sleep medicine
- Connect with mentors in pulmonary, critical care, and sleep medicine research and establish international networks with like-minded peers
- Collaborate with physician-scientists and network with industry representatives to facilitate translational research
- Submit proposals to influence conference programming to include your state-of-the-art research interests
- Join ATS Committees to advocate for your field
- Enjoy new opportunities for awards and recognition
- Access to the ATS Journals and discounts on submission fees

## The ATS enables strong and productive collaborations

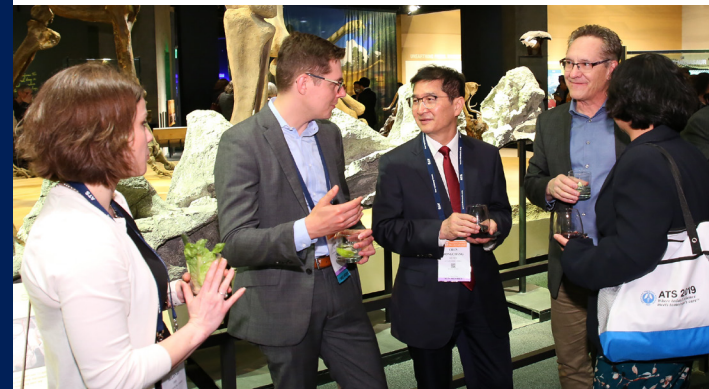
“The ATS improves global health by advancing research, patient care, and public health in pulmonary disease, critical illness, and sleep disorders. PhD researchers are essential members of our Society and engage at all levels of our organization. The close integration of researchers and clinicians is one of the aspects of the ATS that I find most valuable.”

-Lynn Schnapp, MD  
ATS President 2021-2022

## ATS PhD and Basic and Translational Scientist Working Group

Membership is predominantly non-clinicians from each of the structural divisions (Assemblies) within the ATS. Members advocate for the needs of PhD researchers within the ATS by...

- Providing a basic and translational research perspective toward event planning and Society-wide issues
- Promoting diversity, equity, and inclusion in the Society
- Advocating for early- and mid-career investigators, including exposure, support, and award opportunities







## Updates from Terrorism and Inhalation Disasters (TID) Section

Registration is open for 2022 ATS International Conference:  
[https://conference.thoracic.org/attendees/?\\_ga=2.208041300.737679429.1648001431-238064050.1634582619](https://conference.thoracic.org/attendees/?_ga=2.208041300.737679429.1648001431-238064050.1634582619)

### Highlights of TID Section at 2022 ATS International Conference:

This year onwards, TID Section will award two awards!!!

#### **1. Award for outstanding contributions to the mission of TID section**

The award will be given to an individual who has made outstanding scientific and scholarly contributions to areas related to the TID mission. Awardees will be presented with a framed certificate at the ATS International Conference.



#### **Eligibility and materials to be submitted**

- Associate or full professor (5 or more years from reaching the associate professor level or equivalent)
- Outstanding contributions to basic or translational science research, education and/or training in areas broadly related to TID
- Nominees must be an EOPH /TID member
- Nominations must include a cover letter (<2 pages) from an assembly member describing candidate's qualification and accomplishments and why the award is appropriate. Letters can be co-signed by more than one nominator. Members cannot self-nominate
- Nominee's curriculum vitae must be included in the submission.
- Previous awardees are not eligible for the same award
- Applications will be reviewed by the TID Executive Committee with members who are in conflict excluded.

#### **2. Outstanding TID Abstract award**

This award recognizes a trainee (graduate student, post-doctoral fellow, clinical trainee) or early scientist/faculty (within 3 years of first faculty appointment) for their abstract at the ATS International Conference related to TID. Awardees will be presented with a framed certificate at the ATS International Conference.

#### **Eligibility and Evaluation Criteria**

- Nominees must be an EOPH/TID member
- Previous awardees are not eligible for the same award
- Judging will be conducted by the EOPH program committee including TID delegates.

- The award will be selected based on the highest ranking abstract related to the work of TID that is submitted to an EOPH abstract category



TID Section is coming with an exciting agenda for the annual meeting. Stay tuned on the website and social media for the updates...

## In the news:

**Dr. Sven-Eric Jordt, PhD, an expert in nicotine and tobacco products, interviewed by *New York Times* on Rising Use of Synthetic Nicotine**

While the FDA has prohibited the sale of many electronic cigarette products, manufacturers have taken advantage of a loophole by selling e-cigarettes containing synthetic nicotine that the FDA wasn't authorized to regulate. The issue became so urgent that Congress decided to include legislation in the omnibus budget bill signed by President Biden on Friday, bringing synthetic nicotine under the FDA's authority. In this article, Dr. Sven-Eric Jordt raises concerns about the health effects of some forms of synthetic nicotine that differ from tobacco-derived nicotine.



<https://www.nytimes.com/2022/03/08/health/vaping-fda-nicotine.html?smid=url-share>

## COVID-19 Vaccination Materials

<https://www.thoracic.org/vaccine-resource-center/index.php>

# ATS COVID-19 Resources

[COVID-19: The ATS Response \(thoracic.org\)](#)

## **Funding opportunities**

Notice of Intent to Publish a Funding Opportunity Announcement for Countermeasures Against Chemical Threats (CounterACT) Therapeutics Discovery and Early Stage Development (UG3/UH3 Clinical Trial Not Allowed)

<https://grants.nih.gov/grants/guide/notice-files/NOT-NS-22-086.html>

Notice of Special Interest (NOSI): CCRP Administrative Supplement for Collaborative Science to Synergize Chemical Medical Countermeasures Discovery and Early Development

<http://grants.nih.gov/grants/guide/notice-files/NOT-AI-22-029.html>

Countermeasures Against Chemical Threats (CounterACT) Exploratory/Developmental Projects (R21 Clinical Trial Not Allowed)

<http://grants.nih.gov/grants/guide/pa-files/PAR-20-253.html>

## **Relevant publications for TID Section**

Satyanarayana Achanta, Michael A. Gentile, Carolyn J. Albert, Kevin A. Schulte, Brooke G. Pantazides, Brian S. Crow, Jennifer Quiñones-González, Jonas W. Perez, David A. Ford, Rakesh P. Patel, Thomas A. Blake, Michael D. Gunn, Sven E. Jordt. Recapitulation of Human Pathophysiology and Identification of Forensic Biomarkers in a Translational Swine Model of Chlorine Inhalation Injury.

bioRxiv 2022.02.09.479576; doi: <https://doi.org/10.1101/2022.02.09.479576> (pre-print)

Zhuang E, Thurman P, Chen HH, McDiarmid MA, Hines SE. Physiological Impacts of Surgical Mask Coverage of Elastomeric Half-mask Respirator Exhalation Valves in Healthcare Workers. *Ann Work Expo Health*. 2022 Feb 18;66(2):233-245. doi: 10.1093/annweh/wxab069. PMID: 34585722; PMCID: PMC8500049.

Hines SE, Gaitens J, Mueller NM, Molina Ochoa D, Fernandes E, McDiarmid MA. Respiratory Protection Perceptions among Malian Health Workers: Insights from the Health Belief Model. *Int J Environ Res Public Health*. 2022 Mar 4;19(5):3028. doi: 10.3390/ijerph19053028. PMID: 35270723; PMCID: PMC8909975.

Jabba SV, Erythropel HC, Torres DG, Delgado LA, Woodrow JG, Anastas PT, Zimmerman JB, Jordt SE. Synthetic Cooling Agents in US-marketed E-cigarette Refill Liquids and Popular Disposable E-cigarettes: Chemical Analysis and Risk Assessment. *Nicotine Tob Res*. 2022 Feb 15:ntac046. doi: 10.1093/ntr/ntac046. Epub ahead of print. PMID: 35167696.

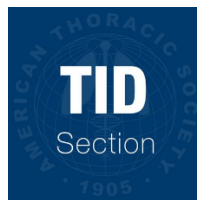
A note on TID Section website: Our TID Section website (<https://www.thoracic.org/members/assemblies/sections/tid/>) has many resources and exciting updates. Please check out it once and consider going through each and every link. If you have any suggestions to improve our website, please feel free to reach out to Web Director or any of the TID Section executive committee members.



Attention trainees and junior faculty: We are looking for someone who is interested to serve on the TID Section Web Editorial Committee. The incumbent will be actively involved in posting updates on social media, updating TID Section website, and assisting in generating content for the newsletters. If interested, please contact Satya Achanta ([satya.achanta@duke.edu](mailto:satya.achanta@duke.edu)).



TID section is on **twitter**  
Follow TID section on [@ATSTIDSection](https://twitter.com/ATSTIDSection)



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

## EOPH Leadership

---

### EOPH Leadership

**Ilona Jaspers, PhD** Chair, Assembly on Environmental, Occupational and Population Health

**Stephanie London, MD, DrPH** -Past Chair, Assembly on Environmental, Occupational and Population Health

## ATS Leadership

---

**Lynn M. Schnapp, MD, ATSF**, President

**Gregory P. Downey, MD, ATSF**, President-Elect

**M. Patricia Rivera, MD, ATSF**, Vice President

**Irina Petrache, MD, ATSF**, Secretary-Treasurer

**Juan C. Celedón, MD, DrPH, ATSF**, Immediate Past President

**Karen J. Collishaw, MPP, CAE**, Executive Director