

THE ASSEMBLY ON

Environmental, Occupational, and Population Health

NEWSLETTER



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Dear EOPH Members,

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 **September 2020** newsletter are some of our members' recent and "epub ahead of print" articles.

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 and TID Section relevant postings to satya.achanta@duke.edu.

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

Sincerely,

Your EOPH and TID Web Editorial Committees





Recent Publications

This section highlights some of our assembly members' exciting research that was recently "e-published" or were submitted for inclusion in this newsletter. It is possible that our search may miss your best work, so please send your recent publications to Sophia.Kwon@nyulangone.org.

SARS-CoV-2 / COVID-19

[Rapid Response to COVID-19 in Agriculture: A Model for Future Crises.](#)

Riden HE, Schilli K, **Pinkerton KE**. *J Agromedicine*. 2020 Sep 8:1-4. doi: 10.1080/1059924X.2020.1815618. Online ahead of print. PMID: 32896229

[Home Sick with Coronavirus Symptoms: a National Study, April-May 2020.](#)

Gaffney AW, Himmelstein D, Bor D, McCormick D, Woolhandler S. *J Gen Intern Med*. 2020 Sep 10. doi: 10.1007/s11606-020-06159-5. Online ahead of print. PMID: 32914273 No abstract available.

[Forty Postmortem Examinations in COVID-19 Patients.](#)

De Michele S, Sun Y, Yilmaz MM, Katsyv I, **Salvatore M**, Dzierba AL, Marboe CC, Brodie D, Patel NM, Garcia CK, Saqi A. *Am J Clin Pathol*. 2020 Sep 2:aqaa156. doi: 10.1093/ajcp/aqaa156. Online ahead of print. PMID: 32876680 **Free PMC article**.

[The Association between Symptoms and COVID-19 Test Results among Healthcare Workers.](#)

Sacks CA, Dougan M, McCoy TH Jr, Zheng A, Buonomo G, **North CM**, Metlay JP, Walensky RP. *Ann Surg*. 2020 Sep 15. doi: 10.1097/SLA.0000000000004483. Online ahead of print. PMID: 32941277 No abstract available.

[Gene expression and *in situ* protein profiling of candidate SARS-CoV-2 receptors in human airway epithelial cells and lung tissue.](#)

Aguiar JA, Tremblay BJ, Mansfield MJ, Woody O, Lobb B, Banerjee A, Chandiramohan A, Tiessen N, Cao Q, Dvorkin-Gheva A, Revill S, Miller MS, **Carlsten C**, Organ L, Joseph C, John A, Hanson P, Austin RC, McManus BM, Jenkins G, Mossman K, Ask K, Doxey AC, Hirota JA. *Eur Respir J*. 2020 Sep 3;56(3):2001123. doi: 10.1183/13993003.01123-2020. Print 2020 Sep. PMID: 32675206 **Free PMC article**.

[Prevalence of Surface Contamination With SARS-CoV-2 in a Radiation Oncology Clinic.](#)

Jan I, Chen K, Sayan M, Uprety P, **Laumbach RJ**, Ennis RD, Haffty BG. *JAMA Oncol*. 2020 Aug 27:e203552. doi: 10.1001/jamaoncol.2020.3552. Online ahead of print. PMID: 32852509

[COVID-19 Infection Among Healthcare Workers in a National Healthcare System: the Qatar Experience.](#)

Alajmi J, Jeremijenko AM, **Abraham JC**, Alishaq M, Concepcion EG, Butt AA, Abou-Samra AB. *Int J Infect Dis*. 2020 Sep 16:S1201-9712(20)30743-8. doi: 10.1016/j.ijid.2020.09.027. Online ahead of print. PMID: 32949777 **Free article**.



[Health and Social Precarity Among Americans Receiving Unemployment Benefits During the COVID-19 Outbreak.](#)

Gaffney AW, Himmelstein DU, McCormick D, Woolhandler S.J Gen Intern Med. 2020 Sep 16. doi: 10.1007/s11606-020-06207-0. Online ahead of print.PMID: 32939663 No abstract available.

[Remdesivir Treatment for Severe COVID-19 in Third-Trimester Pregnancy: Case Report and Management Discussion.](#)

Maldarelli GA, Savage M, Mazur S, Oxford-Horrey C, **Salvatore M**, Marks KM.Open Forum Infect Dis. 2020 Aug 24;7(9):ofaa345. doi: 10.1093/ofid/ofaa345. eCollection 2020 Sep.PMID: 32934969 **Free PMC article.**

[Risk for Severe COVID-19 Illness Among Teachers and Adults Living With School-Aged Children.](#)

Gaffney AW, Himmelstein D, Woolhandler S.Ann Intern Med. 2020 Aug 21:M20-5413. doi: 10.7326/M20-5413. Online ahead of print.PMID: 32822221 **Free PMC article.** No abstract available.

[Ethical considerations for protecting the options of subjects in primary epidemic vaccine trials.](#)

Caplan AL, **Abraham JL**.J Med Ethics. 2020 Sep 17:medethics-2020-106851. doi: 10.1136/medethics-2020-106851. Online ahead of print.PMID: 32943477 No abstract available.

[A Simple Algorithm for Return to Workplace Employer Antibody Testing.](#)

Shrank WH, Caveney B, Miller S, Medows RM, Arroliga A, Doga B, Ban K, **Muldoon S**, Seiden JM, Tong I, Chaguturu S, Wohlgemuth JG.Popul Health Manag. 2020 Aug 26. doi: 10.1089/pop.2020.0136. Online ahead of print.PMID: 32857015 No abstract available.

[Face Coverings in a Pandemic.](#)

McGraw MD, Achanta S, **Castner J**, Gold DR, Hines SE, Redlich CA, Sockrider MM.Am J Respir Crit Care Med. 2020 Aug 11. doi: 10.1164/rccm.2020C14. Online ahead of print.PMID: 32780588 No abstract available.

Influenza and Other Infectious Diseases

[Concurrent and Concordant Oral and Genital High-Risk Human Papillomavirus in the U.S.: Results from the National Health and Nutrition Examination Survey.](#)

Custer J, Patel R, **Delclos G**, DeSantis SM.J Infect Dis. 2020 Aug 17;jiaa519. doi: 10.1093/infdis/jiaa519. Online ahead of print.PMID: 32803235

[Hepatitis C Virus Infection as a Predictor of Complications and Increased Costs Following Primary Lumbar Fusion Surgery.](#)

Donnally CJ 3rd, Patel PD, Canseco JA, **Shenoy K**, Divi SN, Goz V, Arain AR, Vaccaro AR.Spine (Phila Pa 1976). 2020 Aug 15;45(16):E1020-E1025. doi: 10.1097/BRS.0000000000003481.PMID: 32706565

[Marijuana use and pneumonia risk in a cohort of HIV-infected and HIV-uninfected men.](#)

Quint JJ, **Tashkin DP**, McKay HS, Plankey MW, Stosor V, Friedman MR, Detels R.Ann Epidemiol. 2020 Aug 5:S1047-2797(20)30278-7. doi: 10.1016/j.annepidem.2020.07.018. Online ahead of print.PMID: 32763342

Research Methods, Training, and Clinical Care

[Reporting of race and ethnicity at an international haematology conference.](#)

Mehta A, Fillmore N, Dahiya S, D'Souza A, Sweetenham J, Kansagra A.Br J Haematol. 2020 Aug 30. doi: 10.1111/bjh.17065. Online ahead of print.PMID: 32862435 No abstract available



[Education differentially contributes to cognitive reserve across racial/ethnic groups.](#)

Avila JF, Rentería MA, Jones RN, Vonk MJ, Turney I, Sol K, Seblova D, Arias F, Hill-Jarrett T, **Levy SA**, Meyer O, Racine AM, Tom SE, Melrose RJ, Deters K, Medina LD, Carrión CI, Díaz-Santos M, Byrd DR, Chesebro A, Colon J, Igwe KC, Maas B, Brickman AM, Schupf N, Mayeux R, Manly JJ. *Alzheimers Dement*. 2020 Aug 22. doi: 10.1002/alz.12176. Online ahead of print. PMID: 32827354

[Communication Strategies for Discussing PrEP with Men Who Have Sex with Men.](#)

Schwartz J, Grimm JJ. *Homosex*. 2020 Aug 25;1-14. doi: 10.1080/00918369.2020.1813509. Online ahead of print. PMID: 32841104

[State Laws and Regulations Addressing Nurse-Initiated Protocols and Use of Nurse-Initiated Protocols in Emergency Departments: A Cross-Sectional Survey Study.](#)

Castner J, Boris L. *Policy Polit Nurs Pract*. 2020 Sep 11;1527154420954457. doi: 10.1177/1527154420954457. Online ahead of print. PMID: 32915704

[From metabolism and behavior to respiratory physiology: an educational and research perspective.](#)

Schlenker EH. *Adv Physiol Educ*. 2020 Dec 1;44(4):540-544. doi: 10.1152/advan.00047.2020. PMID: 32880488

[Enhancing intracellular accumulation and target engagement of PROTACs with reversible covalent chemistry.](#)

Guo WH, Qi X, Yu X, Liu Y, Chung CI, Bai F, Lin X, Lu D, Wang L, Chen J, **Su LH**, Nomie KJ, Li F, Wang MC, Shu X, Onuchic JN, Woyach JA, Wang ML, Wang J. *Nat Commun*. 2020 Aug 26;11(1):4268. doi: 10.1038/s41467-020-17997-6. PMID: 32848159 **Free PMC article.**

[A global network for network medicine.](#)

Maron BA, Altucci L, Balligand JL, Baumbach J, Ferdinandy P, Filetti S, Parini P, Petrillo E, **Silverman EK**, Barabási AL, Loscalzo J; International Network Medicine Consortium. *NPJ Syst Biol Appl*. 2020 Aug 31;6(1):29. doi: 10.1038/s41540-020-00143-9. PMID: 32868765

[Unique repertoire of anti-carbohydrate antibodies in individual human serum.](#)

Luetscher RND, McKittrick TR, Gao C, **Mehta AY**, McQuillan AM, Kardish R, Boligan KF, Song X, Lu L, Heimburg-Molinaro J, von Gunten S, Alter G, Cummings RD. *Sci Rep*. 2020 Sep 22;10(1):15436. doi: 10.1038/s41598-020-71967-y. PMID: 32963315

[Lisocabtagene maraleucel for patients with relapsed or refractory large B-cell lymphomas \(TRANSCEND NHL 001\): a multicentre seamless design study.](#)

Abramson JS, Palomba ML, Gordon LI, Lunning MA, Wang M, Arnason J, **Mehta A**, Purev E, Maloney DG, Andreadis C, Sehgal A, Solomon SR, Ghosh N, Albertson TM, Garcia J, Kostic A, Mallaney M, Ogasawara K, Newhall K, Kim Y, Li D, Siddiqi T. *Lancet*. 2020 Sep 19;396(10254):839-852. doi: 10.1016/S0140-6736(20)31366-0. Epub 2020 Sep 1. PMID: 32888407

[A Peripheral CB1R Antagonist Increases Lipolysis, Oxygen Consumption Rate, and Markers of Beiging in 3T3-L1 Adipocytes Similar to RIM, Suggesting that Central Effects Can Be Avoided.](#)

Paszkievicz RL, Bergman RN, Santos RS, **Frank AP**, Woolcott OO, Iyer MS, Stefanovski D, Clegg DJ, Kabir M. *Int J Mol Sci*. 2020 Sep 10;21(18):E6639. doi: 10.3390/ijms21186639. PMID: 32927872



Transplant Medicine

Esophageal Evaluation for Patients Undergoing Lung Transplant Evaluation: What Should We Do for Evaluation and Management.

Malik Z, **Shenoy K**. *Gastroenterol Clin North Am*. 2020 Sep;49(3):451-466. doi: 10.1016/j.gtc.2020.04.004. Epub 2020 Jun 16. PMID: 32718564 Review.

Donor derived hepatitis B virus infection: Analysis of the Organ Procurement & Transplantation Network/United Network for Organ Sharing Ad Hoc Disease Transmission Advisory Committee.

Theodoropoulos NM, La Hoz RM, Wolfe C, Vece G, Bag R, Berry GJ, Bucio J, Danziger-Isakov L, Florescu DF, Goldberg D, Ho CS, Lilly K, Malinis M, **Mehta AK**, Nalesnik MA, Sawyer R, Strasfeld L, Wood RP, Michaels MG. *Transpl Infect Dis*. 2020 Sep 7:e13458. doi: 10.1111/tid.13458. Online ahead of print. PMID: 32894634

Neonatal and Pediatric Lung Disease

Prenatal Maternal Cortisol Levels and Infant Birth Weight in a Predominately Low-Income Hispanic Cohort.

Peterson AK, M Toledo-Corral C, Chavez TA, Naya CH, Johnson M, **Eckel SP**, Lerner D, Grubbs BH, Farzan SF, Dunton GF, Bastain TM, Breton CV. *Int J Environ Res Public Health*. 2020 Sep 21;17(18):E6896. doi: 10.3390/ijerph17186896. PMID: 32967301

Asthma and Allergy

Effect of early and late prenatal vitamin D and maternal asthma status on offspring asthma or recurrent wheeze.

Lu M, **Litonjua AA**, O'Connor GT, Zeiger RS, Bacharier L, Schatz M, Carey VJ, Weiss ST, Mirzakhani H. *J Allergy Clin Immunol*. 2020 Aug 19:S0091-6749(20)31164-7. doi: 10.1016/j.jaci.2020.06.041. Online ahead of print. PMID: 32822692

Epigenome-wide association study of DNA methylation and adult asthma in the Agricultural Lung Health Study.

Hoang TT, Sikdar S, Xu CJ, Lee MK, Cardwell J, Forno E, Imboden M, Jeong A, Madore AM, Qi C, Wang T, Bennett BD, Ward JM, Parks CG, Beane-Freeman LE, King D, Motsinger-Reif A, Umbach DM, Wyss AB, Schwartz DA, Celedón JC, Laprise C, Ober C, Probst-Hensch N, Yang IV, Koppelman GH, **London SJ**. *Eur Respir J*. 2020 Sep 3;56(3):2000217. doi: 10.1183/13993003.00217-2020. Print 2020 Sep. PMID: 32381493

Mapping the 17q12-21.1 Locus for Variants Associated with Early-onset Asthma in African Americans.

Gui H, Levin AM, Hu D, Sleiman P, Xiao S, Mak AC, Yang M, Barczak AJ, Huntsman S, Eng C, Hochstadt S, Zhang E, Whitehouse K, Simons S, Cabral W, Takriti S, Abecasis G, Blackwell TW, Kang HM, Nickerson DA, Germer S, Lanfear DE, **Gilliland F**, Gauderman WJ, Kumar R, Erle DJ, Martinez FD, Hakonarson H, Burchard EG, Williams LK. *Am J Respir Crit Care Med*. 2020 Sep 23. doi: 10.1164/rccm.202006-2623OC. Online ahead of print. PMID: 32966749

Association of Dietary Fiber on Asthma, Respiratory Symptoms, and Inflammation in the Adult National Health and Nutrition Examination Survey Population.

Saeed MA, Gribben KC, Alam M, Lyden ER, Hanson CK, **LeVan TD**. *Ann Am Thorac Soc*. 2020 Sep;17(9):1062-1068. doi: 10.1513/AnnalsATS.201910-776OC. PMID: 32369709



Stability of serum precipitins to *Aspergillus fumigatus* for the diagnosis of allergic bronchopulmonary aspergillosis.

Lau KSK, Yeung C, **Carlsten C**. *Allergy Asthma Clin Immunol*. 2020 Sep 3;16:78. doi: 10.1186/s13223-020-00476-4. eCollection 2020. PMID: 32944032

Longitudinal Changes in Early Nasal Microbiota and the Risk of Childhood Asthma.

Toivonen L, Karppinen S, Schuez-Havupalo L, Waris M, He Q, Hoffman KL, Petrosino JF, **Dumas O**, Camargo CA Jr, Hasegawa K, Peltola V. *Pediatrics*. 2020 Sep 15:e20200421. doi: 10.1542/peds.2020-0421. Online ahead of print. PMID: 32934151

An interaction of the 17q12-21 locus with mold exposure in childhood asthma.

Lee S, Lasky-Su J, Kim W, Won S, Laurie C, **Celedón JC**, Lange C, Weiss ST, Hecker J. *Pediatr Allergy Immunol*. 2020 Sep 18. doi: 10.1111/pai.13376. Online ahead of print. PMID: 32946604

A genome-wide association study of asthma hospitalizations in adults.

Yan Q, Forno E, Herrera-Luis E, Pino-Yanes M, Yang G, Oh S, Acosta-Pérez E, Hu D, Eng C, Huntsman S, Rodriguez-Santana JR, Cloutier MM, Canino G, Burchard EG, Chen W, **Celedón JC**. *J Allergy Clin Immunol*. 2020 Sep 2:S0091-6749(20)31224-0. doi: 10.1016/j.jaci.2020.08.020. Online ahead of print. PMID: 32890573

Serum free testosterone and asthma, asthma hospitalisations and lung function in British adults.

Han YY, Yan Q, Yang G, Chen W, Forno E, **Celedón JC**. *Thorax*. 2020 Oct;75(10):849-854. doi: 10.1136/thoraxjnl-2020-214875. Epub 2020 Aug 31. PMID: 32868294

A Novel Locus for Exertional Dyspnea in Childhood Asthma.

Lee S, Lasky-Su JA, Lange C, Kim W, Kumar PL, McDonald MN, Fragoso CAV, Laurie C, Raby BA, **Celedón JC**, Cho MH, Won S, Weiss ST, Hecker J. *Eur Respir J*. 2020 Aug 27:2001224. doi: 10.1183/13993003.01224-2020. Online ahead of print. PMID: 32855217

Effect of Vitamin D3 Supplementation on Severe Asthma Exacerbations in Children With Asthma and Low Vitamin D Levels: The VDKA Randomized Clinical Trial.

Forno E, Bacharier LB, Phipatanakul W, Guilbert TW, Cabana MD, Ross K, Covar R, Gern JE, **Rosser FJ**, Blatter J, Durrani S, Han YY, Wisniewski SR, **Celedón JC**. *JAMA*. 2020 Aug 25;324(8):752-760. doi: 10.1001/jama.2020.12384. PMID: 32840597 Clinical Trial.

Allergen inhalation generates pro-inflammatory oxidised phosphatidylcholine associated with airway dysfunction.

Pascoe CD, Jha A, Ryu MH, Ragheb M, Vaghasiya J, Basu S, Stelmack GL, Srinathan S, Kidane B, Kindrachuk J, O'Byrne PM, Gauvreau GM, Ravandi A, **Carlsten C**, Halayko AJ; Canadian Respiratory Research Network. *Eur Respir J*. 2020 Sep 3:2000839. doi: 10.1183/13993003.00839-2020. Online ahead of print. PMID: 32883680

A genome-wide study of DNA methylation in white blood cells and asthma in Latino children and youth.

Jiang Y, Forno E, Han YY, Xu Z, Hu D, Boutaoui N, Eng C, Acosta-Pérez E, Huntsman S, Colón-Semidey A, Keys KL, Rodríguez-Santana JR, Alvarez M, Pino-Yanes M, Canino G, Chen W, Burchard EG, **Celedón JC**. *Epigenetics*. 2020 Aug 31:1-9. doi: 10.1080/15592294.2020.1809872. Online ahead of print. PMID: 32799603



Epigenome-wide association study of DNA methylation and adult asthma in the Agricultural Lung Health Study.

Hoang TT, Sikdar S, Xu CJ, Lee MK, Cardwell J, Forno E, Imboden M, Jeong A, Madore AM, Qi C, Wang T, Bennett BD, Ward JM, Parks CG, Beane-Freeman LE, King D, Motsinger-Reif A, Umbach DM, Wyss AB, **Schwartz DA**, Celedón JC, Laprise C, Ober C, Probst-Hensch N, Yang IV, Koppelman GH, London SJ. *Eur Respir J*. 2020 Sep 3;56(3):2000217. doi: 10.1183/13993003.00217-2020. Print 2020 Sep. PMID: 32381493 **Free PMC article.**

COPD, Chronic Bronchitis

Somatotypes trajectories during adulthood and their association with COPD phenotypes.

Divo MJ, Marin Oto M, Casanova Macario C, Cabrera Lopez C, de-Torres JP, Marin Trigo JM, Hersh CP, Ezponda Casajús A, Maguire C, Pinto-Plata VM, Polverino F, Ross JC, DeMeo D, Bastarrika G, **Silverman EK**, Celli BR. *ERJ Open Res*. 2020 Sep 14;6(3):00122-2020. doi: 10.1183/23120541.00122-2020. eCollection 2020 Jul. PMID: 32963991 **Free PMC article.**

Epidemiology of Chronic Obstructive Pulmonary Disease.

Ruvuna L, **Sood A**. *Clin Chest Med*. 2020 Sep;41(3):315-327. doi: 10.1016/j.ccm.2020.05.002. PMID: 32800187 Review.

Distinguishing smoking related lung disease phenotypes via imaging and molecular features.

Billatos E, Ash SY, Duan F, Xu K, Romanoff J, Marques H, Moses E, Han MK, **Regan EA**, Bowler RP, Mason SE, Doyle TJ, San José Estépar R, Rosas IO, Ross JC, Xiao X, Liu H, Liu G, Sukumar G, Wilkerson M, Dalgard C, Stevenson C, Whitney D, Aberle D, Spira A, San José Estépar R, Lenburg ME, Washko GR; of the DECAMP and COPDGene Investigators. *Chest*. 2020 Sep 15:S0012-3692(20)34494-9. doi: 10.1016/j.chest.2020.08.2115. Online ahead of print. PMID: 32946850

Value of metalloproteinases in predicting COPD in heavy urban smokers.

Tsay JJ, Hu Y, Goldberg JD, Wang B, Vijayalekshmy S, Yie TA, Bantis K, Sterman DH, **Rom WN**. *Respir Res*. 2020 Sep 2;21(1):228. doi: 10.1186/s12931-020-01496-9. PMID: 32878618 **Free PMC article.**

A Risk Prediction Model for Mortality Among Smokers in the COPDGene® Study.

Strand M, Austin E, Moll M, Pratte KA, Regan EA, Hayden LP, Bhatt SP, Boriek AM, Casaburi R, **Silverman EK**, Fortis S, Ruczinski I, Koegler H, Rossiter HB, Occhipinti M, Hanania NA, Gebrekristos HT, Lynch DA, Kunisaki KM, Young KA, Sieren JC, Ragland M, Hokanson JE, Lutz SM, Make BJ, Kinney GL, Cho MH, Pistolesi M, DeMeo DL, Sciurba FC, Comellas AP, Diaz AA, Barjaktarevic I, Bowler RP, Kanner RE, Peters SP, Ortega VE, Dransfield MT, Crapo JD. *Chronic Obstr Pulm Dis*. 2020 Sep 2;7(4). doi: 10.15326/jcopdf.7.4.2020.0146. Online ahead of print. PMID: 32877963 **Free article.**

Hypercapnia in Advanced Chronic Obstructive Pulmonary Disease: A Secondary Analysis of the National Emphysema Treatment Trial.

Mathews AM, Wysham NG, Xie J, Qin X, **Giovacchini CX**, Ekström M, MacIntyre NR. *Chronic Obstr Pulm Dis*. 2020 Sep 2;7(4). doi: 10.15326/jcopdf.7.4.2020.0176. Online ahead of print. PMID: 32877962 **Free article.**

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



E-Cigarette or Vaping Product Use-associated Lung Injury: Developing a Research Agenda. An NIH Workshop Report.

Crotty Alexander LE, Ware LB, Calfee CS, Callahan SJ, Eissenberg T, Farver C, Goniewicz ML, **Jaspers I**, Kheradmand F, King TE, Jr, Meyer NJ, Mikheev VB, Shields PG, Shihadeh A, Strongin R, Tarran R. *Am J Respir Crit Care Med*. 2020 Sep 15;202(6):795-802. doi: 10.1164/rccm.201912-2332WS.PMID: 32243764

Role of e-cigarettes and pharmacotherapy during attempts to quit cigarette smoking: The PATH Study 2013-16.

Pierce JP, Benmarhnia T, Chen R, **White M**, Abrams DB, Ambrose BK, Blanco C, Borek N, Choi K, Coleman B, Compton WM, Cummings KM, Delnevo CD, Elton-Marshall T, Goniewicz ML, Gravely S, Fong GT, Hatsukami D, Henrie J, Kasza KA, Kealey S, Kimmel HL, Limpert J, Niaura RS, Ramôa C, Sharma E, Silveira ML, Stanton CA, Steinberg MB, Taylor E, Bansal-Travers M, Trinidad DR, Gardner LD, Hyland A, Soneji S, Messer K. *PLoS One*. 2020 Sep 2;15(9):e0237938. doi: 10.1371/journal.pone.0237938. eCollection 2020.PMID: 32877429 **Free PMC article.**

Electronic Cigarettes: A Role in Smoking Cessation?

Mosher CL, Smith JB, McManigle WC, **Giovacchini CX**, Shofer SL. *Am J Respir Crit Care Med*. 2020 Aug 15;202(4):595-597. doi: 10.1164/rccm.201908-1584RR.PMID: 32437241 No abstract available.

Electronic-Cigarette Vehicles and Flavoring Affect Lung Function and Immune Responses in a Murine Model.

Szafran BN, Pinkston R, Perveen Z, Ross MK, Morgan T, Paulsen DB, Penn AL, Kaplan BLF, **Noël A**. *Int J Mol Sci*. 2020 Aug 21;21(17):E6022. doi: 10.3390/ijms21176022.PMID: 32825651 **Free article.**

Occupational Injuries and Environmental Exposures

An Ensemble Learning Approach for Estimating High Spatiotemporal Resolution of Ground-Level Ozone in the Contiguous United States.

Requia WJ, Di Q, Silvern R, Kelly JT, Koutrakis P, Mickley LJ, Sulprizio MP, Amini H, Shi L, **Schwartz J**. *Environ Sci Technol*. 2020 Sep 15;54(18):11037-11047. doi: 10.1021/acs.est.0c01791. Epub 2020 Sep 1.PMID: 32808786

A hybrid approach to estimating long-term and short-term exposure levels of ozone at the national scale in China using land use regression and Bayesian maximum entropy.

Chen L, Liang S, Li X, Mao J, Gao S, Zhang H, Sun Y, **Vedal S**, Bai Z, Ma Z, Haiyu, Azzi M. *Sci Total Environ*. 2020 Aug 22;752:141780. doi: 10.1016/j.scitotenv.2020.141780. Online ahead of print.PMID: 32882471

Ambient air pollution, traffic proximity and coronary atherosclerotic phenotype in China.

Wang M, Hou ZH, Xu H, Budoff MJ, Szpiro AA, **Vedal S**, **Kaufman JD**, Lu B. *Environ Res*. 2020 Sep;188:109841. doi: 10.1016/j.envres.2020.109841. Epub 2020 Jun 22.PMID: 32846635

Outdoor air pollution and cancer: An overview of the current evidence and public health recommendations.

Turner MC, Andersen ZJ, Baccarelli A, Diver WR, Gapstur SM, Pope CA 3rd, Prada D, Samet J, **Thurston G**, Cohen A. *CA Cancer J Clin*. 2020 Aug 25. doi: 10.3322/caac.21632. Online ahead of print.PMID: 32964460 Review.

Indoor endotoxin, proximity to a major roadway, and severe asthma exacerbations among children in Puerto Rico.



Rosser F, Han YY, Forno E, Acosta-Pérez E, Canino G, **Celedón JC**. *Ann Allergy Asthma Immunol*. 2020 Sep 7:S1081-1206(20)31000-0. doi: 10.1016/j.anai.2020.09.001. Online ahead of print.PMID: 32911057

[Ambient Air Pollution and Risk of Pregnancy Loss among Women Undergoing Assisted Reproduction.](#)

Gaskins AJ, Mínguez-Alarcón L, Williams PL, Chavarro JE, **Schwartz JD**, Kloog I, Souter I, Hauser R, Laden F; EARTH Study Team. *Environ Res*. 2020 Sep 13:110201. doi: 10.1016/j.envres.2020.110201. Online ahead of print.PMID: 32937174

[Health effects of wildfire smoke in children and public health tools: a narrative review.](#)

Holm SM, Miller MD, **Balmes JR**. *J Expo Sci Environ Epidemiol*. 2020 Sep 20. doi: 10.1038/s41370-020-00267-4. Online ahead of print.PMID: 32952154 Review.

[Outdoor Air Quality Awareness, Perceptions, and Behaviors Among U.S. Children Aged 12-17 Years, 2015-2018.](#)

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[New Mexico Female Miners Have Lower Odds for COPD than Their Male Counterparts.](#)

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[An analysis of 2-day cardiopulmonary exercise testing to assess unexplained fatigue.](#)

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[Pulmonary Vascular Pruning on Computed Tomography and Risk of Death in the Framingham Heart Study.](#)



Synn AJ, Li W, San José Estépar R, Washko GR, O'Connor GT, Tsao CW, Mittleman MA, **Rice MB**. *Am J Respir Crit Care Med*. 2020 Sep 14. doi: 10.1164/rccm.202005-1671LE. Online ahead of print. PMID: 32926788

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Second hits exacerbate alcohol-related organ damage: an update.

Osna NA, Ganesan M, Seth D, **Wyatt TA**, Kidambi S, Kharbanda KK. *Alcohol Alcohol*. 2020 Sep 1:agaa085. doi: 10.1093/alcalc/agaa085. Online ahead of print. PMID: 32869059

Fetal and early postnatal lead exposure measured in teeth associates with infant gut microbiota.

Sitarik AR, Arora M, Austin C, Bielak LF, Eggers S, **Johnson CC**, Lynch SV, Kyun Park S, Hank Wu KH, Yong GJM, Cassidy-Bushrow AE. *Environ Int*. 2020 Aug 29;144:106062. doi: 10.1016/j.envint.2020.106062. Online ahead of print. PMID: 32871381

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Yu J, Yang D, Kim Y, Hashizume M, Gasparrini A, Armstrong B, Honda Y, Tobias A, Sera F, Vicedo-Cabrera AM, Kim H, Íñiguez C, Lavigne E, Ragetti MS, Scovronick N, Acquafredda F, Chen B, Guo YL, de Sousa Zanotti Stagliori Coelho M, Saldiva P, Zanobetti A, **Schwartz J**, Bell ML, Diaz M, De la Cruz Valencia C, Holobacă I, Fratianni S, Chung Y. *Epidemiol Psychiatr Sci*. 2020 Aug 24;29:e163. doi: 10.1017/S2045796020000748. PMID: 32829741

Potential Faculty Positions

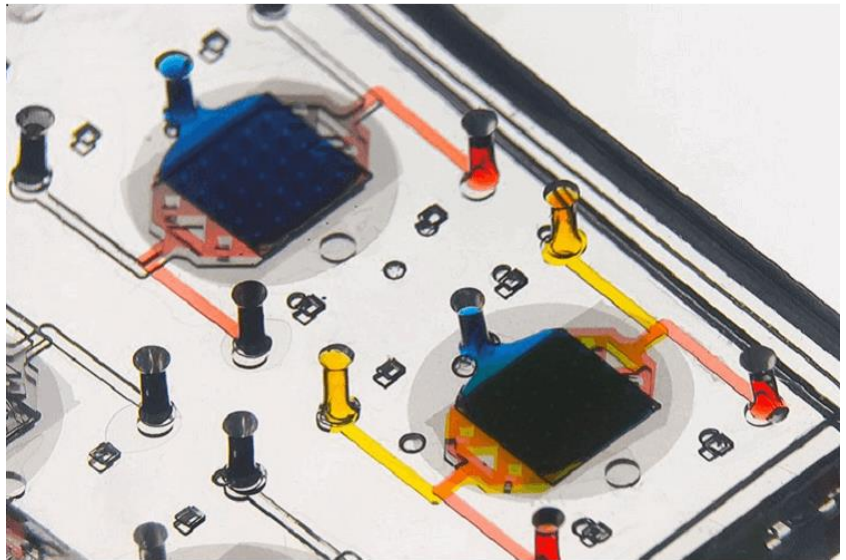
Division of Respiratory Medicine at the University of British Columbia (Vancouver, Canada). The career opportunities intersect in a new program on airways disease focused on translational research and implementation science. Find all the information here: <https://www.vchri.ca/legacyforairwayhealth>

Please email us with any additional positions you would like included

Updates from Terrorism and Inhalation Disasters (TID) Section

BARDA Partners with University of Pennsylvania Researchers to Develop a Lung-on-a-Chip for Discovery of Treatments for Chlorine Exposure
(<https://www.medicalcountermeasures.gov/newsroom/2020/upenn/>)

[BARDA](#) is working with two labs at the University of Pennsylvania to further develop their lung-on-a-chip technology to study the effects of chlorine gas (Cl₂) on human health. This work will lead to a better understanding of how the human lung reacts to a toxic Cl₂ exposure, which will enable the discovery of new and effective treatments. If successful, the lung-on-a-chip technology could be used to discover new treatments for inhalation of other inhaled toxic chemical.



Please see NIH CounterACT funding opportunities:

[PAR-20-253](#), [R21](#) Exploratory/Developmental Research Grant

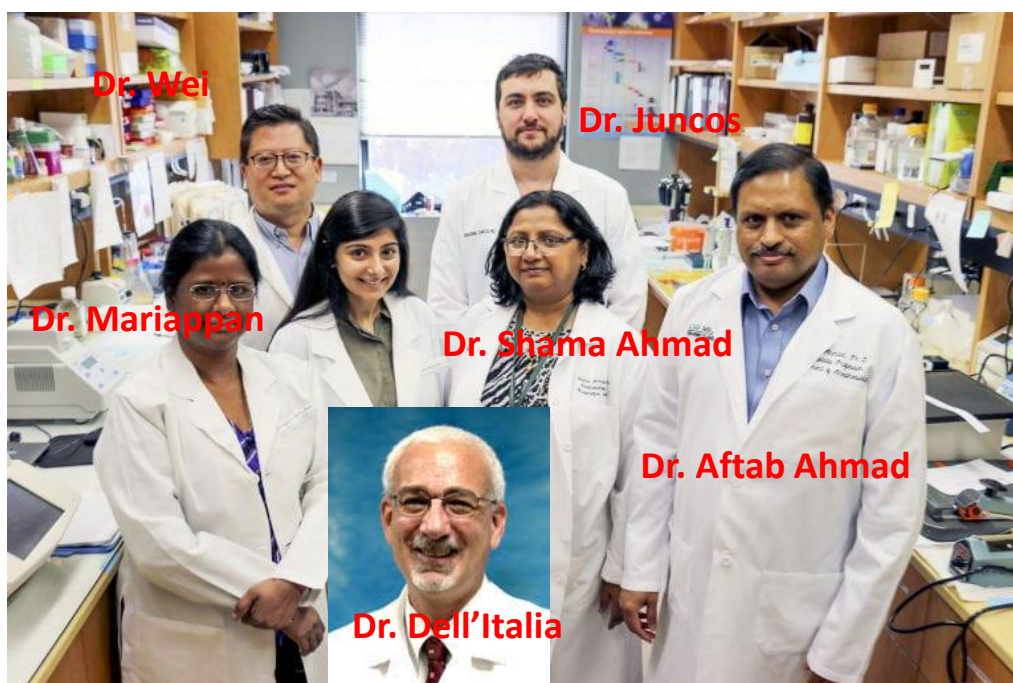
[PAR-18-721](#), [R21](#) Exploratory/Developmental Grant

[PAR-18-657](#), [U54](#) Specialized Center - Cooperative Agreements

[PAR-19-040](#), [U01](#) Research Project – Cooperative Agreements

Featured publication of the month: Masjoan Juncos JX, Shakil S, Bradley WE, Wei CC, Zafar I, Powell P, Mariappan N, Louch WE, Ford DA, Ahmad A, Dell'Italia LJ, Ahmad S. Chronic cardiac structural damage, diastolic and systolic dysfunction following acute myocardial injury due to bromine exposure in rats. Arch Toxicol. 2020 Sep 26. doi: 10.1007/s00204-020-02919-8. Epub ahead of print. PMID: 32979061.

<https://link.springer.com/article/10.1007%2Fs00204-020-02919-8>



Chlorine and bromine (Cl_2 and Br_2) are highly reactive and extremely toxic halogen gases that cause debilitating cardiopulmonary injury and death. Accidental bromine spills are common and its large industrial stores risk potential terrorist attacks. This Paper by Masjoan Juncos et al., is about chronic cardiac effects in the survivors (rats) of a single halogen (Br_2) exposure. They describe continuous structural damage that was evident in histology and EMs but also by cardiac biomarkers (troponin) that continue to be spewed in the blood from the heart even after 28 day of exposure. There was systolic and diastolic dysfunction in these rat hearts and increased stress was also evaluated by hemodynamic studies and echocardiography. Continued oxidative stress and modifications in important cardiac protein such as Nox2, PPI and PLN and SERCA2 are reported as critical mechanism. These findings in this preclinical model will help educate clinicians and public health personnel and provide important endpoints to evaluate therapies for victims of such hazardous exposures.

Congratulations to all Dr. Ahmad and her team!



Achanta S, Jordt SE. Transient receptor potential channels in pulmonary chemical injuries and as countermeasure targets. *Ann N Y Acad Sci.* 2020 Sep 6. doi: 10.1111/nyas.14472. Epub ahead of print. PMID: 32892378.
<https://nyaspubs.onlinelibrary.wiley.com/doi/full/10.1111/nyas.14472>

[Assessment of the cytotoxic and mutagenic potential of dichlorvos \(DDVP\) using in silico classification model; a health hazard awareness in Nigeria.](#)

Abaukaka YA, Sanusi S, Ozigi KA, Malo FU.

Environ Anal Health Toxicol. 2020 Sep;35(3):e2020016-0. doi: 10.5620/eaht.2020016. Epub 2020 Sep 28. PMID: 32979901

[Quartz crystal microbalances \(QCM\) are suitable for real-time dosimetry in nanotoxicological studies using VITROCELL®Cloud cell exposure systems.](#)

Ding Y, Weindl P, Lenz AG, Mayer P, Krebs T, Schmid O.

Part Fibre Toxicol. 2020 Sep 16;17(1):44. doi: 10.1186/s12989-020-00376-w.

PMID: 32938469 **Free PMC article.**

[Hydrofluoric Acid Burns.](#)

Schwerin DL, Hatcher JD.

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PMID: 28722859 **Free Books & Documents.** Review.

[Smoke toxicity of rainscreen façades.](#)

Peck G, Jones N, McKenna ST, Glockling JLD, Harbottle J, Stec AA, Hull TR.

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PMID: 32835994

[Pollution characteristics and toxicity of potentially toxic elements in road dust of a tourist city, Guilin, China: Ecological and health risk assessment[☆].](#)

Shahab A, Zhang H, Ullah H, Rashid A, Rad S, Li J, Xiao H.

Environ Pollut. 2020 Nov;266(Pt 3):115419. doi: 10.1016/j.envpol.2020.115419. Epub 2020 Aug 15.

PMID: 32829033

[E-cigarettes: A new hazard for children and adolescents.](#)

Richmond SA, Pike I, Maguire JL, Macpherson A.

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PMID: 32765168

[Human health risk assessment for toxic elements in the extreme ambient dust conditions observed in Sistan, Iran.](#)

Dahmardeh Behrooz R, Kaskaoutis DG, Grivas G, Mihalopoulos N.

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PMID: 32763581

[Application of systematic evidence mapping to assess the impact of new research when updating health reference values: A case example using acrolein.](#)

Keshava C, Davis JA, Stanek J, Thayer KA, Galizia A, Keshava N, Gift J, Vulimiri SV, Woodall G, Gigot C, Garcia K, Greenhalgh A, Schulz B, Volkoff S, Camargo K, Persad AS.

Environ Int. 2020 Jul 20;143:105956. doi: 10.1016/j.envint.2020.105956. Online ahead of print.

PMID: 32702594 Review.

[Inhalation Exposure to Gaseous and Particulate Bound Mercury Present in the Ambient Air over the Polluted Area of Southern Poland.](#)

Pyta H, Widziewicz-Rzońca K, Słaby K.

Int J Environ Res Public Health. 2020 Jul 11;17(14):4999. doi: 10.3390/ijerph17144999.

PMID: 32664556 **Free PMC article.**

[Human health hazard assessment of quaternary ammonium compounds: Didecyl dimethyl ammonium chloride and alkyl \(C12-C16\) dimethyl benzyl ammonium chloride.](#)

Luz A, DeLeo P, Pechacek N, Freemantle M.

Regul Toxicol Pharmacol. 2020 Oct;116:104717. doi: 10.1016/j.yrtph.2020.104717. Epub 2020 Jul 5.

PMID: 32640297 Review.

[Toxicity of particles emitted by fireworks.](#)

Hickey C, Gordon C, Galdanes K, Blaustein M, Horton L, Chillrud S, Ross J, Yinon L, Chen LC, Gordon T.

Part Fibre Toxicol. 2020 Jul 2;17(1):28. doi: 10.1186/s12989-020-00360-4.

PMID: 32611421 **Free PMC article.**

[Ion transport mechanisms for smoke inhalation-injured airway epithelial barrier.](#)

Chang J, Chen Z, Zhao R, Nie HG, Ji HL.

Cell Biol Toxicol. 2020 Jun 25. doi: 10.1007/s10565-020-09545-1. Online ahead of print.

PMID: 32588239

[In vitro Alternatives to Acute Inhalation Toxicity Studies in Animal Models-A Perspective.](#)

Movia D, Bruni-Favier S, Prina-Mello A.

Front Bioeng Biotechnol. 2020 Jun 3;8:549. doi: 10.3389/fbioe.2020.00549. eCollection 2020.

PMID: 32582672 **Free PMC article.**

[The toxicity effects and mechanisms of tris\(1,3-dichloro-2-propyl\) phosphate \(TDCPP\) and its ecological risk assessment for the protection of freshwater organisms.](#)

Liu D, Yan Z, Liao W, Bai Y, Feng C.

Environ Pollut. 2020 Sep;264:114788. doi: 10.1016/j.envpol.2020.114788. Epub 2020 May 14.

PMID: 32559856

[Meta-analysis of animal studies applied to short-term inhalation exposure levels of hazardous chemicals.](#)

Prussia AJ, Hill J, Cornwell CR, Siwakoti RC, Demchuk E.

Regul Toxicol Pharmacol. 2020 Aug;115:104682. doi: 10.1016/j.yrtph.2020.104682. Epub 2020 Jun 3.

PMID: 32504649

[Influence of inhalation injury on resting energy expenditure and plasma metabolic hormones in adult burn patients.](#)

Lam NN, Khanh PQ, An NH, Luong NV, Tien NG, Kien NX.

Ann Burns Fire Disasters. 2020 Jun 30;33(2):112-115.

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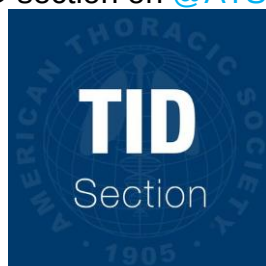
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TID section is on [twitter](#)
Follow TID section on [@ATSTIDSection](#)



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

COVID-19 RESOURCES

ATS Resources

The ATS Clinical Problems (CP) Assembly has a closed, internal Facebook page hosted by MeiLan Han that is being consistently updated with COVID-19 updates/resources for rapid dissemination among members. All ATS members may have access to this page—you will need to enter your ATS member number to join. The link to the Facebook page is [HERE](#). A major goal of this resource is to also add to knowledge by posting experiences with clinical care associated with COVID-19, as well as more general news regarding coronavirus.



Disclaimer: Staff will be monitoring postings but will not be able to judge content, and thus, these are simply platforms for exchange, with everyone understanding that nothing posted is official, ATS-vetted information. Also, please keep in mind HIPPA regulations when sharing information.

Other Resources

The New York Times has made their very extensive, frequently updated, coronavirus coverage freely available without a subscription. You can access this information by navigating from the [New York Times homepage](#), or click the link [HERE](#) to go directly to the resources.

The Center for Systems Science and Engineering at Johns Hopkins University is providing a map of the global spread of COVID-19 that updates regularly. You can access the site [HERE](#).

The ATS COVID-19 Resource Center provides free information to help healthcare providers, patients and their families manage a host of issues related to the COVID-19 pandemic. Content will be updated regularly.

If you have suggestions for resources or ideas for how ATS can best support the pulmonary, critical care, and sleep medicine community during this challenging time, please contact: covid19info@thoracic.org.

Which can be accessed [HERE](#)

Advice for Pulmonary Function Testing

Very important PFT advice that you might have missed was issued late last month by members of the ATS Proficiency Standards for Pulmonary Function Testing Committee, called "Advice Regarding COVID 19 For Pulmonary Function Laboratories." Its link is here: [HERE](#) - you have to scroll to the bottom of the page.

<https://www.thoracic.org/professionals/clinical-resources/disease-related-resources/pulmonary-function-laboratories.php>

Based on ACOEM's and CAOHC's recommendations about postponing non-essential routine spirometry and hearing tests, OSHA issued an enforcement guidance on postponing various testing and training activities during the pandemic. News release here: <https://www.osha.gov/news/newsreleases/national/04162020-0>

The PhD, Basic and Translational Science Working Group within the American Thoracic Society is developing a **database of scientists** interested in giving virtual seminars during the ongoing COVID-19 pandemic. Our goal is to promote ongoing scientific networking for PhD and basic scientists with an emphasis on facilitating seminars by early career faculty. We would like to invite you to add yourself or share with / invite your colleagues to the database below. The compiled list will be distributed to Division Chiefs, T32 institutional training grant directors, and ATS Assemblies.

Thank you in advance for participation. If you have any questions, please contact Ciara Shaver (ciara.shaver@vumc.org), Alessandra Adami (aadami@uri.edu), or Bethany Moore (bmoore@med.umich.edu).

Volunteer using this link:



https://docs.google.com/spreadsheets/d/11uM1q0g6FciZpOqeI9xHCzeWdTDppvOpXTQ5-o_sDz4/edit?usp=sharing

Recently Posted Events Include

1. Subject: Register Today: Mini-Symposia A-17 - NOVEL CAUSES OF ENVIRONMENTAL ASTHMA

Dear ATS members,

The EOPH assembly is proud to present a virtual mini-symposium on novel causes of environmental asthma. This mini-symposia will highlight some of the best abstracts from EOPH members. Topics will include original research on: e-cigarettes, air pollution, Diesel exhaust particles, and endotoxin in adults and children with asthma. Please come and support our speakers.

Hope to see you there!

2020 Program Chair: Ilona Jaspers, PhD

2021 Program Chair: Kristina L. Bailey, MD, ATSF

2021 Chair-Elect: Emily Brigham, MD, MHS

Date: Monday, October 19, 2020

Time: 5:00PM Eastern Time, 4:00PM Central, 2:00AM Pacific

Where: Via Zoom - **Registration Required at:**

https://thoracic.zoom.us/meeting/register/tJlodeytrz4jGtRJ2F6ATJwAq04w59Htb5_O

D15-A17 – Mini-Symposia Program Moderated By: Augusto Litonjua, MD, ATSF & Emily Brigham, MD, MHS

- Electronic Vapor Products, Marijuana Use, Smoking and Asthma in U.S. Adolescents - **Yueh-Ying Han, PhD**
- Effects of Diesel Exhaust Particle Exposure on a Murine Model of Chemical Asthma – **Miquel de Homdedeu, MSc**
- Higher Dietary Intake of Advanced Glycation End-Products (AGEs) Is Associated with Increased Wheezing Symptoms in Children – **Jing Wang, MD**
- Air Pollution Levels Drive Inflammatory Epithelial Responses in the Pathogenesis of Non-Viral Asthma Exacerbations in Urban Children – **Daniel Jackson, MD**
- Interaction Between House Dust Endotoxin Exposure and Proximity to a Major Roadway on Asthma Outcomes in Puerto Rican Children – **Franziska Rosser, MD, MPH**
- Epigenetic Modifications in Nitric Oxide Synthase (NOS) and Arginase (ARG) Genes in Response to Traffic Related Air Pollution Among Children with Asthma – **Nan Ji, MHS**
- Feasibility of Using Low-Cost Sensors to Monitor Personal Exposure to PM2.5 Among People with Asthma – **Sherrie Xie, BS**

2. Subject: Register Today: Mini-Symposia D-15 - ENVIRONMENTAL HEALTH DISPARITIES

2020 has been a year that has unmasked multiple areas of health disparities. This mini-symposia, hosted by the EOPH assembly, brings together ATS members that are doing excellent research into environmental health disparities. Authors will present their work that highlights how poverty, nutrition, air-pollution and urban and rural location can alter pulmonary outcomes. Please join us for this exciting presentation.

Hope to see you there!

2020 Program Chair: Ilona Jaspers, PhD

2021 Program Chair: Kristina L. Bailey, MD, ATSF

2021 Chair-Elect: Emily Brigham, MD, MHS



Date: Monday, November 16, 2020

Time: 5:00PM Eastern Time, 4:00PM Central, 2:00AM Pacific

Where: Via Zoom - **Registration Required at:**

<https://thoracic.zoom.us/meeting/register/tJwlfuGupzspHNSgLOaWG--qLBEMe4M1yzLo>

D15 – Mini-Symposia Program Moderated By: Smita Pakhale, MD, MSCE, Sarath Raju MD, MPH & Akshay Sood, MD, MPH

- Could Use of Individualized Risk Models Mitigate Health Disparities in Eligibility for Lung-Cancer Screening? – **Rebecca Landy, PhD**
- Former and Current Smokers Living in High Poverty Neighborhoods Experience Heightened Adverse Respiratory Impacts of Ambient Ozone Exposure: An Analysis of Spiromics Air – **Daniel Belz, MD, MPH**
- Early-Life Nutritional Status and Spirometric Restriction in Adult Life – **Nipasiri Voraphani, MD**
- Tobacco Inequity and Multidimensionality of Poverty: A Comprehensive Approach to Compare the Urban Poor Population and General Population of Ottawa, Canada – **Smita Pakhale, MD, FRCPC, MSc (Epi & Biostat)**
- Rural Miners Are at Greater Odds for Lung Disease Than Nonrural Miners – **Akshay Sood, M.D., M.P.H.**
- Household Food Insecurity Is Associated with Increased Chronic Obstructive Pulmonary Disease (COPD) Symptoms and Exacerbations – **Karina Romero, MSc MD**
- Exposure to Phthalates Is Associated with Respiratory Morbidity Among Predominantly Low-Income Patients with Chronic Obstructive Pulmonary Disease – **Lesliam Quiros-alcala, PhD, MSc**
- Neighborhood Socioeconomic Exposures and Early-Life Wheeze and Incident Asthma – **Antonella Zanobetti, PhD**

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