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Assembly on Environmental, Occupational, and Population Health Newsletter

EOPH

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Dear EOPH members,

In this June issue of the EOPH newsletter, we share some of our members' recent "epub ahead of print" articles. We interview Maya Rajavel, a talented student in Kent Pinkerton's lab who recently gave a podium presentation at the 2018 ATS Conference. We also share photos from our EOPH Assembly Meeting awards presentation and other accomplishments worth celebrating!

Please let us know about your recent publications, awards, and achievements. Also, we would appreciate suggestions or feedback for future issues at tara.nordgren@medsch.ucr.edu.

Sincerely,

Your Web Editorial Committee Director and co-Chair,

Tara Nordgren and Anna Nolan



Recent publications

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

Climate Change

[Realizing the Paris Climate Agreement to Improve Cardiopulmonary Health: Where Science Meets Policy.](#)

Rice MB, Malea NM, Pinkerton KE, Schwartz J, Nadeau KC, Browner CM, Whitehouse S, Thurston GD. Ann Am Thorac Soc. 2018 Apr 13. doi: 10.1513/AnnalsATS.201803-203PS. [Epub ahead of print] No abstract available.

PMID:29652522

Air Quality, Pollution, and Environmental Exposures

[Exposures Related to House Dust Microbiota in a U.S. Farming Population.](#)

Lee MK, Carnes MU, Butz N, Azcarate-Peril MA, Richards M, Umbach DM, Thorne PS, Beane Freeman LE, Peddada SD, London SJ. Environ Health Perspect. 2018 Jun 1;126(6):067001. doi: 10.1289/EHP3145. eCollection 2018 Jun.

PMID: 29863827 [Free Article](#)

[TH17-induced neutrophils enhance the pulmonary allergic response following BALB/c exposure to house dust mite allergen and fine particulate matter from California and China.](#)

Zhang J, Fulgar CC, Mar T, Young DE, Zhang Q, Bein KJ, Cui L, Castañeda A, Vogel CFA, Sun X, Li W, Smiley-Jewell S, Zhang Z, Pinkerton KE.

Toxicol Sci. 2018 May 28. doi: 10.1093/toxsci/kfy127. [Epub ahead of print]

PMID: 29846732

[Short-term effects of airport-associated ultrafine particle exposure on lung function and inflammation in adults with asthma.](#)

Habre R, Zhou H, Eckel SP, Enebish T, Fruin S, Bastain T, Rappaport E, Gilliland F.

Environ Int. 2018 May 22;118:48-59. doi: 10.1016/j.envint.2018.05.031. [Epub ahead of print]

PMID:29800768

[Reply: Response to Cookstove Trials and Tribulations: What Is Needed to Decrease the Burden of Household Air Pollution?](#)

Mortimer K, Balmes JR.

Ann Am Thorac Soc. 2018 May 16. doi: 10.1513/AnnalsATS.201804-279LE. [Epub ahead of print] No abstract available.

PMID:29767532

[Neuroendocrine regulation of air pollution health effects: Emerging insights.](#)

Snow SJ, Henriquez AR, Costa DL, Kodavanti UP.

Toxicol Sci. 2018 May 28. doi: 10.1093/toxsci/kfy129. [Epub ahead of print]

PMID:29846720

[Ethnic, geographic and dietary differences in arsenic exposure in the multi-ethnic study of atherosclerosis \(MESA\).](#)

Jones MR, Tellez-Plaza M, Vaidya D, Grau-Perez M, Post WS, Kaufman JD, Guallar E, Francesconi KA, Goessler W, Nachman KE, Sanchez TR, Navas-Acien A.

J Expo Sci Environ Epidemiol. 2018 May 24. doi: 10.1038/s41370-018-0042-0. [Epub ahead of print]

PMID:29795237

[Inhalational exposure to particulate matter air pollution alters the composition of the gut microbiome.](#)

Mutlu EA, Comba IY, Cho T, Engen PA, Yazıcı C, Soberanes S, Hamanaka RB, Niğdelioğlu R, Meliton AY, Ghio AJ, Budinger GRS, Mutlu GM.

Environ Pollut. 2018 May 18;240:817-830. doi: 10.1016/j.envpol.2018.04.130. [Epub ahead of print]

PMID:29783199

[Respirable Uranyl-Vanadate Containing Particulate Matter Derived from a Legacy Uranium Mine Site Exhibits Potentiated Cardiopulmonary Toxicity.](#)

Zychowski KE, Kodali V, Harmon M, Tyler C, Sanchez B, Ordonez Suarez Y, Herbert G, Wheeler A, Avasarala S, Cerrato JM, Kunda NK, Muttill P, Shuey C, Brearley A, Ali AM, Lin Y, Shueb M, Erdely A, Campen MJ.

Toxicol Sci. 2018 Apr 5. doi: 10.1093/toxsci/kfy064. [Epub ahead of print]

PMID:29660078

Occupational Health and Exposures

[Lung cancer mortality and exposure to synthetic metalworking fluid and biocides: controlling for the healthy worker survivor effect.](#)

Garcia E, Picciotto S, Neophytou AM, Bradshaw PT, Balmes JR, Eisen EA.

Occup Environ Med. 2018 May 9. pii: oemed-2017-104812. doi: 10.1136/oemed-2017-104812. [Epub ahead of print]

PMID:29743185

[Exploring the Role of Depression as a Moderator of a Workplace Obesity Intervention for Latino Immigrant Farmworkers.](#)

Kemmick Pintor J, Mitchell DC, Schenker MB.

J Immigr Minor Health. 2018 May 8. doi: 10.1007/s10903-018-0743-4. [Epub ahead of print]

PMID:29737446

[Respiratory Symptoms in Hospital Cleaning Staff Exposed to a Product Containing Hydrogen Peroxide, Peracetic Acid, and Acetic Acid.](#)

Hawley B, Casey M, Virji MA, Cummings KJ, Johnson A, Cox-Ganser J.

Ann Work Expo Health. 2018 May 4. doi: 10.1093/annweh/wxy025. [Epub ahead of print] No abstract available.

PMID:29733337

[Hypermethylation of CpG islands is associated with increasing chromosomal damage in chinese lead-exposed workers.](#)

Yu LB, Tu YT, Huang JW, Zhang YN, Zheng GQ, Xu XW, Wang JW, Xiao JQ, Christiani DC, Xia ZL.

Environ Mol Mutagen. 2018 May 15. doi: 10.1002/em.22194. [Epub ahead of print]

PMID:29761860

[Dose-response relationships between internally-deposited uranium and select health outcomes in gaseous diffusion plant workers, 1948-2011.](#)

Yiin JH, Anderson JL, Bertke SJ, Tollerud DJ.

Am J Ind Med. 2018 May 9. doi: 10.1002/ajim.22858. [Epub ahead of print]

PMID:29744908

[The mineralogy and epidemiology of cosmetic talc.](#)

Barlow CA, Marsh GM, Benson S, Finley BL.

Toxicol Appl Pharmacol. 2018 May 30. pii: S0041-008X(18)30247-3. doi: 10.1016/j.taap.2018.05.036. [Epub ahead of print] No abstract available.

PMID:29859223

[Increased Airway Wall Thickness is Associated with Adverse Longitudinal First-Second Forced Expiratory Volume Trajectories of Former World Trade Center workers.](#)

de la Hoz RE, Liu X, Doucette JT, Reeves AP, Bienenfeld LA, Wisnivesky JP, Celedón JC, Lynch DA, San José Estépar R.

Lung. 2018 May 24. doi: 10.1007/s00408-018-0125-7. [Epub ahead of print]

PMID:29797069

[Predicting EMP hazard: Lessons from studies with inhaled fibrous and non-fibrous nano- and micro-particles.](#)

Oberdörster G, Graham U.

Toxicol Appl Pharmacol. 2018 May 8. pii: S0041-008X(18)30203-5. doi: 10.1016/j.taap.2018.05.004. [Epub ahead of print]

PMID:29751048

Asthma and Allergic Diseases

[Exposure and Sensitization to Pets Modify Endotoxin Association with Asthma and Wheeze.](#)

Mendy A, Wilkerson J, Salo PM, Cohn RD, Zeldin DC, Thorne PS.

J Allergy Clin Immunol Pract. 2018 Apr 21. pii: S2213-2198(18)30280-0. doi: 10.1016/j.jaip.2018.04.009. [Epub ahead of print]

PMID:29684578

[Plasma Metabolite Profiles in Children with Current Asthma.](#)

Kelly RS, Sordillo JE, Lasky-Su J, Dahlin A, Perng W, Rifas-Shiman SL, Weiss ST, Gold DR, Litonjua AA, Hivert MF, Oken E, Wu AC.

Clin Exp Allergy. 2018 May 28. doi: 10.1111/cea.13183. [Epub ahead of print]

PMID:29808611

[Psychosocial risk factors and asthma among adults in Puerto Rico.](#)

Han YY, Forno E, Canino G, Celedón JC.

J Asthma. 2018 May 8:1-9. doi: 10.1080/02770903.2018.1474366. [Epub ahead of print]

PMID:29738276

[Work aggravated asthma in Great Britain: a cross-sectional postal survey.](#)

Bradshaw L, Sumner J, Delic J, Henneberger P, Fishwick D.

Prim Health Care Res Dev. 2018 Apr 12:1-9. doi: 10.1017/S1463423618000063. [Epub ahead of print]

PMID:29642970

[The effect of early child care attendance on childhood asthma and wheezing: A meta-analysis.](#)

Swartz A, Collier T, Young CA, Cruz E, Bekmezian A, Coffman J, Celedon J, Alkon A, Cabana MD.

J Asthma. 2018 Apr 9:1-11. doi: 10.1080/02770903.2018.1445268. [Epub ahead of print]

PMID:29630417

Exercise Training and Pulmonary Function

[Effects of Exercise Training on Pulmonary Function in Adults With Chronic Lung Disease: A Meta-Analysis of Randomized Controlled Trials.](#)

Salcedo PA, Lindheimer JB, Klein-Adams JC, Sotolongo AM, Falvo MJ.

Arch Phys Med Rehabil. 2018 Apr 17. pii: S0003-9993(18)30223-5. doi: 10.1016/j.apmr.2018.03.014. [Epub ahead of print] Review.

PMID: 29678450

Mechanisms

[Neuropilin-2 regulates airway inflammatory responses to inhaled lipopolysaccharide.](#)

Immormino RM, Lauzier DC, Nakano H, Hernandez ML, Alexis NE, Ghio AL, Tilley SL, Doerschuk CM, Peden DB, Cook DN, Moran TP.

Am J Physiol Lung Cell Mol Physiol. 2018 Apr 19. doi: 10.1152/ajplung.00067.2018. [Epub ahead of print]

PMID:29671604

[Cholesterol metabolism promotes B-cell positioning during immune pathogenesis of chronic obstructive pulmonary disease.](#)

Jia J, Conlon TM, Sarker RS, Taşdemir D, Smirnova NF, Srivastava B, Verleden SE, Güneş G, Wu X, Prehn C, Gao J, Heinzelmann K, Lintelmann J, Irmeler M, Pfeiffer S, Schlöter M, Zimmermann R, Hrabé de Angelis M, Beckers J, Adamski J, Bayram H, Eickelberg O, Yildirim AÖ.

EMBO Mol Med. 2018 May;10(5). pii: e8349. doi: 10.15252/emmm.201708349.

PMID:29674392

[Herpes Simplex Virus 1 Inhibits TANK-Binding Kinase 1 through Formation of the Us11-Hsp90 Complex.](#)

Liu X, Main D, Ma Y, He B.

J Virol. 2018 May 9. pii: JVI.00402-18. doi: 10.1128/JVI.00402-18. [Epub ahead of print]

PMID:29743370

[Activation of Nrf2 is Required for Normal and ChREBP \$\alpha\$ -Augmented Glucose-Stimulated \$\beta\$ -Cell Proliferation.](#)

Kumar A, Katz LS, Schulz AM, Kim M, Honig LB, Li L, Davenport B, Homann D, Garcia-Ocaña A, Herman MA, Haynes CM, Chipuk JE, Scott DK.

Diabetes. 2018 May 15. pii: db170943. doi: 10.2337/db17-0943. [Epub ahead of print]

PMID:29764859

Cardiovascular Disease

[Low population prevalence of atrial fibrillation in rural Uganda: A community-based cross-sectional study.](#)

Muthalaly RG, Koplan BA, Albano A, North C, Campbell JI, Kakuhikire B, Vořechovská D, Kraemer JD, Tsai AC, Siedner MJ.

Int J Cardiol. 2018 May 24. pii: S0167-5273(18)31107-0. doi: 10.1016/j.ijcard.2018.05.074. [Epub ahead of print]

PMID:29859712

Bronchiolitis

[Nasopharyngeal CCL5 in infants with severe bronchiolitis and risk of recurrent wheezing: A multi-center prospective cohort study.](#)

Hasegawa K, Piedra PA, Bauer CS, Celedón JC, Mansbach JM, Spengel JM, Espinola JA, Camargo CA Jr; MARC-35 Investigators.

Clin Exp Allergy. 2018 May 14. doi: 10.1111/cea.13166. [Epub ahead of print] No abstract available.

PMID:29756403

Emphysema

[CT-based Visual Classification of Emphysema: Association with Mortality in the COPDGene Study.](#)

Lynch DA, Moore CM, Wilson C, Nevrekar D, Jennermann T, Humphries SM, Austin JHM, Grenier PA, Kauczor HU, Han MK, Regan EA, Make BJ, Bowler RP, Beaty TH, Curran-Everett D, Hokanson JE, Curtis JL, Silverman EK, Crapo JD; Genetic Epidemiology of COPD (COPDGene) Investigators.

Radiology. 2018 May 15:172294. doi: 10.1148/radiol.2018172294. [Epub ahead of print]

PMID:29762095

Genetics, Genomics, and Epigenomics

[Association of Methylation Signals With Incident Coronary Heart Disease in an Epigenome-Wide Assessment of Circulating Tumor Necrosis Factor \$\alpha\$.](#)

Aslibekyan S, Agha G, Colicino E, Do AN, Lahti J, Ligthart S, Marioni RE, Marzi C, Mendelson MM, Tanaka T, Wielscher M, Absher DM, Ferrucci L, Franco OH, Gieger C, Grallert H, Hernandez D, Huan T, Iurato S, Joehanes R, Just AC, Kunze S, Lin H, Liu C, Meigs JB, van Meurs JBJ, Moore AZ, Peters A, Prokisch H, Rääkkönen K, Rathmann W, Roden M, Schramm K, Schwartz JD, Starr JM, Uitterlinden AG, Vokonas P, Waldenberger M, Yao C, Zhi D, Baccarelli AA, Bandinelli S, Deary IJ, Dehghan A, Eriksson J, Herder C, Jarvelin MR, Levy D, Arnett DK.

JAMA Cardiol. 2018 Apr 4. doi: 10.1001/jamacardio.2018.0510. [Epub ahead of print]

PMID:29617535

[S100A12 as a marker of worse cardiac output and mortality in pulmonary hypertension.](#)

Tzouveleakis A, Herazo-Maya JD, Ryu C, Chu JH, Zhang Y, Gibson KF, Adonteng-Boateng PK, Li Q, Pan H, Cherry B, Ahmad F, Ford HJ, Herzog EL, Kaminski N, Fares WH.

Respirology. 2018 Apr 2. doi: 10.1111/resp.13302. [Epub ahead of print]

PMID:29611244

Chronic Obstructive Pulmonary Disease (COPD)

[Identification of Chronic Obstructive Pulmonary Disease Axes That Predict All-Cause Mortality: The COPDGene Study.](#)

Kinney GL, Santorico SA, Young KA, Cho MH, Castaldi PJ, San José Estépar R, Ross JC, Dy JG, Make BJ, Regan EA, Lynch DA, Everett DC, Lutz SM, Silverman EK, Washko GR, Crapo JD, Hokanson JE; COPDGene Investigators.

Am J Epidemiol. 2018 May 16. doi: 10.1093/aje/kwy087. [Epub ahead of print]

PMID:29771274

[Identification of Chronic Obstructive Pulmonary Disease Axes That Predict All-Cause Mortality: The COPDGene Study.](#)

Kinney GL, Santorico SA, Young KA, Cho MH, Castaldi PJ, San José Estépar R, Ross JC, Dy JG, Make BJ, Regan EA, Lynch DA, Everett DC, Lutz SM, Silverman EK, Washko GR, Crapo JD, Hokanson JE; COPDGene Investigators.

Am J Epidemiol. 2018 May 16. doi: 10.1093/aje/kwy087. [Epub ahead of print]

PMID:29771274

[Common and rare variants genetic association analysis of cigarettes per day among ever smokers in COPD cases and controls.](#)

Lutz SM, Frederiksen B, Begum F, McDonald ML, Cho MH, Hobbs B, Parker MM, DeMeo DL, Hersh CP, Eringher M, Young K, Jiang L, Foreman MG, Kinney GL, Make BJ, Lomas DA, Bakke P, Gulsvik A, Crapo JD, Silverman EK, Beaty TH, Hokanson JE; ECLIPSE and COPDGene Investigators.

Nicotine Tob Res. 2018 May 15. doi: 10.1093/ntr/nty095. [Epub ahead of print]

PMID:29767774

[Anemia and Adverse Outcomes in a Chronic Obstructive Pulmonary Disease Population with a High Burden of Comorbidities. An Analysis from SPIROMICS.](#)

Nirupama Putcha, Ashraf Fawzy, Gabriel G. Paul, Allison A. Lambert, Kevin J. Psoter, Venkataramana K. Sidhaye, John Woo, J. Michael Wells, Wassim W. Labaki, Claire M. Doerschuk, Richard E. Kanner, MeiLan K. Han, Carlos Martinez, Laura M. Paulin, Fernando J. Martinez, Robert A. Wise, Wanda K. O'Neal, R. Graham Barr, and Nadia N. Hansel. AnnalsATS Vol. 15 No. 6.

Prognostics, Diagnostics, Testing, Methodology

[EBUS-TBNA is Sufficient for Successful Diagnosis of Silicosis with Mediastinal Lymphadenopathy.](#)

Shitrit D, Adir Y, Avriel A, King D, Epstein Shochet G, Guber A, Schnaer S, Kassirer M, Blanc PD, Abramovich A.

Lung. 2018 May 29. doi: 10.1007/s00408-018-0129-3. [Epub ahead of print]

PMID: 29845341

[Grading Severity of Productive Cough Based on Symptoms and Airflow Obstruction.](#)

Vazquez Guillaumet R, Petersen H, Meek P, Sood A, Tesfaigzi Y.
COPD. 2018 Apr 26;1-8. doi: 10.1080/15412555.2018.1458218. [Epub ahead of print]

PMID:29697285

[Method to characterize inorganic particulates in lung tissue biopsies using field emission scanning electron microscopy.](#)

Lowers HA, Breit GN, Strand M, Pillers RM, Meeker GP, Todorov TI, Plumlee GS, Wolf RE, Robinson M, Parr J, Miller R, Groshong S, Green F, Rose C.

Toxicol Mech Methods. 2018 Apr 23:1-13. doi: 10.1080/15376516.2018.1449042. [Epub ahead of print]

PMID:29685079

[The need to be all inclusive: Chest CT scans should include imaged breast parenchyma.](#)

Salvatore M, Margolies L, Bertolini A, Singh A, Yankelevitz D, Henschke C.

Clin Imaging. 2018 Apr 19;50:243-245. doi: 10.1016/j.clinimag.2018.04.006. [Epub ahead of print]

PMID:29689480

[Validation of post-operative residual contrast enhancing tumor volume as an independent prognostic factor for overall survival in newly diagnosed glioblastoma.](#)

Ellingson BM, Abrey LE, Nelson SJ, Kaufmann TJ, Garcia J, Chinot O, Saran F, Nishikawa R, Henriksson R, Mason WP, Wick W, Butowski N, Ligon KL, Gerstner ER, Colman H, de Groot J, Chang S, Mellinghoff I, Young RJ, Alexander BM, Colen R, Taylor JW, Arrillaga-Romany I, Mehta A, Huang RY, Pope WB, Reardon D, Batchelor T, Prados M, Galanis E, Wen PY, Cloughesy TF.

Neuro Oncol. 2018 Apr 5. doi: 10.1093/neuonc/noy053. [Epub ahead of print]

PMID:29660006

[Assessment of physicians' proficiency in reading chest radiographs for pneumoconiosis, based on a 60-film examination set with two factors constituting eight indices.](#)

Tamura T, Kusaka Y, Suganuma N, Suzuki K, Subhannachart P, Siriruttanapruk S, Dumavibhat N, Zhang X, Sishodiya PK, Thanh TA, Hering KG, Parker JE, Algranti E, Santos-O'Connor F, Shida H, Akira M.

Ind Health. 2018 May 26. doi: 10.2486/indhealth.2017-0115. [Epub ahead of print]

PMID:29806618

[Emergency Department Crowding and Time at the Bedside: A Wearable Technology Feasibility Study.](#)

Castner J, Suffoletto H.

J Emerg Nurs. 2018 Apr 25. pii: S0099-1767(17)30680-3. doi: 10.1016/j.jen.2018.03.005. [Epub ahead of print]

PMID:29704980

[Causative factors, imaging findings, and CT course of round atelectasis.](#)

Azour L, Billah T, Salvatore MM, Cham MD, Mendelson DS, Eber CD, Jacobi AH.

Clin Imaging. 2018 Apr 23;50:250-257. doi: 10.1016/j.clinimag.2018.04.008. [Epub ahead of print]

PMID:29704809

[Adult Chiari I Malformations: An Analysis of Surgical Risk Factors and Complications Using an International Database.](#)

Bhimani AD, Esfahani DR, Denyer S, Chiu RG, Rosenberg D, Barks AL, Arnone GD, Mehta AI.

World Neurosurg. 2018 Apr 21. pii: S1878-8750(18)30795-2. doi: 10.1016/j.wneu.2018.04.077. [Epub ahead of print]

PMID:29684513

[Anterior Versus Posterior Approach for Thoracic Corpectomy: An Analysis of Risk Factors, Outcomes, and Complications.](#)

Chiu RG, Hobbs J, Esfahani DR, Patel S, Rosenberg D, Rosinski CL, Patel AS, Chaker AN, Mehta AI.

World Neurosurg. 2018 May 17. pii: S1878-8750(18)31027-1. doi: 10.1016/j.wneu.2018.05.074. [Epub ahead of print]

PMID:29778596

Cancer

[Potential Racial Disparities Using Current Lung Cancer Screening Guidelines.](#)

Annangi S, Nutalapati S, Foreman MG, Pillai R, Flenaugh EL.

J Racial Ethn Health Disparities. 2018 May 4. doi: 10.1007/s40615-018-0492-z. [Epub ahead of print]

PMID:29729002

[Statin use, high cholesterol and prostate cancer progression; results from HCaP-NC.](#)

Allott EH, Farnan L, Steck SE, Song L, Arab L, Su LJ, Fontham ETH, Mohler JL, Bensen JT.

Prostate. 2018 May 1. doi: 10.1002/pros.23644. [Epub ahead of print]

PMID:29717502

[Use of cyclin-dependent kinase \(CDK\) 4/6 inhibitors for hormone receptor-positive, human epidermal growth factor receptor 2-negative, metastatic breast cancer: a roundtable discussion by The Breast Cancer Therapy Expert Group \(BCTEG\).](#)

Abraham J, Coleman R, Elias A, Holmes FA, Kalinsky K, Kittaneh M, Lower E, Mahtani R, Terry Mamounas E, Pegram M, Vogel C; Breast Cancer Therapy Expert Group (BCTEG).

Breast Cancer Res Treat. 2018 May 4. doi: 10.1007/s10549-018-4783-1. [Epub ahead of print] Review.

PMID:29725889

[Malignant peritoneal mesothelioma in patients with endometriosis.](#)

Butnor KJ, Rueckert J, Pavlisko EN, Sporn TA, Roggli VL.

J Clin Pathol. 2018 May 23. pii: jclinpath-2018-205099. doi: 10.1136/jclinpath-2018-205099. [Epub ahead of print]

PMID:29794065

[Multi-Omics Analysis Reveals a HIF Network and Hub Gene EPAS1 Associated with Lung Adenocarcinoma.](#)

Wang Z, Wei Y, Zhang R, Su L, Gogarten SM, Liu G, Brennan P, Field JK, McKay JD, Lissowska J, Swiatkowska B, Janout V, Bolca C, Kontic M, Scelo G, Zaridze D, Laurie CC, Doheny KF, Pugh EK, Marosy BA, Hetrick KN, Xiao X, Pikielny C, Hung RJ, Amos CI, Lin X, Christiani DC.

EBioMedicine. 2018 May 31. pii: S2352-3964(18)30188-9. doi: 10.1016/j.ebiom.2018.05.024. [Epub ahead of print]

PMID:29859855

[Post-chemoradiation volumetric response predicts survival in newly diagnosed glioblastoma treated with radiation, temozolomide and bevacizumab or placebo.](#)

Ellingson BM, Abrey LE, Garcia J, Chinot O, Wick W, Saran F, Nishikawa R, Henriksson R, Mason WP, Harris RJ, Leu K, Woodworth DC, Mehta A, Raymond C, Chakhoyan A, Pope WB, Cloughesy TF.

Neuro Oncol. 2018 Apr 20. doi: 10.1093/neuonc/noy064. [Epub ahead of print]

PMID:29897562

[A brief bedside visual art intervention decreases anxiety and improves pain and mood in patients with haematologic malignancies.](#)

Saw JJ, Curry EA, Ehlers SL, Scanlon PD, Bauer BA, Rian J, Larson DR, Wolanskyj AP.

Eur J Cancer Care (Engl). 2018 Apr 17:e12852. doi: 10.1111/ecc.12852. [Epub ahead of print]

PMID:29667288

HIV

[Systemic Inflammation, Immune Activation and Impaired Lung Function among People Living with HIV in Rural Uganda.](#)

North CM, Muyanja D, Kakuhikire B, Tsai AC, Tracy RP, Hunt PW, Kwon DS, Christiani DC, Okello S, Siedner MJ.

J Acquir Immune Defic Syndr. 2018 Apr 20. doi: 10.1097/QAI.0000000000001711. [Epub ahead of print]

PMID:29683991

Cigarettes, E-Cigarettes, Smoking Exposures

[Electronic Cigarette and Cigarette Social Environments and Ever Use of Each Product: A Prospective Study of Young Adults in Southern California.](#)

Urman R, McConnell R, Unger JB, Cruz TB, Samet JM, Berhane K, Barrington-Trimis JL.
Nicotine Tob Res. 2018 May 8. doi: 10.1093/ntr/nty097. [Epub ahead of print]

PMID:29741713

[In-Home Secondhand Smoke Exposure Among Urban Children With Asthma: Contrasting Households With and Without Residential Smokers.](#)

Wu TD, Eakin MN, Rand CS, Brigham EP, Diette GB, Hansel NN, McCormack MC.
J Public Health Manag Pract. 2018 Apr 5. doi: 10.1097/PHH.0000000000000790. [Epub ahead of print]

PMID:29883368

[Longitudinal Modeling of Lung Function Trajectories in Smokers with and without COPD.](#)

Ross JC, Castaldi PJ, Cho MH, Hersh CP, Rahaghi FN, Sánchez-Ferrero GV, Parker MM, Litonjua AA, Sparrow D, Dy JG, Silverman EK, Washko GR, San José Estépar R.
Am J Respir Crit Care Med. 2018 Apr 19. doi: 10.1164/rccm.201707-1405OC. [Epub ahead of print]

PMID:29671603

Marijuana and Combined Use Exposures

[Marijuana and Lung Disease.](#)

Tashkin DP.
Chest. 2018 May 17. pii: S0012-3692(18)30742-6. doi: 10.1016/j.chest.2018.05.005. [Epub ahead of print] Review.

PMID:29778658

Interesting Clinical Cases?

The web committee is currently calling for “Quick Hit” clinical cases, which will be posted on the website and highlighted in this newsletter. It is a good, peer-reviewed writing opportunity for trainees. Submit clinical cases to kbailey@unmc.edu or tara.nordgren@medsch.ucr.edu.

Things Worth Celebrating!

EOPH Assembly member Dr. Anthony Szema was recently interviewed for a New York Times Article titled, “**Veterans Go Back to Court Over Burn Pits. Do They Have a Chance?**” To read the article and learn more on this topic, click [here](#).

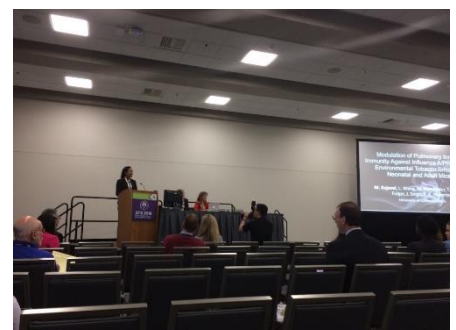
We know that many of you have successes to share with us. Please help us expand this section by emailing us your good news: tara.nordgren@medsch.ucr.edu.

ATS 2018 Meeting, San Diego, CA

[An Interview with Maya Rajavel](#)

(Interviewed by Tara Nordgren, PhD, UC-Riverside)

For those of you who had the opportunity to attend the EOPH Assembly Meeting at ATS this year, you may recall hearing about Ms. Maya Rajavel, a student who, while in high school, has worked in Dr. Kent Pinkerton’s lab at UC Davis. Her abstract was accepted for a podium presentation at ATS 2018. As described by Dr. Pinkerton, “Maya had just completed the 9th grade when she



first started working in the laboratory. She has been truly amazing! Because of the highly impactful and significant research she completed over the past three summers, I encouraged Maya to submit an abstract to ATS.” Following her ATS podium talk, I contacted Maya to get her take on her research experience at UC Davis, first ATS conference, and advice for fellow students:

- **What got you interested in doing research in biomedical sciences, and when did you first become interested?**

Actually, it was my cousin who recommended that I contact Dr. Pinkerton to see if I could research over the summer. At the time, he was visiting us in Seattle and was in the middle of med school, but he saw that I had a huge passion for biology and the environmental sciences. They were definitely my favorite subjects in high school.

Because I was a 9th grader, I really had no idea what I wanted to do when I was older, and so he said maybe learning at the lab would help me get an idea and explore into my options. I was very excited.

So, a couple of emails later, I was able to contact Dr. Pinkerton. It was one of the best decisions I’ve ever made in my life! That summer, I was able to learn so much, and my passion for research kind of grew from there. I learned how important collaboration was in research, and how every little contribution makes a huge difference! My love for science enlarged exponentially as time went on. 20 minds in science are definitely better than one!

- **What has been the most difficult thing for you thus far in pursuing your interests?**

Probably, and most obviously, learning all of the material necessary! I remember returning to my room after spending a day at the lab and scavenging the internet for answers to my most pressing questions—what was IHC and how did it work; what are the average life-spans of mice; what is CD4/CD8 and IFN- γ ? I don’t know why, but I loved learning more about all of the different science concepts, especially the immune system.

Although it was a lot of work getting acquainted with everything from the alveoli in the lungs to the SA node in the heart, I can honestly say that learning all of it only made me hungry for more. My first summer at the lab inspired me to take Anatomy and Physiology at my high school (which became my favorite class), and I started to do my own outside research based on my own interests. Eventually, my love for biology and science began to filter into my other subjects as well. Even my final history paper was about the influenza pandemic of 1918!

- **What has been the best part of your experience thus far?**

By far, the best part of my experience was bonding with everyone at the lab. I probably mentioned this earlier, but whenever we talk about research in high school, it’s easy to imagine one or two scientists sitting in a dark room with a computer and a microscope, working all alone on finding some obscure cure to a disease. But after being at UC Davis, that myth has definitely been debunked. I’ve discovered that more than scientific discovery, what made me so much happier was meeting and collaborating with people who have similar passions.

I cannot ever repay the amount of support and opportunity everyone at the lab, especially Dr. Pinkerton, has given me to grow and discover this much. Whether it was someone who taught me all of the ins and outs of the cardiovascular system, or someone else who was willing to walk me through how to do IHC, I don’t think I would be half-as interested in research as I am without them. Such enriching opportunities are rare for a high schooler and being at the lab around people who love science so much has cultivated my interest ten-fold.

Now when I look back, it seems almost impossible how much I’ve learned from them these past three years. A huge thanks to everyone at the Center for Health and the Environment!!!!

- **Do you have any advice for other students who may be interested in pursuing this path?**

This is probably going to be very cliché, but don’t be afraid to try it. I think there’s this huge idea about how, to do research, you have to have studied science for 100,000+ years in college and have like 6 degrees. While

you do have to have a basic background in biology, I felt that it was more important to be willing to learn and work hard to grasp the concepts that need to be understood.

In that way, it's important not to give up either! Yes, it may seem a little overwhelming at first, but over time, it's almost unbelievable how much you'll learn—sometimes you don't even realize it.

- **What did you think of the ATS (and EOPH assembly) experience?**

I thought it was insanely amazing! I've never met such a huge group of supportive, smart scientists all in the same place at the same time! Everyone there was so absolutely encouraging, and it made me feel really welcome there. Thanks to everyone who took time out of their day to talk to me!

Another really cool thing was actually seeing science in action. In my IB Environmental Systems class, my teacher talks a lot about the efforts that scientists are making to stop air pollution and lessen the amounts of toxic chemicals entering our atmosphere. It was amazing to actually see what is taking place on science's end to make our world a better place.

Overall, being around such kind, and encouraging people was really inspiring and made my passion for pursuing science in the future increase! I hope other high schoolers choose to engage in research like I have so that they too can experience how amazing science can really be.

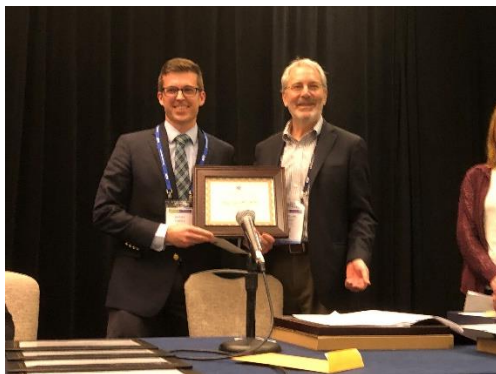
EOPH Assembly 2018 Awardees

Congratulations to our EOPH Assembly 2018 Awardees!

- **John Peters Award - Susan Tarlo, MBBS**



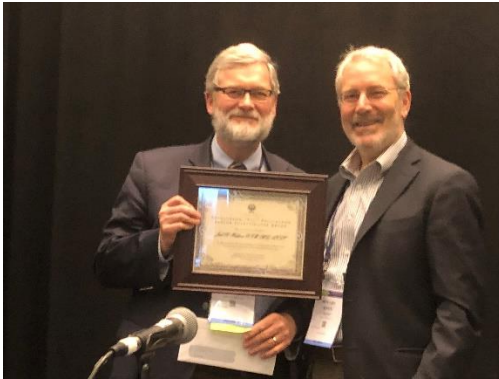
- **David Bates Award - Daniel Croft, MD, MPH**



- Val Vallyathan Award (Junior) - Amanda Mathew, PhD



- Val Vallyathan Award (Senior) - Jack R. Harkema, DVM, PhD, ATSF



- Plus, all of our 2018 ATS Abstract Travel Awardees!

