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PULMONARY • CRITICAL CARE • SLEEP

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EOPH Newsletter

EOPH web editorial committee

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Dear EOPH members,

Welcome to the February issue of the EOPH newsletter. We love to highlight the recent publications of our membership, and help to celebrate our members' achievements. We are especially interested in highlighting the best work of trainees and junior faculty members.

We welcome any input into what else you would like to see in the newsletter. Please contact us at kbailey@unmc.edu or craig.glazer@utsouthwestern.edu with any noteworthy publications, achievements, or suggestions for future issues.

Sincerely,

Your web committee co-chairs,

Kristina Bailey and Craig Glazer



Recent publications

This section highlights some of our members' best work in the month of January. These are the best articles from our assembly that became available as "epubs ahead of print" in January. It is possible that our search may miss your best work, so please send your recent publications to: kbailey@unmc.edu.

Interstitial lung disease

[CT Phenotypes of Pulmonary Fibrosis in the MUC5B Promoter Site Polymorphism.](#)

Chung JH, Peljto AL, Chawla A, Talbert JL, McKean DF, Rho BH, Fingerlin TE, Schwarz MI, Schwartz DA, Lynch DA. Chest. 2016 Jan 13. pii: S0012-3692(15)00170-1.

[Transitions to different patterns of interstitial lung disease in scleroderma with and without treatment.](#)

Kim HJ, Tashkin DP, Gjertson DW, Brown MS, Kleerup E, Chong S, Belperio JA, Roth MD, Abtin F, Elashoff R, Tseng CH, Khanna D, Goldin JG. Ann Rheum Dis. 2016 Jan 12.

COPD

[Exome Array Analysis Identifies A Common Variant in IL27 Associated with Chronic Obstructive Pulmonary Disease.](#)

Hobbs BD, Parker MM, Chen H, Lao T, Hardin M, Qiao D, Hawrylkiewicz I, Sliwinski P, Yim JJ, Kim WJ, Kim DK, Castaldi PJ, Hersh CP, Morrow J, Celli BR, Pinto-Plata VM, Criner GJ, Marchetti N, Bueno R, Agusti A, Make BJ, Crapo JD, Calverley PM, Donner CF, Lomas DA, Wouters EF, Vestbo J, Paré PD, Levy RD, Rennard SI, Zhou X, Laird NM, Lin X, Beaty TH, Silverman EK, Cho MH; NETT Genetics, ECLIPSE, COPDGene and International COPD Genetics Network Investigators. Am J Respir Crit Care Med. 2016 Jan 15.

[Age-Related Differences in Health-Related Quality of Life in COPD: An Analysis of the COPDGene and SPIROMICS Cohorts.](#)

Martinez CH, Diaz AA, Parulekar AD, Rennard SI, Kanner RE, Hansel NN, Couper D, Holm KE, Hoth KF, Curtis JL, Martinez FJ, Hanania NA, Regan EA, Paine R 3rd, Cigolle CT, Han MK; COPDGene and SPIROMICS Investigators. Chest. 2015 Dec 17. pii: S0012-3692(15)00307-4.

[The effect of an oral anti-oxidant, N-Acetyl-cysteine, on inflammatory and oxidative markers in pulmonary sarcoidosis.](#)

Hamzeh N, Li L, Barkes B, Huang J, Canono B, Gillespie M, Maier L, Day B. Respir Med. 2016 Jan 22.

[Association Between Functional Small Airways Disease and FEV₁ Decline in COPD.](#)

Bhatt SP, Soler X, Wang X, Murray S, Anzueto AR, Beaty TH, Boriek AM, Casaburi R, Criner GJ, Diaz AA, Dransfield MT, Curran-Everett D, Galbán CJ, Hoffman EA, Hogg JC, Kazerooni EA, Kim V, Kinney GL, Lagstein A, Lynch DA, Make BJ, Martinez FJ, Ramsdell

JW, Reddy R, Ross BD, Rossiter HB, Steiner RM, Strand MJ, van Beek EJ, Wan ES, Washko GR, Wells JM, Wendt CH, Wise RA, Silverman EK, Crapo JD, Bowler RP, Han MK; COPDGene Investigators..Am J Respir Crit Care Med. 2016 Jan 25.

[Plasma Fibrinogen Qualification as a Drug Development Tool in COPD: Perspective of the COPD Biomarker Qualification Consortium.](#)

Miller BE, Tal-Singer R, Rennard SI, Furtwaengler A, Leidy N, Lowings M, Martin UJ, Martin TR, Merrill DD, Snyder J, Walsh J, Mannino DM. Am J Respir Crit Care Med. 2016 Jan 8.

[Exome Sequencing Analysis in Severe, Early-Onset Chronic Obstructive Pulmonary Disease.](#)

Qiao D, Lange C, Beaty TH, Crapo JD, Barnes KC, Bamshad M, Hersh CP, Morrow J, Pinto-Plata VM, Marchetti N, Bueno R, Celli BR, Criner GJ, Silverman EK, Cho MH; Lung GO, COPDGene Investigators, NHLBI Exome Sequencing Project. Am J Respir Crit Care Med. 2016 Jan 6

[The Role of Lobe Selection on FEV₁ Response in Endobronchial Valve Therapy.](#)

Liberator C, **Shenoy K**, Marchetti N, Criner G. COPD. 2016 Jan 20:1-6.

Dietary factors in lung disease

[Dietary anthocyanin intake and age-related decline in lung function: longitudinal findings from the VA Normative Aging Study.](#)

Mehta AJ, Cassidy A, Litonjua AA, Sparrow D, Vokonas P, Schwartz J. Am J Clin Nutr. 2016 Feb;103(2):542-50.

[The Relationship between Dietary Fiber Intake and Lung Function in NHANES.](#)

Hanson C, Lyden E, Rennard S, Mannino DM, Rutten EP, Hopkins R, Young R. Ann Am Thorac Soc. 2016 Jan 19.

[Lung VITAL: Rationale, design, and baseline characteristics of an ancillary study evaluating the effects of vitamin D and/or marine omega-3 fatty acid supplements on acute exacerbations of chronic respiratory disease, asthma control, pneumonia and lung function in adults.](#)

Gold DR, Litonjua AA, Carey VJ, Manson JE, Buring JE, Lee IM, Gordon D, Walter J, FriedenberG, Hankinson JL, Copeland T, Luttmann-Gibson H. Contemp Clin Trials. 2016 Jan 16;47:185-195.

[Effect of Broccoli Sprouts and Live Attenuated Influenza Virus on Peripheral Blood Natural Killer Cells: A Randomized, Double-Blind Study.](#)

Müller L, Meyer M, Bauer RN, Zhou H, Zhang H, Jones S, Robinette C, Noah TL, Jaspers I. PLoS One. 2016 Jan 28;11(1):e0147742. doi: 10.1371/journal.pone.0147742. eCollection 2016

Particulate Matter

[Long-Term Coarse Particulate Matter Exposure and Heart Rate Variability in the Multi-Ethnic Study of Atherosclerosis \(MESA\).](#)

Adhikari R, D'Souza J, Solimon EZ, Burke GL, Daviglius M, Jacobs DR Jr, Park SK, Sheppard L, Thorne PS, Kaufman JD, Larson TV, Adar SD. Epidemiology. 2016 Jan 29.

[Household concentrations and personal exposure of PM_{2.5} among urban residents using different cooking fuels.](#)

Li T, Cao S, Fan D, Zhang Y, Wang B, Zhao X, Leaderer BP, Shen G, Zhang Y, Duan X. Sci Total Environ. 2016 Jan 19;548-549:6-12.

[Acute increase in blood pressure during inhalation of coarse particulate matter air pollution from an urban location.](#)

Byrd JB, Morishita M, Bard RL, Das R, Wang L, Sun Z, Spino C, Harkema J, Dvonch JT, Rajagopalan S, Brook RD. J Am Soc Hypertens. 2015 Nov 26.

[Fine particles, genetic pathways, and markers of inflammation and endothelial dysfunction: Analysis on particulate species and sources.](#)

Dai L, Bind MA, Koutrakis P, Coull BA, Sparrow D, Vokonas PS, Schwartz JD. J Expo Sci Environ Epidemiol. 2016 Jan 6

Air Pollution

[Traffic-related air pollution and alveolar nitric oxide in southern California children.](#)

Eckel SP, Zhang Z, Habre R, Rappaport EB, Linn WS, Berhane K, Zhang Y, Bastain TM, Gilliland FD. Eur Respir J. 2016 Jan 21. pii: ERJ-01176-2015. doi: 10.1183/13993003.01176-2015.

[The Clean Power Plan: A Public Health Victory Needing Medical Attention.](#)

Ross KR, Rice MB, Takaro TK; American Thoracic Society Environmental Health Policy Committee. Am J Respir Crit Care Med. 2016 Jan 5.

[Air Pollution and Lung Function in Minority Youth with Asthma in the GALA II & SAGE II Studies.](#)

Neophytou AM, White MJ, Oh SS, Thakur N, Galanter JM, Nishimura KK, Pino-Yanes M, Torgerson DG, Gignoux CR, Eng C, Nguyen EA, Hu D, Mak AC, Kumar R, Seibold MA, Davis A, Farber HJ, Meade K, Avila PC, Serebrisky D, Lenoir MA, Brigino-Buenaventura E, Rodriguez-Cintron W, Bibbins-Domingo K, Thyne SM, Williams LK, Sen S, Gilliland FD, Gauderman WJ, Rodriguez-Santana JR, Lurmann F, Balmes JR, Eisen EA, Burchard EG. Am J Respir Crit Care Med. 2016 Jan 6.

[Ozone Exposure Increases Circulating Stress Hormones and Lipid Metabolites in Humans.](#)

Miller DB, Ghio AJ, Karoly ED, Bell LN, Snow SJ, Madden MC, Soukup J, Cascio WE, Gilmour MI, Kodavanti UP. Am J Respir Crit Care Med. 2016 Jan 8.

[Acute Ozone-Induced Pulmonary and Systemic Metabolic Effects are Diminished in Adrenalectomized Rats.](#)

Miller DB, Snow SJ, Schladweiler MC, Richards JE, Ghio AJ, Ledbetter AD, Kodavanti UP. Toxicol Sci. 2016 Jan 5.

Agriculture

[Organophosphorus pesticide exposure and neurobehavioral performance in Latino children living in an orchard community.](#)

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Neurotoxicology. 2016 Jan 25;53:165-172. doi: 10.1016/j.neuro.2016.01.009.

[Implementing a National Tractor Safety Program: Using "Whole System in a Room" to Mobilize Partners and Implement Solutions.](#)

Tinc PJ, Ayers P, May JJ, Purschwitz MA, Park S, Bayes B, Sorensen J.
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[Occupational agriculture organic dust exposure and its relationship to asthma and airway inflammation in adults.](#)

Wunschel J, Poole JA. J Asthma. 2016 Jan 19:1-7.

[Pulmonary health effects of agriculture.](#)

Nordgren TM, Bailey KL. Curr Opin Pulm Med. 2016 Mar;22(2):144-9.

Occupational Medicine

[Association between Occupational Exposures and Sarcoidosis: an Analysis from Death Certificates in the United States, 1988-1999.](#)

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[Multimedia exposures to arsenic and lead for children near an inactive mine tailings and smelter site.](#)

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Environ Res. 2016 Jan 21;146:331-339. doi: 10.1016/j.envres.2015.12.011.

[MMP-9-Dependent Serum-Borne Bioactivity Caused by Multi-walled Carbon Nanotube Exposure Induces Vascular Dysfunction Via the CD36 Scavenger Receptor.](#)

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[Predicting Future Protection of Respirator Users: Statistical Approaches and Practical Implications.](#)

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[Classification of neck/shoulder pain in epidemiological research: a comparison of personal and occupational characteristics, disability and prognosis among 12,195 workers from 18 countries.](#)

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Ferrario MM, Pesatori AC, Chatzi L, Bitsios P, Kogevinas M, Oha K, Tiina, Freimann, Sadeghian A, Peiris-John RJ, Sathiakumar N, Wickremasinghe AR, Yoshimura N, Kelsall HL, Hoe VC, Urquhart DM, Derrett S, McBride D, Herbison P, Gray A, Salazar Vega EJ. Pain. 2016 Jan 5.

[Lung disease and coal mining: what pulmonologists need to know.](#)

Go LH, Krefft SD, Cohen RA, Rose CS.

Curr Opin Pulm Med. 2016 Mar;22(2):170-8.

Asthma

[In utero exposure to pets is associated with asthma and wheezing in Mexican American children.](#)

Eldeirawi K, Kunzweiler C, Combs AM, Persky VW. J Asthma. 2016 Jan 21:1-8.

[Exploring racial differences in IgE-mediated food allergy in the WHEALS birth cohort.](#)

Joseph CL, Zoratti EM, Ownby DR, Havstad S, Nicholas C, Nageotte C, Misiak R, Enberg R, Ezell J, Johnson CC. Ann Allergy Asthma Immunol. 2016 Jan 30.

Smoking

[Recent marijuana use and associations with exhaled nitric oxide and pulmonary function in US adults.](#)

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[The Case for Requiring Graphic Warning Labels on Smokeless Tobacco Product Packages.](#)

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[One Hundred Years in the Making: The Global Tobacco Epidemic.](#)

Wipfli H, Samet JM. Annu Rev Public Health. 2016 Jan 14.

[HDAC3 mediates smoking-induced pancreatic cancer.](#)

Edderkaoui M, Xu S, Chheda C, Morvaridi S, Hu RW, Grippo PJ, Mascariñas E, Principe DR, Knudsen B, Xue J, Habtezion A, Uyeminami D, Pinkerton KE, Pandol SJ. Oncotarget. 2016 Jan 5. doi: 10.18632/oncotarget.6820.

[Reduced lung function in smokers in a lung cancer screening cohort with asbestos exposure and pleural plaques.](#)

Rom WN, Lopatin S, Tsay JJ, Addrizzo-Harris D, Munger JS, Pass H. Am J Ind Med. 2016 Jan 27.

Fracking

[A systematic evaluation of chemicals in hydraulic-fracturing fluids and wastewater for reproductive and developmental toxicity.](#)

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Hypersensitivity pneumonitis

[Hypersensitivity pneumonitis and antigen identification - An alternate approach.](#)

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Things worth celebrating

Unfortunately, no one sent us any information about their many accomplishments this month. Please send your “things worth celebrating” to kbailey@unmc.edu.



Send us your interesting cases

The web committee is currently soliciting interesting pulmonary cases with an EOPH focus. These cases will be posted on the website and highlighted in this newsletter. They will be peer reviewed prior to acceptance, so this is a good opportunity for your trainees. kbailey@unmc.edu or craig.glazer@utsouthwestern.edu. For an example, please see the January 2016 issue.