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Volume 3 | Issue 10  
November 2017

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

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## ***EOPH***

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Dear EOPH members,

In this November issue of the EOPH newsletter, we share some of our members' recent "epub ahead of print" articles, information about the ATS 2018 BEAR Cage Competition for early career investigators, and details on an upcoming ATS 2018 PGME course. Several of our members have also been recent recipients of prestigious awards that we describe in our "Things Worth Celebrating" section!

Please let us know about your recent publications, awards, and achievements. Also, we would appreciate suggestions or feedback for future issues at [kbailey@unmc.edu](mailto:kbailey@unmc.edu) or [tara.nordgren@medsch.ucr.edu](mailto:tara.nordgren@medsch.ucr.edu).

Sincerely,

Your web committee co-chairs,

Kristina Bailey and Tara Nordgren



## Recent publications

This section highlights some of our assembly members' exciting research that was recently 'e-published.' It is possible that our search may miss your best work, so please send your recent publications to: [kbailey@unmc.edu](mailto:kbailey@unmc.edu).

### Terrorism and Inhalational Disasters Section

[Assessment of an irritant gas plume model for epidemiologic study.](#)

Jani DD, Wilson M, Wickliffe JK, Shaffer J, Middleton T, Rando R, Svendsen ER.  
Int J Environ Health Res. 2017 Aug;27(4):276-292. PMID: 28661191

[Editor's Highlight: Pulmonary Vascular Thrombosis in Rats Exposed to Inhaled Sulfur Mustard.](#)

McGraw MD, Osborne CM, Mastej EJ, Di Paola JA, Anderson DR, Holmes WW, Paradiso DC, Garlick RB, Hendry-Hofer TB, Rancourt RC, Smith RW, Burns C, Roe GB, Rioux JS, White CW, Veress LA.  
Toxicol Sci. 2017 Oct 1;159(2):461-469. PMID: 28962529

[Oxygen Administration Improves Survival but Worsens Cardiopulmonary Functions in Chlorine Exposed Rats.](#)

Okponyia OC, McGraw MD, Dysart MM, Garlick RB, Rioux JS, Murphy AL, Roe GB, White CW, Veress LA.  
Am J Respir Cell Mol Biol. 2017 Aug 28. PMID: 28846437

[Exposure of Neonatal Mice to Bromine Impairs Their Alveolar Development and Lung Function.](#)

Jilling T, Ren C, Yee AJ, Aggarwal S, Halloran B, Ambalavanan N, Matalon S. Am J Physiol Lung Cell Mol Physiol. 2017 Sep 14:ajplung.00315.2017. PMID: 28912380

[Ion channels of the lung and their role in disease pathogenesis.](#)

Bartoszewski R, Matalon S, Collawn JF.  
Am J Physiol Lung Cell Mol Physiol. 2017 Oct 12:ajplung.00285.2017. PMID: 29025712

### Agricultural, Mining, and Particulate Occupational Exposures

[Biomass smoke exposure as an occupational risk: cross-sectional study of respiratory health of women working as street cooks in Nigeria.](#)

Awopeju OF, Nemery B, Afolabi OT, Poels K, Vanoirbeek J, Obaseki DO, Adewole OO, Lawin HA, Vollmer W, Erhabor GE.  
Occup Environ Med. 2017 Oct;74(10):737-744.

[A clinical assessment and lung tissue burden from an individual who worked as a Libby vermiculite miner.](#)

Black B, Dodson RF, Bruce JR, Poye LW, Henschke C, Loewen G.  
Inhal Toxicol. 2017 Aug;29(9):404-413. Epub 2017 Oct 17.

[Updating the "Risk Index": A systematic review and meta-analysis of occupational injuries and work schedule characteristics.](#)

Fischer D, Lombardi DA, Folkard S, Willetts J, Christiani DC.  
Chronobiol Int. 2017 Oct 24:1-16.

[Usefulness of à la carte antigens for bird fancier's lung serodiagnosis: total dropping extract and/or dropping's microflora antigens.](#)

Rouzet A, Reboux G, Dalphin JC, De Vuyst P, Laboissière A, Valot B, Millon L, Roussel S.  
J Med Microbiol. 2017 Oct;66(10):1467-1470.

[Assessment of Ambient Exposures Firefighters Encounter While at the Fire Station: An Exploratory Study.](#)

Sparer EH, Prendergast DP, Apell JN, Bartzak MR, Wagner GR, Adamkiewicz G, Hart JE, Sorensen G.  
J Occup Environ Med. 2017 Oct;59(10):1017-1023.

[The Public Health Conundrum of Coal Mining.](#)

Wagner GR.

Ann Am Thorac Soc. 2017 Oct 11. [Epub ahead of print]

## Air and Water Pollution

[Traffic-related air pollution exposure over a 5-year period is associated with increased risk of asthma and poor lung function in middle age.](#)

Bowatte G, Erbas B, Lodge CJ, Knibbs LD, Gurrin LC, Marks GB, Thomas PS, Johns DP, Giles GG, Hui J, Dennekamp M, Perret JL, Abramson MJ, Walters EH, Matheson MC, Dharmage SC.

Eur Respir J. 2017 Oct 26;50(4).

[Ambient air pollution and emergency department visits for asthma in Erie County, New York 2007-2012.](#)

Castner J, Guo L, Yin Y.

Int Arch Occup Environ Health. 2017 Oct 17. [Epub ahead of print].

[The Gulf Coast Health Alliance: Health Risks Related to the Macondo Spill \(GC-HARMS\) Study: Self-Reported Health Effects.](#)

Croisant SA, Lin YL, Shearer JJ, Prochaska J, Phillips-Savoy A, Gee J, Jackson D, Panettieri RA, Howarth M, Sullivan J, Black BJ, Tate J, Nguyen D, Anthony A, Khan A, Fernando H, Ansari GAS, Rowe G, Howrey B, Singleton C, Elferink C.

Int J Environ Res Public Health. 2017 Oct 31;14(11).

[Potential Cardiovascular and Total Mortality Benefits of Air Pollution Control in Urban China.](#)

Huang C, Moran AE, Coxson PG, Yang X, Liu F, Cao J, Chen K, Wang M, He J, Goldman L, Zhao D, Kinney PL, Gu D.

Circulation. 2017 Oct 24;136(17):1575-1584.

[Development of a modeling approach to estimate indoor-to-outdoor sulfur ratios and predict indoor PM<sub>2.5</sub> and black carbon concentrations for Eastern Massachusetts households.](#)

Tang CH, Garshick E, Grady S, Coull B, Schwartz J, Koutrakis P.

J Expo Sci Environ Epidemiol. 2017 Oct 18. [Epub ahead of print].

[A county-level estimate of PM<sub>2.5</sub> related chronic mortality risk in China based on multi-model exposure data.](#)

Wang Q, Wang J, He MZ, Kinney PL, Li T.

Environ Int. 2017 Oct 30. [Epub ahead of print].

## Asthma and Allergic Respiratory Diseases in Adults

[Exacerbation risk and characterisation of the UK's asthma population from infants to old age.](#)

Bloom CI, Nissen F, Douglas IJ, Smeeth L, Cullinan P, Quint JK.

Thorax. 2017 Oct 26. [Epub ahead of print].

[CHRODIS criteria applied to the MASK \(MACVIA-ARIA Sentinel Network\) Good Practice in allergic rhinitis: a SUNFRAIL report.](#)

Bousquet J, Onorato GL, Bachert C, Barbolini M, Bedbrook A, Bjermer L, et al.

Clin Transl Allergy. 2017 Oct 23;7:37.

[Effects of Omalizumab on Rhinovirus Infections, Illnesses, and Exacerbations of Asthma.](#)

Esquivel A, Busse WW, Calatroni A, Togias AG, Grindle KG, Bochkov YA, Gruchalla RS, Kattan M, Kerckmar CM, Khurana Hershey G, Kim H, Lebeau P, Liu AH, Szeffler SJ, Teach SJ, West JB, Wildfire J, Pongracic JA, Gern JE.

Am J Respir Crit Care Med. 2017 Oct 15;196(8):985-992.

[Associations of atopy and asthma during aging of an adult population over a 20-year follow-up.](#)

Ferreira DS, Kaushik S, Smith CL, Dharmage SC, Benke GP, Thompson BR, Walters EH, Wolfe R, Abramson MJ.  
J Asthma. 2017 Oct 4:1-8. [Epub ahead of print].

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

Gold DR, Adamkiewicz G, Arshad SH, Celedón JC, Chapman MD, Chew GL, Cook DN, et al.  
J Allergy Clin Immunol. 2017 Oct;140(4):933-949.

[Atopy in people aged 40 years and over: Relation to airflow limitation.](#)

Guevara-Rattray EM, Garden FL, James AL, Wood-Baker R, Abramson MJ, Johns DP, Sonia Buist A, Burney PGJ, Haydn Walters E, Toelle BG, Marks GB.  
Clin Exp Allergy. 2017 Oct 3. doi: 10.1111/cea.13038. [Epub ahead of print].

[Occupational exposure and asthma control.](#)

Heederik D.  
Eur Respir J. 2017 Oct 26;50(4). pii: 1701951.

[Prevalence of asthma-like symptoms with ageing.](#)

Jarvis D, Newson R, Janson C, Corsico A, Heinrich J, Anto JM, Abramson MJ, et al.  
Thorax. 2017 Oct 3. [Epub ahead of print].

[MyD88-dependent dendritic and epithelial cell crosstalk orchestrates immune responses to allergens.](#)

Thomas SY, Whitehead GS, Takaku M, Ward JM, Xu X, Nakano K, Lyons-Cohen MR, Nakano H, Gowdy KM, Wade PA, Cook DN.  
Mucosal Immunol. 2017 Oct 25. [Epub ahead of print].

[Impact of Rhinitis on Work Productivity: A Systematic Review.](#)

Vandenplas O, Vinnikov D, Blanc PD, Agache I, Bachert C, Bewick M, Cardell LO, Cullinan P, Demoly P, Descatha A, Fonseca J, Haahtela T, Hellings PW, Jamart J, Jantunen J, Kalayci Ö, Price D, Samolinski B, Sastre J, Tian L, Valero AL, Zhang X, Bousquet J.  
J Allergy Clin Immunol Pract. 2017 Oct 7. [Epub ahead of print]

## **Asthma and Allergic Respiratory Diseases in Children**

[Genome-wide interaction study of dust mite allergen on lung function in children with asthma.](#)

Forno E, Sordillo J, Brehm J, Chen W, Benos T, Yan Q, Avila L, Soto-Quirós M, Cloutier MM, Colón-Semidey A, Alvarez M, Acosta-Pérez E, Weiss ST, Litonjua AA, Canino G, Celedón JC.  
J Allergy Clin Immunol. 2017 Oct;140(4):996-1003.e7.

[A Multiomics Approach to Identify Genes Associated with Childhood Asthma Risk and Morbidity.](#)

Forno E, Wang T, Yan Q, Brehm J, Acosta-Perez E, Colon-Semidey A, Alvarez M, Boutaoui N, Cloutier MM, Alcorn JF, Canino G, Chen W, Celedón JC.  
Am J Respir Cell Mol Biol. 2017 Oct;57(4):439-447.

[Nitrogen dioxide exposure in school classrooms of inner-city children with asthma.](#)

Gaffin JM, Hauptman M, Petty CR, Sheehan WJ, Lai PS, Wolfson JM, Gold DR, Coull BA, Koutrakis P, Phipatanakul W.  
J Allergy Clin Immunol. 2017 Oct 5. [Epub ahead of print].

[The role of human rhinovirus \(HRV\) species on asthma exacerbation severity in children and adolescents.](#)

Lambert KA, Prendergast LA, Dharmage SC, Tang M, O'Sullivan M, Tran T, Druce J, Bardin P, Abramson MJ, Erbas B.  
J Asthma. 2017 Oct 11:1-7. [Epub ahead of print].

[Prenatal and Early Life Triclosan and Parabens Exposure and Allergic Outcomes.](#)

Lee-Sarwar K, Hauser R, Calafat AM, Ye X, O'Connor GT, Sandel M, Bacharier LB, Zeiger RS, Laranjo N, Gold DR, Weiss ST, Litonjua AA, Savage JH.  
J Allergy Clin Immunol. 2017 Oct 27. [Epub ahead of print].

[The role of the indoor environment: Residential determinants of allergy, asthma and pulmonary function in children from a US-Mexico border community.](#)

Svendsen ER, Gonzales M, Commodore A.  
Sci Total Environ. 2017 Oct 26. pii: S0048-9697(17)32872-3. [Epub ahead of print].

[Perinatal Bacterial Exposure Contributes to IL-13 Aeroallergen Response.](#)

Turturice BA, Ranjan R, Nguyen B, Hughes LM, Andropolis KE, Gold DR, Litonjua AA, Oken E, Perkins DL, Finn PW.  
Am J Respir Cell Mol Biol. 2017 Oct;57(4):419-427.

[Asthmatic farm children show increased CD3<sub>+</sub>CD8<sub>low</sub> T-cells compared to non-asthmatic farm children.](#)

Twardziok M, Schröder PC, Krusche J, Casaca VI, Illi S, Böck A, Loss GJ, et al.  
Clin Immunol. 2017 Oct;183:285-292.

[Prenatal vitamin D supplementation reduces risk of asthma/recurrent wheeze in early childhood: A combined analysis of two randomized controlled trials.](#)

Wolsk HM, Chawes BL, Litonjua AA, Hollis BW, Waage J, Stokholm J, Bønnelykke K, Bisgaard H, Weiss ST.  
PLoS One. 2017 Oct 27;12(10):e0186657.

## **Chronic Obstructive Pulmonary Disease**

[The value of blood cytokines and chemokines in assessing COPD.](#)

Bradford E, Jacobson S, Varasteh J, Comellas AP, Woodruff P, O'Neal W, DeMeo DL, Li X, Kim V, Cho M, Castaldi PJ, Hersh C, Silverman EK, Crapo JD, Kechris K, Bowler RP.  
Respir Res. 2017 Oct 24;18(1):180.

[Severity of Airflow Obstruction in Chronic Obstructive Pulmonary Disease \(COPD\): Proposal for a New Classification.](#)

Coton S, Vollmer WM, Bateman E, Marks GB, Tan W, Mejza F, Juvekar S, Janson C, Mortimer K, P A M, Buist AS, Burney PGJ; Burden of Obstructive Lung Disease Study investigators.  
COPD. 2017 Oct;14(5):469-475.

[Effect of erdosteine on the rate and duration of COPD exacerbations: the RESTORE study.](#)

Dal Negro RW, Wedzicha JA, Iversen M, Fontana G, Page C, Cicero AF, Pozzi E, Calverley PMA; RESTORE group; RESTORE study.  
Eur Respir J. 2017 Oct 12;50(4).

[Muscle  \$\alpha\$ -adrenergic responsiveness during exercise and ATP-induced vasodilation in chronic obstructive pulmonary disease patients.](#)

Iepsen UW, Munch GDW, Rysør CK, Secher NH, Lange P, Thaning P, Pedersen BK, Mortensen SP.  
Am J Physiol Heart Circ Physiol. 2017 Oct 13. [Epub ahead of print].

[Chronic obstructive pulmonary disease as a risk factor for ventricular arrhythmias independent of left ventricular function.](#)

Konecny T, Somers KR, Park JY, John A, Orban M, Doshi R, Scanlon PD, Asirvatham SJ, Rihal CS, Brady PA.  
Heart Rhythm. 2017 Oct 3. [Epub ahead of print].

[Associations between emphysema-like lung on CT and incident airflow limitation: a general population-based cohort study.](#)

Oelsner EC, Smith BM, Hoffman EA, Folsom AR, Kawut SM, Kaufman JD, Manichaikul A, Lederer DJ, Schwartz JE, Watson KE, Enright PL, Austin JHM, Lima JAC, Shea SJ, Barr RG. Thorax. 2017 Oct 26. [Epub ahead of print].

[Meta-analysis of peripheral blood gene expression modules for COPD phenotypes.](#)

Reinhold D, Morrow JD, Jacobson S, Hu J, Ringel B, Seibold MA, Hersh CP, Kechris KJ, Bowler RP. PLoS One. 2017 Oct 9;12(10):e0185682.

[Exposure Interaction: A Lifelong Phenomenon with Relevance to Chronic Obstructive Pulmonary Disease.](#)

Vestbo J, Lange P. Am J Respir Crit Care Med. 2017 Oct 15;196(8):947-948.

[The Long-term Oxygen Treatment Trial \(LOTT\) for Chronic Obstructive Pulmonary Disease: Rationale, Design, and Lessons Learned.](#)

Yusen RD, Criner GJ, Sternberg AL, Au DH, Fuhlbrigge AL, Albert RK, Casaburi R, et al. Ann Am Thorac Soc. 2017 Oct 31. [Epub ahead of print].

## Heart Studies

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

Araki T, Yanagawa M, Sun FJ, Dupuis J, Nishino M, Yamada Y, Washko GR, Christiani DC, Tomiyama N, O'Connor GT, Hunninghake GM, Hatabu H. Occup Environ Med. 2017 Oct;74(10):756-761.

[Exosomal MicroRNA for Detection of Cardiac Sarcoidosis.](#)

Crouser ED, Hamzeh NY, Maier LA, Julian MW, Gillespie M, Rahman M, Baxter D, Wu X, Nana-Sinkam SP, Wang K. Am J Respir Crit Care Med. 2017 Oct 1;196(7):931-934.

[Impact of persistence and non-persistence in leisure time physical activity on coronary heart disease and all-cause mortality: The Copenhagen City Heart Study.](#)

Schnohr P, O'Keefe JH, Lange P, Jensen GB, Marott JL. Eur J Prev Cardiol. 2017 Oct;24(15):1615-1623.

## Interstitial Lung Diseases

[Genetic variants associated with susceptibility to idiopathic pulmonary fibrosis in people of European ancestry: a genome-wide association study.](#)

Allen RJ, Porte J, Braybrooke R, Flores C, Fingerlin TE, Oldham JM, et al. Lancet Respir Med. 2017 Nov;5(11):869-880. Epub 2017 Oct 20.

[French practical guidelines for the diagnosis and management of idiopathic pulmonary fibrosis - 2017 update. Full-length version.](#)

Cottin V, Crestani B, Cadranel J, Cordier JF, Marchand-Adam S, Prévot G, Wallaert B, et al. Rev Mal Respir. 2017 Oct;34(8):900-968.

[Application of 'Omics' and Systems Biology to Sarcoidosis Research.](#)

Crouser ED, Fingerlin TE, Yang IV, Maier LA, Nana-Sinkam P, Collman RG, Kaminski N. Ann Am Thorac Soc. 2017 Oct 20. [Epub ahead of print].

[Prospective study of body mass index and risk of sarcoidosis in US women.](#)

Dumas O, Boggs KM, Cozier YC, Stampfer MJ, Camargo CA Jr.  
Eur Respir J. 2017 Oct 19;50(4).

[Clinical Course of Sarcoidosis in World Trade Center Exposed Firefighters.](#)

Hena KM, Yip J, Jaber N, Goldfarb D, Fullam K, Cleven K, Moir W, Zeig-Owens R, et al.  
Chest. 2017 Oct 21. [Epub ahead of print].

[Palliative care in interstitial lung disease: living well.](#)

Kreuter M, Bendstrup E, Russell AM, Bajwah S, Lindell K, Adir Y, Brown CE, Calligaro G, Cassidy N, Corte TJ, Geissler K, Hassan AA, Johannson KA, Kairalla R, Kolb M, Kondoh Y, Quadrelli S, Swigris J, Udwadia Z, Wells A, Wijsenbeek M.  
Lancet Respir Med. 2017 Oct 12. pii: S2213-2600(17)30383-1. [Epub ahead of print].

[Executive Summary of the NHLBI Workshop Report: Leveraging Current Scientific Advances to Better Understand Sarcoidosis Variability and Improve Outcomes.](#)

Maier LA, Crouser ED, Martin WJ, Eu J.  
Ann Am Thorac Soc. 2017 Oct 19. [Epub ahead of print].

[Occupational Exposures and Subclinical Interstitial Lung Disease. The MESA \(Multi-Ethnic Study of Atherosclerosis\) Air and Lung Studies.](#)

Sack CS, Doney BC, Podolanczuk AJ, Hooper LG, Seixas NS, Hoffman EA, Kawut SM, Vedal S, Raghu G, Barr RG, Lederer DJ, Kaufman JD.  
Am J Respir Crit Care Med. 2017 Oct 15;196(8):1031-1039.

## Lung Cancer

[Novel genetic variants in the P38MAPK pathway gene ZAK and susceptibility to lung cancer.](#)

Feng Y, Wang Y, Liu H, Liu Z, Mills C, Owzar K, Xie J, Han Y, Qian DC, Hung RJ, Brhane Y, McLaughlin J, Brennan P, Bickeböllner H, Rosenberger A, Houlston RS, Caporaso N, Landi MT, Brüske I, Risch A, Ye Y, Wu X, Christiani DC, Amos CI, Wei Q.  
Mol Carcinog. 2017 Oct 26.

[Relationship between UGT1A1\\*27 and UGT1A1\\*7 polymorphisms and irinotecan-related toxicities in patients with lung cancer.](#)

Fukuda M, Okumura M, Iwakiri T, Arimori K, Honda T, Kobayashi K, Senju H, Takemoto S, Ikeda T, Yamaguchi H, Nakatomi K, Matsuo N, Mukae H, Ashizawa K.  
Thorac Cancer. 2017 Oct 20.

[Is it better to include necrosis in apparent diffusion coefficient \(ADC\) measurements? The necrosis/wall ADC ratio to differentiate malignant and benign necrotic lung lesions: Preliminary results.](#)

Karaman A, Durur-Subasi I, Alper F, Durur-Karakaya A, Subasi M, Akgun M.  
J Magn Reson Imaging. 2017 Oct;46(4):1001-1006.

[Genome-wide interaction study of smoking behavior and non-small cell lung cancer risk in Caucasian population.](#)

Li Y, Xiao X, Han Y, Gorlova O, Qian D, Leigh N, Johansen JS, Barnett M, Chen C, et al.  
Carcinogenesis. 2017 Oct 20. [Epub ahead of print]

[Common TDP1 polymorphisms in relation to survival among small cell lung cancer patients: a multicenter study from the International Lung Cancer Consortium.](#)

Lohavanichbutr P, Sakoda LC, Amos CI, Arnold SM, Christiani DC, Davies MPA, Field JK, Haura EB, Hung RJ, Kohno T, Landi MT, Liu G, Liu Y, Marcus MW, O'Kane GM, Schabath MB, Shiraiishi K, Slone SA, Tardon A, Yang P, Yoshida K, Zhang R, Zong X, Goodman GG, Weiss NS, Chen C.  
Clin Cancer Res. 2017 Oct 3. [Epub ahead of print]

[Turkey National Mesothelioma Surveillance and Environmental Asbestos Exposure Control Program.](#)

Metintaş S, Batirel HF, Bayram H, Yılmaz Ü, Karadağ M, Ak G, Metintaş M.

Int J Environ Res Public Health. 2017 Oct 25;14(11).

[Pitfalls in diagnosis with the use of circulating tumor-derived epidermal growth factor receptor mutations in lung cancer harboring pretreatment T790M.](#)

Ogawara D, Soda H, Suyama T, Yoshida M, Harada T, Fukuda Y, Mukae H.

Thorac Cancer. 2017 Oct 24. [Epub ahead of print].

## Nanoparticles

[Protein corona: implications for nanoparticle interactions with pulmonary cells.](#)

Konduru NV, Molina RM, Swami A, Damiani F, Pyrgiotakis G, Lin P, Andreozzi P, Donaghey TC, Demokritou P, Krol S, Kreyling W, Brain JD.

Part Fibre Toxicol. 2017 Oct 30;14(1):42.

[Nanomaterials Versus Ambient Ultrafine Particles: An Opportunity to Exchange Toxicology Knowledge.](#)

Stone V, Miller MR, Clift MJD, Elder A, Mills NL, Møller P, Schins RPF, Vogel U, Kreyling WG, Alstrup Jensen K, Kuhlbusch TAJ, Schwarze PE, Hoet P, Pietroiusti A, De Vizcaya-Ruiz A, Baeza-Squiban A, Teixeira JP, Tran CL, Cassee FR.

Environ Health Perspect. 2017 Oct 10;125(10):106002.

## Occupational Exposures to Disinfectants and Cleaning Supplies

[Health problems and disinfectant product exposure among staff at a large multispecialty hospital.](#)

Casey ML, Hawley B, Edwards N, Cox-Ganser JM, Cummings KJ.

Am J Infect Control. 2017 Oct 1;45(10):1133-1138.

[Occupational exposure to disinfectants and asthma control in US nurses.](#)

Dumas O, Wiley AS, Quinot C, Varraso R, Zock JP, Henneberger PK, Speizer FE, Le Moual N, Camargo CA Jr.

Eur Respir J. 2017 Oct 5;50(4).

[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. 2017 Oct 25.

[Contact dermatitis is an unrecognized problem in the construction industry: Comparison of four different assessment methods.](#)

Timmerman JG, Heederik D, Spee T, van Rooy FG, Krop EJM, Rustemeyer T, Smit LAM.

Am J Ind Med. 2017 Oct;60(10):879-888.

[Prevalence of, and work-related risk factors for, hand eczema in a Norwegian general population \(The HUNT Study\).](#)

Vindenes HK, Svanes C, Lygre SHL, Hollund BE, Langhammer A, Bertelsen RJ.

Contact Dermatitis. 2017 Oct;77(4):214-223.

## Sepsis and Spinal Cord Injuries

[A Two-Biomarker Model Predicts Mortality in the Critically Ill with Sepsis.](#)

Mikacenic C, Price BL, Harju-Baker S, O'Mahony DS, Robinson-Cohen C, Radella F, Hahn WO, Katz R, Christiani DC, Himmelfarb J, Liles WC, Wurfel MM.

Am J Respir Crit Care Med. 2017 Oct 15;196(8):1004-1011.



[Associations between Vitamin D, Adiposity, and Respiratory Symptoms in Chronic Spinal Cord Injury.](#)

Walia P, Goldstein RL, Teylan M, Lazzari AA, Hart JE, Tun CG, Garshick E.  
J Spinal Cord Med. 2017 Oct 9:1-11. [Epub ahead of print].

## Tobacco Smoke

[Disease Severity Dependence of the Longitudinal Association Between CT Lung Density and Lung Function in Smokers.](#)

Diaz AA, Strand M, Coxson HO, Ross JC, San Jose Estepar R, Lynch D, van Rikxoort EM, Rosas IO, Hunninghake GM, Putman RK, Hatabu H, Yen A, Kinney GL, Hokanson JE, Silverman EK, Crapo J, Washko GR.  
Chest. 2017 Oct 21. [Epub ahead of print].

[RNA sequencing identifies novel non-coding RNA and exon-specific effects associated with cigarette smoking.](#)

Parker MM, Chase RP, Lamb A, Reyes A, Saferali A, Yun JH, Himes BE, Silverman EK, Hersh CP, Castaldi PJ.  
BMC Med Genomics. 2017 Oct 6;10(1):58.

[The feasibility of an air purifier and secondhand smoke education intervention in homes of inner city pregnant women and infants living with a smoker.](#)

Rice JL, Brigham E, Dineen R, Muqueeth S, O'Keefe G, Regenold S, Koehler K, Rule A, McCormack M, Hansel NN, Diette GB.  
Environ Res. 2017 Oct 29.

[Combined Impact of Smoking and Early-Life Exposures on Adult Lung Function Trajectories.](#)

Allinson JP, Hardy R, Donaldson GC, Shaheen SO, Kuh D, Wedzicha JA.  
Am J Respir Crit Care Med. 2017 Oct 15;196(8):1021-1030. PMID:28530117

## Transcription Factors, Channels, Genetics, and Epigenetics

[TRPV4 activation triggers protective responses to bacterial lipopolysaccharides in airway epithelial cells.](#)

Alpizar YA, Boonen B, Sanchez A, Jung C, López-Requena A, Naert R, Steelant B, Luyts K, Plata C, De Vooght V, Vanoirbeek JAJ, Meseguer VM, Voets T, Alvarez JL, Hellings PW, Hoet PHM, Nemery B, Valverde MA, Talavera K.  
Nat Commun. 2017 Oct 20;8(1):1059.

[ETV4 and AP1 Transcription Factors Form Multivalent Interactions with three Sites on the MED25 Activator-Interacting Domain.](#)

Currie SL, Doane JJ, Evans KS, Bhachech N, Madison BJ, Lau DKW, McIntosh LP, Skalicky JJ, Clark KA, Graves BJ.  
J Mol Biol. 2017 Oct 13;429(20):2975-2995.

[Genome-wide association study across European and African American ancestries identifies a SNP in DNMT3B contributing to nicotine dependence.](#)

Hancock DB, Guo Y, Reginsson GW, Gaddis NC, Lutz SM, Sherva R, Loukola A, et al. M  
Mol Psychiatry. 2017 Oct 3. [Epub ahead of print].

[Maternal BMI at the start of pregnancy and offspring epigenome-wide DNA methylation: findings from the pregnancy and childhood epigenetics \(PACE\) consortium.](#)

Sharp GC, Salas LA, Monnereau C, Allard C, Yousefi P, Everson TM, et al.  
Hum Mol Genet. 2017 Oct 15;26(20):4067-4085. doi: 10.1093/hmg/ddx290.

## Vascular Disorders

### [Clinical Impact of Intrapulmonary Vascular Dilatation in Candidates for Liver Transplant.](#)

DuBrock HM, Krowka MJ, Forde KA, Krok K, Patel M, Sharkoski T, Sprys M, Lin G, Oh JK, Mottram CD, Scanlon PD, Fallon MB, Kawut SM.  
Chest. 2017 Oct 5. [Epub ahead of print].

### [Comparison of long-term outcomes of 50 and 100 mg rt-PA in the management of acute pulmonary thromboembolism.](#)

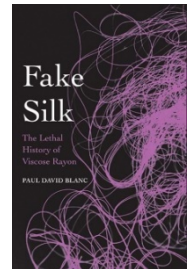
Yilmazel Ucar E, Araz O, Kerget B, Yilmaz N, Akgun M, Saglam L.  
Clin Respir J. 2017 Oct 17. [Epub ahead of print].

### [Ruptured Persistent Trigeminal Artery Causing Direct Cavernous Sinus Fistula Treated with Pipeline Embolization and Minimal Coiling.](#)

Yoon NK, Awad AW, Gee JM, Tausky P.  
World Neurosurg. 2017 Oct 14. [Epub ahead of print].

## Things Worth Celebrating!

The Medical Care section of the American Public Health Association (APHA) has awarded the prestigious 2017 Viseltear Prize from the APHA for “Outstanding Book on the History of Public Health” to Paul Blanc for his book titled, [Fake Silk: The Lethal History of Viscose Rayon](#) (Yale University Press, 2016). Congratulations on earning this esteemed award!



The publication by James P. Allinson and colleagues titled, “[Combined Impact of Smoking and Early-Life Exposures on Adult Lung Function Trajectories](#)” received the ERS/ELF best abstract grant for healthy lungs for life at the ERS 2017 congress. This publication was also discussed in an [editorial](#) in AJRCCM. We are delighted to see these important and impactful investigations being highlighted!



We know that many of you have successes to share with us. Please help us expand this section by emailing us your good news: [kbailey@unmc.edu](mailto:kbailey@unmc.edu) or [tara.nordgren@medsch.ucr.edu](mailto:tara.nordgren@medsch.ucr.edu).

## New ATS Foundation Research Fellowship in Idiopathic Pulmonary Fibrosis (IPF)

A new fellowship for IPF research supported by the Boehringer Ingelheim Pharmaceuticals, Inc. and the ATS Foundation will award \$100,000 over two years (Dec. 2018-Nov. 2020). The fellowship applications will open with the 2018 Grant Cycle in April. More information is available at <https://member.thoracic.org/about/newsroom/press-releases/journal/new-research-fellowship-in-ipf-funded-by-boehringer-ingelheim-pharmaceuticals-inc.php>.

## #ATS2018 BEAR Cage

The BEAR Cage competition for **early career investigators** promotes the discussion of novel translational research ideas in a fun, yet competitive, forum and supports opportunities for collaboration and mentorship. One grand prize winner will be awarded a \$5,000 prize and the two runner-up proposals receive \$2,500 each. The **deadline** for BEAR Cage research proposals is December 15. To read more about the competition, go to <http://conference.thoracic.org/program/early-career-professionals/enter-bear-cage.php>.

## **ATS 2018 PGME course: Does my patient have environmental or occupational lung disease?**

Drs. Peggy S. Lai (Massachusetts General Hospital/Harvard School of Public Health) and Yuh-Chin Tony Huang (Duke) will be co-chairing a PGME course on Friday, May 18, 2018 titled, "Does my patient have environmental or occupational lung disease?". Overarching concepts covered include "tools of the trade," "common lung diseases through the lens of environmental and occupational exposures," and "common and emerging environmental and occupational exposures that cause lung disease." Please contact us or the co-chairs for more information, and be sure to sign up for this interesting and informative course!