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PULMONARY • CRITICAL CARE • SLEEP

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EOPH Newsletter

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Dear EOPH members,

Welcome to the last EOPH newsletter of 2016. We wish you and your family a happy, relaxing holiday season. This month's newsletter includes a link to donate to the ATS foundation, as well as the most recent publications of our members.

As always, please contact us at kbailey@unmc.edu or craig.glazer@utsouthwestern.edu with any noteworthy publications, achievements, or suggestions for future issues.

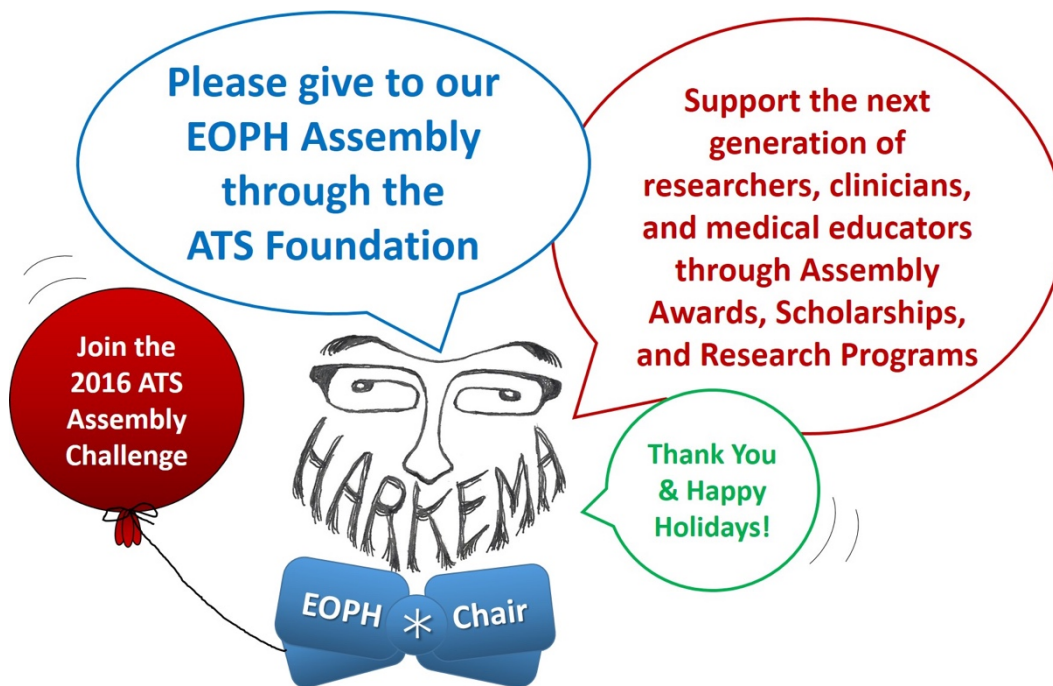
Sincerely,

Your web committee co-chairs,

Kristina Bailey and Craig Glazer



A Word From Our Chair



Donate [HERE](#).

Recent publications

This section highlights some of our members' best work in November 2016. We have only included "epub ahead of print" articles in an effort to simplify our search method while making you aware of your colleagues' most recent work.

ATS and NIEHS

[National Institute of Environmental Health Sciences: 50 Years of Advancing Science and Improving Lung Health.](#)

Antony VB, Redlich CA, Pinkerton KE, Balmes J, Harkema JR. Am J Respir Crit Care Med. 2016 Nov 15;194(10):1190-1195.

Asthma

[Asthma in Puerto Ricans: lessons from a high-risk population.](#)

Szentpetery, S. E., Forno, E., Canino, G., & Celedón, J. C. (2016). Asthma in Puerto Ricans: lessons from a high-risk population. *Journal of Allergy and Clinical Immunology*.

Risk and Protective Factors for Childhood Asthma: What Is the Evidence?.

Castro-Rodriguez, J. A., Forno, E., Rodriguez-Martinez, C. E., & Celedón, J. C. (2016). *The Journal of Allergy and Clinical Immunology: In Practice*.

Vitamin D Insufficiency and Asthma in a US Nationwide Study.

Han, Y. Y., Forno, E., & Celedón, J. C. (2016). *The Journal of Allergy and Clinical Immunology: In Practice*.

Dogs, Cats and Asthma: Will We Ever Really Know the True Risks and Benefits?

Ownby, D. R., & Johnson, C. C. (2016).. *Journal of Allergy and Clinical Immunology*.

Maternal plasma total neopterin and kynurenine/tryptophan levels during pregnancy in relation to asthma development in the offspring.

Magnus, M. C., Karlstad, Ø., Midtun, Ø., Håberg, S. E., Tunheim, G., Parr, C. L., ... & Nystad, W. (2016). *Journal of Allergy and Clinical Immunology*.

Severe asthma: Current management, targeted therapies and future directions—A roundtable report.

McDonald, V. M., Maltby, S., Reddel, H. K., King, G. G., Wark, P. A., Smith, L., ... & Gibson, P. G. (2016). *Respirology*.

Impact of childhood asthma on growth trajectories in early adolescence: Findings from the Childhood Asthma Prevention Study (CAPS).

Movin, M., Garden, F. L., Protudjer, J. L., Ulleamar, V., Svensdotter, F., Andersson, D., ... & Almqvist, C. (2016). *Respirology*.

Impact of occupational exposures on exacerbation of asthma: a population-based asthma cohort study.

Kim, J. L., Henneberger, P. K., Lohman, S., Olin, A. C., Dahlman-Höglund, A., Andersson, E., ... & Holm, M. (2016). *BMC Pulmonary Medicine*, 16(1), 148.

Determinants of asthma morbidity in World Trade Center rescue and recovery workers.

Xu, K. Y., Goodman, E., Goswami, R., Crane, M., Crowley, L., Busse, P., ... & Skloot, G. (2016). *Annals of Allergy, Asthma & Immunology*, 117(5), 568-570.

Air Pollution

Outdoor PM2. 5, Ambient Air Temperature, and Asthma Symptoms in the Past 14 Days among Adults with Active Asthma.

Mirabelli, M. C., Vaidyanathan, A., Flanders, W. D., Qin, X., & Garbe, P. (2016). *Environmental health perspectives*, 124(12), 1882.

Particulate Matter 2.5 Exposure and Self-Reported Use of Wood Stoves and Other Indoor Combustion Sources in Urban Nonsmoking Homes in Norway.

Wyss, A. B., Jones, A. C., Bølling, A. K., Kissling, G. E., Chartier, R., Dahlman, H. J., ... & London, S. J. (2016). *PloS one*, 11(11), e0166440.

Air pollution and cardiovascular mortality with over 25years follow-up: A combined analysis of two British cohorts.

Dehbi, H. M., Blangiardo, M., Gulliver, J., Fecht, D., de Hoogh, K., Al-Kanaani, Z., ... & Hansell, A. L. (2016). *Environment International*.

Associations of night-time road traffic noise with carotid intima-media thickness and blood pressure: The Whitehall II and SABRE study cohorts.

Halonen, J. I., Dehbi, H. M., Hansell, A. L., Gulliver, J., Fecht, D., Blangiardo, M., ... & Tonne, C. (2017). *Environment International*, 98, 54-61.

Respiratory mortality risks in England and Wales associated with air pollution exposures up to 38 years previously.

Hansell, A., Ghosh, R., Blangiardo, M., Perkins, C., Vienneau, D., Goffe, K., ... & Gulliver, J. (2016). *European Respiratory Journal*, 48(suppl 60), OA459.

Assessment of traditional and improved stove use on household air pollution and personal exposures in rural western Kenya.

Yip, F., Christensen, B., Sircar, K., Naeher, L., Bruce, N., Pennise, D., ... & Nyagol, R. (2016). *Environment International*.

Gene expression network analyses in response to air pollution exposures in the trucking industry.

Chu, J. H., Hart, J. E., Chhabra, D., Garshick, E., Raby, B. A., & Laden, F. (2016). *Environmental Health*, 15(1), 101.

Early-life Farm Exposures and Adult Asthma and Atopy in the Agricultural Lung Health Study.

House, J. S., Wyss, A. B., Hoppin, J. A., Richards, M., Long, S., Umbach, D. M., ... & Cummings, C. B. (2016). *Journal of Allergy and Clinical Immunology*.

COPD

Obesity and chronic obstructive pulmonary disease: recent knowledge and future directions.

Hanson, C., & LeVan, T. (2016). *Current Opinion in Pulmonary Medicine*.

Spirometric variability in smokers: transitions in COPD diagnosis in a five-year longitudinal study.

Sood, A., Petersen, H., Qualls, C., Meek, P. M., Vazquez-Guillamet, R., Celli, B. R., & Tesfaigzi, Y. (2016). *Respiratory Research*, 17(1), 147

Environmental and Occupational Exposures

Women using bleach for home cleaning are at increased risk of non-allergic asthma. Matulonga B, Rava M, Siroux V, Bernard A, Dumas O, Pin I, Zock JP, Nadif R, Leynaert B, Le Moual N. *Respir Med*. 2016 Aug;117:264-71. doi: 10.1016/j.rmed.2016.06.019.

Airway and serum adipokines after allergen and diesel exposure in a controlled human crossover study of atopic adults.

Kramer, M. M., Hirota, J. A., Sood, A., Teschke, K., & Carlsten, C. (2016). *Translational Research*.

Controlled diesel exhaust and allergen coexposure modulates microRNA and gene expression in humans: Effects on inflammatory lung markers.

Rider, C. F., Yamamoto, M., Günther, O. P., Hirota, J. A., Singh, A., Tebbutt, S. J., & Carlsten, C. (2016). *Journal of Allergy and Clinical Immunology*.

Determinants of disinfectant use among nurses in US healthcare facilities.

Dumas, O., Wiley, A. S., Henneberger, P. K., Speizer, F. E., Zock, J. P., Varraso, R., ... & Camargo, C. A. (2016). *American Journal of Industrial Medicine*.

Systemic IL-6 Effector Response in Mediating Systemic Bone Loss Following Inhalation of Organic Dust.

Wells, A., Romberger, D. J., Thiele, G. M., Wyatt, T. A., Staab, E., Heires, A. J., ... & West, W. W. (2016). *Journal of Interferon & Cytokine Research*.

Respiratory medication sales and urban air pollution in Brussels (2005 to 2011).

Van Nieuwenhuyse, A., Simons, K., Nawrot, T. S., Brasseur, O., Declerck, P., Buyl, R., ... & Casas, L. (2016). *European Respiratory Journal*, 48(suppl 60), OA461.

In vitro exposure to isoprene-derived secondary organic aerosol by direct deposition and its effects on COX-2 and IL-8 gene expression.

Arashiro, M., Lin, Y. H., Sexton, K. G., Zhang, Z., Jaspers, I., Fry, R. C., ... & Surratt, J. D. (2016). *Atmospheric Chemistry and Physics*, 16(22), 14079-14090.

The US Department of Veterans' Affairs depleted uranium exposed cohort at 25 Years: Longitudinal surveillance results.

McDiarmid, M. A., Gaitens, J. M., Hines, S., Condon, M., Roth, T., Oliver, M., ... & Squibb, K. S. (2017). *Environmental Research*, 152, 175-184.

Genetics

Birth weight-for-gestational age is associated with DNA methylation at birth and in childhood.

Agha, G., Hajj, H., Rifas-Shiman, S. L., Just, A. C., Hivert, M. F., Burris, H. H., ... & Gillman, M. W. (2016). *Clinical Epigenetics*, 8(1), 118.

Genome-wide Interaction Analysis of Air Pollution Exposure and Childhood Asthma with Functional Follow-up.

Gref, A., Kebede Merid, S., Gruzieva, O., Ballereau, S., Becker, A., Bellander, T., ... & Fuertes, E. (2016). *American Journal of Respiratory And Critical Care Medicine*, (ja).

Sex-specific risk factors for childhood wheeze and longitudinal phenotypes of wheeze.

Tse, S. M., Rifas-Shiman, S. L., Coull, B. A., Litonjua, A. A., Oken, E., & Gold, D. R. (2016). *Journal of Allergy and Clinical Immunology*.

Smoking and E-cigarettes

Thirdhand Smoke: New Evidence, Challenges, and Future Directions.

Jacob, P., Benowitz, N. L., Destailats, H., Gundel, L. A., Hang, B., Martins-Green, M. M., ... & Talbot, P. (2016). *Chemical Research in Toxicology*.

Sex and strain-based inflammatory response to repeated tobacco smoke exposure in spontaneously hypertensive and Wistar Kyoto rats.

Shen, Y. H., Pham, A. K., Davis, B., Smiley-Jewell, S., Wang, L., Kodavanti, U. P., ... & Pinkerton, K. E. (2016). *Inhalation Toxicology*, 1-9.

Tobacco Smoking and Tuberculosis among Men Living with HIV in Johannesburg, South Africa: A Case-Control Study.

Murrison, L. B., Martinson, N., Moloney, R. M., Msandiwa, R., Mashabela, M., Samet, J. M., & Golub, J. E. (2016). *PloS one*, 11(11), e0167133.

Mechanisms

From the Cover: Catalytic Antioxidant Rescue of Inhaled Sulfur Mustard Toxicity.

McElroy, C. S., Min, E., Huang, J., Loader, J. E., Hendry-Hofer, T. B., Garlick, R. B., ... & Anderson, D. R. (2016). *Toxicological Sciences*, 154(2), 341-353.

Plexin C1 deficiency permits synaptotagmin 7-mediated macrophage migration and enhances mammalian lung fibrosis.

Peng, X., Moore, M., Mathur, A., Zhou, Y., Sun, H., Gan, Y., ... & Ryu, C. (2016). *The FASEB Journal*, 30(12), 4056-4070.

The anti-inflammatory effects of eucalyptol in a mouse model of LPS-induced pulmonary inflammation are mediated by TRPM8.

de Caceres Bustos, A., Liu, B., Jabba, S., Morris, J., & Jordt, S. E. (2016). *European Respiratory Journal*, 48(suppl 60), OA4541.

Clinical Strategies and Protocols

Efficacy of an automated ultraviolet C device in a shared hospital bathroom.

Cooper, J., Bryce, E., Astrakianakis, G., Stefanovic, A., & Bartlett, K. (2016). *American Journal of Infection Control*, 44(12), 1692-1694.