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

EOPH

Web Editorial

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Dear EOPH members,

In this October issue of the EOPH newsletter, we share some of our members' recent publications and information on upcoming ATS deadlines including: ATS fellowship applications, abstract submissions and how to apply for membership hardship relief.

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 or tnordgren@unmc.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.

Air Pollution

[Attributable risks of emergency hospital visits due to air pollutants in China: A multi-city study.](#)

Chen G, Zhang Y, Zhang W, Li S, Williams G, Marks GB, Jalaludin B, Abramson MJ, Luo F, Yang D, Su X, Lin Q, Liu L, Lin J, Guo Y.

Environ Pollut. 2017 Sep;228:43-49.

[Residential Air Pollution and Associations with Wheeze and Shortness of Breath in Adults: A Combined Analysis of Cross-Sectional Data from Two Large European Cohorts.](#)

Doiron D, de Hoogh K, Probst-Hensch N, Mbatchou S, Eeftens M, Cai Y, Schindler C, Fortier I, Hodgson S, Gaye A, Stolk R, Hansell A.

Environ Health Perspect. 2017 Sep 29;125(9):097025.

[Modeling indoor particulate exposures in inner-city school classrooms.](#)

Gaffin JM, Petty CR, Hauptman M, Kang CM, Wolfson JM, Abu Awad Y, Di Q, Lai PS, Sheehan WJ, Baxi S, Coull BA, Schwartz JD, Gold DR, Koutrakis P, Phipatanakul W.

J Expo Sci Environ Epidemiol. 2017 Sep;27(5):451-457.

[Air Pollution and Other Environmental Modulators of Cardiac Function.](#)

Gorr MW, Falvo MJ, Wold LE.

Compr Physiol. 2017 Sep 12;7(4):1479-1495.

[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 Sep 7.

[Short-Term Exposure to Ambient Air Pollution and Biomarkers of Systemic Inflammation: The Framingham Heart Study.](#)

Li W, Dorans KS, Wilker EH, Rice MB, Ljungman PL, Schwartz JD, Coull BA, Koutrakis P, Gold DR, Keaney JF Jr, Vasan RS, Benjamin EJ, Mittleman MA.

Arterioscler Thromb Vasc Biol. 2017 Sep;37(9):1793-1800.

[Kerosene lighting contributes to household air pollution in rural Uganda.](#)

Muyanja D, Allen JG, Vallarino J, Valeri L, Kakuhikire B, Bangsberg DR, Christiani DC, Tsai AC, Lai PS.

Indoor Air. 2017 Sep;27(5):1022-1029.

[Cardiorespiratory responses of air filtration: A randomized crossover intervention trial in seniors living in Beijing: Beijing Indoor Air Purifier Study, BIAPSY.](#)

Shao D, Du Y, Liu S, Brunekreef B, Meliefste K, Zhao Q, Chen J, Song X, Wang M, Wang J, Xu H, Wu R, Wang T, Feng B, Lung CS, Wang X, He B, Huang W.

Sci Total Environ. 2017 Dec 15;603-604:541-549.

Aryl Hydrocarbon Receptor

[Loss of liver-specific and sexually dimorphic gene expression by aryl hydrocarbon receptor activation in C57BL/6 mice.](#)

Nault R, Fader KA, Harkema JR, Zacharewski T.

PLoS One. 2017 Sep 18;12(9):e0184842.

Cell Death and DNA Damage

[Role of mitochondrial DNA damage and dysfunction in veterans with Gulf War Illness.](#)

Chen Y, Meyer JN, Hill HZ, Lange G, Condon MR, Klein JC, Ndirangu D, Falvo MJ.
PLoS One. 2017 Sep 14;12(9):e0184832.

[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.

Chronic Obstructive Pulmonary Disease and Airflow Obstruction

[Airflow Obstruction and Use of Solid Fuels for Cooking or Heating: BOLD Results.](#)

Amaral AFS, Patel J, Kato BS, Obaseki DO, Lawin H, Tan WC, Juvekar SK, Harrabi I, Studnicka M, Wouters EFM, Loh LC, Bateman ED, Mortimer K, Buist AS, Burney PGJ; BOLD Collaborative Research Group.
Am J Respir Crit Care Med. 2017 Sep 12.

[Variability in objective and subjective measures affects baseline values in studies of patients with COPD.](#)

Anderson WH, Ha JW, Couper DJ, O'Neal WK, Barr RG, Bleecker ER, Carretta EE, Cooper CB, Doerschuk CM, Drummond MB, Han MK, Hansel NN, Kim V, Kleerup EC, Martinez FJ, Rennard SI, Tashkin D, Woodruff PG, Paine R 3rd, Curtis JL, Kanner RE; SPIROMICS Research Group.
PLoS One. 2017 Sep 21;12(9):e0184606.

[Lobar emphysema distribution is associated with 5-year radiologic disease progression.](#)

Boueiz A, Chang Y, Cho MH, Washko GR, San José Estépar R, Bowler RP, Crapo JD, DeMeo DL, Dy JG, Silverman EK, Castaldi PJ; COPDGene investigators.
Chest. 2017 Sep 21.

[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.

[Chronic Obstructive Pulmonary Disease in Hispanics: A 9-Year Update.](#)

Díaz A, Celli B, Celedón JC.
Am J Respir Crit Care Med. 2017 Sep 1.

[Unemployment in chronic airflow obstruction around the world: results from the BOLD study.](#)

Grønseth R, Erdal M, Tan WC, Obaseki DO, Amaral AFS, Gislason T, Juvekar SK, Koul PA, Studnicka M, Salvi S, Burney P, Buist AS, Vollmer WM, Johannessen A; Research teams at centres.
Eur Respir J. 2017 Sep 20;50(3).

[Airway Mucin Concentration as a Marker of Chronic Bronchitis.](#)

Kesimer M, Ford AA, Ceppe A, Radicioni G, Cao R, Davis CW, Doerschuk CM, et al. N Engl J Med. 2017 Sep 7;377(10):911-922.

[Interdisciplinary model of care \(RADICALS\) for early detection and management of chronic obstructive pulmonary disease \(COPD\) in Australian primary care: study protocol for a cluster randomised controlled trial.](#)

Liang J, Abramson MJ, Zwar N, Russell G, Holland AE, Bonevski B, Mahal A, Hecke BV, Phillips K, Eustace P, Paul E, Petrie K, Wilson S, George J.
BMJ Open. 2017 Sep 18;7(9):e016985.

[Reply: COPD: Breathing New Life into Old Cardiovascular Drugs?](#)

Parikh MA, Aaron CP, Oelsner EC, Barr RG.
Ann Am Thorac Soc. 2017 Sep 26.

Computational Toxicology

[CompNanoTox2015: novel perspectives from a European conference on computational nanotoxicology on predictive nanotoxicology.](#)

Bañares MA, Haase A, Tran L, Lobaskin V, Oberdörster G, Rallo R, Leszczynski J, Hoet P, Korenstein R, Hardy B, Puzyn T.

Nanotoxicology. 2017 Sep 8:1-7.

Early Life Exposures, Birth Outcomes, and Development

[Radiofrequency-electromagnetic field exposures in kindergarten children.](#)

Bhatt CR, Redmayne M, Billah B, Abramson MJ, Benke G.

J Expo Sci Environ Epidemiol. 2017 Sep;27(5):497-504. Epub 2016 Oct 19.

[Burden of higher lead exposure in African-Americans starts in utero and persists into childhood.](#)

Cassidy-Bushrow AE, Sitarik AR, Havstad S, Park SK, Bielak LF, Austin C, Johnson CC, Arora M.

Environ Int. 2017 Nov;108:221-227. Epub 2017 Sep 5.

[Skin prick tests and specific IgE in 10-year-old children: Agreement and association with allergic diseases.](#)

Chauveau A, Dalphin ML, Mauny F, Kaulek V, Schmausser-Hechfellner E, Renz H, Riedler J, Pekkanen J, Karvonen AM, Lauener R, Roduit C, Vuitton DA, von Mutius E, Dalphin JC; PASTURE Study Group.

Allergy. 2017 Sep;72(9):1365-1373.

[Patterns of immune development in urban preschoolers with recurrent wheeze and/or atopy.](#)

Gern JE, Calatroni A, Jaffee KF, Lynn H, Dresen A, Cruikshank WW, Lederman HM, Sampson HA, Shreffler W, Bacharier LB, Gergen PJ, Gold DR, Kattan M, O'Connor GT, Sandel MT, Wood RA, Bloomberg GR.

J Allergy Clin Immunol. 2017 Sep;140(3):836-844.e7.

[Long-term Benefits of Optimal Asthma Control in Pregnancy.](#)

Gold DR, Litonjua AA.

J Allergy Clin Immunol. 2017 Sep 1.

[Allergic sensitization in American children of Middle Eastern ethnicity at age 2.](#)

Havstad S, Sitarik AR, Johnson CC, Zoratti EM, Ownby DR, Levin AM, Wegienka G.

Ann Allergy Asthma Immunol. 2017 Sep 20.

[Anthropometric measures at birth and early childhood are associated with neurodevelopmental outcomes among Bangladeshi children aged 2-3years.](#)

Lee JJ, Kapur K, Rodrigues EG, Ibne Hasan MOS, Quamruzzaman Q, Wright RO, Bellinger DC, Christiani DC, Mazumdar M.

Sci Total Environ. 2017 Dec 31;607-608:475-482.

[Mother's education and offspring asthma risk in 10 European cohort studies.](#)

Lewis KM, Ruiz M, Goldblatt P, Morrison J, Porta D, Forastiere F, Hryhorczuk D, et al. Eur J Epidemiol. 2017 Sep 19.

[The Association of Maternal Asthma and Early Pregnancy Vitamin D with Risk of Preeclampsia: An Observation From Vitamin D Antenatal Asthma Reduction Trial \(VDAART\).](#)

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J Allergy Clin Immunol Pract. 2017 Sep 8.

[Early-life home environment and risk of asthma among inner-city children.](#)

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J Allergy Clin Immunol. 2017 Sep 12.

[The School Inner-City Asthma Intervention Study: Design, rationale, methods, and lessons learned.](#)

Phipatanakul W, Koutrakis P, Coull BA, Kang CM, Wolfson JM, Ferguson ST, Petty CR, Samnaliev M, Cunningham A, Sheehan WJ, Gaffin JM, Baxi SN, Lai PS, Permaul P, Liang L, Thorne PS, Adamkiewicz G, Brennan KJ, Baccarelli AA, Gold DR.
Contemp Clin Trials. 2017 Sep;60:14-23.

[Investigating causal relation between prenatal arsenic exposure and birthweight: Are smaller infants more susceptible?](#)

Rahman ML, Valeri L, Kile ML, Mazumdar M, Mostofa G, Qamruzzaman Q, Rahman M, Baccarelli A, Liang L, Hauser R, Christiani DC.
Environ Int. 2017 Nov;108:32-40. Epub 2017 Aug 5.

[Adults born preterm: a review of general health and system-specific outcomes.](#)

Raju TNK, Buist AS, Blaisdell CJ, Moxey-Mims M, Saigal S.
Acta Paediatr. 2017 Sep;106(9):1409-1437.

[Screen Time Engagement Is Increased in Urban Children With Asthma.](#)

Rota AP, Bacharier LB, Jaffee K, Visness CM, Kattan M, O'Connor GT, Wood RA, Gergen PJ, Gern JE, Bloomberg GR.
Clin Pediatr (Phila). 2017 Oct;56(11):1048-1053.

[Childhood exposure to Libby amphibole asbestos and respiratory health in young adults.](#)

Ryan PH, Rice CH, Lockey JE, Black B, Burkle J, Hilbert TJ, Levin L, Brokamp C, McKay R, Wolfe C, LeMasters GK.
Environ Res. 2017 Oct;158:470-479.

[Folic Acid in Pregnancy and Childhood Asthma: A US Cohort.](#)

Trivedi MK, Sharma S, Rifas-Shiman SL, Camargo CA Jr, Weiss ST, Oken E, Gillman MW, Gold DR, DeMeo DL, Litonjua AA.
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[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.

[In Utero Exposure to Select Phenols and Phthalates and Respiratory Health in Five-Year-Old Boys: A Prospective Study.](#)

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Environ Health Perspect. 2017 Sep 8;125(9):097006.

[Association of Breast Milk Fatty Acids and Allergic Disease Outcomes - a Systematic Review.](#)

Waidyatillake NT, Dharmage SC, Allen KJ, Lodge CJ, Simpson JA, Bowatte G, Abramson MJ, Lowe AJ.
Allergy. 2017 Sep 4.

[Allergen sensitization in a birth cohort at midchildhood: Focus on food component IgE and IgG₄ responses.](#)

Wilson JM, Workman L, Schuyler AJ, Rifas-Shiman SL, McGowan EC, Oken E, Gold DR, Hamilton RG, Platts-Mills TAE.
J Allergy Clin Immunol. 2017 Sep 1.

Environmental and Public Health

[Environmental Health: Lessons from the Past and Looking to the Future.](#)

Rice MB, Samet JM.
Ann Am Thorac Soc. 2017 Sep;14(9):1378-1382.

[Public Health and All That Jazz.](#)

Samet JM.

Am J Public Health. 2017 Sep;107(9):1352-1353.

Environmental Factors and Allergic Respiratory Diseases

[The ARIA score of allergic rhinitis using mobile technology correlates with quality-of-life: The MASK study.](#)

Bousquet J, Arnavielhe S, Bedbrook A, Fonseca J, Morais Almeida M, Todo Bom A, et al. Allergy. 2017 Sep 14.

[Bronchial hyperresponsiveness and obesity in middle age: insights from an Australian cohort.](#)

Burgess JA, Matheson MC, Diao F, Johns DP, Erbas B, Lowe AJ, Gurrin LC, Lodge CJ, Thomas PS, Morrison S, Thompson BR, Feather I, Perret JL, Abramson MJ, Giles GG, Hopper JL, Dharmage SC, Walters EH. Eur Respir J. 2017 Sep 12;50(3).

[Validation of the MASK-rhinitis visual analogue scale on smartphone screens to assess allergic rhinitis control.](#)

Caimmi D, Baiz N, Tanno LK, Demoly P, Arnavielhe S, Murray R, Bedbrook AA, et al. Clin Exp Allergy. 2017 Sep 8.

[Functional phenotypes determined by fluctuation-based clustering of lung function measurements in healthy and asthmatic cohort participants.](#)

Delgado-Eckert E, Fuchs O, Kumar N, Pekkanen J, Dalphin JC, Riedler J, Lauener R, Kabesch M, Kupczyk M, Dahlen SE, Mutius EV, Frey U; PASTURE and BIOAIR Study groups. Thorax. 2017 Sep 2.

[Improving the asthma disparity gap with legal advocacy? A qualitative study of patient-identified challenges to improve social and environmental factors that contribute to poorly controlled asthma.](#)

Harris DA, Mainardi A, Iyamu O, Rosenthal MS, Bruce RD, Pisani MA, Redlich CA. J Asthma. 2017 Sep 5:0.

[Residential greenness and allergic respiratory diseases in children and adolescents - A systematic review and meta-analysis.](#)

Lambert KA, Bowatte G, Tham R, Lodge C, Prendergast L, Heinrich J, Abramson MJ, Dharmage SC, Erbas B. Environ Res. 2017 Nov;159:212-221. Epub 2017 Aug 10.

[The Limits of Pattern Recognition: Nodular Lung Disease in a Syrian Refugee.](#)

Lefkowitz RY, Mitma AA, Altassan K, Redlich CA. Ann Am Thorac Soc. 2017 Oct;14(10):1591-1594.

[24-h Nitrogen dioxide concentration is associated with cooking behaviors and an increase in rescue medication use in children with asthma.](#)

Paulin LM, Williams D'L, Peng R, Diette GB, McCormack MC, Breyse P, Hansel NN. Environ Res. 2017 Nov; 159:118-123. Epub 2017 Aug 7.

[An immunoproteomic approach revealed antigenic proteins enhancing serodiagnosis performance of bird fancier's lung.](#)

Rouzet A, Reboux G, Dalphin JC, Gondouin A, De Vuyst P, Balliau T, Millon L, Valot B, Roussel S. J Immunol Methods. 2017 Nov;450:58-65.

[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 Sep 13.

[Asthmatic farm children show increased CD3+CD8low 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 Sep 13.

[Pathologic Findings and Prognosis in a Large Prospective Cohort of Chronic Hypersensitivity Pneumonitis.](#)

Wang P, Jones KD, Urisman A, Elicker BM, Urbania T, Johansson KA, Assayag D, Lee J, Wolters PJ, Collard HR, Koth LL.
Chest. 2017 Sep;152(3):502-509.

Genetics and Respiratory Diseases

[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.

[Gene-environment interaction between an IL4R variant and school endotoxin exposure contributes to asthma symptoms in inner-city children.](#)

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J Allergy Clin Immunol. 2017 Sep 21.

[Evolutionary dynamics of an expressed MHC class II \$\beta\$ locus in the Ranidae \(Anura\) uncovered by genome walking and high-throughput amplicon sequencing.](#)

Mulder KP, Cortazar-Chinarro M, Harris DJ, Crottini A, Campbell Grant EH, Fleischer RC, Savage AE.
Dev Comp Immunol. 2017 Nov;76:177-188.

[The MUC5B promoter polymorphism is associated with specific interstitial lung abnormality subtypes.](#)

Putman RK, Gudmundsson G, Araki T, Nishino M, Sigurdsson S, Gudmundsson EF, Eiríksdóttir G, Aspelund T, Ross JC, San José Estépar R, Miller ER, Yamada Y, Yanagawa M, Tomiyama N, Launer LJ, Harris TB, El-Chemaly S, Raby BA, Cho MH, Rosas IO, Washko GR, Schwartz DA, Silverman EK, Gudnason V, Hatabu H, Hunninghake GM.
Eur Respir J. 2017 Sep 11;50(3).

Heart Disease and Stroke

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

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Am J Respir Crit Care Med. 2017 Oct 1;196(7):931-934.

[Heat and mortality for ischemic and hemorrhagic stroke in 12 cities of Jiangsu Province, China.](#)

Zhou L, Chen K, Chen X, Jing Y, Ma Z, Bi J, Kinney PL.
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Lipid Mediators

[Bioactive Lipid Mediators Regulate Lung Epithelial and Mesenchymal Cell Reparative Processes In Vitro.](#)

Nordgren TM, Heires AJ, Bailey KL, Romberger DJ.
Ann Am Thorac Soc. 2017 Sep;14(Supplement_3):S252-S253.

Lung Cancer

[Identification of ALK Rearrangements in Malignant Peritoneal Mesothelioma.](#)

Hung YP, Dong F, Watkins JC, Nardi V, Bueno R, Dal Cin P, Godleski JJ, Crum CP, Chirieac LR.
JAMA Oncol. 2017 Sep 14.

[Association between polymorphisms in microRNA target sites and survival in early-stage non-small cell lung cancer.](#)

Yoo SS, Hong MJ, Lee JH, Choi JE, Lee SY, Lee J, Cha SI, Kim CH, Seok Y, Lee E, Cho S, Jheon S, Park JY. Thorac Cancer. 2017 Sep 18.

Occupational Exposures

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

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

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[Resilience of farm women working the third shift.](#)

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[Insecticide Use and Breast Cancer Risk among Farmers' Wives in the Agricultural Health Study.](#)

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[Lung cancer mortality of residents living near petrochemical industrial complexes: a meta-analysis.](#)

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[Post-traumatic stress disorder dimensions and asthma morbidity in World Trade Center rescue and recovery workers.](#)

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

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

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

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Particulate Exposures In Vivo

[Imipramine blocks acute silicosis in a mouse model.](#)

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[Receptor for advanced glycation end-products and World Trade Center particulate induced lung function loss: A case-cohort study and murine model of acute particulate exposure.](#)

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Biochem Biophys Res Commun. 2017 Sep 25.

[Comparison of the toxicity of sintered and unsintered indium-tin oxide particles in murine macrophage and epidermal cells.](#)

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Pulmonary Fibrosis

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

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Tobacco Products

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[Flavoring Chemicals and Aldehydes in E-Cigarette Emissions.](#)

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Environ Sci Technol. 2017 Sep 19;51(18):10806-10813.

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