

THE ASSEMBLY ON

Environmental, Occupational, and Population Health

NEWSLETTER



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Dear EOPH Members,

We hope everyone is staying safe and healthy as we navigate and respond to the COVID-19 pandemic. As you have likely heard, in consideration of the COVID-19 pandemic, ATS has made the difficult decision to cancel the 2020 international conference. More information is provided at the end of newsletter. We have also included some resources to help everyone stay informed as to the current status of the pandemic. In addition, the ATS Web Editorial Committee will be working on resources relating to COVID-19. If you would like to be involved in this effort, please contact us. We will also be putting together resources relating to EVALI, and we have been asked to provide names from our assembly with expertise in this area as well. Please contact Tara Nordgren at tara.nordgren@medsch.ucr.edu If you would like to participate in either of these efforts.

Also included in this March 2020 newsletter are some of our members' recent "epub ahead of print" articles from the month of February 2020. If you have a recent publication that you would like to share in the upcoming newsletter, please send the title and citation link to tara.nordgren@medsch.ucr.edu.

Are you interested in getting more involved with ATS and the EOPH assembly? Register [HERE](#) to indicate your interest!

Sincerely,

Your EOPH and TID Web Editorial Committees





Recent Publications

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

Air Pollution and Environmental Exposures

[Opportunities for evaluating chemical exposures and child health in the United States: the Environmental influences on Child Health Outcomes \(ECHO\) Program.](#)

Buckley JP, Barrett ES, Beamer PI, Bennett DH, Bloom MS, Fennell TR, Fry RC, Funk WE, Hamra GB, Hecht SS, Kannan K, Iyer R, Karagas MR, Lyall K, Parsons PJ, Pellizzari ED, Signes-Pastor AJ, Starling AP, Wang A, Watkins DJ, Zhang M, Woodruff TJ; program collaborators for ECHO. *J Expo Sci Environ Epidemiol.* 2020 Feb 17. doi: 10.1038/s41370-020-0211-9. [Epub ahead of print] Review.

PMID:32066883

[Air pollutants disrupt iron homeostasis to impact oxidant generation, biological effects, and tissue injury.](#)

Ghio AJ, Soukup JM, Dailey LA, Madden MC.

Free Radic Biol Med. 2020 Feb 21. pii: S0891-5849(19)31669-7. doi: 10.1016/j.freeradbiomed.2020.02.007. [Epub ahead of print] Review.

PMID:32092410

Research Methods, Therapeutics, and Clinical Care

[Optimal identification of human conventional and nonconventional \(CRTH2, IL7R \$\alpha\$ \) ILC2s using additional surface markers.](#)

Liu S, Sirohi K, Verma M, McKay J, Michalec L, Sripada A, Danhorn T, Rollins D, Good J, Gorska MM, Martin RJ, Alam R.

J Allergy Clin Immunol. 2020 Feb 4. pii: S0091-6749(20)30128-7. doi: 10.1016/j.jaci.2020.01.038. [Epub ahead of print]

PMID:32032632

[Screening for Pediatric Obsessive-Compulsive Disorder Using the Obsessive-Compulsive Inventory-Child Version.](#)

Rough HE, Hanna BS, Gillett CB, Rosenberg DR, Gehring WJ, Arnold PD, Hanna GL.

Child Psychiatry Hum Dev. 2020 Feb 6. doi: 10.1007/s10578-020-00966-x. [Epub ahead of print]

PMID:32030629

[Breast mass assessment on chest CT: Axial, sagittal, coronal or maximal intensity projection?](#)

Margolies LR, Salvatore M, Tam K, Yip R, Bertolini A, Henschke CI, Yankelevitz DF.

Clin Imaging. 2020 Feb 26;63:60-64. doi: 10.1016/j.clinimag.2020.02.011. [Epub ahead of print]

PMID:32146335

[Standardized bleeding definitions after transbronchial lung biopsy: a Delphi consensus statement from the Nashville Working Group.](#)



Folch EE, Mahajan AK, Oberg CL, Maldonado F, Toloza E, Krinsky WS, Oh S, Bowling MR, Benzaquen S, Kinsey CM, Mehta AC, Fernandez-Bussy S, Flandes J, Lau K, Krishna G, Nead MA, Herth F, Aragaki-Nakahodo AA, Barisione E, Bansal S, Zanchi D, Zgoda M, Lutz PO, Lentz RJ, Parks C, Salio M, Perret K, Keyes C, LeMense GP, Hinze JD, Majid A, Christensen M, Kazakov J, Labarca G, Waller E, Studnicka M, Teba CV, Khandhar SJ.

Chest. 2020 Feb 14. pii: S0012-3692(20)30272-5. doi: 10.1016/j.chest.2020.01.036. [Epub ahead of print]

PMID:32067944

[Ensuring the Availability of Clinical Clerkships at U.S. Hospitals: A Tale of Two States.](#)

Lenhoff F, Goldberg RB, Reichgott M, Collins M, Jumper C, Elliott VS.

Acad Med. 2020 Feb 4. doi: 10.1097/ACM.0000000000003181. [Epub ahead of print]

PMID:32028298

Asthma and Allergy

[Analysis of Lung Gene Expression Reveals a Role for Cl⁻ channels in Diisocyanate Induced Airway Eosinophilia in a Mouse Model of Asthma Pathology.](#)

Wisnewski AV, Liu J, Redlich CA.

Am J Respir Cell Mol Biol. 2020 Feb 26. doi: 10.1165/rcmb.2019-0400OC. [Epub ahead of print]

PMID:32101465

[Prediction model development of women's daily asthma control using fitness tracker sleep disruption.](#)

Castner J, Jungquist CR, Mammen MJ, Pender JJ, Licata O, Sethi S.

Heart Lung. 2020 Feb 20. pii: S0147-9563(20)30017-0. doi: 10.1016/j.hrtlng.2020.01.013. [Epub ahead of print]

PMID:32089295

[Transcriptome-wide and differential expression network analyses of childhood asthma in nasal epithelium.](#)

Forno E, Zhang R, Jiang Y, Kim S, Yan Q, Ren Z, Han YY, Boutaoui N, Rosser F, Weeks DE, Acosta-Pérez E, Colón-Semidey A, Alvarez M, Canino G, Chen W, Celedón JC.

J Allergy Clin Immunol. 2020 Feb 20. pii: S0091-6749(20)30197-4. doi: 10.1016/j.jaci.2020.02.005. [Epub ahead of print]

No abstract available.

PMID:32088307

[Atopic dermatitis independently increases sensitization above parental atopy: The MPAACH study.](#)

Kroner JW, Baatyrbek Kyzy A, Burkle JW, Martin LJ, LeMasters GK, Bernstein DI, Lockey JE, Ryan P, Khurana Hershey GK, Biagini Myers JM.

J Allergy Clin Immunol. 2020 Feb 5. pii: S0091-6749(20)30180-9. doi: 10.1016/j.jaci.2020.01.041. [Epub ahead of print]

No abstract available.

PMID:32035158

[Serum folate metabolites, asthma, and lung function in a nationwide US study.](#)

Han YY, Forno E, Rosser F, Celedón JC.

J Allergy Clin Immunol. 2020 Feb 1. pii: S0091-6749(20)30123-8. doi: 10.1016/j.jaci.2020.01.034. [Epub ahead of print]

No abstract available.



PMID:32018028

Cigarettes, E-cigs, and Cannabis Smoke Exposure

[Imbalance in zinc homeostasis enhances lung Tissue Loss following cigarette smoke exposure.](#)

Knoell DL, Smith D, Bao S, Sapkota M, Wyatt TA, Zweier JL, Flury J, Borchers MT, Knutson M.
J Trace Elem Med Biol. 2020 Feb 27;60:126483. doi: 10.1016/j.jtemb.2020.126483. [Epub ahead of print]

PMID:32155573

[In Utero Exposures to Electronic-Cigarette Aerosols Impair the Wnt Signaling during Mouse Lung Development.](#)

Noel A, Hansen S, Zaman A, Perveen Z, Pinkston R, Hossain E, Xiao R, Penn A.
Am J Physiol Lung Cell Mol Physiol. 2020 Feb 21. doi: 10.1152/ajplung.00408.2019. [Epub ahead of print]

PMID:32083945

Occupational Injuries and Exposures

[Carbon content in airway macrophages and genomic instability in Chinese carbon black packers.](#)

Cheng W, Liu Y, Tang J, Duan H, Wei X, Zhang X, Yu S, Campen MJ, Han W, Rothman N, Belinsky SA, Lan Q, Zheng Y, Leng S.

Arch Toxicol. 2020 Feb 19. doi: 10.1007/s00204-020-02678-6. [Epub ahead of print]

PMID:32076763

[Wildfire Smoke Exposure: Awareness and Safety Responses in the Agricultural Workplace.](#)

Riden HE, Giacinto R, Wadsworth G, Rainwater J, Andrews T, **Pinkerton KE.**
J Agromedicine. 2020 Feb 11:1-9. doi: 10.1080/1059924X.2020.1725699. [Epub ahead of print]

PMID:32043423

Genetics, Epigenetics, Genomics

["PIK"ing Out New Epigenetic Markers in Lung Disease.](#)

Swarr D, Putcha N, Zacharias W MD, PhD.

Am J Respir Crit Care Med. 2020 Feb 28. doi: 10.1164/rccm.202002-0295ED. [Epub ahead of print] No abstract available.

PMID:32109362

Cancer

[External Validation of a Venous Thromboembolic Risk Score for Cancer Outpatients with Solid Tumors: The COMPASS-CAT Venous Thromboembolism Risk Assessment Model.](#)

Spyropoulos AC, Eldredge JB, Anand LN, Zhang M, Qiu M, Nourabadi S, Rosenberg DJ.
Oncologist. 2020 Feb 4. doi: 10.1634/theoncologist.2019-0482. [Epub ahead of print]

PMID:32017293



[Independent validation of early-stage NSCLC prognostic scores incorporating epigenetic and transcriptional biomarkers with gene-gene interactions and main effects.](#)

Zhang R, Chen C, Dong X, Shen S, Lai L, He J, You D, Lin L, Zhu Y, Huang H, Chen J, Wei L, Chen X, Li Y, Guo Y, Duan W, Liu L, **Su L**, Shafer A, Fleischer T, Bjaanæs MM, Karlsson A, Planck M, Wang R, Staaf J, Helland Å, Esteller M, Wei Y, Chen F, Christiani DC.
Chest. 2020 Feb 27. pii: S0012-3692(20)30342-1. doi: 10.1016/j.chest.2020.01.048. [Epub ahead of print]

PMID:32113923

[Potentially functional genetic variants in PLIN2, SULT2A1 and UGT1A9 genes of the ketone pathway and survival of nonsmall cell lung cancer.](#)

Tang D, Zhao YC, Liu H, Luo S, Clarke JM, Glass C, Su L, Shen S, Christiani DC, Gao W, Wei Q.
Int J Cancer. 2020 Feb 18. doi: 10.1002/ijc.32932. [Epub ahead of print]

PMID:32072637

[A clinical evaluation and tissue fiber burden analysis of a lifetime resident of Libby, Montana with adenocarcinoma of the lung.](#)

Dodson RF, Black B, Poye LW, Bruce JR, McNew T.
Am J Ind Med. 2020 Feb 18. doi: 10.1002/ajim.23096. [Epub ahead of print]

PMID:32068291

COPD and other Obstructive Pulmonary Diseases

[Validation of Questionnaire-based Case Definitions for Chronic Obstructive Pulmonary Disease.](#)

Feinstein L, Wilkerson J, Salo PM, MacNeill N, Bridge MF, Fessler MB, Thorne PS, Mendy A, Cohn RD, Curry MD, Zeldin DC.
Epidemiology. 2020 Feb 4. doi: 10.1097/EDE.0000000000001176. [Epub ahead of print]

PMID:32028323

Cardiovascular and Systemic Diseases

[FIB-4 stage of liver fibrosis is associated with incident heart failure with preserved, but not reduced, ejection fraction among people with and without HIV or hepatitis C.](#)

So-Armah KA, Lim JK, Re VL 3rd, Tate JP, Chang CH, Butt AA, Gibert CL, Rimland D, Marconi VC, Goetz MB, Ramachandran V, Brittain E, Long M, Nguyen KL, Rodriguez-Barradas MC, Budoff MJ, Tindle HA, Samet JH, Justice AC, Freiberg MS; (for the) VACS project Team.

Prog Cardiovasc Dis. 2020 Feb 14. pii: S0033-0620(20)30050-5. doi: 10.1016/j.pcad.2020.02.010. [Epub ahead of print] Review.

PMID:32068085

[Pre-endovascular therapy change in blood pressure is associated with outcomes in patients with stroke.](#)

Mistry EA, Dakay K, Petersen NH, Jayaraman M, McTaggart R, Furie K, Mistry A, Mehta T, Arora N, De Los Rios La Rosa F, Starosciak AK, Siegler JE, Barnhill N, Patel K, Assad S, Tarboosh A, Cruz AS, Wagner J, Fortuny E, Bennett A, James RF, Jagadeesan BD, Streib C, Kasner S, Weber S, Chitale RV, Volpi J, Mayer SA, Khatri P, Yaghi S.



J Neurol Neurosurg Psychiatry. 2020 Feb 6. pii: jnnp-2019-322534. doi: 10.1136/jnnp-2019-322534. [Epub ahead of print]
No abstract available.

PMID:32029540

[Cardiorespiratory Fitness Is Associated With Better Cardiometabolic Health and Lower PTSD Severity in Post-9/11 Veterans.](#)

Whitworth JW, Hayes SM, Andrews RJ, Fonda JR, Beck BM, Hanlon LB, Fortier CB, Milberg WP, McGlinchey RE.

Mil Med. 2020 Feb 15. pii: usaa005. doi: 10.1093/milmed/usaa005. [Epub ahead of print]

PMID:32060558

[Prevention of cardiovascular disease among people living with HIV in sub-Saharan Africa.](#)

Okello S, Amir A, Bloomfield GS, Kentoffio K, Lugobe HM, Reynolds Z, Magodoro IM, North CM, Okello E, Peck R, Siedner MJ.

Prog Cardiovasc Dis. 2020 Feb 5. pii: S0033-0620(20)30034-7. doi: 10.1016/j.pcad.2020.02.004. [Epub ahead of print]
Review.

PMID:32035126

Exercise and Health Outcomes

[Does aerobic exercise benefit persons with tetraplegia from spinal cord injury? A systematic review.](#)

Figoni SF, Dolbow DR, Crawford EC, White ML, Pattanaik S.

J Spinal Cord Med. 2020 Feb 11:1-14. doi: 10.1080/10790268.2020.1722935. [Epub ahead of print]

PMID:32043944



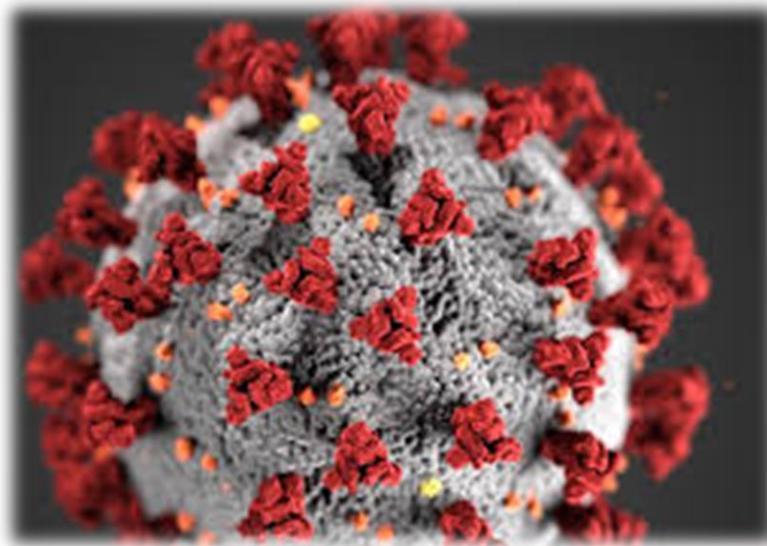
Updates from Terrorism and Inhalation Disasters Section



TID Section Announcements

In the light of COVID-19, the ATS 2020 International Conference has been [cancelled](#). Our TID section leadership is discussing the plans to present some of the planned events and content virtually. We will keep you posted.

COVID-19 resources



#COVID-19Crisis #FlattenTheCurve #SocialDistancing #PersonalHygiene
#KudosToAllHealthProfessionals

How to Protect Yourself: <https://www.cdc.gov/coronavirus/2019-ncov/prepare/prevention.html>

What To Do if You Are Sick: <https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html>

World-wide COVID-19 cases: <https://www.worldometers.info/coronavirus/#countries>

The basics of corona virus epidemiology



The epidemiology of the coronavirus presented by CDC China (the epidemics history there), CDC Atlanta (epidemics here), UNC (virology, genetics, therapy) and NIH Director for NIAID (coronavirus diagnostics, therapeutics and vaccines). <https://special.croi.capitalreach.com/>

ATS Resources on COVID-19: <https://www.thoracic.org/professionals/clinical-resources/disease-related-resources/novel-coronavirus.php>

The quick and comprehensive one-pager on COVID-19 by a Seattle Intensivist, Dr. Nick Mark, MD captures several features of viral biology, epidemiology, diagnosis, treatment, and prognosis (credit: Nick Mark, MD).

A Seattle Intensivist's One-pager on COVID-19

Nomenclature

Infection: Coronavirus Disease 2019 a.k.a. COVID-19
Virus: SARS-CoV-2, 2019 Novel Coronavirus
NOT "Wuhan Virus"

Biology

- 30 kbp, +ssRNA, enveloped coronavirus
- Likely zoonotic infection; source/reservoir unclear (Bats? / Pangolins? → people)
- Now spread primarily **person to person**;
 - Can be spread by asymptomatic carriers!
- Viral particles enter into lungs via droplets
- Viral S spike binds to ACE2 on type two pneumocytes
- Effect of ACE/ARB is unclear; not recommended to change medications at this time.
- Other routes of infection (contact, enteric) possible but unclear if these are significant means of spread

Epidemiology

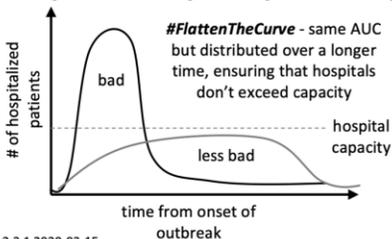
- Attack rate = 30-40%
- $R_0 = 2-4$
- Case fatality rate (CFR) = 3.4% (worldwide numbers)
- Incubation time = 4-14 days (up to 15 days)
- Viral shedding – median 20 days (max 37 days)

Timeline:

- China notifies WHO 2019-12-31
- First US case in Seattle 2020-1-15
- WHO Declared pandemic 2020-3-11
- National emergency 2020-3-12

Disease clusters: SNFs, Conferences, other

Strategies: contact tracing, screening, social distancing



Diagnosis/Presentation

Symptoms

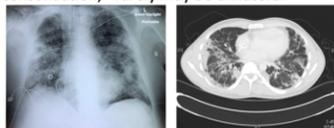
- 65-80% cough
- 45% febrile on presentation (85% febrile during illness)
- 20-40% dyspnea
- 15% URI symptoms
- 10% GI symptoms

Labs

- CBC: Leukopenia & lymphopenia (80%+)
- BMP: ↑AST/ALT/Tbili
- LFTs: ↑AST/ALT/Tbili
- ↑ D-dimer, ↑ CRP, ↑ LDH
- ↑ IL-6, ↑ Ferritin
- ↓ Procalcitonin
- *PCT may be high w/ superinfxn (rare)*

Imaging

- CXR: hazy bilateral, peripheral opacities
- CT: ground glass opacities (GGO), crazy paving, consolidation, *rarely may be unilateral*



- POCUS: numerous B-lines, pleural line thickening, consolidations w/ air bronchograms

Isolation

- Phone call is the best isolation (e.g. move to telemed)
- Place patient in mask, single room, limit/restrict visitors

Precautions

- In correct sequence: STANDARD + CONTACT (double glove) + either AIRBORNE (for aerosolizing procedures: intubation, extubation, NIPPV, suctioning, etc) or DROPLET (for everything else)
- N95 masks must be fit tested; wear eye protection
- PPE should be donned/doffed with trained observer
- Hand hygiene: 20+ seconds w/ soap/water or alcohol containing hand gel

Link to the most current version →



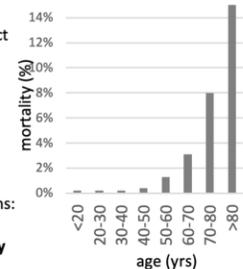
Nick Mark, MD
@nickmarmk

Treatment

- Isolate & send PCR test early (may take days to result)
- GOC discussion / triage
- Notify DOH, CDC, etc
- Fluid sparing resuscitation
- ± empiric antibiotics
- Intubate early under controlled conditions if possible
- Avoid HFNC or NIPPV (aerosolizes virus) unless individualized reasons exist (e.g. COPD, DNI status, etc); consider helmet mask interface (if available) if using NIPPV
- Mechanical ventilation for ARDS
 - LPV per ARDSnet protocol
 - 7 P's for good care of ARDS patients: e.g. PEEP/Paralytics/Proning/inhaled Prostacyclins, etc
 - ? High PEEP ladder may be better
 - ? ECMO in select cases (unclear who)
- Consider using POCUS to monitor/evaluate lungs
- Investigational therapies:
 - Remdesivir --| block RNA dependent polymerase
 - Chloroquine --| blocks viral entry in endosome
 - Oseltamivir --| block neuraminidase
 - Lopinavir/ritonavir --| protease inhibitor
 - Tocilizumab --| block IL-6 (reduce inflammation)
 - Corticosteroids --| block T-cells (reduce inflammation)
- None of these investigational therapies is proven, but literature is evolving quickly.

Prognosis

- Age and comorbidities (DM, COPD, CVD) are significant predictors of poor clinical outcome; admission SOFA score also predicts mortality.
- Lab findings also predict mortality
 - ↑ d-dimer,
 - ↑ ferritin
 - ↑ troponin
 - ↑ cardiac myoglobin
- Expect prolonged MV
- Watch for complications: Secondary infection (VAP), Cardiomyopathy





Accomplishments



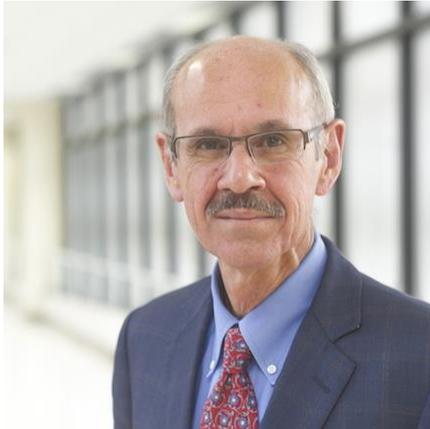
David A. Jett, PhD, Program Director, NIH Countermeasures Against Chemical Threats (CounterACT) Program and National Institute of Neurological Disorders and Stroke, Bethesda, MD received the **Translational Impact Award**, one of the highest awards given by the society of toxicology. This award recognizes a scientist whose recent (within the last 10 years) outstanding clinical, environmental health, or translational research has improved human and/or public health in an area of toxicological concern.

Dr. Jett has received the 2020 SOT Translational Impact Award for his translational research efforts to develop safer and more effective treatments for highly toxic agent exposure. Congratulations!!!

After earning his PhD in pharmacology and experimental therapeutics from the University of Maryland in 1992, Dr. Jett conducted his postdoctoral fellowship at the Johns Hopkins University, where he later joined the faculty and led a laboratory focused on organophosphorus pesticides. He then joined the National Institutes of Health (NIH) as a Program Director at the National Institute of Neurological Disorders and Stroke (NINDS), where he worked on programs to increase diversity in the neuroscience workforce and began the development of the NIH Countermeasures Against Chemical Threats (CounterACT) Program in response to a request from the White House Office of Science and Technology Policy. Currently, Dr. Jett is the Director of the NIH CounterACT program and the Scientific Team Leader within the Division of Translational Research at NINDS, among other intergovernmental responsibilities related to chemical security and public health. Since the program's establishment in 2006, Dr. Jett and his team of NIH scientists have recruited more than 100 of the nation's top laboratories into the program, including senior investigators with diverse areas of expertise, including epilepsy, lung disease, toxicology, dermal toxicology, and ophthalmology. The basic and translational research generated by these scientists has resulted in over 1,400 publications in civilian peer-reviewed journals that have provided an unprecedented enrichment in the scientific knowledge base for chemical poisonings. Further, several products initially developed by CounterACT researchers are in the last stages of development, and many more are poised for advanced development in the near term. The recent approval of Seizalam, now on the market for treating nerve agent exposure, was largely due to a CounterACT-supported clinical trial that Dr. Jett helped organize with several federal agencies. The CounterACT program's success is owed in large part to Dr. Jett's "basic to translational" design of the program in its infancy. His efforts in establishing the program earned him and his team the prestigious NIH Director's Award in 2007. In addition to his appointment as Professor Adjunct of Epidemiology and Public Health at Yale University, Dr. Jett contributes his expertise to the scientific community through serving on the Neurotoxicology Editorial Board and as a reviewer for many high-impact journals. He has served on state and federal advisory panels and is an active member of the International Neurotoxicology Association, New York Academy of Sciences, and American Society for Experimental Neurotherapeutics, as well as SOT, which he joined in 1993. Dr. Jett is a member of the SOT



National Capital Area Regional Chapter, Neurotoxicology Specialty Section, and Clinical and Translational Toxicology Specialty Section.



Dr. Sadis Matalon, PhD is a Distinguished Professor and Alice McNeal Endowed Chair of Anesthesiology, at the University of Alabama in Birmingham, Alabama. Dr. Matalon received his Ph.D. from the University of Minnesota, Minneapolis, Minnesota in 1975. Subsequently, he held academic positions within State University of New York at Buffalo, Buffalo, New York and the University of Alabama at Birmingham, Birmingham, Alabama. For the last forty-four years, he conducted academic research concerning lung pathophysiology. His current projects focus on understanding the effects of chemical threat agents on the pulmonary system and developing countermeasures. He published 340+ peer-reviewed articles in leading scientific journals and has given hundreds of

presentations at international and national conferences. He is currently serving as Editor-in-chief of *Physiological reviews* (impact factor: 34). Dr. Matalon received numerous awards and honors in 2018-2019. We are proud to have him as our member of TID Section.

2019	Recipient of the George Kotzias, M.D. award from the Hellenic Physiological Society
2019	Honorary Doctor of Medical Science degree from the National and Kapodistrian University of Athens, Greece
2019	Elected the Distinguished Julius H. Comroe, Jr. Lecturer of the Respiration Section of the American Physiological Society
2018 – 2023	Editor in Chief, <i>Physiological Reviews</i> (five-year impact factor=34)
2019-2022	Editorial Board Member, <i>Physiology</i>

Recent publications from TID members and relevant to TID section:

Novel Wuhan (2019-nCoV) Coronavirus. *American Journal of Respiratory and Critical Care Medicine*, 201(4), pp. P7–P8

Innate inflammatory response to acute inhalation exposure of riot control agent oleoresin capsicum in female rats: An interplay between neutrophil mobilization and inflammatory markers. [Patowary P](#), [Pathak MP](#), [Zaman K](#), [Dwivedi SK](#), [Chattopadhyay P](#). *Exp Lung Res*. 2020 Apr - May;46(3-4):81-97. doi: 10.1080/01902148.2020.1733709. Epub 2020 Mar 4.

[TREK-1 and TRAAK Are Principal K₊ Channels at the Nodes of Ranvier for Rapid Action Potential Conduction on Mammalian Myelinated Afferent Nerves](#). Kanda H, Ling J, Tonomura S, Noguchi K, **Matalon S**, Gu JG. *Neuron*.



2019 Sep 26. pii: S0896-6273(19)30773-1. doi: 10.1016/j.neuron.2019.08.042. [Epub ahead of print] PMID:31630908

[IL-1RA regulates immunopathogenesis during fungal-associated allergic airway inflammation.](#)

Godwin MS, Reeder KM, Garth JM, Blackburn JP, Jones M, Yu Z, **Matalon S**, Hastie AT, Meyers DA, Steele C. *JCI Insight*. 2019 Nov 1;4(21). pii: 129055. doi:10.1172/jci.insight. 129055. PMID:31550242

[Sugarcoating Lung Injury: A Novel Role for High Molecular Weight Hyaluronan in Pneumonia.](#)

Garantziotis S, **Matalon S**. *Am J Respir Crit Care Med*. 2019 Aug 28. doi: 10.1164/rccm.201908-1554ED. [Epub ahead of print] No abstract available. PMID: 31461631

[Phosgene inhalation causes hemolysis and acute lung injury.](#)

Aggarwal S, Jilling T, Doran S, Ahmad I, Eagen JE, Gu S, Gillespie M, Albert CJ, Ford D, Oh JY, Patel RP, **Matalon S**. *Toxicol Lett*. 2019 Apr 29. pii: S0378-4274(19)30104-3. doi: 10.1016/j.toxlet.2019.04.019. [Epub ahead of print] PMID: 31047999

[Role of fibroblast growth factor 23 and klotho cross talk in idiopathic pulmonary fibrosis.](#)

Barnes JW, Duncan D, Helton S, Hutcheson S, Kurundkar D, Logsdon NJ, Locy M, Garth J, Denson R, Farver C, Vo HT, King G, Kentrup D, Faul C, Kulkarni T, De Andrade JA, Yu Z, Matalon S, Thannickal VJ, Krick S. *Am J Physiol Lung Cell Mol Physiol*. 2019 Jul 1;317(1):L141-L154. doi: 10.1152/ajplung.00246.2018. Epub 2019 May 1. PMID: 31042083

[Impaired Tumor-Necrosis-Factor- \$\alpha\$ -driven Dendritic Cell Activation Limits Lipopolysaccharide-Induced Protection from Allergic Inflammation in Infants.](#)

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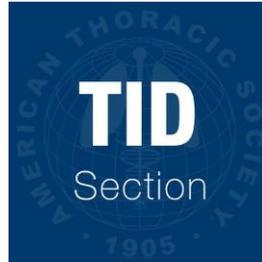
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TID section is on **twitter**
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TID section is soliciting ideas for putting together **podcasts, webinars, and journal clubs**. Please contact Satya Achanta, DVM, PhD, DABT (satya.achanta@duke.edu), Web Director of TID section, if you are interested to lead any of these activities. Also, please email your publications, news articles, or presentations pertinent to TID section to include in the future EOPH newsletters.

COVID-19 RESOURCES

ATS Resources

The ATS Clinical Problems (CP) Assembly has a closed, internal Facebook page hosted by MeiLan Han that is being consistently updated with COVID-19 updates/resources for rapid dissemination among members. All ATS members may have access to this page—you will need to enter your ATS member number to join. The link to the Facebook page is [HERE](#). A major goal of this resource is to also add to knowledge by posting experiences with clinical care associated with COVID-19, as well as more general news regarding coronavirus.

Also, with information evolving as quickly as it is and responding to requests from members, ATS has created a new channel through Slack that might be useful if you wish to share information with each other and your colleagues. We are sending this to ATS leaders only, however, you are welcome to invite other ATS member colleagues to join. The ATS channel ats-covid19.slack.com can be accessed [HERE](#).

Disclaimer: Staff will be monitoring postings but will not be able to judge content, and thus, these are simply platforms for exchange, with everyone understanding that nothing posted is official, ATS-vetted information. Also, please keep in mind HIPPA regulations when sharing information.



Other Resources

The New York Times has made their very extensive, frequently updated, coronavirus coverage freely available without a subscription. You can access this information by navigating from the [New York Times homepage](#), or click the link [HERE](#) to go directly to the resources.

The Center for Systems Science and Engineering at Johns Hopkins University is providing a map of the global spread of COVID-19 that updates regularly. You can access the site [HERE](#).

ATS 2020 International Conference

As of **March 18, 2020**, The ATS 2020 International Conference has been canceled. See below the message from ATS Leadership regarding this decision:

A Message from ATS Leadership

March 18, 2020

To Our Colleagues in the Pulmonary, Critical Care and Sleep Professions

We write with a heavy heart to inform you that the American Thoracic Society (ATS) Board of Directors have decided to cancel the [International Conference](#), originally scheduled for May 15-20, 2020 in Philadelphia, due to the COVID-19 pandemic and ensuing public health crisis currently facing the global community. We understand that your current and appropriate focus is on caring for patients and conducting important research during this critical time.

This decision was made based on recent actions by various government entities, including guidance issued by the CDC and the Pennsylvania Governor and out of an abundance of caution and concern for our community, members, conference attendees, exhibitors and staff.

To help fill the void from the loss of the conference, ATS leadership is currently exploring options for providing select elements of the conference content in a web-based format that would be available later this year. Details are still being discussed, and we will announce next steps as more information becomes available.

For those of you who have registered for the meeting, we are working to make refunds for registration and hotel rooms that were booked through the ATS housing partner a seamless process and will be issuing more information soon.

ATS appreciates everyone's patience and understanding during this unprecedented public health crisis. We understand that your priorities are your patients, colleagues and families, and we want to support that mission in every way possible. We remain committed to offering opportunities for the pulmonary, critical care and sleep communities to share knowledge and collaborate to advance science and improve patient care.

Sincerely,

James M. Beck, MD, ATSF, President



The Assembly on Environmental, Occupational, and Population Health Newsletter



Juan C. Celedón, MD, DrPH, ATSF, President-Elect

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Karen J. Collishaw, MPP, CAE, Executive Director