

## Curriculum Vitae

### Sven-Eric Jordt, Ph.D.

#### Associate Professor of Anesthesiology (Tenured)

Associate Professor of Pharmacology & Cancer Biology (secondary Appointment)

Faculty, Integrated Toxicology & Environmental Health Program (ITEHP)

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### Education

<u>Education</u>	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	Johanneum zu Lübeck, Germany	1987	Abitur
College	Free University Berlin, Germany	1994	M.Sc.
Graduate or Professional School	Free University Berlin, Germany	1997	Ph.D.

## Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
Free University Berlin & Center for Molecular Neurobiology Hamburg, Germany Advisor: <a href="#">Thomas Jentsch, M.D., Ph.D.</a>	Graduate Student / Ph.D.	1994-97
Center for Molecular Neurobiology, Hamburg, Germany Advisor: <a href="#">Thomas Jentsch, M.D., Ph.D.</a>	Postdoctoral Fellow	1997-98
Dept. of Cellular & Molecular Pharmacology, University of California, San Francisco Mentor: <a href="#">David Julius, Ph.D.</a>	Postdoctoral Fellow	1998-2003
Dept. of Cellular & Molecular Pharmacology, University of California, San Francisco Mentor: <a href="#">David Julius, Ph.D.</a>	Postgraduate Researcher	2003-05
Department of Pharmacology, Yale School of Medicine	Assistant Professor, Tenure Track	2005-10
Department of Pharmacology, Yale School of Medicine	Associate Professor, Tenure Track	2010-14
Department of Psychiatry, Yale School of Medicine	Associate Professor, Adjunct	2014-now
<b>Department of Anesthesiology, Duke University School of Medicine (<i>Primary Appointment</i>)</b>	<b>Associate Professor, with Tenure</b>	<b>2014-now</b>
Department of Pharmacology & Cancer Biology, Duke University School of Medicine ( <i>Secondary</i> )	Associate Professor	2017-now

## Professional awards and special recognitions:

- 1992-94      Scholarship, [German Academic Scholarship Foundation](#), Bonn, Germany
- 1994          Permanent Fellow, [German Academic Scholarship Foundation](#), Bonn, Germany
- 1998-2001    [Postdoctoral Fellowship, German Academy of Sciences, Leopoldina](#)
- 2003          [Young Investigator Award, European Society for Neurochemistry](#), Warsaw, Poland
- 2006          [Outstanding New Environmental Scientist Award \(ONES\)](#), National Institute of Environmental Health Sciences
- 2007          [Presidential Early Career Award for Scientists and Engineers \(PECASE\)](#), Office of Science and Technology Policy, Executive Office of the President of the United States
- 2007          [Early Excellence Award, Sandler Foundation for Asthma Research](#) (renamed American Asthma Foundation), San Francisco, USA
- 2010          [Extension Award - American Asthma Foundation](#), San Francisco, USA
- 2019          [Leading Edge in Basic Science Award](#) – Society of Toxicology, Baltimore, USA
- 2022          Service Award – Society for Research on Nicotine and Tobacco ([SRNT](#))

## Professional organizations and participation:

- 2002-present    Member, Society for Neuroscience ([SFN](#))
- 2002-present    Member, International Association for the Study of Pain ([IASP](#))
- 2009-present    Member, Society of Toxicology ([SOT](#))
- 2010-present    Member, American Thoracic Society ([ATS](#))
- 2011-present    Member, Society for Research on Nicotine and Tobacco ([SRNT](#))
- 2012-present    Member, [Association for Chemoreception Sciences \(AChemS\)](#)
- 2012-2013      Delegate, Planning Committee, [Environmental and Occupational Health \(EOPH\) Assembly, American Thoracic Society \(ATS\)](#)
- 2013-2019      Delegate, Program Committee, [Environmental and Occupational Health \(EOPH\) Assembly, American Thoracic Society \(ATS\)](#)
- 2013-present    Member, Executive Committee, [Terrorism and Inhalation Disaster Section \(TID\)](#), American Thoracic Society (ATS)
- 2017-19          Chair, [Terrorism and Inhalation Disaster Section](#), American Thoracic Society (ATS)

- 2018-19 Executive Committee, [Environmental and Occupational Health \(EOPH\) Assembly, American Thoracic Society \(ATS\)](#)
- 2019-2020 Member, Program Committee, [Environmental and Occupational Health \(EOPH\) Assembly, American Thoracic Society \(ATS\)](#)
- 2019 Chair, Nominating Committee, [Terrorism and Inhalation Disaster Section](#), American Thoracic Society (ATS)
- 2019-2022 Co-Chair, [Basic Science Network, Society for Research on Nicotine and Tobacco \(SRNT\)](#)
- 2020-present Member, Tobacco Task Force, American Thoracic Society (ATS)
- 2021-present Member, [Tobacco Action Committee](#), American Thoracic Society (ATS)
- 2022-present Member, Planning Committee, [Environmental and Occupational Health \(EOPH\) Assembly, American Thoracic Society \(ATS\)](#)
- 2023-present Steering Committee, Tobacco Regulatory Science Working Group, Society for Research on Nicotine and Tobacco (SRNT)

## Publications

1. **Jordt SE**, Jentsch TJ. [Molecular dissection of gating in the CIC-2 chloride channel](#). *EMBO J*. 1997;16(7):1582-92. Epub 1997/04/01. PubMed PMID: 9130703; PMCID PMC1169762.
2. Clark S, **Jordt SE**, Jentsch TJ, Mathie A. [Characterization of the hyperpolarization-activated chloride current in dissociated rat sympathetic neurons](#). *J Physiol*. 1998;506 ( Pt 3)(Pt 3):665-78. Epub 1998/03/21. PubMed PMID: 9503329; PMCID PMC2230754.
3. Pusch M, **Jordt SE**, Stein V, Jentsch TJ. [Chloride dependence of hyperpolarization-activated chloride channel gates](#). *J Physiol*. 1999;515 ( Pt 2)(Pt 2):341-53. Epub 1999/03/02. PubMed PMID: 10050002; PMCID PMC2269146.
4. **Jordt SE**, Tominaga M, Julius D. [Acid potentiation of the capsaicin receptor determined by a key extracellular site](#). *Proc Natl Acad Sci U S A*. 2000;97(14):8134-9. Epub 2000/06/22. PubMed PMID: 10859346; PMCID PMC16682.
5. Bösl MR, Stein V, Hübner C, Zdebik AA, **Jordt SE**, Mukhopadhyay AK, Davidoff MS, Holstein AF, Jentsch TJ. [Male germ cells and photoreceptors, both dependent on close cell-cell interactions, degenerate upon CIC-2 Cl\(-\) channel disruption](#). *EMBO J*. 2001;20(6):1289-99. Epub 2001/03/17. . PubMed PMID: 11250895; PMCID PMC145530.
6. Chuang HH, Prescott ED, Kong H, Shields S, **Jordt SE**, Basbaum AI, Chao MV, Julius D. [Bradykinin and nerve growth factor release the capsaicin receptor from PtdIns\(4,5\)P2-mediated inhibition](#). *Nature*. 2001;411(6840):957-62. Epub 2001/06/22. PubMed PMID: 11418861.
7. **Jordt SE**, Julius D. [Molecular basis for species-specific sensitivity to "hot" chili peppers](#). *Cell*. 2002;108(3):421-30. Epub 2002/02/21. PubMed PMID: 11853675.
8. **Jordt SE**, McKemy DD, Julius D. [Lessons from peppers and peppermint: the molecular logic of thermosensation](#). *Curr Opin Neurobiol*. 2003;13(4):487-92. Epub 2003/09/11. PubMed PMID: 12965298.
9. **Jordt SE**, Bautista DM, Chuang HH, McKemy DD, Zygmunt PM, Högestätt ED, Meng ID, Julius D. [Mustard oils and cannabinoids excite sensory nerve fibres through the TRP channel ANKTM1](#). *Nature*. 2004;427(6971):260-5. Epub 2004/01/09. PubMed PMID: 14712238.
10. Bautista DM, Movahed P, Hinman A, Axelsson HE, Sterner O, Högestätt ED, Julius D, **Jordt SE**, Zygmunt PM. [Pungent products from garlic activate the sensory ion channel TRPA1](#). *Proc Natl Acad Sci U S A*. 2005;102(34):12248-52. Epub 2005/08/17. PubMed PMID: 16103371; PMCID PMC1189336.
11. Bautista DM, **Jordt SE\***, Nikai T, Tsuruda PR, Read AJ, Poblete J, Yamoah EN, Basbaum AI, Julius D. [TRPA1 mediates the inflammatory actions of environmental irritants and proalgesic agents](#). *Cell*. 2006;124(6):1269-82. Epub 2006/03/28. PubMed PMID: 16564016. \*(equally contributing first author)
12. **Jordt SE**, Ehrlich BE. [TRP channels in disease](#). *Subcell Biochem*. 2007;45:253-71. Epub 2008/01/16. PubMed PMID: 18193640.

13. Guimaraes MZP, **Jordt SE**. [TRPA1 : A Sensory Channel of Many Talents](#). In: Liedtke WB, Heller S, editors. TRP Ion Channel Function in Sensory Transduction and Cellular Signaling Cascades. Frontiers in Neuroscience Series, Boca Raton (FL): CRC Press/Taylor & Francis
14. Bautista DM, Siemens J, Glazer JM, Tsuruda PR, Basbaum AI, Stucky CL, **Jordt SE\***, Julius D. [The menthol receptor TRPM8 is the principal detector of environmental cold](#). *Nature*. 2007;448(7150):204-8. Epub 2007/06/01. PubMed PMID: 17538622. \*(co-corresponding author)
15. Boehmerle W, Zhang K, Sivula M, Heidrich FM, Lee Y, **Jordt SE**, Ehrlich BE. [Chronic exposure to paclitaxel diminishes phosphoinositide signaling by calpain-mediated neuronal calcium sensor-1 degradation](#). *Proc Natl Acad Sci U S A*. 2007;104(26):11103-8. Epub 2007/06/22. PubMed PMID: 17581879; PMCID PMC1904151.
16. Streng T, Axelsson HE, Hedlund P, Andersson DA, **Jordt SE**, Bevan S, Andersson KE, Högestätt ED, Zygmunt PM. [Distribution and function of the hydrogen sulfide-sensitive TRPA1 ion channel in rat urinary bladder](#). *Eur Urol*. 2008;53(2):391-9. Epub 2007/11/23. PubMed PMID: 18031925.
17. Bessac BF, Sivula M, von Hehn CA, Escalera J, Cohn L, **Jordt SE**. [TRPA1 is a major oxidant sensor in murine airway sensory neurons](#). *J Clin Invest*. 2008;118(5):1899-910. Epub 2008/04/10. PubMed PMID: 18398506; PMCID PMC2289796.
18. Escalera J, von Hehn CA, Bessac BF, Sivula M, **Jordt SE**. [TRPA1 mediates the noxious effects of natural sesquiterpene deterrents](#). *J Biol Chem*. 2008;283(35):24136-44. Epub 2008/06/14. PubMed PMID: 18550530; PMCID PMC2527119.
19. Bessac BF, Sivula M, von Hehn CA, Caceres AI, Escalera J, **Jordt SE**. [Transient receptor potential ankyrin 1 antagonists block the noxious effects of toxic industrial isocyanates and tear gases](#). *FASEB J*. 2009;23(4):1102-14. Epub 2008/11/28. PubMed PMID: 19036859; PMCID PMC2660642.
20. Bessac BF, **Jordt SE**. [Breathtaking TRP channels: TRPA1 and TRPV1 in airway chemosensation and reflex control](#). *Physiology (Bethesda)*. 2008;23:360-70. Epub 2008/12/17. PubMed PMID: 19074743; PMCID PMC2735846.
21. Caceres AI, Brackmann M, Elia MD, Bessac BF, del Camino D, D'Amours M, Witek JS, Fanger CM, Chong JA, Hayward NJ, Homer RJ, Cohn L, Huang X, Moran MM, **Jordt SE**. [A sensory neuronal ion channel essential for airway inflammation and hyperreactivity in asthma](#). *Proc Natl Acad Sci U S A*. 2009;106(22):9099-104. Epub 2009/05/22. PubMed PMID: 19458046; PMCID PMC2684498
22. Lanosa MJ, Willis DN, **Jordt S**, Morris JB. [Role of metabolic activation and the TRPA1 receptor in the sensory irritation response to styrene and naphthalene](#). *Toxicol Sci*. 2010;115(2):589-95. Epub 2010/02/24. PubMed PMID: 20176620; PMCID PMC2948824.
23. Bessac BF, **Jordt SE**. [Sensory detection and responses to toxic gases: mechanisms, health effects, and countermeasures](#). *Proc Am Thorac Soc*. 2010;7(4):269-77. Epub 2010/07/06. PubMed PMID: 20601631; PMCID PMC3136963.
24. **Jordt SE**. [Trigeminal TRPs and the scent of pain](#). *Pain*. 2011;152(1):4-5. Epub 2010/12/03. PubMed PMID: 21122996; PMCID PMC3053048.
25. Schulze C, McGowan M, **Jordt SE**, Ehrlich BE. [Prolonged oxaliplatin exposure alters intracellular calcium signaling: a new mechanism to explain oxaliplatin-associated peripheral neuropathy](#). *Clin*

- Colorectal Cancer*. 2011;10(2):126-33. Epub 2011/08/24. PubMed PMID: 21859566; PMCID PMC3388801.
26. Willis DN, Liu B, Ha MA, **Jordt SE\***, Morris JB. [Menthol attenuates respiratory irritation responses to multiple cigarette smoke irritants](#). *FASEB J*. 2011;25(12):4434-44. Epub 2011/09/10. PubMed PMID: 21903934; PMCID PMC3236628. \*(corresponding author)
  27. Liu B, Escalera J, Balakrishna S, Fan L, Caceres AI, Robinson E, Sui A, McKay MC, McAlexander MA, Herrick CA, **Jordt SE**. [TRPA1 controls inflammation and pruritogen responses in allergic contact dermatitis](#). *FASEB J*. 2013;27(9):3549-63. Epub 2013/06/01. PubMed PMID: 23722916; PMCID PMC3752543.
  28. Liu B, Fan L, Balakrishna S, Sui A, Morris JB, **Jordt SE**. [TRPM8 is the principal mediator of menthol-induced analgesia of acute and inflammatory pain](#). *Pain*. 2013;154(10):2169-77. Epub 2013/07/04. PubMed PMID: 23820004; PMCID PMC3778045.
  29. Gui J, Liu B, Cao G, Lipchik AM, Perez M, Dekan Z, Mobli M, Daly NL, Alewood PF, Parker LL, King GF, Zhou Y, **Jordt SE**, Nitabach MN. [A tarantula-venom peptide antagonizes the TRPA1 nociceptor ion channel by binding to the S1-S4 gating domain](#). *Curr Biol*. 2014;24(5):473-83. Epub 2014/02/18. PubMed PMID: 24530065; PMCID PMC3949122.
  30. Balakrishna S, Song W, Achanta S, Doran SF, Liu B, Kaelberer MM, Yu Z, Sui A, Cheung M, Leishman E, Eidam HS, Ye G, Willette RN, Thorneloe KS, Bradshaw HB, Matalon S, **Jordt SE**. [TRPV4 inhibition counteracts edema and inflammation and improves pulmonary function and oxygen saturation in chemically induced acute lung injury](#). *Am J Physiol Lung Cell Mol Physiol*. 2014;307(2):L158-72. Epub 2014/05/20. PubMed PMID: 24838754; PMCID PMC4152165.
  31. Ha MA, Smith GJ, Cichocki JA, Fan L, Liu YS, Caceres AI, **Jordt SE\***, Morris JB. [Menthol attenuates respiratory irritation and elevates blood cotinine in cigarette smoke exposed mice](#). *PLoS One*. 2015;10(2):e0117128. Epub 2015/02/14. PubMed PMID: 25679525; PMCID PMC4334501. \*(corresponding author)
  32. Smith GJ, Cichocki JA, Doughty BJ, Manautou JE, **Jordt SE**, Morris JB. [Effects of Acetaminophen on Oxidant and Irritant Respiratory Tract Responses to Environmental Tobacco Smoke in Female Mice](#). *Environ Health Perspect*. 2016;124(5):642-50. Epub 2015/10/10. PubMed PMID: 26452297; PMCID PMC4858387.
  33. Kaelberer MM, **Jordt SE**. [A Method to Target and Isolate Airway-innervating Sensory Neurons in Mice](#). *J Vis Exp*. 2016(110). Epub 2016/05/12. PubMed PMID: 27168016; PMCID PMC4911887.
  34. Miao S, Beach ES, Sommer TJ, Zimmerman JB, **Jordt SE**. [High-Intensity Sweeteners in Alternative Tobacco Products](#). *Nicotine Tob Res*. 2016;18(11):2169-73. Epub 2016/05/25. PubMed PMID: 27217475; PMCID PMC5055742.
  35. Rothenberg C, Achanta S, Svendsen ER, **Jordt SE**. [Tear gas: an epidemiological and mechanistic reassessment](#). *Ann N Y Acad Sci*. 2016;1378(1):96-107. Epub 2016/07/09. PubMed PMID: 27391380; PMCID PMC5096012.
  36. Fan L, Balakrishna S, Jabba SV, Bonner PE, Taylor SR, Picciotto MR, **Jordt SE**. [Menthol decreases oral nicotine aversion in C57BL/6 mice through a TRPM8-dependent mechanism](#). *Tob Control*. 2016;25(Suppl 2):ii50-ii4. Epub 2016/11/01. PubMed PMID: 27698211; PMCID PMC5496986.

37. Liu B, Tai Y, Caceres AI, Achanta S, Balakrishna S, Shao X, Fang J, **Jordt SE**. [Oxidized Phospholipid OxPAPC Activates TRPA1 and Contributes to Chronic Inflammatory Pain in Mice](#). *PLoS One*. 2016;11(11):e0165200. Epub 2016/11/05. PubMed PMID: 27812120; PMCID PMC5094666
38. Liu B, Tai Y, Achanta S, Kaelberer MM, Caceres AI, Shao X, Fang J, **Jordt SE**. [IL-33/ST2 signaling excites sensory neurons and mediates itch response in a mouse model of poison ivy contact allergy](#). *Proc Natl Acad Sci U S A*. 2016;113(47):E7572-e9. Epub 2016/11/09. PubMed PMID: 27821781; PMCID PMC5127381.
39. Peter J, Kasper C, Kaufholz M, Buschow R, Isensee J, Hucho T, Herberg FW, Schwede F, Stein C, **Jordt SE**, Brackmann M, Spahn V. [Ankyrin-rich membrane spanning protein as a novel modulator of transient receptor potential vanilloid 1-function in nociceptive neurons](#). *Eur J Pain*. 2017;21(6):1072-86. Epub 2017/02/10. PubMed PMID: 28182310; PMCID PMC5504413.
40. Achanta S, **Jordt SE**. [TRPA1: Acrolein meets its target](#). *Toxicol Appl Pharmacol*. 2017;324:45-50. Epub 2017/03/13. PubMed PMID: 28284857; PMCID PMC5528158.
41. Caceres AI, Liu B, Jabba SV, Achanta S, Morris JB, **Jordt SE**. [Transient Receptor Potential Cation Channel Subfamily M Member 8 channels mediate the anti-inflammatory effects of eucalyptol](#). *Br J Pharmacol*. 2017;174(9):867-79. Epub 2017/02/28. PubMed PMID: 28240768; PMCID PMC5387001.
42. Summerhill EM, Hoyle GW, **Jordt SE**, Jugg BJ, Martin JG, Matalon S, Patterson SE, Prezant DJ, Sciuto AM, Svendsen ER, White CW, Veress LA. [An Official American Thoracic Society Workshop Report: Chemical Inhalational Disasters. Biology of Lung Injury, Development of Novel Therapeutics, and Medical Preparedness](#). *Ann Am Thorac Soc*. 2017;14(6):1060-72. Epub 2017/04/19. PubMed PMID: 28418689; PMCID PMC5529138.
43. Fait BW, Thompson DC, Mose TN, Jatlow P, **Jordt SE**, Picciotto MR, Mineur YS. [Menthol disrupts nicotine's psychostimulant properties in an age and sex-dependent manner in C57BL/6J mice](#). *Behav Brain Res*. 2017;334:72-7. Epub 2017/07/27. PubMed PMID: 28743602; PMCID PMC5580257.
44. Tai Y, Wang C, Wang Z, Liang Y, Du J, He D, Fan X, **Jordt SE**, Liu B. [Involvement of Transient Receptor Potential Cation Channel Member A1 activation in the irritation and pain response elicited by skin-lightening reagent hydroquinone](#). *Sci Rep*. 2017;7(1):7532. Epub 2017/08/10. PubMed PMID: 28790335; PMCID PMC5548750 (Cambridge, MA), a biopharmaceutical company developing TRP ion channel inhibitors for the treatment of pain and inflammation. All other authors declare that they have no competing interests.
45. Moore C, Gupta R, **Jordt SE**, Chen Y, Liedtke WB. [Regulation of Pain and Itch by TRP Channels](#). *Neurosci Bull*. 2018;34(1):120-42. Epub 2017/12/29. PubMed PMID: 29282613; PMCID PMC5799130.
46. Achanta S, Chintagari NR, Brackmann M, Balakrishna S, **Jordt SE**. [TRPA1 and CGRP antagonists counteract vesicant-induced skin injury and inflammation](#). *Toxicol Lett*. 2018;293:140-8. Epub 2018/03/15. <http://dx.doi.org/10.1016/j.toxlet.2018.03.007>. PubMed PMID: 29535050; PMCID PMC5975083.
47. Zhang L, Terrando N, Xu ZZ, Bang S, **Jordt SE**, Maixner W, Serhan CN, Ji RR. [Distinct Analgesic Actions of DHA and DHA-Derived Specialized Pro-Resolving Mediators on Post-operative Pain After](#)



- [Bone Fracture in Mice](#). *Front Pharmacol*. 2018;9:412. Epub 2018/05/17. PubMed PMID: 29765320; PMCID PMC5938385.
48. Liu B, **Jordt SE**. [Cooling the Itch via TRPM8](#). *J Invest Dermatol*. 2018;138(6):1254-6. Epub 2018/05/26. PubMed PMID: 29793621; PMCID PMC6301073.
49. Erythropel HC, Kong G, deWinter TM, O'Malley SS, **Jordt SE**, Anastas PT, Zimmerman JB. [Presence of High-Intensity Sweeteners in Popular Cigarillos of Varying Flavor Profiles](#). *JAMA*. 2018;320(13):1380-3. Epub 2018/10/05. PubMed PMID: 30285168; PMCID PMC6233844.
50. Zheng X, Tai Y, He D, Liu B, Wang C, Shao X, **Jordt SE**, Liu B. [ET\(A\)R and protein kinase A pathway mediate ET-1 sensitization of TRPA1 channel: A molecular mechanism of ET-1-induced mechanical hyperalgesia](#). *Mol Pain*. 2019;15:1744806919842473. Epub 2019/04/17. PubMed PMID: 30990108; PMCID PMC6537062.
51. **Jordt SE**, Jabba S. [Sweeteners are added to modify consumer behaviour](#). *BMJ*. 2019;364:l366. Epub 2019/01/27. PubMed PMID: 30683659; PMCID PMC6890469
52. **Jordt SE**, Jabba S. [Tobacco industry's investment in sweetness comes full circle](#). *BMJ*. 2019;365:l2338. Epub 2019/06/12. PubMed PMID: 31182501; PMCID PMC6890453.
53. Liu B, Tai Y, Liu B, Caceres AI, Yin C, **Jordt SE**. [Transcriptome profiling reveals Th2 bias and identifies endogenous itch mediators in poison ivy contact dermatitis](#). *JCI Insight*. 2019;5(14). Epub 2019/06/12. PubMed PMID: 31184997; PMCID PMC6675552.
54. Erythropel HC, Davis LM, de Winter TM, **Jordt SE**, Anastas PT, O'Malley SS, Krishnan-Sarin S, Zimmerman JB. [Flavorant-Solvent Reaction Products and Menthol in JUUL E-Cigarettes and Aerosol](#). *Am J Prev Med*. 2019;57(3):425-7. Epub 2019/07/31. PubMed PMID: 31358341; PMCID PMC6702051.
55. Erythropel HC, Jabba SV, DeWinter TM, Mendizabal M, Anastas PT, **Jordt SE**, Zimmerman JB. [Formation of flavorant-propylene Glycol Adducts With Novel Toxicological Properties in Chemically Unstable E-Cigarette Liquids](#). *Nicotine Tob Res*. 2019;21(9):1248-58. Epub 2018/10/20. PubMed PMID: 30335174; PMCID PMC6698951.
56. Gotts JE, **Jordt SE**, [McConnell R](#), [Tarran R](#). [What are the respiratory effects of e-cigarettes?](#) *BMJ*. 2019;366:l5275. Epub 2019/10/02. PubMed PMID: 31570493; PMCID PMC7850161.
57. Achanta S, **Jordt SE**. [Toxic effects of chlorine gas and potential treatments: a literature review](#). *Toxicol Mech Methods*. 2021;31(4):244-56. Epub 2019/09/19. PubMed PMID: 31532270; PMCID PMC7108975.
58. Jabba SV, **Jordt SE**. [Risk Analysis for the Carcinogen Pulegone in Mint- and Menthol-Flavored e-Cigarettes and Smokeless Tobacco Products](#). *JAMA Intern Med*. 2019;179(12):1721-3. Epub 2019/09/17. PubMed PMID: 31524930; PMCID PMC6749541.
59. Eissenberg T, Bhatnagar A, Chapman S, **Jordt SE**, Shihadeh A, Soule EK. [Invalidity of an Oft-Cited Estimate of the Relative Harms of Electronic Cigarettes](#). *Am J Public Health*. 2020;110(2):161-2. Epub 2020/01/09. PubMed PMID: 31913680; PMCID PMC6951374.
60. Jabba SV, **Jordt SE**. [Estimating Fluid Consumption Volumes in Electronic Cigarette Use-Reply](#). *JAMA Intern Med*. 2020;180(3):468-9. Epub 2020/03/03. PubMed PMID: 32119051; PMCID PMC7341681.

61. Kaelberer MM, Caceres AI, **Jordt SE**. [Activation of a nerve injury transcriptional signature in airway-innervating sensory neurons after lipopolysaccharide-induced lung inflammation](#). *Am J Physiol Lung Cell Mol Physiol*. 2020;318(5):L953-L64. Epub 2020/03/12. PubMed PMID: 32159971; PMCID PMC7272742.
63. Erythropel HC, Anastas PT, Krishnan-Sarin S, O'Malley SS, **Jordt SE**, Zimmerman JB. [Differences in flavourant levels and synthetic coolant use between USA, EU and Canadian Juul products](#). *Tob Control*. 2020. Epub 2020/04/29. PubMed PMID: 32341193; PMCID PMC7606218.
64. Kuebler WM, **Jordt SE**, Liedtke WB. [Urgent reconsideration of lung edema as a preventable outcome in COVID-19: inhibition of TRPV4 represents a promising and feasible approach](#). *Am J Physiol Lung Cell Mol Physiol*. 2020;318(6):L1239-L43. Epub 2020/05/14. PubMed PMID: 32401673; PMCID PMC7276984.
65. Jabba SV, **Jordt SE**. [Turbocharged Juul device challenges European tobacco regulators](#). *Eur Respir J*. 2020;56(2). Epub 2020/08/21. PubMed PMID: 32817206; PMCID PMC7895680.
66. Achanta S, **Jordt SE**. [Transient receptor potential channels in pulmonary chemical injuries and as countermeasure targets](#). *Ann N Y Acad Sci*. 2020;1480(1):73-103. Epub 2020/09/07. PubMed PMID: 32892378; PMCID PMC7933981.
67. Jabba SV, Diaz AN, Erythropel HC, Zimmerman JB, **Jordt SE**. [Chemical Adducts of Reactive Flavor Aldehydes Formed in E-Cigarette Liquids Are Cytotoxic and Inhibit Mitochondrial Function in Respiratory Epithelial Cells](#). *Nicotine Tob Res*. 2020;22(Suppl 1):S25-s34. Epub 2020/12/16. PubMed PMID: 33320255.
68. Ye L, Bae M, Cassilly CD, Jabba SV, Thorpe DW, Martin AM, Lu HY, Wang J, Thompson JD, Lickwar CR, Poss KD, Keating DJ, **Jordt SE**, Clardy J, Liddle RA, Rawls JF. [Enteroendocrine cells sense bacterial tryptophan catabolites to activate enteric and vagal neuronal pathways](#). *Cell Host Microbe*. 2021;29(2):179-96.e9. Epub 2020/12/23. PubMed PMID: 33352109; PMCID PMC7997396.
69. **Jordt SE**. [TRPA1: An asthma target with a zing](#). *J Exp Med*. 2021;218(4). Epub 2021/02/25. PubMed PMID: 33625497; PMCID PMC7918757.
70. **Jordt SE**. [Synthetic nicotine has arrived](#). *Tob Control*. doi: 10.1136/tobaccocontrol-2021-056626. Epub 2021/09/07. PMID: 34493630.
71. Jabba SV, Erythropel HC, Torres DG, Delgado LA, Woodrow JG, Anastas PT, Zimmerman JB, **Jordt SE**. [Synthetic Cooling Agents in US-marketed E-cigarette Refill Liquids and Popular Disposable Cigarettes: Chemical Analysis and Risk Assessment](#). *Nicotine Tob Res*. 2022 Feb 15:ntac046. doi: 10.1093/ntr/ntac046. Online ahead of print. PMID: 35167696.
72. Marcus AD, Achanta S, **Jordt SE**. [Protocol for non-invasive assessment of spontaneous movements of group-housed animals using remote video monitoring](#). *STAR Protoc*. 2022 Apr 14;3(2):101326. doi: 10.1016/j.xpro.2022.101326. eCollection 2022 Jun 17. PMID: 35479115; PMCID: PMC9036393.
73. Leventhal AM, Tackett AP, Whitted L, **Jordt SE**, Jabba SV. [Ice flavours and non-menthol synthetic cooling agents in e-cigarette products: a review](#). *Tob Control*. 2022 Apr 28:tobaccocontrol-2021-057073. doi: 10.1136/tobaccocontrol-2021-057073. Online ahead of print. PMID: 35483721.

74. Rezk-Hanna M, Talhout R, **Jordt SE**. [Sugars and Sweeteners in Tobacco and Nicotine Products: FDA Regulatory Implications](#). *Nicotine Tob Res*. 2022 Sep 23;ntac222. doi: 10.1093/ntr/ntac222. Online ahead of print. PMID: 36148496.
75. Rebuli ME, Rose JJ, Noël A, Croft DP, Benowitz NL, Cohen AH, Goniewicz ML, Larsen BT, Leigh N, McGraw MD, Melzer AC, Penn AL, Rahman I, Upson D, Crotty Alexander LE, Ewart G, Jaspers I, **Jordt SE**, Kligerman S, Loughlin CE, McConnell R, Neptune ER, Nguyen TB, Pinkerton KE, Witek TJ Jr. [The E-cigarette or Vaping Product Use-Associated Lung Injury Epidemic: Pathogenesis, Management, and Future Directions: An Official American Thoracic Society Workshop Report](#). *Ann Am Thorac Soc*. 2023 Jan;20(1):1-17. doi: 10.1513/AnnalsATS.202209-796ST. PMID: 36584985; PMCID: PMC9819258

## Book Chapters

1. **Jordt, SE** TRPV1, Regulation by Protons. In Gebhardt GF, Schmidt RF, editors. Encyclopedia of Pain., Berlin, Springer. 2013. pp. 2575-2578
2. **Jordt, SE** TRPV1, Regulation by Nerve Growth Factor, *ibid.* , pp. 2574-2575
3. Blair NT, Carvacho I, Chaudhuri D, Clapham DE, DeCaen P, Dellling M, Doerner JF, Fan L, Grimm CM, Ha K, **Jordt SE**, Julius D, Kahle KT, Liu B, McKemy D, Nilius B, Oancea E, Owsianik G, Riccio A, Sah R, Stotz SC, Tian J, Tong D, Van den Eynde C, Vriens J, Wu LJ, Xu H, Yue L, Zhang X, Zhu MX. [Transient Receptor Potential channels \(TRP\)](#) in GtoPdb v.2022.1. IUPHAR/BPS Guide to Pharmacology CITE. 2022; 2022(1). <https://doi.org/10.2218/gtopdb/F78/2022.1> .
4. Krishnan-Sarin S, Green B, Jordt SE and O'Malley S. [The Science of Flavor in Tobacco Products](#) . in: World Health Organization, Report on the scientific basis of tobacco product regulation, Technical Report Series, no. 1015 (2019) . ISBN: 978924121024-9 , pg. 125-42

## Consultant appointments: (Include US government, state, private organizations, etc.)

2006-18 Member, Scientific Advisory Board, Hydra Biosciences LLC, Cambridge, MA

2008 Forrest Laboratories, LLC, Jersey City, NJ

2008 Health Effects Institute, Research Planning Workshop, Boston, MA

2009 Ono Pharmaceuticals, Japan

2011 Cubist Pharmaceuticals, Lexington, MA

2011 Boehringer Ingelheim, Biberach, Germany

2011 Abbott Laboratories, Chicago, IL

2018 Sanofi, Cambridge, MA

## Invited Lectures and Workshops

- 07.2006 13th Annual Environmental Health Sciences Symposium Dates: July 12-13, 2006, Mt. Desert Island Marine Laboratory, ME
- 01.2007 University of Southern California, Molecular Biology Seminar Series, Los Angeles, CA
- 01.2007 Department of Cell Biology, Neurobiology & Anatomy, Medical College of Wisconsin, Milwaukee, WI
- 04.2007 Health Effects Institute, Annual Meeting, Chicago
- 04.2007 NIH Countermeasures against Chemical Threats Network Symposium, Washington, DC
- 05.2007 University of Connecticut Health Sciences Center, Farmington, CT
- 09.2007 International Society for Environmental Epidemiology, Mexico City, Mexico
- 09.2007 University of Alabama in Birmingham, Department of Anesthesiology Seminar Series
- 09.2007 American Academy of Physical Medicine and Rehabilitation, Boston, MA (CME)
- 01.2008 Forest Research Institute, Pharmacology, Jersey City, NJ
- 03.2008 Society of Toxicology Annual Meeting, Seattle, WA (CME)
- 04.2008 NIH Countermeasures against Chemical Threats Network Symposium, Washington, DC
- 04.2008 International Society for Nephrology - Forefronts Symposium on Polycystic Kidney Disease (PKD), Montreal, Canada
- 04.2008 Spring Pain Conference, Grand Cayman
- 05.2008 American Asthma Foundation, Annual Meeting, San Francisco, CA
- 06.2008 German-American Frontiers of Science Symposium, Humboldt Foundation, National Academy of Sciences USA, Potsdam, Germany
- 06.2008 Max-Delbrück Center, Research Institute for Molecular Pharmacology, Berlin, Germany
- 10.2008 Society for Neuroscience, Annual Meeting, Minisymposium, Washington, DC (Chair)
- 01.2009 Humboldt University, Department of Physiology, Berlin, Germany
- 02.2009 Duke University, Ion Channel Research Unit Seminar Series, Durham, NC
- 02.2009 National Institute of Environmental Health Sciences, Laboratory of Respiratory Biology (LRB) Lecture Series, Durham, NC
- 04.2009 NIH Countermeasures against Chemical Threats Network Symposium, Washington, DC
- 05.2009 American Asthma Foundation, Annual Meeting, San Francisco, CA
- 06.2009 Aspen Lung Conference, Aspen, CO
- 06.2009 University of Cincinnati, Department of Environmental Health Seminar Series, Cincinnati, OH

09.2009 Life Sciences Summit, University of Stony Brook, NY

09.2009 Lovelace Biomedical and Environmental Research Institute, Second Lovelace CounterACT-CRCE Research Symposium , Albuquerque, NM

03.2010 Society of Toxicology Annual Meeting, Symposium on TRP channel function in chemical sensing (Chair), Salt Lake City, UT

04.2010 Annual Meeting and Conference of the Canadian Society of Biochemistry, Molecular and Cellular Biology, Banff, Canada

05.2010 American Asthma Foundation, Annual Meeting, San Francisco, CA

06.2010 NIH Countermeasures against Chemical Threats Network Symposium, San Francisco, CA

06.2010 Sixth International Cough Symposium, London, UK

06.2010 Ion Channel Retreat, Vancouver, BC, Canada

09.01.2010 National Advisory Environmental Health Sciences Council (NAEHSC), National Institute of Environmental Health Sciences, Research Triangle Park, NC

09.24.2010 TRP Ion Channel Conference, Leuven, Belgium

10.12.2010 Environmental Chemical Threats and Lung Injury: Mechanisms and Countermeasures (CME Workshop), Harvard-Cyprus Initiative for Environment and Public Health, Limassol, Cyprus

10.16.2010 102<sup>nd</sup> International Titisee Symposium, Boehringer Ingelheim Foundation, Neustadt/Titisee, Germany

11.04.2010 European Rhinitis and Asthma Meeting ERAM, Brussels, Belgium

11.29.2011 University of Vermont Medical College, Burlington, Department of Environmental Pathology

05.2011 American Asthma Foundation, Annual Meeting, San Francisco, CA

06.2011 NIH Countermeasures against Chemical Threats Network Symposium, Washington, DC

11.14.2010 Society for Neuroscience, San Diego, CA

02.16.2011 Society for Research on Nicotine and Tobacco (SRNT), Annual Meeting, Toronto

05.12.2011 American Asthma Foundation, Annual Meeting, San Francisco, CA

06.23.2011 NIH Countermeasures against Chemical Threats Network Symposium, Washington, DC

10.03.2011 UMDNJ, New Jersey Medical School, Pharmacology & Physiology, Newark, NJ

10.05.2011 University of Connecticut, Pharmaceutical Sciences, Storrs, CT

11.12.2011 Society for Neuroscience, Annual Meeting, Washington, DC

01.30.2012 Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

03.12.2012 Society of Toxicology Annual Meeting, San Francisco, CA

04.25.2012 Columbia University Medical Center, Skin Disease Research Center, New York, NY

05.20.2012 American Thoracic Society, Annual Meeting, San Francisco, CA (CME)

06.01.2012 Neurocolloquium, Charite School of Medicine, Berlin, Germany

06.27.2012 NIH Countermeasures against Chemical Threats Network Symposium, San Francisco, CA

05.19.2012 American Thoracic Society, Annual Meeting, Philadelphia, PA (CME)  
09.08.2012 Society of General Physiologists, 66<sup>th</sup> Annual Symposium, MBL, Woods Hole, MA  
09.12.2012 International Workshop on Transient Receptor Potential Ion Channels, Valencia, Spain  
03.14.2013 Society for Research on Nicotine and Tobacco (SRNT), Annual Meeting, Boston  
03.26.2013 University of Alabama, Birmingham, Dept. of Anesthesiology  
04.12.2013 Brown University, Department of Molecular Pharmacology, Physiology and Biotechnology  
08.28.2013 University of Pittsburgh, Dept. of Environmental Health, Center for Pain Research  
09.04.2013 University of Vermont, Dept. of Pharmacology, Burlington, VT  
09.16.2013 Case Western Reserve University, Dept. of Pharmacology, Cleveland, OH  
03.27.2014 Monell Chemical Senses Center, Philadelphia, PA  
06.17.2014 NIH Countermeasures against Chemical Threats Network Symposium, Denver, CO  
07.01.2014 Outstanding Environmental Scientists Symposium, NIEHS, Raleigh, NC  
09.18.2014 Society for Research on Nicotine and Tobacco Europe, Santiago de Compostela, Spain  
10.02.2014 University of North Carolina, Cell Biology & Physiology, Chapel Hill, NC  
02.20.2015 FDA Center for Tobacco Products (FDA-CTP), Bethesda, MD  
02.25.2015 FDA Workshop on Tobacco Regulatory Science at Society for Research on Nicotine and Tobacco Annual meeting, Philadelphia, PA  
05.20.2015 American Thoracic Society, NIEHS Session, Environmental Chemicals, Denver, CO  
06.02.2015 FDA 3<sup>rd</sup> Public Workshop on Electronic Cigarettes, College Park, MD  
06.15.2015 NIH Countermeasures against Chemical Threats Network Symposium, New York, NY  
11.05.2015 Science Day, National Institute of Environmental Health Sciences (NIEHS), Raleigh, NC  
03.14.2016 Society of Toxicology, Workshop on TRP Ion Channels, New Orleans, LA  
05.16.2016 American Thoracic Society, Symposium of the Terrorism and Inhalation Disaster Section (Organizer), San Francisco, CA  
06.15.2016 NIH Countermeasures against Chemical Threats Network Symposium, Davis, CA  
09.08.2016 Tobacco Center of Regulatory Science Retreat, University of North Carolina, Chapel Hill, NC  
09.29.2016 International Symposium on TRP Ion Channels, Munich, Germany  
02.22.2017 Depts. of Immunology, Neuroscience, Genentech, South San Francisco, CA  
03.08.2017 Department of Biochemistry, University of Florence, Italy  
03.09.2017 FDA Symposium at Society for Research on Nicotine and Tobacco International Meeting, Florence, Italy  
03.10.2017 Podium Presentation, Society for Research on Nicotine and Tobacco International Meeting, Florence, Italy  
04.05.2017 Medical Chemical Defense Conference, German Armed Forces University, Munich, Germany  
04.27.2017 Association for Chemosensation Sciences Annual Meeting, Bonita Springs, FL

06.01.2017 Department of Physiology, University of Tennessee Health Science Center, Memphis, TN

06.12.2017 NIH Countermeasures against Chemical Threats Network Symposium, Boston, MA

06.18.2017 Department of Neurobiology, Zhejiang Chinese Medical University, Hangzhou, China

06.21.2017 Translational Pain Research Symposium, Duke Kunshan University, China

11.11.2017 Nanosymposium: Touch, Itch & Pain, Society for Neuroscience Annual Meeting, Washington, DC

11.12.2017 Minisymposium: Peripheral Neural Modulation of Inflammation, Society for Neuroscience Annual Meeting, Washington, DC

02.23.2018 Symposium: Cooling Agents, Flavors and Nicotine: Additives or Drugs ? Society for Research on Nicotine and Tobacco Annual Meeting, Baltimore, MD

03.22.2018 Virginia Conference on Youth Tobacco Use, Virginia Commonwealth University, Richmond, VA

04.27.2018 Strategic Asthma Basic Research Center (SABRE), University of California, San Francisco, CA

08.18.2018 Department of Molecular Biomedical Sciences, NC State Veterinary Medicine, Raleigh, NC

09.08.2018 Oral Session: Biological Impact of Tobacco Smoke and E-Vapor (Chair, Speaker), Society for Research on Nicotine and Tobacco Europe (SRNT-E) Annual Meeting, Munich

11.15.2018 Organization for the Prohibition of Chemical Weapons (OPCW), Temporary Working Group on Investigative Science and Technology Meeting, The Hague, The Netherlands

12.18.2018 Workshop Sensory Pharmacology, Sanofi, Cambridge, MA

03.05.2019 Gordon Research Conference - Chemical and Biological Terrorism Defense, Ventura, CA

03.13.2019 Leading Edge in Basic Science Award Lecture, Annual Meeting, Society of Toxicology, Baltimore, MD

03.26.2019 Inflammation Resolution Biology Workshop, National Institute of Environmental Health Sciences (NIEHS), RTP, NC

04.24.2019 A Tobacco Regulatory Agenda for Vulnerable and Disparate Groups: Developing a Blueprint for Research, Policy, and Regulatory Standards, University of Arkansas Little Rock, AK

05.19.2019 Chair, Minisymposium Chemical Threats and Injury: Mechanisms and Treatment, American Thoracic Society, Annual Meeting, Dallas, Tx

05.23.2019 Toxicology Graduate Program Seminar Series, Department of Pharmacology, LMU University Munich, Germany

11.17.2019 International Forum for the Study of Itch (IFSI), Annual Meeting, Sydney, Australia

02.25.2020 Department of Anatomy and Physiology, College of Veterinary Medicine. Kansas State University, Manhattan, KS

03.03.2020 Symposium: Molecular Mechanisms of Chemical Sensing, 5<sup>th</sup> German PharmTox Summit, German Society for Pharmacology and Toxicology (DGPT). Leipzig, Germany

08.05.2020 Co-Chair Symposium: Emerging Dangers from E-cigarettes: Let's Have a Vape Debate, American Thoracic Society, Annual Meeting, remote

- 09.01.2020 European Respiratory Society (ERS), Annual Meeting
- 03.01.2021 Center for Research on Flavored Tobacco, University of Rochester, NY
- 04.12.2021 Association of Chemosensation Scientists (AChemS), Annual Meeting
- 04.16.2021 Gulf Coast Consortia 2021 Pain Workshop, MD Andersen Cancer Center, Houston, TX
- 06.09.2021 20 Years of TRPV4, American Physiological Society
- 10.19.2021 Tobacco Regulatory Science (TRS) annual meeting, FDA & NIH
- 03.17.2022 Co-Chair Symposium: *“Keeping it real about synthetic nicotine: Products, patents, perceptions and policies”*, Society for Research on Nicotine and Tobacco, Annual Meeting, Baltimore, MD
- 06.21.2022 15<sup>th</sup> NIH Countermeasures against Chemical Threats (CounterACT) Network Symposium, New Orleans, LA. *“Advanced TRPA1 Inhibitors for the Treatment of Chlorine Inhalation Injury”*
- 06.23.2022 WHO and EU Technical Workshop on Novel and Emerging Nicotine and Tobacco Products Experiences, Copenhagen, Denmark (remotely), *“Synthetic nicotine – Properties and Science, including its chemistry, metabolism and pharmacological effects”*
- 10.24.2022 NIH/FDA Tobacco Centers of Regulatory Science (TCORS) Grantee Meeting, Bethesda, MD, Plenary Presentation: *“Aversion and Preference in Mice Towards Nicotine Enantiomers in Synthetic Nicotine”*
- 12.13.2022 Eleventh Meeting of the WHO Study Group on Tobacco Product Regulation, Tblisi, Georgia *“Synthetic nicotine and cooling agents: Basic Pharmacology and Actions During Tobacco Product Use”*

## **Major Lectures, Seminars, Workshops at School of Medicine**

### ***Yale School of Medicine***

- 04.21.2006 Lung Biology Seminar Series, Pulmonary Section, Department of Internal Medicine
- 10.25.2007 Developmental Therapeutics Conference, Yale Cancer Center
- 12.04.2007 Vascular Biology and Therapeutics Seminar, VBT Program (CME)
- 02.18.2009 Center for Neuroscience and Regeneration Research, VA Hospital, West Haven
- 02.20.2009 Lung Inflammation Group, Pulmonary Section / Dept. of Immunobiology
- 03.30.2010 Pulmonary Research Conference, Pulmonary Section, Department of Internal Medicine
- 09.17.2010 Lung Inflammation Group, Pulmonary Section / Dept. of Immunobiology
- 11.22.2010 Biological Sciences Training Program (BSTP) Lecture / Dept. of Psychiatry
- 02.13.2012 Pierce Laboratories Seminar Series

### ***Duke University School of Medicine***

- 07.16.2014 Duke Pain Seminar



10.01.2014 Duke Integrated Toxicology and Environmental Health Program (ITEHP)  
01.20.2016 Grand Rounds, Department of Anesthesiology  
09.11.2017 Department of Pharmacology, Seminar  
10.08.2018 Center for Perioperative Organ Protection Seminar, Department of Anesthesiology  
01.08.2019 Pinnell Center for Investigative Dermatology, Department of Dermatology  
09.27.2019 Duke Integrated Toxicology and Environmental Health Program (ITEHP)

## External support - gifts, grants, and contracts:

### Past:

Agency: Health Effects Institute (HEI)

ID#: -

Title: Ion Channels in Airway Sensory Nerve Endings as Mediators of the Irritant Effects of Acrolein

P.I.: Sven-Eric Jordt, Ph.D.

Grant period: 05/01/2006-04/31/2007

Agency: Department of Public Health, State of Connecticut

ID#: 2007-0161 BIOMED

Title: Sensory Irritant Receptors in the Pathogenesis of Smoking-Induced Lung Disease

P.I.: Sven-Eric Jordt, Ph.D.

Grant period: 07/01/2006-12/31/2008

Agency: American Asthma Foundation (formerly Sandler Foundation for Asthma Research)

ID#: -

Title: [Sensory Chemoreceptors in Asthma and Airway Hyperresponsiveness](#)

P.I.: Sven-Eric Jordt, Ph.D.

Project period: 08/01/2007 – 07/31/2010

Agency: American Asthma Foundation (formerly Sandler Foundation for Asthma Research)

ID#: [10-JORD-EX1](#)

Title: Sensory Chemoreceptors in Asthma and Airway Hyperresponsiveness (Extension)

P.I.: Sven-Eric Jordt, Ph.D.

Project period: 07/01/2010 – 06/30/2011

Agency: NIH/NINDS

ID#: [R21NS058330](#)

Title: Novel Analgesics from Australian Funnel-Web Spider Venom

P.I.: Michael Nitabach, Ph.D., J.D., Department of Physiology, Yale University School of Medicine

Role: Co-PI

Project period: 05/15/2009 – 04/30/2011

Agency: NIH/NIEHS  
ID#: [U54ES017218](#)  
Title: Mechanisms of Chlorine Hypersensitivity in Asthma (Sub-project)  
P.I.: Sadis Matalon, Ph.D., University of Alabama, Birmingham, AB  
Role: Project leader  
Project period: 09/01/2008 – 08/31/2011

Agency: NIH/NIEHS  
ID#: [U01ES015674-07S1](#) (Supplement)  
Title: Targeting Injury Pathways to Counteract Pulmonary Agent and Vesicant Toxicity  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 09/01/2012 – 05/31/2013

Agency: NIH/NIEHS  
ID#: [R01ES015056](#)  
Title: TRPA1 Channels in Sensory Neurons as Targets for Environmental Irritants  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 09/01/2006 – 10/31/2013

Agency: NIH/NIEHS  
ID#: [R21ES022875](#)  
Title: Accelerating Inflammation Resolution to Counteract Chemical Injury  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 09/19/2012 – 08/31/2015

Agency: NIH/NHLBI  
ID#: [R01HL105635](#)  
Title: Counterirritation by Menthol: Molecular Targets and Role in Airway Disease  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 01/01/2011 – 12/31/2015

Agency: NIH/NHLBI  
ID#: [R01HL105635-02/03S1](#) (Supplement)  
Title: Counterirritation by Menthol: Molecular Targets and Role in Airway Disease  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 09/14/2012 – 12/31/2015

Agency: NIH/NIDA/FDA  
ID#: [P50DA036151](#)  
Title: Project 1: Effects of Flavors on Nicotine Choice and Central Reward  
P.I.: Suchitra Krishnan-Sarin, Stephanie O'Malley (Yale University)

Role: Project Director  
Project period:09/30/2013 – 08/31/2018

Agency: NIH/NIDA/FDA  
ID#: [P50DA036151-03S1](#) (Supplement)  
Title: Irritant Flavor Products in Heated E-Cigarette Liquids and Vapors  
P.I.: Suchitra Krishnan-Sarin, Stephanie O'Malley (Yale University)  
Role: Supplement Subcontract PI  
Project period:09/01/2015 – 08/31/2016

Agency: NIH/NIEHS  
ID#: [U01ES015674](#)  
Title: Targeting Injury Pathways to Counteract Pulmonary Agent and Vesicant Toxicity  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period:09/29/2006 – 05/31/2018

Agency: NIH/NIAMS  
ID#: [R21AR070554](#)  
Title: Mechanisms of Itch in Poison Ivy-Induced Allergic Contact Dermatitis  
P.I.: Sven-Eric Jordt, Ph.D.  
Project period: 07.01.2016-06.30.2018

Agency: NIH/NIEHS  
ID#: [U54ES027698](#)  
Title: Development of Antidotes for Toxic Gases  
P.I.: Carl White, M.D.  
Role: Significant Contributor (Subcontract)  
Percent Effort: 10.0%  
09/30/2016-08/31/2021

Agency: NCCIH  
ID#: [P01AT009968](#)  
Title: Resolution of Neuroinflammation and Persistent Pain by Complementary Approaches  
P.I.: William Maixner, D.D.S., Ph.D.; Mathew, Joseph, M.D.  
Role: Multi-PI, Project 3; PI, Molecular Core  
Project Period: 04.20.2020 – 12.31.2021

Agency: NIH/NIEHS  
ID#: [R01ES029435](#)  
Title: Anesthetic and synthetic cooling flavors in E-cigarettes: Chemistry and respiratory effects modulating nicotine intake  
Role: PI  
Percent Effort: 21%

Direct costs per year: \$367,500  
Total costs for project period: \$1,480,438  
Project period: 08/01/2018 – 07/31/2022

### **Currently active:**

Agency: NIH/NIDA  
ID#: [R56DA055996](#)  
Title: Nicotine Pouches: Chemical Composition, Toxicity and Behavioral Effects of a New Tobacco  
Product Category  
Role: PI  
Project period: 09/15/2022 – 08/31/2023

Agency: NIH/NIEHS  
ID#: [R01ES034387](#)  
Title: Pulmonary cell fate and lung repair in rodent and porcine models of chlorine and phosgene inhalation injuries  
Role: Multi-PI  
Project period: 09/02/2022 – 08/31/2025

Agency: NIH / NIEHS  
ID#: [U01ES030672](#)  
Title: Advanced TRPA1 Inhibitor for the Treatment of Chlorine Inhalation Injury  
Role: Multi-PI  
Project period: 07/01/2019-06/30/2023 (in no-cost extension)

Agency: NIH / NIEHS  
ID#: [R21ES030331](#)  
Title: Specialized pro-resolving mediators as potential medical countermeasures in a pig model of chlorine gas-induced acute lung injury  
Role: Multi-PI  
Project period: 07/01/2020-06/30/2023

Agency: NIH/NIDA/FDA  
ID#: [U54DA036151](#)  
Title: Yale Center for the Study of Tobacco Product Use and Addiction: Flavors, Nicotine and Other Constituents (YCSTP)  
P.I.: Suchitra Krishnan-Sarin, Ph.D., Stephanie O'Malley, Ph.D.  
Role: Project Co-Director, Project 1 (subcontract from Yale University)  
Project period: 09/01/2018 – 08/31/2023

## **NIH grant reviewing activity**

2009 ZRG1-F02B-Y-20L (NRSA Fellowship Applications, NIH Center for Scientific Review)

09.29.-09.30.2010 ZRG1-IFCN-B-03M, Internet assisted review (R01 applications in sensory biology)

02.22-02.23.2011 ZRG1-IFCN-B-51, Internet assisted review (R01 applications in sensory biology)

06.01-06.02.2011 ZRG1-IFCN-B-02M , Internet assisted review (R01 applications in sensory biology)

03.22.2012 Member, MDCN J54 / J50, CounterACT special emphasis panel, Alexandria, MD

07.19.-07.20.2012 ZAT1 SM (25), NCCAM, Internet assisted review (Asthma mechanisms)

10.22.2012 NIH Intramural Center for Tobacco Regulatory Science

01.31.2013 ZDC1 SRB-R (39). Clinical Research Center Grants (P50), FDA-sponsored tobacco regulatory research

03.19.2013 ZRG1 MDCN-J54 / J50 CounterACT special emphasis panel, Washington, DC

06.04.2013 ZRG1 MDCN-B(55) CounterACT special emphasis panel, Washington, DC

07.11.2014 ZRG1 MDCN-B(55) CounterACT special emphasis panel, Washington, DC

07.16.2015 ZRG1 MDCN-B(55) CounterACT Special Emphasis Panel, Baltimore, MD

07.08.2016 ZRG1 MDCN-B(55) CounterACT Special Emphasis Panel, Baltimore, MD

06.21.2018 ZRG1 MDCN-B(55) CounterACT Special Emphasis Panel, Baltimore, MD

12.04-05.2018 ZRG1-CVRS-N(03): R21 and R01 applications on Electronic Nicotine Delivery Systems: Basic Mechanisms of Health Effects

03.22-23 2019 NIH-CSR-RES SEP-ZRG1 CVRS-H: R21 and R01 applications on Electronic Nicotine Delivery Systems: Basic Mechanisms of Health Effects.

03.27.2019 NCCIH Training and Education Review Panel (CT) Review Panel (ZAT1 AJT 10)

05.30.2019 2019/08 ZRG1 BST-T (55) R RFA Panel: Tobacco Regulatory Biomedical Science - Basic

10.11.2019 ZGM1 RCB-5 (SC) S, NIGMS Support of Competitive Research (SCORE) Program

07.09.2020 ZRG1 F02B-E 20 L, Fellowships: Sensory and Motor Neuroscience, Cognition and Perception

11.03.-04.2020 CounterACT R21s 202101 ZRG1 MDCN-B (55) R

12.17.-18.2020 NIH-CSR-E-Cigarettes-Basic Mechanisms of Health Effects ZRG1 CVRS-H 50R

03.17.-18.2021 ZAT1 JM (12) R SEP the NIH Blueprint for Neuroscience Research: Functional Neural Circuits of Interoception (R01, Clinical Trial Not Allowed) (NCCIH)

06.08.2021 2021-10 ZES1 LWJ-S (IR) 1 Mechanisms Mediators of Environmentally Induced Inflammation

12.14.-15.2021 ZRG1 CVRS-N(50) Electronic Nicotine Delivery Systems: Basic Mechanisms of Health Effects

03.09.2022 K01-K99 ZRG1 VH-K (90) ENDS & Tobacco Use Special Emphasis Panel

## **Grant reviewing for international funders:**

07.02.2019 Science Foundation Ireland research grant renewal review, Dublin, Ireland

## **Participation in academic and administrative activities of the University and Medical Center**

2014- Department of Anesthesiology, Research Council

2015- Research Progress Update (RPU) Committee

The RPU Committee meets with and reviews the progress of the Department's T32 training grant trainees, junior faculty supported by foundation grants, K awards and R21 awards, and provides advice to their mentors and the Department Chair.

2016 Search Committee, Vice Chair of Research, Department of Anesthesiology

2016 Search Committee, Basic Science Division Chief, Department of Anesthesiology

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2017- Reviewer for Duke Bridge Funding Committee

2018- Member, Appointments, Promotion and Tenure (APT) Committee, Department of Anesthesiology

Reviewing dossiers of faculty applicants, promotion and tenure candidates. Providing recommendations to committee chair and Department Chair. Advising and mentoring of faculty on promotion criteria, CV and dossier preparation, referee selection and other relevant topics.

2019- Associate Research Quality Officer, Department of Anesthesiology

As Associate Research Quality Officer I work with the Duke Office of Scientific Integrity (DOSI) and the Research Quality Team of the Anesthesiology Department to update and implement University policies on research integrity and quality and the Department's Science Culture and Accountability Plan. Tasks include addressing research integrity concerns, keeping research faculty and staff informed of relevant updates to institutional policies and procedures, assisting the research faculty with data management plans (DMP), and ensuring responsible conduct of research (RCR), SCRI, and other research-related training compliance. I am promoting the implementation of an electronic laboratory notebook system (LabArchives) in the Department's basic research laboratories, with a high rate of compliance achieved. I am also advising basic research laboratories on the implementation of Open Science practices.

2022- Search Committee, Tobacco Research Faculty, Duke Cancer Institute

## List of Basic Science Courses Taught

At Yale School of Medicine:

Course	Role	Academic Year / hours									
		2005-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15
Bioethics in Neuroscience NSCI 580b [G]	Lecturer	8	3	-	-	3	-	-	-	-	-
Pharmacology 504A [G]	Lecturer	-	16	24	14	10	12	12	12	12	-
Pharmacology 504A [G]	Group discussion leader	-	-	-	-	8	8	8	8	8	-
Seminar in Pharmacology 502 [G]	Course Director	-	45	-	-	-	-	-	40	40	-
Neuropharmacology 508b [G]	Lecturer	-	12	4	4	4	4	4	-	-	-
Principles of Neuroscience NSCI 501a [G]	Lecturer/ Group Discussion Leader	-	-	15	-	-	-	-	-	-	-
Pharmacology, Ethics and responsible conduct in research [G]	Group discussion leader	-	-	-	-	20	4	4	-	-	-
Pharmacology 501 [M]	Lecturer/ conference leader	5	8	22	20	20	20	20	20	-	-
Pharmacology 560b [C]	Lecturer	-	-	-	-	-	-	-	12	-	-
Pharmacology Graduate Student Laboratory Rotations	Preceptor	-	20	-	40	-	20	20	-	-	-

Pharmacology Graduate Student Qualifying Exams	Committee member	16	-	-	-	-	-	-	-	-	-
Interdepartmental Neuroscience Program Rotations [G]	Preceptor	-	-	-	20	-	-	-	-	-	-
MSTP Rotations [G][M]	Preceptor	-	-	-	20	-	-	-	-	-	-
Regulatory & Scientific Issues of Tobacco Use CDE582	Lecturer										8

**At Duke University School of Medicine:**

		Academic Year / hours			
Course	Role	2017-8	2018-19	2019-20	2020-21
Cellular Signaling- CBI/PHARM/BIOCHEM/MOLCAN 761-1,-2,-3 Module I, II, III	Lecturer	16	16	16	
PHARM.533.01.F20 Essentials of Pharmacology and Toxicology	Lecturer				8