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**Educational History (reverse chronological order):**

Degree earned: Ph.D.

Date of Graduation: 5/12/2007

Granting Institution: State University of New York at Buffalo, Buffalo, NY

Major Field of Study: Communication Disorders and Sciences

Dissertation Title: Effects of carboplatin-induced inner hair cell loss on auditory perception in chinchilla

Dissertation Advisor: Richard Salvi, Ph.D., Director of the Center for Hearing and Deafness

Degree earned: M.A.

Date of Graduation: 5/10/2004

Granting Institution: State University of New York at Buffalo, Buffalo, NY

Major Field of Study: Audiology

Degree earned: B.S.

Date of Graduation: 5/20/1996

Granting Institution: Rutgers University, The State University of New Jersey, Piscataway, NJ

Major Field of Study: Experimental Psychology and Biology

**Employment History – principal positions since the Bachelor’s degree (reverse chronological order):**

Professor, 2021-present, Department of Speech, Language and Hearing, School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Associate Professor, 2015-2021, Audiology Program, School of Behavioral and Brain Sciences, The University of Texas at Dallas, Richardson, TX

Assistant Professor, 2012-2015, Department of Speech Language and Hearing Sciences, School of Public Health and Health Professions, University of Florida, Gainesville, FL

Assistant Research Professor, 2006-2012, State University of New York at Buffalo, Center for Hearing and Deafness, Buffalo, NY

Clinical Audiologist, 2004-2012, Hearing Evaluation Services of Buffalo, Amherst, NY

Senior Research Technician, 1996-1999, Department of Biopsychology and Behavioral Neuroscience, Rutgers University, NJ

**Employment History – concurrent temporary or visiting appointments, consultantships :**

Associate Professor courtesy appointment, 2015-present, Department of Otolaryngology, UT Southwestern Medical Center, Dallas, TX

Expert witness for tinnitus and hearing loss, The People's Law Firm, 2013-present, 4705 Oakland St, Unit A Denver, CO 80239

Expert witness for tinnitus and hearing loss, 2012-present, Koskoff, Koskoff & Bieder, 350 Fairfield Ave. Bridgeport, CT 06604.

Expert witness for tinnitus and hearing loss, Zdarsky, Sawicki, & Agostinelli, LLP, 2011-present , 404 Cathedral Place, 298 Main Street, Buffalo, NY 14202

### **Professional recognitions and honors**

Minority research award in basic science, 2000, National Institute of Health NIDCD

Jack Katz Award for research on central auditory processing disorders, 2002, University at Buffalo

Post-Doctoral Fellowship, 2006, Auris Medical Cochlear Therapies, Switzerland

Jerger Future Leaders of Audiology (JFLAC), 2014, American Academy of Audiology

Top 5 most highly cited papers 2014-2016, 2016, Hearing Research (Journal)

Successfully obtained approval for an Agreement of Cooperation (AOC) between UT Dallas BBS and the School of Medicine, Sapienza University of Rome (Sapienza), Italy, 2020

Award for Professional Research Poster, American Academy of Audiology Conference 2021

### **Professional memberships:**

Member of the Association for Research in Otolaryngology, 2003-Present

Member of the American Speech-Language-Hearing Association, 2006-Present

Fellow of the American Academy of Audiology, 2006-Present

### **Achievements in original investigation:**

#### **Books authored or co-authored, etc.: (reverse chronological order)**

1. Trevino, M., Trehan, A., Escabi, C., and Lobariñas, E, Recent Advancements in Understanding the Mechanisms of Noise/Music Induced Tinnitus. In: Deshpande, A.K., Hall III, J.W. (Eds.), Recent Advancements in Tinnitus (Ch. 1). Plural Publishing, Inc., July, 2021
2. Bielefeld, E., Escabi, C., Trevino, M. and Lobarinas, E., Noise-Induced Hearing Loss and Drug Therapy: Basic and Translational Science in New Therapies to Prevent or Cure Auditory Disorders, 2020, 978-3-030-40412-3, 469459\_1\_En, Sylvie Pucheu et al. (Eds), Springer Nature

3. Allman, B.L., Schormans, A.L., Typlt, M., and Lobarinas, E. 2016, Past, Present, and Future Pharmacological Therapies for Tinnitus. In Le Prell, C. G., Lobarinas, E., Fay, R. R., and Popper, A. N. *Translational Research in Audiology and the Hearing Sciences*, Springer Handbook of Auditory Research, New York: Springer. Submitted to publisher
4. Montgomery, S.C., Bauer, C.A., and Lobarinas, E., 2016, Sudden Sensorineural Hearing Loss. In Le Prell, C. G., Lobarinas, E., Fay, R. R., and Popper, A. N. *Translational Research in Audiology and the Hearing Sciences*, Springer Handbook of Auditory Research, New York: Springer. Submitted to publisher
5. Le Prell, C. G. and Lobarinas, E., 2015, Strategies for assessing antioxidant efficacy in clinical trials. To be published in Miller, J., Le Prell, C. G., Rybak, L., and Armstrong, D., *Free Radicals in ENT Pathology, Oxidative Stress in Applied Basic Research and Clinical Practice*, New York: Springer.
6. Salvi, R.J., Lobarinas, E., Chen, G.D., Stolzberg, D., Ding, D., 2011, Animal Models of Hearing Loss and Tinnitus. In: Hau, J., Schapiro, S.J., (Eds.), *Handbook of Laboratory Animal Science*, Vol. 2, Third Edition, Taylor & Francis Group, Boca Raton, Florida. pp. 419-448.
7. Salvi, R.J., Lobarinas, E., Sun, W., 2010, Behavioral Animal Models of Tinnitus, Pharmacology, and Treatment, In: Moller, A., Langguth, B., DeRidder, D., Kleinjung, T., (Eds.), *Textbook of Tinnitus*, Springer, New York. pp. 133-144.
8. Salvi, R.J., Lobarinas, E., Sun, W., 2009, Imaging tinnitus activity in the brain. In: Del Bo, L., (Ed.), *Acufene: come sopravvivere*, Tecniche Nuove, Milano, Italy. pp. 111-124.
9. Salvi, R., Lobarinas, E., Sun, W., 2008, Overview of anatomy and physiology of the peripheral auditory system. In: Chaisin, M., (Ed.), *Hearing Loss and Musicians*, Plural Publishers, San Diego.
10. Salvi, R., Sun, W., Lobarinas, E., 2007, Anatomy and physiology of the peripheral auditory system. In: Roeser, R., Hosford-Dunn, H., Valente, M., (Eds.), *Audiology Diagnosis*, Thieme, New York. pp. 17-36.
11. McFadden, S.L., Ding, D., Lobarinas, E., Salvi, R.J. 2005, "Superoxide and Acquired Hearing Loss". In: Salvemini, D., Cuzzocrea, S., (Eds.), *Therapeutic Applications of Superoxide Dismutase and its Mimetics*. Eureka/Landes Bioscience. pp. 1-23.

#### **Books edited or co-edited; exhibitions curated, etc.:**

Le Prell, C. G., Lobarinas, E., Fay, R. R., and Popper, A. N, 2016, *Translational Research in Audiology and the Hearing Sciences*, Springer Handbook of Auditory Research, 2017, New York: Springer.

#### **Journal special issues edited or co-edited, etc.:**

Lobarinas E., Salvi, R., Baizer, J. Altman, C., and Allman, B., 2013, *Advances in the neuroscience of tinnitus*, Noise and health special issue, Volume: 15, Issue: 63, PMID: 23571296 DOI: 10.4103/1463-1741.110283

Allman, B., Baizer, J, Lobarinas, E., and Salvi, R. 2013, *Neuroscience of Tinnitus*, Hearing Research Special Issue, Volume 295. DOI: 10.1016/j.heares.2012.11.012

Salvi R., Lobarinas, E., and Sun, W., 2008, *Tinnitus: Part II, Seminars in Hearing Current Issue 04 · Volume 29 · November* DOI: 10.1055/s-002-13646

**Articles in refereed journals; juried exhibition entries; juried film festival entries; theatrical productions, etc.: (reverse chronological order)**

1. Trevino M, Zang A, Lobarinas E., The middle ear muscle reflex: Current and future role in assessing noise-induced cochlear damage. *J Acoust Soc Am.* 2023 Jan;153(1):436. doi: 10.1121/10.0016853. PMID: 36732247
2. Ni A, Akbarzadeh S, Lobarinas E, Kehtarnavaz N., Personalization of Hearing Aid Fitting Based on Adaptive Dynamic Range Optimization. *Sensors (Basel).* 2022 Aug 12;22(16):6033. doi: 10.3390/s22166033. PMID: 36015791
3. Trevino M, Escabi C, Swanner H, Pawlowski K, Lobarinas E. No Reduction in the 226-Hz Probe Tone Acoustic Reflex Amplitude Following Severe Inner Hair Cell Loss in Chinchillas. *J Assoc Res Otolaryngol.* 2022 Oct;23(5):593-602. doi: 10.1007/s10162-022-00861-3. Epub 2022 Jul 28. PMID: 35902434
4. Trevino M, Escabi CD, Zang A, Pawlowski K, Lobarinas E., Effect of Selective Carboplatin-Induced Inner Hair Cell Loss on Temporal Integration in Chinchillas. *J Assoc Res Otolaryngol.* 2022 Jun;23(3):379-389. doi: 10.1007/s10162-022-00843-5. Epub 2022 Apr 4. PMID: 35378622
5. Trevino M, Lobarinas E.. Current topics in hearing research: Deafferentation and threshold independent hearing loss, *Hear Res.* 2022 Jun;419:108408. doi: 10.1016/j.heares.2021.108408. Epub 2021 Dec 7. PMID: 34955321
6. Harrison R., DeBacker J., Trevino, M., Bielefeld, E., Lobarinas, E., Cochlear Preconditioning as a Modulator of Susceptibility to Hearing Loss., *Antioxid Redox Signal.* 2021 Jun 29. doi: 10.1089/ars.2021.0055. Online ahead of print. PMID: 34011160
7. Sara Akbarzadeh, Nasim Alamdari, Christina Campbell, Edward Lobarinas, Nasser Kehtarnavaz “Word recognition clinical testing of personalized deep reinforcement learning compression” accepted for publication at DCAS 2020
8. Taghizadeh, A., Lobarinas, E., and Kehtarnavaz, N. "Personalization of Hearing Aid Compression by Human-In-Loop Deep Reinforcement Learning", *IEEE Access*, Accepted 10/27/20
9. Lobarinas E, Salvi R, Ding D., “Gap Detection Deficits in Chinchillas with Selective Carboplatin-Induced Inner Hair Cell Loss”, *J Assoc Res Otolaryngol.* 2020 Aug 17. doi: 10.1007/s10162-020-00744-5. PMID: 32804336
10. Trevino M, Lobarinas E, Maulden AC, Heinz MG., 2019, “The chinchilla animal model for hearing science and noise-induced hearing loss.” *J Acoust Soc Am.* Nov; 146(5):3710. doi: 10.1121/1.5132950. PMID: 31795699 Free PMC Article
11. Escabi CD, Frye MD, Trevino M, Lobarinas E. 2019, “The rat animal model for noise-induced hearing loss.” *J Acoust Soc Am.* Nov; 146(5):3692. doi: 10.1121/1.5132553. PMID: 31795685
12. Morgan DS, Arteaga AA, Bosworth NA, Proctor G, Vetter DE, Lobarinas E, Spankovich C., 2019 “Repeated temporary threshold shift and changes in cochlear and neural function.” *Hear Res.* Sep 15;381:107780. doi: 10.1016/j.heares.2019.107780. Epub 2019 Aug 7. PMID: 31437651

13. Le Prell CG, Siburt HW, Lobarinas E, Griffiths SK, Spankovich C., 2018, “No Reliable Association Between Recreational Noise Exposure and Threshold Sensitivity, Distortion Product Otoacoustic Emission Amplitude, or Word-in-Noise Performance in a College Student Population.” *Ear Hear.* Nov/Dec;39(6):1057-1074. doi: 10.1097/AUD.0000000000000575. PMID: 29543608
14. Fulbright ANC, Le Prell CG, Griffiths SK, Lobarinas E., 2017, “Effects of Recreational Noise on Threshold and Suprathreshold Measures of Auditory Function”. *Semin Hear.* Nov;38(4):298-318. doi: 10.1055/s-0037-1606325. Epub 2017 Oct 10. Review. PMID: 29026263 Free PMC Article
15. Kil J, Lobarinas E, Spankovich C, Griffiths SK, Antonelli PJ, Lynch ED, Le Prell CG , 2017 “Safety and efficacy of ebselen for the prevention of noise-induced hearing loss: a randomised, double-blind, placebo-controlled, phase 2 trial.” *Lancet.* Sep 2;390(10098):969-979. doi: 10.1016/S0140-6736(17)31791-9. Epub 2017 Jul 14. PMID: 28716314
16. Spankovich C, Le Prell CG, Lobarinas E, Hood LJ., 2017, “Noise History and Auditory Function in Young Adults With and Without Type 1 Diabetes Mellitus.” *Ear Hear.* Nov/Dec;38(6):724-735. doi: 10.1097/AUD.0000000000000457. PMID: 28678080
17. Spankovich C, Bishop C, Johnson MF, Elkins A, Su D, Lobarinas E, Le Prell CG. 2017, “Relationship between dietary quality, tinnitus and hearing level: data from the national health and nutrition examination survey, 1999-2002.” *Int J Audiol.* Oct;56(10):716-722.doi:10.1080/14992027.2017.1331049. Epub 2017 May 27. PMID: 28553744
18. Salvi R, Sun W, Ding D, Chen GD, Lobarinas E, Wang J, Radziwon K, Auerbach BD., 2017 “Inner Hair Cell Loss Disrupts Hearing and Cochlear Function Leading to Sensory Deprivation and Enhanced Central Auditory Gain.” *Front Neurosci.* Jan 18;10:621. doi: 10.3389/fnins.2016.00621. eCollection 2016. Review. PMID: 28149271
19. Lobarinas E, Spankovich C, Le Prell CG., 2017, “Evidence of "hidden hearing loss" following noise exposures that produce robust TTS and ABR wave-I amplitude reductions.” *Hear Res.* Jun; 349:155-163. doi: 10.1016/j.heares..12.009. Epub 2016 Dec 19. PMID: 28003148
20. Le Prell CG, Fulbright A, Spankovich C, Griffiths SK, Lobarinas E, Campbell KC, Antonelli PJ, Green GE, Guire K, Miller JM. 2016, “Dietary supplement comprised of  $\beta$ -carotene, vitamin C, vitamin E, and magnesium: failure to prevent music-induced temporary threshold shift.” *Audiol Neurotol Extra.* May-Aug;6(2):20-39. Epub 2016 Jul 5. PMID: 27990155 Free PMC Article
21. Lobarinas E, Scott R, Spankovich C, Le Prell CG., 2016, “Differential effects of suppressors on hazardous sound pressure levels generated by AR-15 rifles: Considerations for recreational shooters, law enforcement, and the military.” *Int J Audiol.* 55 Suppl 1:S59-71. doi: 10.3109/14992027.2015.1122241. Epub 2016 Jan 28. PMID: 26821935
22. Lobarinas E, Salvi R, Ding D. 2016, “Selective Inner Hair Cell Dysfunction in Chinchillas Impairs Hearing-in-Noise in the Absence of Outer Hair Cell Loss.” *J Assoc Res Otolaryngol.* Apr;17(2):89-101. doi: 10.1007/s10162-015-0550-8. Epub 2015 Dec 21. PMID: 26691159 Free PMC Article
23. Spankovich C, Lobarinas E, Ding D, Salvi R, Le Prell CG., 2016 “Assessment of thermal treatment via irrigation of external ear to reduce cisplatin-induced hearing loss.” *Hear Res.* Feb; 332:55-60. doi: 10.1016/j.heares.2015.11.009. Epub 2015 Dec 2. PMID: 26639015

24. Newman AJ, Hayes SH, Rao AS, Allman BL, Manohar S, Ding D, Stolzberg D, Lobarinas E, Mollendorf JC, Salvi R. 2015, "Low-cost blast wave generator for studies of hearing loss and brain injury: blast wave effects in closed spaces." *J Neurosci Methods*. Mar 15; 242:82-92. doi: 10.1016/j.jneumeth.2015.01.009. Epub 2015 Jan 15. PMID: 25597910 Free PMC Article
25. Lobarinas E, Blair C, Spankovich C, Le Prell C. 2015, "Partial to complete suppression of unilateral noise-induced tinnitus in rats after cyclobenzaprine treatment." *J Assoc Res Otolaryngol*. 2015 Apr; 16(2):263-72. doi: 10.1007/s10162-014-0500-x. Epub 2014 Dec 20. PMID: 25526855 Free PMC
26. Spankovich C, Griffiths SK, Lobariñas E, Morgenstein KE, de la Calle S, Ledon V, Guercio D, Le Prell CG., 2014, "Temporary threshold shift after impulse-noise during video game play: laboratory data." *Int J Audiol*. Mar; 53 Suppl 2:S53-65. doi: 10.3109/14992027.2013.865844. PMID: 24564694 Free PMC
27. Campolo J, Lobarinas E, Salvi R. 2013, "Does tinnitus "fill in" the silent gaps?" *Noise Health*. Nov-Dec;15(67):398-405. doi: 10.4103/1463-1741.121232. PMID: 24231418 Free PMC Article
28. Le Prell CG, Spankovich C, Lobariñas E, Griffiths SK. 2013, "Extended high-frequency thresholds in college students: effects of music player use and other recreational noise." *J Am Acad Audiol*. Sep;24(8):725-39. doi: 10.3766/jaaa.24.8.9. PMID: 24131608 Free PMC Article
29. Lobarinas E, Salvi R, Baizer J, Altman C, Allman B., 2013, "Noise and health special issue: advances in the neuroscience of tinnitus." *Noise Health*. Mar-Apr;15(63):81-2. doi: 10.4103/1463-1741.110283. PMID: 23571296
30. Lobarinas E, Salvi R, Ding D., 2013, "Insensitivity of the audiogram to carboplatin induced inner hair cell loss in chinchillas." *Hear Res*. Aug; 302:113-20. doi: 10.1016/j.heares.2013.03.012. Epub 2013 Apr 6. PMID: 23566980
31. Chen GD, Stolzberg D, Lobarinas E, Sun W, Ding D, Salvi R., 2013, "Salicylate-induced cochlear impairments, cortical hyperactivity and re-tuning, and tinnitus." *Hear Res*. Jan;295:100-13. doi: 10.1016/j.heares.2012.11.016. Epub 2012 Nov 27. Review. PMID: 23201030
32. Allman BL, Baizer JS, Salvi RJ, Lobarinas E., 2013, "Special issue in Hearing Research: neuroscience of tinnitus." *Hear Res*. Jan;295:1-2. doi: 10.1016/j.heares.2012.11.012. Epub 2012 Nov 17. No abstract available. PMID: 23168356
33. Baizer JS, Lobarinas E, Salvi R, Allman BL., 2012, "Brain Research special issue: advances in the neuroscience of tinnitus." *Brain Res*. Nov 16;1485:1-2. doi: 10.1016/j.brainres.2012.10.033. No abstract available. PMID: 23121894
34. Su YY, Luo B, Jin Y, Wu SH, Lobarinas E, Salvi RJ, Chen L. 2012, "Altered neuronal intrinsic properties and reduced synaptic transmission of the rat's medial geniculate body in salicylate-induced tinnitus." *PLoS One*. 7(10):e46969. doi: 10.1371/journal.pone.0046969. Epub 2012 Oct 10. PMID: 23071681
35. Lobarinas E, Hayes SH, Allman BL., 2012, "The gap-startle paradigm for tinnitus screening in animal models: limitations and optimization." *Hear Res*. Jan;295:150-60. doi: 10.1016/j.heares.2012.06.001. Epub 2012 Jun 21. PMID: 22728305
36. Kraus KS, Ding D, Jiang H, Lobarinas E, Sun W, Salvi RJ., 2011, "Relationship between noise-induced hearing-loss, persistent tinnitus and growth-associated protein-43 expression in the rat cochlear nucleus: does

- synaptic plasticity in ventral cochlear nucleus suppress tinnitus?" *Neuroscience*. Oct 27;194:309-25. doi: 10.1016/j.neuroscience.2011.07.056. Epub 2011 Jul 28. PMID: 21821100
37. Lu J, Lobarinas E, Deng A, Goodey R, Stolzberg D, Salvi RJ, Sun W., 2011, "GABAergic neural activity involved in salicylate-induced auditory cortex gain enhancement." *Neuroscience*. Aug 25;189:187-98. doi: 10.1016/j.neuroscience.2011.04.073. Epub 2011 Jun 12. PMID: 21664433
  38. Lobarinas E, Dalby-Brown W, Stolzberg D, Mirza NR, Allman BL, Salvi R., 2011, "Effects of the potassium ion channel modulators BMS-204352 Maxipost and its R-enantiomer on salicylate-induced tinnitus in rats." *Physiol Behav*. Oct 24;104(5):873-9. doi: 10.1016/j.physbeh.2011.05.022. Epub 2011 May 27. PMID: 21640740
  39. Ralli M, Lobarinas E, Fetoni AR, Stolzberg D, Paludetti G, Salvi R., 2010, "Comparison of salicylate- and quinine-induced tinnitus in rats: development, time course, and evaluation of audiologic correlates." *Otol Neurotol*. Jul;31(5):823-31. doi: 10.1097/MAO.0b013e3181de4662. PMID: 20502380
  40. Kraus KS, Mitra S, Jimenez Z, Hinduja S, Ding D, Jiang H, Gray L, Lobarinas E, Sun W, Salvi RJ., 2010, "Noise trauma impairs neurogenesis in the rat hippocampus." *Neuroscience*. Jun 2;167(4):1216-26. doi: 10.1016/j.neuroscience.2010.02.071. Epub 2010 Mar 3. PMID: 20206235
  41. Simmons R, Dambra C, Lobarinas E, Stocking C, Salvi R., 2008, "Head, Neck, and Eye Movements That Modulate Tinnitus." *Semin Hear*. Nov;29(4):361-370. PMID: 19183705 Free PMC Article
  42. Sun W, Lu J, Stolzberg D, Gray L, Deng A, Lobarinas E, Salvi RJ., 2009, "Salicylate increases the gain of the central auditory system." *Neuroscience*. Mar 3;159(1):325-34. doi: 10.1016/j.neuroscience.2008.12.024. Epub 2008 Dec 24. PMID: 19154777
  43. Lobarinas E, Sun W, Stolzberg D, Lu J, Salvi R., 2008, "Human Brain Imaging of Tinnitus and Animal Models." *Semin Hear*. Nov;29(4):333-349. PMID: 19122834
  44. Salvi R, Lobarinas E, Sun W., 2009, "Pharmacological treatments for tinnitus: new and old" *Drugs Future*. 34(5):381-400. PMID: 21765586
  45. Paul AK, Lobarinas E, Simmons R, Wack D, Luisi JC, Sperryak J, Mazurchuk R, Abdel-Nabi H, Salvi R., 2009, "Metabolic imaging of rat brain during pharmacologically-induced tinnitus." *Neuroimage*. Jan 15;44(2):312-8. doi: 10.1016/j.neuroimage.2008.09.024. Epub 2008 Oct 2. PMID: 18948211
  46. Lobarinas E, Yang G, Sun W, Ding D, Mirza N, Dalby-Brown W, Hilczmayer E, Fitzgerald S, Zhang L, Salvi R., 2006, "Salicylate- and quinine-induced tinnitus and effects of memantine." *Acta Otolaryngol Suppl*. Dec;(556):13-9. PMID: 17114137
  47. Yang G, Lobarinas E, Zhang L, Turner J, Stolzberg D, Salvi R, Sun W., 2007, "Salicylate induced tinnitus: behavioral measures and neural activity in auditory cortex of awake rats." *Hear Res*. Apr;226(1-2):244-53. Epub 2006 Aug 14. PMID: 16904853
  48. Lobarinas E, Sun W, Cushing R, Salvi R., 2004, "A novel behavioral paradigm for assessing tinnitus using schedule-induced polydipsia avoidance conditioning (SIP-AC)." *Hear Res*. 2004 Apr;190(1-2):109-14. PMID: 15051133

49. Lobarinas E, Falk JL., 2000, "Comparison of benzodiazepines and the non-benzodiazepine agents zolpidem and zaleplon with respect to anxiolytic action as measured by increases in hypertonic NaCl-solution drinking in rats." *Psychopharmacology* (Berl). Apr;149(2):176-80. PMID: 10805613
50. Lobarinas E, Lau CE, Falk JL., 1999, "Sensitization of operant behavior to oral cocaine with increasing- and repetitive-dose regimens." *Behav Pharmacol*. Feb;10(1):15-26. PMID: 10780299
51. Lobarinas E, Falk JL., 1999, "Dose-dependent effects but not sensitization of DRL 45-s performance by oral d-amphetamine with cumulative- and repeated-dosing regimens." *Behav Pharmacol*. Dec;10(8):739-46. PMID: 10780289
52. Lau CE, Wang Y, Sun L, Lobarinas E, Wang Q, Nguyen KN, Falk JL., 1999, "Pharmacokinetic determinants of cocaine's differential effects on locomotor and operant behavior." *Eur J Pharmacol*. 1999 Sep 24; 381(2-3):85-92. PMID: 10554874
53. Lobarinas E, Falk JL., 1998, "Schedule-induced polydipsic consumption of hypertonic NaCl solutions: effects of chlordiazepoxide." *Physiol Behav*. Feb 1;63(3):419-23. PMID: 9469737

**Articles appearing as chapters in edited volumes; self-mounted exhibitions, etc.: N/A**

**Refereed conference publications or abstracts: (See invited talks and presentations. All Association for Research in Otolaryngology conference (ARO) presentations in that section are published)**

**Unrefereed publications: (reverse chronological order)**

1. Lobariñas, E. and Le Prell, C.G., 2014, Impulse noise produced by weapons: Implications for hearing conservation. *NHCA Spectrum*
2. Lobarinas, E. Tinnitus: From the Clinic to the Lab Bench and Back, 2011, *Audiology Today*, (NovDec), 32-35.
3. Chen, G.D., Lobarinas, E., Ding, D., Salvi, R., 2010, Hearing Loss-What's in the pipeline. *Drugs Future*, 2010; 36, 209-227.
4. Salvi, R., Lobarinas, E., Sun, W. Imaging tinnitus activity in the brain. 2010, *Perspectives on Hearing and Hearing Disorders: Research and Diagnostics*; 14, 21-27.
5. Milton, S., Lobarinas, E., West, N., Mawer, P., Butler, A., Salvi, R.J., Barnes, N., 2009 Quantitative PCR analysis of 5-Ht receptor expression in tissue from the inferior colliculus and cochlear nucleus of an animal model of tinnitus, *Proceedings of the British Pharmacological Society.*; pp. 139P.
6. Lobarinas, E., Salvi, R. Do animals experience tinnitus? Can they tell us? 2007, *World ENT*; 4, 9-10.

**Unrefereed abstracts: (All presented abstracts were peer-reviewed)**

**Other writings (not including abstracts):**

Chasin and Lobarinas, Dr. Dick Salvi – "The Man Who Liked Salicylate", 2019, in *Canadian Audiologist*, volume 6 issue 3



**Books/articles accepted for publication:** (note date of acceptance)

Trevino, M., Zang, A., and Lobarinas, E., 2020, “The middle ear muscle reflex: Current and future role in assessing noise-induced cochlear damage”, submitted Jan 13, 2023 to the Journal of the Acoustical Society of America

**Books/articles submitted for publication:** (note date of submission and to whom)

**Works in progress:**

1. Trevino M., and Lobarinas, E., 2022, Effect of selective Inner Hair Cell loss on multifrequency elicited Acoustic Reflexes in Chinchillas, Journal of the Association for Research in Otolaryngology
2. Escabi, C., Trevino, M., Zang, A., Pawlowski, K. and Lobarinas E., 2022, Relationship between behavioral and physiological measures of hearing following selective inner hair cell loss, Hearing Research

**Invited talks/presentations at professional meetings, seminars, or colloquia assemblies; invited performances or exhibitions, etc.: (reverse chronological order)**

1. Lobarinas, E. and Le Prell, C. All Ears: Hot Topics in Hearing Health and Tinnitus, BBS Brain Matters, May 2021.
2. Lobarinas E. and Barath Chandrasekaran, 2021 Hidden Hearing Loss and Processing Speech in Noise: What Audiologists Need to Know and Practice Now, American Academy of Audiology, New Orleans
3. Scott, R. and Lobarinas E., 2018, Suppressors, Hearing Protection and Hearing Conservation, National Hearing Conservation Association conference, Orlando Florida
4. Spankovich C., Lobarinas E., Fullbright, A. 2017, Translational Research in Noise and Synaptopathy, American Academy of Audiology conference, Indianapolis, IN
5. Lobarinas, E., 2016, Could Tinnitus Be Cured? Bench to Bedside Research, AudiologyOnline, Summer Webinar Series
6. Lobarinas, E., Scott R., Spankovich, C., and Le Prell, C., 2015, Hearing Hazards of Firearms: The Case for Sound Suppression, American Academy of Audiology conference, San Antonio, Texas.
7. Lobarinas, E., Fulbright, A., Spankovich, C., Ross, F., Morrill, S. and Le Prell, C., 2015, Hidden Hearing Loss: What Can the Audiogram Tell Us? American Academy of Audiology conference, San Antonio, Texas.
8. Lobarinas, E., 2014, Hyperacusis: What can animals tell us? Florida Academy of Audiology, Ft. Myers, Florida
9. Lobarinas, E., Scott R., Spankovich, C., and Le Prell, C., 2014, Extreme sound pressure levels: The underestimated hearing hazard of firearms, American Academy of Audiology conference, Orlando, Florida.
10. Lobarinas, E., Spankovich, C., Ross, F., and Le Prell, C., 2014, Inner hair cell loss: What can the audiogram tell us?, American Academy of Audiology conference, Orlando Florida.

11. Lobarinas, E., 2013, Tinnitus, National Hearing Conservation Association annual conference, the art of hearing conservation, February 21-23, St. Petersburg, Florida.
12. Lobarinas, E., 2012, Tinnitus from the clinic to the lab bench and back, American Academy of Audiology Conference, March 28-31, Boston, Massachusetts.
13. Lobarinas, E., 2011, Hearing Loss and Tinnitus, Nordic audiology college, September 15-16 Kolding, Denmark
14. Lobarinas, E., 2011, Tinnitus and cyclobenzaprine pharmacotherapy. 5th International TRI Tinnitus conference, The Neuroscience of Tinnitus, August 19 - 21, Buffalo, NY (USA).
15. Salvi, R. and Lobarinas, E., 2009, Human and animal studies of tinnitus: Brain imaging, behavior, and physiology, Kresge Hearing Research Institute. University at Michigan, April 25, Ann Arbor, Michigan.
16. Lobarinas, E., 2009, Behavioral and physiological tests of hearing function., Buffalo General Hospital Neuroscience Lecture, Invited Speaker, April 3, Buffalo, NY.
17. Lobarinas, E., 2008, MicroPET functional imaging; Modeling transient and chronic tinnitus. Eastern Great Lakes Chapter of the Society of Nuclear Medicine, invited speaker, October 18, Niagara Falls, NY.
18. Lobarinas, E., 2008, Human and animal brain imaging; Searching for the biological basis of tinnitus, VI Balkan Congress of Otorinolaryngology Head and Neck Surgery, October 2, Thessaloniki, Greece.
19. Lobarinas, E., 2008, Inner hair cell loss and hearing function: Implications for Audiology, Maryland Academy of Audiology Convention, invited speaker, September 25, Maryland.
20. Lobarinas, E., 2008, Animal models of tinnitus and the effects of memantine, Friedrich Merz guest professorship, February 26, Frankfurt, Germany.
21. Lobarinas, E., 2005, Animal models of tinnitus and treatment evaluation, International Symposium on Pharmacologic Strategies for the Prevention and Treatment of Hearing Loss and Tinnitus, Oct. 10-13, Niagara Falls, Ontario, Canada.

**Refereed talks/presentations at professional meetings; refereed performances or exhibitions, etc.:**  
**Contributed (unrefereed) talks/presentations at professional meetings; contributed performances or exhibitions; contributed entries at film festivals, etc.:**  
**(reverse chronological order, \*denotes mentored student)**

1. Lobarinas, E., Alamdari, N\*., Campbell, C\*., and Kehtarnavaz, N., Personalized Compression for Hearing Aids: A Deep Learning Approach, Presented at the American Academy of Audiology Virtual, April, 2021
2. Zang, A\*., Treviño, M\*., Escabi, C\*., and Lobariñas, E., Intensity Detection Difference in the Chinchilla Animal Model, Poster presentation at the Association for Research in Otolaryngology Annual Conference, Virtual, February 2021.
3. Zang A\*., Treviño, M\*., Escabi, C\*., Pawlowski, K., and Lobariñas, E., The Just Noticeable Difference in the Chinchilla Animal Model, Poster presentation at the annual conference of the American Academy of Audiology, Virtual, April, 2021

4. Trevino, M.\*, Escabi, C.\*, Zang, A.\*, Pawlowski, K., and Lobariñas, E., Multifrequency acoustic reflex measures in carboplatin-treated chinchillas, (2021, February 20-24) Association for Research in Otolaryngology (ARO), Virtual Conference.
5. Escabi, C.\*, Trevino, M.\*, Zang, A.\*, Pawlowski, K. and Lobariñas, E. No evidence of tinnitus as assessed by a gap detection task in carboplatin-treated chinchillas, (2021, February 20-24). Association for Research in Otolaryngology (ARO), Virtual Conference.
6. Escabi, C.\*, Zang, A.\*, Trevino, M.\*, Trehan, A.\*, Pawlowski, K., and Lobariñas, E., Relationship among selective inner hair cell loss and auditory brainstem response amplitudes in carboplatin-treated chinchillas, (2021, February 20-24). Association for Research in Otolaryngology (ARO), Virtual Conference.
7. Trevino, M.\*, Escabi, C.\*, Zang, A.\*, Pawlowski, K. and Lobariñas, E., The effect of inner hair cell loss on multi-frequency acoustic reflexes in an animal model, (2021, April 14-16). American Academy of Audiology (AAA), Virtual Conference.
8. Trevino, M.\*, Escabi, C.\*, Pawlowski, K. and Lobariñas, E. No evidence of tinnitus after moderate to severe inner hair cell loss in chinchillas, (2021, April 14-16). American Academy of Audiology (AAA), Virtual Conference.
9. Escabi, C.\*, Zang, A.\*, Trevino, M.\*, Pawlowski, K. and Lobariñas, E. Effects of selective inner hair cell loss suprathreshold auditory brainstem response amplitudes, (2021, April 14-16). American Academy of Audiology (AAA), Virtual Conference.
10. Trehan, A.\*, Zang, A.\*, Treviño, M.\*, Escabi, C.\*, and Lobariñas, E. Effect of Inner Hair Cell Loss on Gap Detection Thresholds in Chinchillas, Texas Academy of Audiology, October 2021, Houston Texas
11. Alamdari N\*., Lobarinas, E., and Kehtarnavaz, N., 2019, An Educational Tool for Hearing Aid Compression Fitting via a Web-based Adjusted Smartphone App. CASSP 2019 - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
12. Celia C\*., Treviño, M\*., Campbell, C\*., Pawlowski, K., Lobarinas, E., 2019, Relationship Among Selective Inner Hair Cell Loss, Auditory Brainstem Response Amplitudes and Acoustic Reflexes in Carboplatin Treated Chinchillas, 2020, Presented at the Association for Research in Otolaryngology conference, San Jose, California
13. Escabi, C\*, Campbell, C\*., Pawlowski, K, Sindelar, B., Le Prell, C., & Lobarinas, E., 2019, Hearing Preservation from Controlled Internal Jugular Vein Compression During Traumatic Noise Exposure, Presented at the Association for Research in Otolaryngology conference, San Jose, California
14. Trevino M.\*, Escabi, C\*., Pawlowski, K., and Lobarinas E., 2019, Persistence of the Acoustic Reflex After Selective Inner Hair Cell Loss and its Relation to Auditory Tasks in Carboplatin-treated Chinchillas, Presented at the Association for Research in Otolaryngology conference, San Jose, California
15. Zang, A\*., Trevino M., Escabi\*, C., Pawlowski, K., and Lobarinas E., 2019, The Acoustic Reflex: A Comparison Between Noise-induced Hearing Loss and Selective Inner Hair Cell Loss in Carboplatin-treated Chinchillas, Presented at the Association for Research in Otolaryngology conference, San Jose, California
16. Pawlowski KS, Escabi\* CD, Campbell\* T, Moody\* PR, Lobarinas, E., 2019, Long-term Histological Outcomes of Carboplatin Administration in the Chinchilla Cochlea, Presented at the Association for Research in Otolaryngology conference, San Jose, California.

17. Escabi\*, CD, Martin, J., and Lobarinas, E., 2018, Gap Detection and Temporal Resolution Deficits in Chinchillas with Selective Inner Hair Cell Loss, 2018, Association for Research in Otolaryngology Conference, San Diego California
18. Monica Trevino\* and Edward Lobarinas, 2018, Physician-to-Patient Communication: Can Veterans Hear What the Good Doctor Says?, AudiologyNow, American Academy of Audiology convention, Nashville, Tennessee
19. Lobarinas E., Spankovich C., Morrill, S\*, Le Prell C.G., 2017, Poorer hearing-in-noise despite full recovery of thresholds in rats; functional evidence of “hidden hearing loss”? Association for Research in Otolaryngology 40th MidWinter Meeting, Baltimore, MD
20. Rogers R\*. and Lobarinas E. 2016, Distribution of Tinnitus Services in the United States: A Survey of Audiologists, Texas Academy of Audiology meeting, Frisco TX
21. Lobarinas E., Fulbright A\*, Ding D., and Le Prell C.G., 2016, Using Hearing in Noise Measures for Detecting Hidden Cochlear Damage. 2016, Association for Research in Otolaryngology 39th MidWinter Meeting, San Diego, CA
22. Lobarinas E. and Le Prell C.G., 2016, No Relationship between Recreational Noise History and Performance on the Words-in-Noise (WIN) test in Normal Hearing Young Adults. Association for Research in Otolaryngology 39th MidWinter Meeting, San Diego, CA
23. Lowe A., Brecht E., Lobarinas E., and Walton J., 2016, .Evaluation of an Acoustically Cued Tactile Startle Stimulus to Evaluate “Tinnitus” in Mice., Association for Research in Otolaryngology 39th MidWinter Meeting, San Diego, CA
24. Le Prell, C.G., Spankovich, C., Lobarinas, E., and Antonelli, P.J., 2015, Effects of dietary nutrients on human hearing: is there an opportunity to reduce noise-induced hearing loss?, Presented at the Joint Defense/Veterans Audiology Conference, held in Orlando, FL, March 2-4
25. Le Prell, C. G., Spankovich, C. White, K.\*, and Lobarinas, E., 2015, Prevention of hearing loss using dietary supplements. 2015, Association for Research in Otolaryngology, 38th Midwinter Meeting, Baltimore, Maryland
26. Lobarinas, E., Spankovich, C., and Le Prell, C. G., 2015, Normal thresholds but poorer hearing in noise following a “deafferenting” exposure. Association for Research in Otolaryngology, 38th Midwinter Meeting, Baltimore, Maryland
27. Lobariñas, E. and Le Prell, C.G., 2015, Effect of sound suppressors on dangerous sound levels produced by weapon discharges. 40th Annual National Hearing Conservation Conference-Celebrating Hearing Loss Prevention, NHCA Spectrum, Volume 32, Supplement 1, page 38. New Orleans, Louisiana
28. Le Prell, C.G., and Lobariñas, E. 2015, Firearm impulse noise: Technical challenges and novel metrics. . 40th Annual National Hearing Conservation Conference-Celebrating Hearing Loss Prevention: NHCA Spectrum, Volume 32, Supplement 1, page 39. New Orleans, Louisiana
29. Lobarinas, E., Spankovich, C., Scott, R., and, Le Prell, C., 2014, Quiet down! The effects of suppressors on short-barreled AR-15 rifles; Implications for law enforcement and the military. National Hearing Conservation Association Conference, Las Vegas, Nevada.

30. Lobarinas, E., Ross, F.\*, and Ding, D., 2014, Effects of selective inner hair cell loss on listening in competing broadband and narrow band noise. Association for Research in Otolaryngology, San Diego, California.
31. Lobarinas, E., Salvi, R., Maerten, K.\*, Ding, D., 2013, The audiogram fails to reveal deficits from significant inner hair cell loss in chinchillas treated with carboplatin. Association for Research in Otolaryngology, Baltimore, Maryland.
32. Salvi, R., Chen, GD., Stolzberg, D., Lobarinas, E., 2013, Tinnitus and hyperacusis: Involvement of auditory and nonauditory structures. Association for Research in Otolaryngology, 2013, Baltimore Maryland.
33. Decker, B., Chen, GD., Lobarinas, E., Salvi, R., 2012, Asymptotic threshold shift in rats induced by long-duration continuous noise. Association for Research in Otolaryngology, San Diego, California.
34. Lobarinas, E., Allman, B., Salvi, R., 2012 ,Modeling blast induced tinnitus, Association for Research in Otolaryngology, San Diego, California
35. Lobarinas, E., and Allman, B. 2011, Blast-induced tinnitus, Department of Defense International State of the Science Meeting on Blast-induced tinnitus, Chantilly, Virginia.
36. Kraus, S., Ding, D., Jiang, H., Lobarinas, E., Sun, W., Salvi, R., 2011, Up-regulation of GAP-43 in the rat ventral cochlear nucleus may protect against noise-induced persistent tinnitus. Association for Research in Otolaryngology, Baltimore, Maryland.
37. Allman, B., Manohar, S., Lewicki. L.\*, Ding, D., Lobarinas, E., Jensen, A., Mollendorf, J., Salvi, R., 2011, Auditory cortex neuronal death and hippocampal neurogenesis following blast-induced traumatic brain injury. Association for Research in Otolaryngology, Baltimore, Maryland.
38. Ralli, M., Lobarinas, E., Chen, GD., Fetoni, A., Troiani, D., Paludetti, G., Salvi, R., 2011, Modulation of salicylate-induced tinnitus by the NMDA antagonist memantine. Association for Research in Otolaryngology, Baltimore Maryland.
39. Lobarinas, E., Shillitoe, C.\*, Campbell, C\*., Salvi, R., 2011, Effects of tonabersat (SB-220453), a novel gap junction blocker, on noise induced tinnitus. Association for Research in Otolaryngology, Baltimore Maryland.
40. Salvi, R., Kraus, S., Hinduja, S.\*, Ding, D., Jiang, H., Lobarinas, E., Sun, W., 2011, Noise trauma suppresses cell proliferation and neurogenesis in rat hippocampus and impairs memory. Association for Research in Otolaryngology, Baltimore Maryland.
41. Lobarinas, E., Goodey, R., Salvi, R., Sun, W., 2010, Baclofen and the role of GABA inhibition on salicylate and noise induced tinnitus. Association for Research in Otolaryngology, Anaheim, California.
42. Sun, W., Lu, J., Deng, A., Lobarinas, E., Goodey, R., Salvi, R., 2010, Role of GABAergic activity in auditory cortex gain control. Association for Research in Otolaryngology, Anaheim, California.
43. Manohar, S., Jamesdaniel, S., Shillitoe, C.\*, Lobarinas, E., Salvi, R., Coling, D., 2010, Salicylate-induced modulation of gene and protein expression in rat auditory cortex correlates with behavioral phenotype of central tinnitus. Association for Research in Otolaryngology, Anaheim, California.

44. Lobarinas, E., Dalby-Brown, W., Stolzberg, D., Mirza, N., Salvi, R., 2009, Effects of the BK agonists BMS-204352 and the enantiomeric compound (“Renantiomer”) on transient, salicylate induced tinnitus in rats. Association for Research in Otolaryngology, Baltimore, Maryland.
45. Ralli, M., Lobarinas, E., Fetoni, A., Stolzberg, D., Paludetti, G., Salvi, R., 2009, Salicylate and noise-induced tinnitus findings in rats using the acoustic startle reflex. Association for Research in Otolaryngology, Baltimore, Maryland.
46. Lobarinas, E., Kermany, M., Wack, D., Ding, D., Jian, H., Nabi, H., Salvi, R., 2009, Metabolic changes in the inferior colliculus, thalamus, and auditory cortex in response to high intensity unilateral noise trauma using a rat animal model of tinnitus and hearing loss. Association for Research in Otolaryngology, Baltimore, Maryland.
47. Liu, J., Stolzberg, D., Lobarinas, E., Gray, L., Salvi, R., Sun, W., 2009, Effect of salicylate on neural response in auditory cortex. Association for Research in Otolaryngology, Baltimore, Maryland.
48. Lobarinas, E., Sun, W., Sarbadhikari\*, K., Salvi, R., 2008, Acoustic overstimulation and noise-induced tinnitus assessed with gap prepulse inhibition of acoustic startle in rats. Association for Research in Otolaryngology, Phoenix, Arizona.
49. Laundrie, E\*, Lu, J., Stolzberg, D., Lobarinas, E., Salvi, R., Sun, W., 2008, Acoustic trauma induced auditory cortex enhancement and tinnitus. Association for Research in Otolaryngology, Phoenix, Arizona.
50. Lu, J., Stolzberg, D., Lobarinas, E., Salvi, R., Sun, W., 2008, Salicylate increases the gain of the central auditory system. Association for Research in Otolaryngology, Phoenix, Arizona.
51. Lobarinas, E., Langguth, B., Sun, W., Lu, J., Salvi, R., 2008, Repetitive transcranial magnetic stimulation (rTMS) on persistent noise induced tinnitus in rats, a pilot study. Association for Research in Otolaryngology, Phoenix, Arizona.
52. Paul, A., Lobarinas, E., Luisi, J., Simmons, R., Nabi, H., Salvi, R., 2007, Metabolic activation of auditory cortex and inferior colliculi during salicylate-induced tinnitus in rats: A MicroPET imaging study. Association for Research in Otolaryngology, Denver, Colorado.
53. Stolzberg, D., Sun, W., Yang, G., Lobarinas, E., Salvi, R., 2007, Effects of sodium salicylate induced tinnitus on auditory cortex local field potentials in awake rats. Association for Research in Otolaryngology, Denver, Colorado.
54. Lobarinas, E., Sun, W., Wei, L., Salvi, R., 2007, Quinine induced tinnitus-like behavior using a startle reflex paradigm. Association for Research in Otolaryngology, Denver, Colorado.
55. Lobarinas, E., Paul, A., Luisi, J., Ding, D., Nabi, H., Salvi, R., 2006, Metabolic changes in chinchilla inferior colliculus following carboplatin-induced ototoxicity: An in vivo quantitative microPET study. Association for Research in Otolaryngology, Baltimore, Maryland.
56. Yang, G., Sun, W., Lobarinas, E., Zhang, L., Salvi, R., 2006, Effects of memantine and scopolamine on the tinnitus induced by salicylate. Association for Research in Otolaryngology, Baltimore, Maryland.
57. Zhang, L., Sun, W., Yang, G., Lobarinas, E., Salvi, R., 2006, Noise-induced physiological and molecular changes in auditory cortex-potential substrates for tinnitus. Association for Research in Otolaryngology, Baltimore Maryland.

58. Sun, W., Zhang, L., Yang, G., Lobarinas, E., Salvi, R., 2006, Noise-induced developmental delay of auditory cortex - Physiology and gene expression changes. Association for Research in Otolaryngology, Baltimore, Maryland.
59. Lobarinas, E., Yang, G., Sun, W., Salvi, R., 2005, Quinine induced tinnitus like behavior using schedule induced polydipsia avoidance conditioning (SIP-AC). Association for Research in Otolaryngology, New Orleans, Louisiana.
60. Yang, G., Sun, W., Li, M., Wang, P., Ding, D., Lobarinas, E., Salvi, R., 2005, Quinine-induced changes in C-Fos and Arc gene expression in rat cochlear nucleus. Association for Research in Otolaryngology, New Orleans, Louisiana.
61. Lobarinas, E., Sun, W., Cushing, R., Salvi, R., 2004, A Novel Behavioral Paradigm for Assessing Tinnitus Using Schedule Induced Polydipsia Avoidance Conditioning (SIP-AC). Association for Research in Otolaryngology, Daytona Beach, Florida.
62. Lobarinas, E., Sun, W., Eddins, D., Ding, D., Salvi, R., 2002, Carboplatin-induced inner hair cell loss: Effects on threshold, threshold in noise, gap detection and tuning. Association for Research in Otolaryngology, St. Petersburg, Florida.

**Self-initiated exhibitions, lectures, or performances: N/A**

**International / U.S. Patents awarded: N/A**

**International / U.S. Patents provisional applications: N/A**

**Other activities not documented in a publication: lectures, speeches, presentations, public and internet-based media projects, etc.: (reverse chronological order)**

Campbell and Lobarinas 2020, Presentation at the Callier Foundation Board Meeting, “Hear Us Now Technology”

Lobarinas, 2019, Interview on local FOX4 news, Dallas, TX, “Laurel or Yanny? Hearing expert weighs in on the debate”

Lobarinas 2019, Featured in Article in the Annual Callier Impact report, “Research at Callier...”

Lobarinas 2016, Highlighted court testimony on tinnitus which resulted in a landmark case, in legal book “Experiencing Other Minds in the Courtroom”

Lobarinas, 2009, Featured in “That Buzzing Sound, the Mystery of Tinnitus” by Jerome Groopman, The New Yorker Magazine February 2<sup>nd</sup>.

**External and Internal funding for original investigations:**

(list in chronological order within each separate subsection; omit this section if not pertinent)

Personalized Deep Reinforcement Learning Amplification for Hearing Aids

Co-I: Lobarinas

National Institute of Health NIDCD R01

2023-2027

Under review

Prediction of noise-induced hearing loss susceptibility using external ear measures

Co-I: Lobarinas

National Institute of Health, NIDCD R21

2023-2024

Under review

Cannabidiol (CBD) Oil Safety and Clinical Efficacy in Tinnitus Management,

Consultant: Lobarinas

Hearing Health Foundation

Under review

Drug-Eluting Polymer Microneedles for Cochlear Drug Therapies

Co-I: Lobarinas

National Institute of Health NIDCD R43

2023-2024

In resubmission \$166,679

Speech-in-noise audiometry to evaluate Spanish-English bilinguals via the web and in the clinic.

Consultant: Lobarinas

National Institute of Health NIDCD R43

2023-2025

In resubmission

Personalization of Hearing Aid Prescriptive Compression via Inverse Reinforcement Machine Learning

Co-I: Lobarinas

National Institute of Health, NIDCD, R01

2023-2028

In resubmission

**Grants/contracts awarded:**

Acquired Hearing Loss

Co-PI: Lobarinas

National Institute of Health, Minority supplement for Ph.D. student on PPG grant

2000-2002

Evaluating pharmacological treatment for tinnitus

PI: Lobarinas

Auris Medical SAS, Fellowship

2006-2007

Animal models of tinnitus, brain imaging & therapy

Co-I: Lobarinas.

National Institute of Health R01DC009091

2007-2012

Brain imaging of salicylate and noise-induced tinnitus in rats

PI: Lobarinas

American Tinnitus Association



2007-2009

Neramexane clinical trial for tinnitus suppression  
Co-PI: Lobarinas  
Merz Pharmaceuticals  
2010-2011

Pharmacological treatment of tinnitus using behavioral animal models  
PI: Lobarinas  
Tinnitus Research Initiative  
2008-2011

Effect of selective inner hair cell loss on functional hearing  
PI: Lobarinas  
National Institute of Health NIDCD 1R03DC011612  
2011-2014

Tinnitus Susceptibility, Chronic Stress and Drug Therapy  
Co-I: Lobarinas  
Office of Naval Research (ONR)  
2012-2015

Evaluation of the ZEM hearing protection device  
PI: Lobarinas  
Sensgard LLC  
2012-2013

Perceptual Rating of Sound Quality and Listening Levels After Dynamic Manipulation Using MAX-D  
Co-I: Lobarinas  
MaxSound, Inc.  
7/15/14-10/31/14

Effects of Music-Player Use on Word-in-Noise Test Performance  
Co-I: Lobarinas  
Sound Pharmaceuticals, Inc  
7/15/14-10/31/14

Sound level attenuation using suppressors  
Co-PI: Lobarinas  
American Suppressor Association  
2014-2015

A Phase 2A Randomized, Placebo Controlled, Double Blind Study of the Protective Effects of EPI-743 (Vincerinone™) on Noise Induced Hearing Loss  
Co-I: Lobarinas  
Edison Pharmaceuticals, Inc.  
9/1/14-5/31/15

Perceptual Correlates, Anatomical Boundaries and Treatment of Noise-Induced “Hidden Hearing Loss”

PI: Lobarinas  
 National Institute of Health, NIDCD, R01  
 2016-2023  
 Rejected, \$1,250,000

Effects of noise on auditory physiology and perception  
 Consultant: Lobarinas  
 IRSP Grant, University of Mississippi Medical Center  
 2/1/2017-1/31/2018

Hearing Preservation from Controlled Internal Jugular Vein Compression During Low or High Intensity Sound Exposure  
 PI: Lobarinas  
 Q30 Innovations  
 2/1/2018-5/1/2018

Evaluation of an artificial intelligence algorithm for assistive listening devices  
 PI: Lobarinas  
 UTD internal funding  
 2019-2020, \$1,200

Multifrequency Auditory Evoked Acoustic Reflex as a Proxy Measure of Subclinical Cochlear Damage  
 PI: Edward Lobarinas  
 UTD, BBS equipment grant  
 2021-2022

National Science Foundation (NSF) ADVANCE grant  
 CO-I, Edward Lobarinas  
 2021-2024

**Teaching: (see below)**

**Classroom teaching:**

<b>Undergraduate</b>			
2003-2006	Fall	CDS382 (SUNY Buffalo)	Physics of sound (undergraduate)
2013-2015	Fall	SPA3032 (University of Florida)	Fundamentals of Hearing (undergraduate)
<b>Graduate</b>			
2006-2012	Spring	CDS557 (SUNY Buffalo)	Hearing Aids II
2013-2015	Spring	SPA6010 (University of Florida)	Basic Auditory Science
2013-2015	Fall	SPA6905 (University of Florida)	Individual Study graduate research
2015-present	Fall	AUD6303 (UTD)	Hearing Science
2016-present	Fall	AUD7327 (UTD)	Evaluation and fitting of amplification systems
2016-present	Fall/Spring	AUD6V20.101 (UTD)	Laboratory procedures in Audiology
2016-present	Fall	AUD8V80 (UTD)	Individual Research in Audiology
2017-present	Fall/Spring	HCS8V88 (UTD)	Research in Communications Sciences

			and Disorders
2017-2018	Spring	AUD7V82 (UTD)	Seminar on Tinnitus
2017-present	Spring	AUD7321 (UTD)	Theories of Amplification
2018-present	Spring	AUD7110 (UTD)	Tinnitus

**Other: N/A**

**Service – reviewing, refereeing and administrative work with professional societies and organizations (e.g. editorship, associate editorship, officer, etc.); departmental, college, university committees; community service, etc.: (chronological order)**

### **Grant reviews**

2007-present

Ad hoc Grant Reviewer- Action on Hearing Loss (UK)

2007-present

Ad hoc Grant Reviewer American Tinnitus Association

2009-present

Ad hoc grant reviewer- Clinical Trials, Department of Defense Congressionally Directed Medical Research Program (CDMRP)

2010-present

Ad hoc grant reviewer- American Speech and Hearing Association

2012-present

Ad hoc grant reviewer- Veterans Administration Merit Grants

2014-present

Ad hoc grant reviewer, NIH-NIDCD

2015-present

Ad hoc grant reviewer, NIH- Academic Research Enhancement Award (AREA)

### **Journal reviews**

2008-present

Ad hoc reviewer- Hearing Research

2012-present

Ad hoc reviewer - Journal of Neurophysiology

2012-present

Ad hoc reviewer American Journal of Audiology

2012-present

Ad hoc reviewer Journal for the Association for Research in Otolaryngology

2013-present

Ad hoc reviewer ASHA American Journal of Audiology

2013-present  
Ad hoc reviewer Neuroscience

2013-present  
Ad hoc reviewer International Journal of Audiology

2014-present  
Ad hoc reviewer Journal of the Acoustical Society of America

2016-present  
Ad hoc reviewer Ear and Hearing

2018-present  
Editorial board member, ASHA American Journal of Audiology

### **Leadership**

2007-present  
Board of Directors- Hearing Evaluation Services of Buffalo

2010-2011  
Organizing committee member, 5<sup>th</sup> Annual Tinnitus Research Initiative Conference  
Niagara Falls, New York

2012-2014  
Audiologist Supervisor, Project Yucatan humanitarian mission, University of Florida, School of Public Health and Health Professions

2013-2014  
Chair of Student Appeals committee, University of Florida, School of Public Health and Health Professions

2017-2018  
Conference Chair Elect, National Hearing Conservation Association  
Conference, Orlando FL 2018

2017-2018  
Chair, Callier Research Prize Conference Committee, UTD

2018-2019  
Conference Chair, National Hearing Conservation Association  
Conference, Grapevine Texas

2021-2022  
Chair, UTD Faculty Search Committee for Speech, Language and Hearing

### **Dissertation committees**

2013-2016  
Ph.D. dissertation committee member, University of Florida, School of Public Health and Health Professions

2016-2019  
Ph.D. dissertation committee member UTD, BBS

2017-present  
Ph.D. dissertation committee chair, UTD, BBS

### **Committees**

2007-present  
Pharmacological Workgroup - Tinnitus Research Initiative

2007-2012  
Scientific Advisory Committee Member- American Tinnitus Association

2012-2013  
Member of the Student Development Subcommittee, University of Florida, School of Public Health and Health Professions

2013-2015  
Au.D. Program admissions committee, University of Florida, School of Public Health and Health Professions

2013-2014  
Member of the Association for Research in Otolaryngology, Animal Research Committee

2016-present  
AuD. Program curriculum committee, UTD, BBS, Audiology Program

2016-2019  
AuD. Program admissions committee, UTD, BBS, Audiology Program

2016-present  
Ad Hoc Committee for Granting of Tenure and Promotion, UTD, BBS

2017-present  
Editorial board, American Journal of Audiology; ASHA

2018-present  
Callier post-doc admissions committee, UTD, BBS

2018-present  
Ad Hoc Faculty hire search committee, UTD, BBS

2018-present  
Committee for the Support of Diversity and Equity, UTD

