

Brandon C. Cox, Ph.D.

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EDUCATION

2008 Ph.D., Pharmacology, Georgetown University, Washington, DC

1999 B.S. Biology, University of Richmond, Richmond, VA

PROFESSIONAL EXPERIENCE

2018 – present Associate Professor with Tenure, Department of Pharmacology, Southern Illinois University School of Medicine, Springfield, IL

2018 – present Consultant, Otonomy, Inc., San Diego, CA

2017 – present Consultant, Turner Scientific, LLC, Jacksonville, IL

2014 – present Cross appointment to the Department of Surgery, Division of Otolaryngology, Southern Illinois University School of Medicine, Springfield, IL

2013 – 2018 Assistant Professor, Department of Pharmacology, Southern Illinois University School of Medicine, Springfield, IL

2008 - 2013 Postdoctoral Research Associate, St. Jude Children's Research Hospital, Memphis, TN
Mentor: Jian Zuo, Ph.D.

2002 - 2008 Graduate Student, Georgetown University, Washington, DC
Dissertation Title: Neuronal Nicotinic Acetylcholine Receptors in the Visual System.
Mentor: Kenneth J. Kellar, Ph.D.

2000 – 2002 Clinical Research Coordinator for psychiatric and neurological disorders, Chicago Center for Clinical Research, Protocare Trials (currently known as Radiant Research), Chicago, IL

1999 – 2000 Research Assistant, Chicago Center for Clinical Research, Protocare Trials (currently known as Radiant Research), Chicago, IL

1997 – 1999 Undergraduate Research, University of Richmond, VA
Expression of heat shock proteins in the gorgonian, *Leptogorgia virgulata*

FUNDING

Active Research Support (by role & date)

R01 DC014441 (Cox) 6/1/2016 – 5/31/2021

NIH/National Institute on Deafness and other Communicative Disorders

Title: Mechanisms that regulate hair cell survival

Role: PI

W81XWH-15-1-0475 (Cox) 9/15/2015 – 9/14/2018

Neurosensory and Rehabilitation Research Award Program, CDMRP

Office of the Assistant Secretary of Defense for Health Affairs, Department of Defense

Title: Investigation of Notch signaling in during spontaneous regeneration of cochlear hair cells

Role: PI

R01 DC00151 (D. Caspary, SIUSOM) 1/1/2016-12/31/2021

NIH/National Institute on Deafness and other Communicative Disorders

Title: Coding in Auditory Neurons: Effects of Amino Acids

Role: Co-investigator

N00014-16-1-2306 (D. Caspary, SIUSOM) 3/22/2016 – 2/28/2019

Office of Naval Research

Title: Targeting attentional mechanisms in tinnitus: contributions of the thalamic cholinergic system

Role: Co-investigator

R01 DC13771 (J. Stone, University of Washington) 4/1/2014 – 3/31/2019

NIH/National Institute on Deafness and other Communicative Disorders

Title: Vestibular hair cell turnover in normal mammals

Role: Co-investigator/Sub-award contract

Completed Research Support

Research Seed Grant for Residents (Ezeilo, SIUSOM) 1/1/2016-12/31/2016

Department of Surgery, Southern Illinois University School of Medicine

Title: The role of Pou4f3 in regulating survival of vestibular hair cells

Role: Mentor

N00014-15-1-2866 (Cox) 8/15/2015 – 8/14/2016

Defense University Research Instrumentation Program (DURIP)

Office of Naval Research

Title: Confocal microscope for the investigation of hearing loss, otoprotection, and tinnitus

Role: PI

N00014-13-1-0569 (Cox) 4/1/2013 – 9/30/2015

Office of Naval Research

Title: Cell source and mechanism of hair cell regeneration in the neonatal mouse cochlea

Role: PI

Team Development Grant (Cox/Caspary) 1/1/2014 – 12/31/2014

Southern Illinois University School of Medicine

Title: Acoustic nerve synapse loss changes central auditory transmission: new targets for treating age-related hearing loss

Role: PI with Don Caspary co-PI

NIH Pediatric Research Loan Repayment Grant (Cox) 7/1/2013 – 6/30/2014

2nd Competitive renewal

Funded by the National Center for Advancing Translational Sciences (NCATS)

NIH Pediatric Research Loan Repayment Grant (Cox) 7/1/2012 – 6/30/2013

Competitive renewal

Funded by the National Institute on Deafness and Other Communication Disorders (NIDCD)

NIH Pediatric Research Loan Repayment Grant (Cox) 7/1/2010 – 6/30/2012

Funded by the National Institute on Deafness and Other Communication Disorders (NIDCD)

NRSA F32 DC010310 (Cox) 7/1/2010 – 6/30/2013

NIH/ National Institute on Deafness and Other Communication Disorders

Title: p16INK4a in mammalian cochlear hair cell regeneration

Role: PI

Mentor: Jian Zuo, Ph.D.

John Neasmith Dickinson Memorial Research Grant (Cox) 5/15/1999 – 8/15/1999

University of Richmond

Title: Expression of heat shock proteins in the gorgonian, *Leptogorgia virgulata*

Role: PI

Mentors: Roni Kingsley, Ph.D. and Valerie Kish, Ph.D.

ACADEMIC & PROFESSIONAL HONORS

- 2016 Invited speaker at the Gordon Research Conference on the Auditory System
- 2016 Forty under 40 in Springfield, *Springfield Business Journal*, Springfield, IL
- 2016 Young Medical Innovator Award, Sangamon County Medical Society, Springfield, IL
- 2015 Invitation to AAMC's Early Career Women Faculty Professional Development Seminar, Denver, CO (competitive application process)
- 2014 1st place poster presentation at the 5th Annual Symposium on Teaching and Learning, Southern Illinois University School of Medicine, Springfield, IL
- 2013 Nominated for the Presidential Early Career Award for Scientists and Engineers (PECASE) by the Office of Naval Research
- 2012 Invitation to the NIH/NIGMS Workshop for Postdocs Transitioning to Independent Positions, NIH, Bethesda, MD (competitive application process)
- 2007 Invitation to the National Graduate Student Symposium, St. Jude Children's Research Hospital, Memphis, TN (competitive application process)
- 2006 "Spinning the Spider Web" Award, given for service as the Washington DC alumni chapter president from the University of Richmond
- 2005 & 2006 Medical Center Graduate Student Organization Travel Grant, Georgetown University, Washington, DC
- 2000 Certification in Alzheimer's Disease Assessment Scale (ADAS), Rush-

1996 Presbyterian St. Luke's Medical Center, Chicago, IL
Beta Beta Beta Biology Honor Society Induction, University of Richmond, VA

PROFESSIONAL ORGANIZATIONS

2013 – present Member, American Society for Pharmacology and Experimental Therapeutics
2009 – present Member, American Association for the Advancement of Science
2008 – present Member, Association for Research in Otolaryngology
2004 – present Member, Society for Neuroscience
2008 – 2013 Member, National Postdoctoral Association

PEER-REVIEWED PUBLICATIONS

Stone JS, Wisner SR, Bucks SA, Mellado Lagarde MM, and **Cox BC** (2018) Characterization of adult vestibular organs in 11 CreER mouse lines. *J Assoc Res Otolaryngol* 19(4):381-399. DOI: [10.1007/s10162-018-0676-6](https://doi.org/10.1007/s10162-018-0676-6)

McGovern MM, Zhou L, Randle MR, and **Cox BC** (2018) Spontaneous hair cell regeneration is prevented by increased Notch signaling in supporting cells. *Front Cell Neurosci* 12:120. DOI: [10.3389/fncel.2018.00120](https://doi.org/10.3389/fncel.2018.00120)

Cai, R, Montgomery SC, Graves KA, Caspary DM, and **Cox, BC** (2018) The FBN rat model of aging: investigation of ABR waveforms and ribbon synapse changes. *Neurobiol Aging* 62:53-63. DOI: [10.1016/j.neurobiolaging.2017.09.034](https://doi.org/10.1016/j.neurobiolaging.2017.09.034)

Sottile SY, Ling L, **Cox BC**, and Caspary DM (2017) Impact of aging on postsynaptic neuronal nicotinic neurotransmission in auditory thalamus. *J Physiol* 595(15):5375-5385. DOI: [10.1113/JP274467](https://doi.org/10.1113/JP274467)

Bucks SA, **Cox BC**, Vlosich BA, Manning JP, Nguyen TB and Stone JS (2017) Supporting cells remove and replace sensory receptor hair cells in a balance organ of adult mice. *eLife* 6:e18128 DOI: [10.7554/eLife.18128](https://doi.org/10.7554/eLife.18128)

McGovern MM, Brancheck J, Grant AC, Graves KA, and **Cox BC**. (2017) Quantitative analysis of supporting cell subtype labeling among CreER lines in the neonatal mouse cochlea. *J Assoc Res Otolaryngol* 18(2): 227-245. DOI: [10.1007/s10162-016-0598-0](https://doi.org/10.1007/s10162-016-0598-0)
-image chosen for journal cover

Montgomery SC and **Cox BC** (2016) Whole mount dissection and immunofluorescence of the adult mouse cochlea. *J Vis Exp* 107:e53561. DOI: [10.3791/53561](https://doi.org/10.3791/53561)

Walters BJ*, Liu Z*, Crabtree M*, Coak E, **Cox BC**, and Zuo J. (2014) Auditory hair cell-specific deletion of p27^{Kip1} in postnatal mice promotes cell-autonomous generation of new hair cells and normal hearing. *J Neurosci*, 34:15751-15763. DOI: [10.1523/JNEUROSCI.3200-14.2014](https://doi.org/10.1523/JNEUROSCI.3200-14.2014)

*authors contributed equally

Cox BC, Dearman JA, Brancheck J, Zindy F, Roussel MF, and Zuo J. (2014) Generation of Atoh1-rtTA transgenic mice: a tool for inducible gene expression in hair cells of the inner ear. *Sci Rep* 4:6885. DOI: [10.1038/srep06885](https://doi.org/10.1038/srep06885)

Cox BC*, Chai R*, Lenoir A, Liu Z, Zhang L, Nguyen D, Chalasani K, Steigelman KA, Fang J, Rubel EW, Cheng AG, and Zuo J. (2014) Spontaneous hair cell regeneration in the neonatal mouse cochlea in vivo. *Development* 141:816-829. DOI: [10.1242/dev.103036](https://doi.org/10.1242/dev.103036)

*authors contributed equally

Mellado Lagarde, MM, **Cox BC**, Fang J, Taylor R, Forge A, and Zuo J. (2013) Selective ablation of pillar and Deiters' cells severely affects cochlear postnatal development and hearing function in mice. *J Neurosci* 33:1564-1576. DOI: [10.1523/JNEUROSCI.3088-12.2013](https://doi.org/10.1523/JNEUROSCI.3088-12.2013)

Liu Z, Walters BJ, Owen T, Brimble MA, Steigelman KA, Zhang L, Mellado Lagarde MM, Valentine MB, Yu Y, **Cox BC**, and Zuo J. (2012) Regulation of p27^{Kip1} by Sox2 maintains quiescence of inner pillar cells in the murine auditory sensory epithelium. *J Neurosci* 32:10530-10540. DOI: [10.1523/JNEUROSCI.0686-12.2012](https://doi.org/10.1523/JNEUROSCI.0686-12.2012)

Burns J*, **Cox BC***, Thiede BR, Zuo J, and Corwin JT. (2012) In vivo proliferative regeneration of balance hair cells in newborn mice. *J Neurosci* 32:6570-6577. DOI: [10.1523/JNEUROSCI.6274-11.2012](https://doi.org/10.1523/JNEUROSCI.6274-11.2012)

*authors contributed equally

-image chosen for journal cover

-selected by Faculty of 1000: Groves A: 2012. <http://f1000.com/715348057#eval790903108>

Liu Z, Dearman JA, **Cox BC**, Walters BJ, Zhang L, Ayrault O, Zindy F, Gan L, Roussel M, and Zuo J. (2012) Age-dependent in vivo conversion of mouse cochlear pillar and Deiters' cells to immature hair cells by Atoh1 ectopic expression. *J Neurosci* 32: 6600-6610. DOI: [10.1523/JNEUROSCI.0818-12.2012](https://doi.org/10.1523/JNEUROSCI.0818-12.2012)

-selected by Faculty of 1000: Groves A & Fekete D: 2012.

<http://f1000.com/715348058#eval790903109>

Yu Y, Weber T, Yamashita Y, Liu Z, Valentine MB, **Cox BC**, and Zuo J. (2010) In vivo proliferation of postmitotic cochlear supporting cells by acute ablation of the retinoblastoma protein in neonatal mice. *J Neurosci* 30: 5927-5936. DOI: [10.1523/JNEUROSCI.5989-09.2010](https://doi.org/10.1523/JNEUROSCI.5989-09.2010)

Cox BC, Marritt AM, Perry DC, and Kellar KJ. (2008) Transport of multiple nicotinic acetylcholine receptors in the rat optic nerve: High densities of receptors containing $\alpha 6$ and $\beta 3$ subunits. *J Neurochem* 105: 1924-1938. DOI: [10.1111/j.1471-4159.2008.05282.x](https://doi.org/10.1111/j.1471-4159.2008.05282.x)

Marritt AM, **Cox BC**, Yasuda RP, McIntosh JM, Xiao Y, Wolfe BB, and Kellar KJ. (2005) Nicotinic cholinergic receptors in the rat retina: simple and mixed heteromeric subtypes. *Mol Pharmacol* 68: 1656-1668. DOI: [10.1124/mol.105.012369](https://doi.org/10.1124/mol.105.012369)

Kingsley RJ, Affif E, **Cox BC**, Kothari S, Kriechbaum K, Kuchinsky K, Neill AT, Puri AF, and Kish VM. (2003) Expression of heat shock and cold shock proteins in the gorgonian *Leptogorgia virgulata*. *J Exp Zool A Comp Exp Biol* 296: 98-107. DOI: [10.1002/jez.a.10248](https://doi.org/10.1002/jez.a.10248)

REVIEWS AND BOOK CHAPTERS

Cox BC, Liu Z, Mellado Lagarde MM, and Zuo J. (2012) Conditional gene expression in the mouse inner ear using Cre-loxP. *J Assoc Res Otolaryngol* 13:295-322. DOI: [10.1007/s10162-012-0324-5](https://doi.org/10.1007/s10162-012-0324-5)

INVITED TALKS – CONFERENCES

Association for Research in Otolaryngology:41st annual midwinter meeting. Mentoring session on the NIH loan repayment program. 2018 February 10, San Diego, CA.

Society for Neuroscience 47th Annual Meeting. Nanosymposium 548: Hair cells, The Notch ligand Jagged1 is required for the survival of supporting cells in the postnatal mouse cochlea. 2017 November 11-15, Washington, DC.

US Army Medical Research and Materiel Command Clinical and Rehabilitative Medicine Hearing and Balance In-Progress Review Meeting. Investigation of Notch signaling in during spontaneous regeneration of cochlear hair cells. 2017 August 3, Fort Detrick, MD.

Association for Research in Otolaryngology:40th annual midwinter meeting. Mentoring session on job search and independence. 2017 February 13, Baltimore, MD

Association for Research in Otolaryngology:40th annual midwinter meeting. Mentoring session on the NIH loan repayment program. 2017 February 14, Baltimore, MD

Gordon Research Conference on the Auditory System. Cellular and molecular mechanisms that regulate spontaneous hair cell regeneration in the neonatal mouse cochlea. July 10-15, 2016, Bates College, Lewiston, ME.

Noise-Induced Hearing Loss Program Review, Office of Naval Research. Cell source and mechanism of hair cell regeneration in the neonatal mouse cochlea. August 4-7, 2014, Annapolis, MD.

Keynote speaker at the *Iowa Center for Molecular Auditory Neuroscience Symposium, University of Iowa*. Spontaneous hair cell regeneration in the neonatal mouse cochlea and utricle in vivo. October 17, 2013, Iowa City, IA.

Noise-Induced Hearing Loss Program Review, Office of Naval Research. Cell source and mechanism of hair cell regeneration in the neonatal mouse cochlea. August 21-24, 2012, Baltimore, MD.

INVITED TALKS – UNIVERSITIES

Department of Neurobiology and Anatomical Sciences, University of Mississippi Medical Center. Plasticity in the auditory and vestibular systems. October 10, 2017, Jackson, MS.

Postdoctoral Fellows Professional Development Symposium, St. Jude Children's Research Hospital. On the Move: 3 part series, Academia versus Industry & Mock interview sessions. May 24-26, 2017, Memphis, TN.

Southern Illinois University, Edwardsville School of Pharmacy. Plasticity in the auditory and vestibular systems. April 14, 2017, Edwardsville, IL.

Department of Biomedical Sciences, Creighton University. Cell source and mechanism of spontaneously regenerated hair cells in the neonatal mouse cochlea. October 24-25, 2016, Omaha, NE.

Department of Otolaryngology, University of Washington. Cell source and mechanism of spontaneously regenerated hair cells in the neonatal mouse cochlea. June 30, 2016, Seattle, WA.

Department of Otolaryngology, Washington University School of Medicine. Cell source and mechanism of spontaneously regenerated hair cells in the neonatal mouse cochlea. February 10, 2016, St. Louis, MO.

Postdoctoral Fellows Professional Development Symposium, St. Jude Children's Research Hospital. Career panel discussion & table topics discussion. May 28-29, 2015, Memphis, TN.

Department of Pharmacology & Physiology, Georgetown University. Using mouse genetic models to investigate the mechanism of spontaneous hair cell regeneration in the neonatal mouse cochlea. November 20, 2014, Washington, DC.

Department of Physiology, Southern Illinois University Carbondale. Using mouse genetic models to investigate the mechanism of spontaneous hair cell regeneration in the neonatal mouse cochlea. October 3, 2014, Carbondale, IL.

Department of Pharmacology, Howard University, College of Medicine. In vivo hair cell regeneration in the neonatal mouse cochlea and utricle. December 5, 2012, Washington, DC.

Department of Otolaryngology, Head and Neck Surgery, Case Western Reserve University, School of Medicine. In vivo hair cell regeneration in the neonatal mouse cochlea and utricle. November 26, 2012, Cleveland, OH.

Department of Anatomy, Physiology, and Genetics, Uniformed Services University of the Health Sciences. In vivo hair cell regeneration in the neonatal mouse cochlea and utricle. November 19, 2012, Bethesda, MD.

Department of Biomedical Sciences, Marquette University, College of Health Sciences. In vivo hair cell regeneration in the neonatal mouse cochlea and utricle. November 11, 2012, Milwaukee, WI.

Biomedical Research Symposium, St Jude Children's Research Hospital. In vivo hair cell regeneration in the neonatal mouse cochlea. October 29, 2012, Memphis, TN.

Department of Pharmacology, Southern Illinois University School of Medicine. In vivo hair cell regeneration in the neonatal mouse cochlea. October 24, 2012, Springfield, IL.

Department of Biology, Fall seminar series, Rhodes College. In vivo hair cell regeneration in the neonatal mouse cochlea, September 22, 2011 Memphis, TN.

School of Audiology and Speech-Language Pathology Communication Sciences and Disorders colloquium, University of Memphis. In vivo hair cell regeneration in the neonatal mouse cochlea. March 4, 2011, Memphis, TN.

Postdoctoral Annual Retreat (one of eight chosen speakers), St Jude Children's Research Hospital. In vivo hair cell regeneration in the neonatal mouse cochlea. March 2, 2011, Memphis, TN.

PUBLISHED ABSTRACTS

McGovern MM, Zhou L, Randle MR, and **Cox BC** (2018) Increased Notch signaling at birth induces widespread proliferation and ectopic hair cells in the non-sensory tissue of the neonatal mouse cochlea. *Gordon Research Conference on the Auditory System*, 2018 July 8-12, Bryant University, Smithfield, RI

Zhou L, Darcy YL, Graves KA, Randle MR, and **Cox BC** (2018) The role of the Notch ligand Jagged1 in postnatal development of the mouse cochlea. *Gordon Research Conference on the Auditory System*, 2018 July 8-12, Bryant University, Smithfield, RI

Singh J, Randle, MR, Gregory S, Larsen D, Walters BJ, and **Cox BC** (2018) Targeted deletion of *Pou4f3* causes hair cell loss in the early postnatal and adult mouse cochlea. *Gordon Research Conference on the Auditory System*, 2018 July 8-12, Bryant University, Smithfield, RI

Cuppini CL, McGovern MM, Randle MR, and **Cox, BC** (2018) Investigating the cellular source of regenerated hair cells in the neonatal mouse cochlea. *American College of Physicians Internal Medicine Meeting*, 2018 April 19-21, New Orleans, LA (poster presentation)

Ezeilo N and **Cox BC** (2018) The role of *Pou4f3* in regulating survival of vestibular hair cells. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Randle MR and **Cox BC** (2018) Expression of the survival factor *Pou4f3* in regenerated hair cells of the neonatal mouse cochlea. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

McGovern MM, Randle MR, Zhou L, and **Cox BC** (2018) Maintaining active Notch signaling in supporting cells prevents spontaneous hair cell regeneration *in vivo*. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Singh J, Gregory S, Walters BJ, and **Cox BC** (2018) Conditional deletion of *Pou4f3* in outer hair cells causes cell death in the postnatal mouse cochlea. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Chrysostomou E, Zhou L, Graves KA, Darcy YL, Randle MR, Doetzlhofer A, and **Cox BC** (2018) The Notch ligand Jagged1 is required for the survival of supporting cells in the mouse cochlea. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Hicks K, Wisner S, **Cox BC**, and Stone JS (2018) Atoh1 is required in supporting cells for regeneration of type II hair cells in utricles of adult mice. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Massoodnia R, **Cox BC**, Pujol R, Warchol ME, and Stone JS (2018) Postnatal development of vestibular nerve afferents and hair cells in mouse utricles. *Association for Research in Otolaryngology:41st annual midwinter meeting*, 2018 February 10-14, San Diego, CA (poster presentation)

Cox BC and Koehler J (2017) Giving Lectures a FACE Lift (Focus, Attention, Concentration, and Engagement). *8th Annual Symposium for Teaching and Learning*, 2017 April 20, Springfield, IL (small group discussion/workshop)

McGovern MM, Cuppini CL, Graves KA, Darcy YL, and **Cox, BC** (2017) Fate-mapping identifies supporting cell subtypes capable of spontaneously regenerating cochlear hair cells. *Association for Research in Otolaryngology:40th annual midwinter meeting*, 2017 February 11-15, Baltimore, MD (poster presentation & selected for poster blitz competition)

Randle MR and **Cox, BC** (2017) Evaluating the mechanism of regeneration in response to different amounts of hair cell damage in the neonatal mouse cochlea. *Association for Research in Otolaryngology:40th annual midwinter meeting*, 2017 February 11-15, Baltimore, MD (poster presentation)

Cox, BC, Ling LL, Sottile SY, and Caspary DM (2017) Aging may differentially impact neuronal nicotinic acetylcholine receptors in the inferior colliculus and auditory cortex. *Association for Research in Otolaryngology:40th annual midwinter meeting*, 2017 February 11-15, Baltimore, MD (poster presentation)

McGovern MM, Randle MR, Graves KA, Darcy YL and **Cox, BC** (2016) Differential ability of supporting cell subtypes to regenerate hair cells in the neonatal mouse cochlea. *Noise-Induced Hearing Loss Program Review, Office of Naval Research*, 2016 September 13-15, Memphis, TN (poster presentation)

Cai R, Montgomery, SC, Caspary DC, and **Cox, BC** (2016) Altered ABR waveforms and ribbon synapse changes in the FBN rat model of aging. *Association for Research in Otolaryngology: 39th annual midwinter meeting*, 2016 February 20-24, San Diego, CA (poster presentation)

McGovern MM, Randle MR, Graves-Ramsey KA, Darcy YL and **Cox, BC** (2016) Differential ability of supporting cell subtypes to regenerate hair cells in the neonatal mouse cochlea. *Association for Research in Otolaryngology:39th annual midwinter meeting*, 2016 February 20-24, San Diego, CA (poster presentation)

Bucks SA, **Cox BC**, Vlosich BA, Manning JP, Nguyen TB, and Stone JS. (2016) Supporting cells generate type II hair cells in undamaged and damaged adult mouse utricles. *Association for Research in Otolaryngology:39th annual midwinter meeting*, 2016 February 20-24, San Diego, CA (poster presentation)

Furrer Bucks SA, **Cox BC**, Vlosich BA, Nguyen TB, and Stone JS. (2015) Supporting cell-to-hair cell conversion occurs at an increased rate in damaged adult mouse utricles compared to normal hair cell turnover. *Auditory Development: From Cochlea to Cognition*, 2015 August 14-15, Seattle, WA (poster presentation)

Cox BC, Ling LL, Sametsky EA, Sottile SY, and Caspary DM. (2015) Subunit composition of neuronal nicotinic receptors in the medial geniculate body: impact of aging. *Association for Research in Otolaryngology: 38th annual midwinter meeting*, 2015 February 21-25, Baltimore, MD (poster presentation)

Furrer Bucks SA, **Cox BC**, Vlosich BA, Nguyen TB, Pujol R, and Stone JS. (2015) Supporting cell and hair cell populations are dynamic in adult mouse utricles. *Association for Research in Otolaryngology: 38th annual midwinter meeting*, 2015 February 21-25, Baltimore, MD (selected for oral presentation)

Randle MR, Karmarkar SW, and **Cox BC**. (2015) Expression of the hair cell survival factor, Pou4f3, in regenerated hair cells that spontaneously form in the neonatal mouse cochlea following damage. *Association for Research in Otolaryngology: 38th annual midwinter meeting*, 2015 February 21-25, Baltimore, MD (poster presentation)

Trone MM, Karmarka, SW, **Cox BC** (2015) Changes in the Notch Signaling Pathway during Spontaneous Hair Cell Regeneration in the Neonatal Mouse Cochlea. *Association for Research in Otolaryngology: 38th annual midwinter meeting*, 2015 February 21-25, Baltimore, MD (poster presentation)

Cox BC, Randle MRR and Karmarkar SW. (2014) Survival of regenerated hair cells in the neonatal mouse cochlea. *Society for Neuroscience 44th Annual Meeting*, 2014 November 15-19, Washington, DC. (poster presentation)

Trone MM, Karmarkar, SW, and **Cox BC**. (2014) Dynamic changes in the Notch signaling pathway after hair cell ablation in the neonatal mouse cochlea. *Joint meeting of the Midwest Auditory Research Conference and the Midwest Auditory Neuroscience Symposium*. 2014 July 23-25, Omaha, NE (oral presentation)

Cox BC, Randle MR, and Karmarkar SW. (2014) Regenerated hair cells that spontaneously form in the neonatal mouse cochlea do not express the survival factor, Pou4f3. *Joint meeting of the Midwest Auditory Research Conference and the Midwest Auditory Neuroscience Symposium*. 2014 July 23-25, Omaha, NE (oral presentation)

Trone MM, Brancheck J, Grant AC, Graves-Ramsey K, and, **Cox BC**. (2014) Using Cre-loxP mouse genetics to target specific cochlear supporting cell subtypes. *Joint meeting of the Midwest Auditory Research Conference and the Midwest Auditory Neuroscience Symposium*. 2014 July 23-25, Omaha, NE (poster presentation)

Cox BC, Zuo J, and Randle MR. (2014) Dose response of hair cell damage and regeneration in the neonatal mouse cochlea, *Joint meeting of the Midwest Auditory Research Conference and the Midwest Auditory Neuroscience Symposium*. 2014 July 17-19, St. Louis, MO. (oral presentation)

Furrer Bucks SA, Vlosich BA, Nguyen TB, **Cox BC**, Pujol R, and Stone JS. (2014) Evidence for hair cell turnover in adult mouse utricles. *Auditory System Gordon Research Conference*, 2014 July 13-18, Lewiston, ME (poster presentation)

Cox BC and Faingold C (2014) Flipping the classroom to teach substance abuse to sophomore medical students. *5th Annual Symposium for Teaching and Learning*, 2014 April 15, Springfield, IL (poster presentation)

*awarded 1st place poster presentation

Brancheck J and **Cox BC**. (2014) Using Cre-loxP mouse genetics to target specific cochlear supporting cell subtypes. *Association for Research in Otolaryngology: 37th annual midwinter research meeting*, 2014 February 22-26, San Diego, CA (poster presentation)

Randle MR, Zuo J, and **Cox BC**. (2014) Ablation of different quantities of hair cells in the neonatal mouse cochlea to examine mechanisms of regeneration. *Association for Research in Otolaryngology: 37th annual midwinter research meeting*, 2014 February 22-26, San Diego, CA (poster presentation)

Karmarkar S and **Cox BC**. (2014) Characterization of hair cell survival genes in regenerated hair cells in the neonatal mouse cochlea. *Association for Research in Otolaryngology: 37th annual midwinter research meeting*, 2014 February 22-26, San Diego, CA (poster presentation)

Cox BC, Furrer S, Nguyen TB, Mellado Lagarde MM, and Stone JS. (2014) Characterization of CreER activity in the adult vestibular sensory epithelium for eight CreER mouse lines. *Association for Research in Otolaryngology: 37th annual midwinter research meeting*, 2014 February 22-26, San Diego, CA (poster presentation)

Furrer SA, Nguyen TB, **Cox BC**, Pujol R, and Stone JS. (2014) Hair cell death and clearance in undamaged adult mouse utricles. *Association for Research in Otolaryngology: 37th annual midwinter research meeting*, 2014 February 22-26, San Diego, CA (poster presentation)

Cox BC, Nguyen TB, and Stone JS. (2013) Characterization of six CreER mouse lines in the adult utricle. *Molecular Biology of Hearing & Deafness Conference*, 2013 June 22-25, Palo Alto, CA. (poster presentation)

Cox BC and Zuo J (2013) Dose response of hair cell damage and regeneration in the neonatal mouse cochlea. *Association for Research in Otolaryngology: 36th annual midwinter research meeting*, 2013 February 16-20, Baltimore, MD. (selected for oral presentation)

Chai R, Tong L, **Cox BC**, Chalasani K, Wang T, Xue A, Nookala V, Huang G, Pham XP, Zuo J, Rubel EW, and Cheng A (2013) Lineage tracing reveals supporting cells contributing to hair cell regeneration in the neonatal mouse cochlea in vivo. *Association for Research in Otolaryngology: 36th annual midwinter research meeting*, 2013 February 16-20, Baltimore, MD. (selected for oral presentation)

Walters BJ, Liu Z, Crabtree M, **Cox BC**, and Zuo J (2013) Ablation of p27Kip1 in mouse auditory hair cells results in cell proliferation and long term survival of postnatally produced hair cells. *Association for Research in Otolaryngology: 36th annual midwinter research meeting*, 2013 February 16-20, Baltimore, MD. (selected for oral presentation)

Dearman, JA, **Cox BC** and Zuo J (2013) Generation of Atoh1-rtTA transgenic mice to transiently alter gene expression in hair cells. *Association for Research in Otolaryngology: 36th annual midwinter research meeting*, 2013 February 16-20, Baltimore, MD. (poster presentation)

Cox BC, Dearman J, Papal S, Steigelman KA, Valentine MB and Zuo J (2012) The role of p16^{Ink4a} in mammalian hair cell regeneration. *Association for Research in Otolaryngology: 35th annual midwinter research meeting*, 2012 February 25-29, San Diego, CA. (selected for oral presentation)

Cox BC, Lenoir A, Zhang L, Steigelman KA, Fang J and Zuo J. (2012) In vivo hair cell regeneration in the neonatal mouse cochlea. *Association for Research in Otolaryngology: 35th annual midwinter research meeting*, 2012 February 25-29, San Diego, CA. (selected for oral presentation)

Liu Z, Walters B, Owen T, Steigelman KA, Zhang L, Mellado Lagarde MM, Valentine M, Yu Y, **Cox BC**, and Zuo J. (2012) Regulation of p27^{Kip1} by Sox2 is required to maintain quiescence of neonatal and juvenile inner pillar cells in the mouse auditory sensory epithelium. *Association for Research in Otolaryngology: 35th annual midwinter research meeting*, 2012 February 25-29, San Diego, CA. (poster presentation)

Liu Z, Dearman J, **Cox BC**, Walters B, Zhang L, Ayrault O, Zindy F, Gan L, Roussel M, and Zuo J. (2012) Age-dependent in vivo conversion of mouse cochlear pillar and Deiters' cells to immature hair cells by Atoh1 ectopic expression. *Association for Research in Otolaryngology: 35th annual midwinter research meeting*, 2012 February 25-29, San Diego, CA. (poster presentation)

Cox BC, Lenoir A, Zhang L, Steigelman KA and Zuo J. (2010) Hair cell damage in the neonatal mouse cochlea using forced expression of diphtheria toxin. *Association for Research in Otolaryngology: 33rd annual midwinter meeting*, 2010 February 6-10, Anaheim, CA. (selected for oral presentation)

Mellado Lagarde MM, Lenoir A, **Cox BC**, and Zuo J. (2010) Specific ablation of neonatal cochlear supporting cells in vivo by expression of diphtheria toxin. *Association for Research in Otolaryngology: 33rd annual midwinter meeting*, 2010 February 6-10, Anaheim, CA. (selected for oral presentation)

Cox BC, Papal S, Steigelman KA, Valentine MB and Zuo J. (2009) Effect of p16^{Ink4a} deletion on cochlear hair cells. *Association for Research in Otolaryngology: 32nd annual midwinter research meeting*, 2009 February 14-19, Baltimore, MD. (selected for oral presentation)

Cox BC, Lenoir A, Papal S and Zuo J. (2009) Damage of neonatal cochlear hair cells in mice using genetic ablation. *Society for Neuroscience 39th Annual Meeting*, 2009 October 17-21, Chicago, IL. (poster presentation)

Cox BC, Papal S, Steigelman KA and Zuo J. (2008) Effect of p16^{Ink4a} deletion on cochlear hair cells after damage with ototoxic drugs. *Society for Neuroscience 38th Annual Meeting*, 2008 November 15-19, Washington, DC. (poster presentation)

Cox BC, Marritt AM, Yasuda RM, Xiao Y, Fan H, Wolfe BB and Kellar KJ. (2006) Transport of neuronal nicotinic acetylcholine receptors in the rat optic nerve. *Society for Neuroscience 36th Annual Meeting*, 2006 October 14-18, Atlanta, GA. (poster presentation)

Cox BC, Xiao Y, and Kellar KJ. (2005) WERI-Rb-1, a human retinoblastoma cell line, expresses neuronal nicotinic acetylcholine receptors. *Society for Neuroscience 35th Annual Meeting*, 2005 November 12-16, Washington, DC. (poster presentation)

LOCAL SYMPOSIA

Ezeilo N and **Cox BC** (2018) The role of Pou4f3 in regulating survival of vestibular hair cells. *16th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2018 June 08, Springfield, IL (oral presentation)

Montgomery SC and **Cox BC** (2018) The FBN rat model of aging: Investigation of ABR waveforms and ribbon synapse changes. *16th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2018 June 08, Springfield, IL (oral presentation)

Zhou L, Darcy YL, Graves KA, Randle MR, and **Cox, BC** (2018) The Notch ligand Jagged1 is required for the survival of Hensen cells in the mouse cochlea. *16th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2018 June 08, Springfield, IL (oral presentation)

Cuppini CL, McGovern MM, Randle MR, and **Cox, BC** (2018) Investigating the cellular source of regenerated hair cells in the neonatal mouse cochlea. *28th Annual Medical Student & Resident Research Symposium, Southern Illinois University School of Medicine*, 2018 April 18, Springfield, IL (oral presentation)

Zhou L, Darcy YL, Graves KA, Randle MR, and **Cox, BC** (2018) The Notch ligand Jagged1 is required for the survival of Hensen cells in the mouse cochlea. *28th Annual Graduate Student Research Symposium, Southern Illinois University School of Medicine*, 2018 April 26, Springfield, IL (poster presentation)

Singh J, Randle MR, Gregory S, Walters BJ and **Cox, BC** (2018) Pou4f3 is required for survival of hair cells in the early postnatal and adult mouse cochlea. *28th Annual Graduate Student Research Symposium, Southern Illinois University School of Medicine*, 2018 April 26, Springfield, IL (poster presentation)

Ezeilo N and **Cox BC** (2018) The role of Pou4f3 in regulating survival of vestibular hair cells. *17th Annual Surgery Resident Research Day, Southern Illinois University School of Medicine*, 2018 April 12, Springfield, IL (oral presentation)

*awarded 1st place basic science presentation

Ezeilo N and **Cox BC** (2017) The role of Pou4f3 in regulating survival of vestibular hair cells. *15th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2017 June 09, Springfield, IL (oral presentation)

*awarded 1st place basic science presentation

McGovern MM, Cuppini CL, Graves KA, Darcy YL, and **Cox BC** (2017) The majority of spontaneously regenerated hair cells come from pillar and Deiters' cells compared to other supporting cell subtypes. *27th Annual Graduate Student Research Symposium, Southern Illinois University School of Medicine*, 2017 April 21, Carbondale, IL (poster presentation)

Cox BC (2016) Research updates on gene therapy for cochlear hair cell regeneration. *14th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2016 June 03, Springfield, IL (oral presentation)

Montgomery SC and **Cox BC** (2016) Ribbon Synapse Changes in the FBN Rat Model of Aging. *14th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2016 June 03, Springfield, IL (oral presentation)

McGovern MM, Randle MR, Graves KA, Darcy YL, and **Cox BC** (2016) Differential ability of supporting cell subtypes to regenerate hair cells in the neonatal mouse cochlea. *14th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2016 June 03, Springfield, IL (oral presentation)

Ezeilo N and **Cox BC** (2016) The role of Pou4f3 in regulating survival of vestibular hair cells. *14th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2016 June 03, Springfield, IL (oral presentation)

Gregory Moore C, Walters BJ, and **Cox BC** (2016) Investigation of Cochlear Hair Cell Survival Pathways. *14th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2016 June 03, Springfield, IL (oral presentation)

Montgomery SC and **Cox BC**. (2016) Ribbon synapse changes in the FBN rat model of aging. *15th Annual Surgery Resident Research Day, Southern Illinois University School of Medicine*, 2016 April 29, Springfield, IL (oral presentation)

*awarded 1st place basic science research presentation

McGovern MM, Randle MR, Graves KA, Darcy YL, and **Cox BC** (2016) Differential ability of supporting cell subtypes to regenerate hair cells in the neonatal mouse cochlea. *26th Annual Graduate Student Research Symposium, Southern Illinois University School of Medicine*, 2016 April 29, Springfield, IL (oral presentation)

*awarded 2nd place oral presentation

Garland SR, Randle MRR, and **Cox BC**. (2015) The role of Pou4f3 in the regulation of hair cell survival in the adult cochlea. *13th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2015 June 5, Springfield, IL (oral presentation)

Montgomery SC and **Cox BC**. (2015) Age-related Hearing Loss and Changes in Ribbon Synapses. *13th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day, Southern Illinois University School of Medicine*, 2015 June 5, Springfield, IL (oral presentation)

Cox BC. (2015) The role of p16^{Ink4a} in mammalian hair cell regeneration. *13th Annual Horst R. Konrad Visiting Professor & ENT Resident Research Day Southern Illinois University, School of Medicine*, 2015 June 5, Springfield, IL (oral presentation)

Trone MM, Karmarkar SW, and **Cox BC.** (2015) Changes in the Notch Signaling Pathway during spontaneous hair cell regeneration in the neonatal mouse cochlea. *25th Annual Graduate Student Research Symposium, Southern Illinois University School of Medicine*, 2015 April 25, Carbondale, IL (poster presentation)

*awarded 2nd place poster presentation

Garland SR, Randle MRR, and **Cox BC.** (2015) The role of Pou4f3 in the regulation of hair cell survival in the adult cochlea. *14th Annual Surgery Resident Research Day, Southern Illinois University School of Medicine*, 2015 May 8, Springfield, IL (oral presentation)

*awarded 2nd place basic science research presentation

TEACHING EXPERIENCE

Southern Illinois University School of Medicine

Course director and Instructor in PHRM-540: Responsible Conduct of Research (Ph.D. course)

2017 – present Course director

2017 – present Animal use in research session

Instructor in Sophomore Medical Curriculum, Cardiovascular, Renal, & Respiration Unit

Lecture given on the following topics:

2015 – present Antihistamines, Antitussives, Expectorants, Mucolytics, & Nasal Decongestants

Instructor in Sophomore Medical Curriculum, Neuromuscular and Behavior Unit

2014 – present Problem-based learning group facilitator

Lectures given on the following topics:

2015 – present Neuromuscular blockers & spasmolytics

2014 – present NSAIDs, inflammation & gout

2014 – present Opioids, pain & migraine

2014 – present Substance abuse (using flipped classroom method)

Instructor in the Senior Medical Curriculum

2014 – present Research in sensory pharmacology elective

Instructor in PHRM-530: Advanced Pharmacology & Neuroscience (Ph.D. course)

2014 – present Series of discussion sessions on Developmental Biology topics

Instructor in PHRM-550A & B: Principles of Pharmacology (Ph.D. and master's course)

Lectures given on the following topics:

2016 – present Antihistamines, Antitussives, Expectorants, Mucolytics, & Nasal Decongestants

2015 – present Neuromuscular blockers & spasmolytics

2015 – present Substance abuse

2013 – present Mouse genetics & epigenetics

2013 – present NSAIDs, Antipyretics, & Anti-inflammatory

2013 – present Opioids, NSAIDs, & Pain
2013 – present Migraine
2013 Drug/receptor interactions

Instructor in PHRM-577: Principles of Neuroscience (Ph.D. and master's course)

Lectures given on the following topics:

2015 – present Neurotransmitters
2015 – present Neurotransmitter receptors
2013 – present Cellular components of the nervous system
2013 – present Neurotransmitter release

Instructor in the Neuroscience course for Neurology & Neurosurgery Residents

Lecture given on the following topics:

2014 – present Cellular & subcellular components of the nervous system

Instructor in the Otolaryngology Resident Program

Lecture given on the following topics:

2014 – present Research updates on auditory & vestibular topics

Georgetown University

Instructor in NURS-204: Principles of Pharmacology (nursing school course)

Lecture given on the following topic:

2007 Reproductive pharmacology

Instructor in BIOL-370: Neurobiology (undergraduate course)

Lecture given on the following topic:

2006 - 2007 Drugs of abuse

Instructor in PHAR-516: Neuropharmacology (Ph.D. and master's course)

2006 - 2007 Cannabinoids

2006 **Course director** of ICOS-325: Diseases and Disorders of the Brain
(undergraduate course)

Instructor in ICOS-325: Diseases and Disorders of the Brain (undergraduate course)

Lectures given on the following topics:

2005 - 2006 Mood and anxiety disorders
2005 Alzheimer's disease

Instructor in PHAR-511: Fundamentals of Pharmacology (Ph.D. and master's course)

Lecture given on the following topic:

2005 Reproductive pharmacology

MENTORING EXPERIENCE

Southern Illinois University, School of Medicine

PhD students

- Melissa McGovern, PhD Student, 7/2014 – 10/2017

- selected to attend the Biology of the Inner Ear course at Woods Hole, MA (competitive application process)
- received travel award from Association for Research in Otolaryngology, 2016
- received travel award from Vice Chancellor for Research, Southern Illinois University School of Medicine, 2015

Postdocs

- Luyi Zhou, PhD, Postdoc, 8/2017 – present
- Jarnail Singh, PhD, Postdoc, 4/2017 – present
- Yuanzhao Lv Darcy, PhD, Postdoc, 11/2015 – 7/2017
- Sumedha Karmarkar, PhD, Postdoc, 9/2013 – 6/2014

Residents

- Betty Chen, MD, Otolaryngology Resident, 1/2018 – present
- Nnenna Ezeilo, MD: Otolaryngology Resident, 6/2015 – 6/2018
 - received Research Seed Grant for Residents from Department of Surgery, Southern Illinois University School of Medicine, 2016
 - received travel award from Association for Research in Otolaryngology, 2017
- Ryan Funk, MD, Otolaryngology Resident, 3/2017 – 10/2017
- Scott Montgomery, MD, Otolaryngology Resident, 1/2015 – 10/2017
- Stacie Garland, MD, Otolaryngology Resident, 9/2014 – 6/2015
- Mark Query, MD, Otolaryngology Resident, 9/2014 – 11/2014

Medical Students

- Bridget Ollesch, Medical student, 7/2017 – present
- Candice Cuppini, Medical student, 1/2017 – 4/2018
- Marie Varnet, Medical student, 1/2017 – 10/2017
- Max Crouse, Medical student, 10/2016 – 12/2017
- Cindy Gregory, Medical student, 12/2014 – 6/2016

Undergraduates

- Bridget Brian, Undergraduate Research Intern, senior from University of Illinois at Springfield, 1/2018 – 5/2018
 - received Hemal Vakharia Memorial Award from Southern Illinois University School of Medicine, 2018
- Ruth Brown, Undergraduate Summer Research Intern, sophomore from University of Kentucky, 6/2017 – 7/2017
- Auston “Cody” Grant, Undergraduate Summer Research Intern, senior from University of the Tampa, 5/2014 – 8/2014 and 3/2015 – 6/2015
 - received Hemal Vakharia Memorial Award from Southern Illinois University School of Medicine, 2015
- Neil Parker, Undergraduate Summer Research Intern, junior from Southern Illinois University, Edwardsville, 6/2013 – 8/2013

St. Jude Children's Research Hospital

- Kristin Ates: Summer Research Intern, senior from Tulane University, 5/2012 – 8/2012
- Anne Lenoir: Master's student from Universite Paris-Diderot, Paris 7, 4/2009 – 8/2009
- Samantha Papat: Master's student from Universite Paris-Diderot, Paris 7, 4/2008 – 8/2008

Georgetown University

- Tara Levin: Summer Research Intern, senior from Oberlin University, 5/2007 – 8/2007
- Jordan Magarik: Summer Research Intern, senior from Vanderbilt University, 5/2006 – 8/2006

GRADUATE STUDENT THESIS COMMITTEES

Southern Illinois University, School of Medicine

2014 – 2017	Vikrant Borse, Department of Pharmacology
2013 – 2016	Aarushi Sharma, Department of Pharmacology
2013 – 2015	Yuanzhao Lv, Department of Pharmacology

GRANT REVIEW SERVICE

2018	Reviewer, Department of Defense, Army Medical Research Materiel Command Broad Agency Announcement
2018	Reviewer, Medical Research Council, UK
2018	Reviewer, NIH/NIDCD Special Emphasis panel
2017	Reviewer, Department of Defense, Congressionally Directed Medical Research Program (DOD CDMRP)
2014 & 2016	Reviewer, Action on Hearing Loss Foundation

REVIEWER SERVICE FOR PEER-REVIEWED JOURNALS

Aging Cell
Cell & Tissue Research
Comparative Medicine
Experimental Gerontology
Hearing Research
International Journal of Audiology
Journal of the Association for Research in Otolaryngology
Journal of Visualized Experiments
Molecular Neurobiology
Neuroscience
Scientific Reports

OTHER SERVICE

Southern Illinois University School of Medicine

2018– present	Member, Research Policy Committee
2017 – present	Member, Population Science and Health Steering Committee
2016 – present	Member, Associate Dean for Research Search Committee

2014 – present Member, Graduate Program Committee, Department of Pharmacology
 2014 – present Member, Information Management Policy Committee
 2013 – present Member, Laboratory Animal Care and Use Committee
 2016 Co-chair, Research Collaboration Retreat Committee
 2014 – 2017 Member, Grant Review Committee
 2014 – 2016 Member, Somani Award Committee, Department of Pharmacology
 2013 – 2016 Interviewer, Medical School Admissions Committee
 2016 Presenter, Library Lightning Talks, *Publishing a Video Article in JoVE (the Journal of Visualized Experiments)*
 2016 Presenter, *Navigating the New Animal Protocol Forms*
 2015 Member, Research Collaboration Retreat Committee
 2014 Presenter, *Creating an Educational Video: Putting the Pieces Together*

Department of Defense

2016 – present Member, Pharmaceutical Interventions for Hearing Loss (PIHL) working group

Association for Research in Otolaryngology

2018 – present Member, Membership committee
 2018 – present Member, Long Range Planning committee
 2017 Moderator, 40th annual midwinter research meeting. Regeneration I session.
 2015 Moderator, 38th annual midwinter research meeting. Development I session.
 2011 Moderator, 34th annual midwinter research meeting. Development III session.

St. Jude Children’s Research Hospital

2009 – 2013 Abstract writer for www.Cure4Kids.org

S.C.R.A.P.S., a monthly publication for Scientists, Clinicians and Researchers Affiliated with the Postdoctoral Society

2010 – 2013 Contributing author
 2009 – 2010 Editor

Postdoctoral Association Council

2010 – 2011 Vice Chair of Benefits
 2009 – 2010 Vice Chair of Communications
 2008 – 2009 Vice Chair of Volunteer Activities

Other Service Activities

2006 – 2008 President, University of Richmond Washington DC alumni chapter
 2005 Member, Richmond Council, University of Richmond, Richmond, VA
 2004 – 2006 Student representative, Pharmacology Department, Georgetown University, Washington, DC
 2002 – 2006 Co-chair, University of Richmond Washington DC young alumni chapter

SCIENTIFIC OUTREACH

2013 – present Annual lab tours for IL EPA staff and IEPA Governor’s Environmental Corps Interns

- 2015 – present Annual lab tour for University of Illinois Springfield clinical lab science students
- 2018 Lab tour for Chinese delegation of the American Council of Young Political Leaders
- 2018 Lab tour for Franklin high school students
- 2017 Lab tour for Leadership Springfield
- 2016 Presentation on hearing loss to employees of Transnetyx, Inc, Cordova, TN
- 2016 Lab tour for Illinois State Representative, Sara Jimenez
- 2016 Lab tour for Western Illinois University pre-health club
- 2015 Presentation on hearing & hair cell regeneration to Medical Explorers (high school students), Southern Illinois University School of Medicine, Springfield, IL
- 2015 Podcast on hearing & hair cell regeneration (middle & high school level), Science Sound Bites, Memphis, TN
- 2015 Presentation on hearing to 8-13 year olds, SIU Take Your Kids to Work Day, Southern Illinois University School of Medicine, Springfield, IL
- 2015 Article for Teacher Tools e-magazine, Supporting Success for Children with Hearing Loss Foundation, Tampa, FL
- 2015 Lab tour for SIU alumnus (Dr. David Riesenberger '79) & his grandson