

CURRENT AFFILIATION	Department of Physiological Sciences University of Florida Gainesville, FL 32610	
EDUCATION	<b>University of South Carolina School of Medicine</b> , Columbia, SC. <i>Ph.D., Biomedical Sciences; focus in Neuroscience.</i>	Aug 2004 - Aug 2008
	<b>University of Newcastle, Newcastle</b> , New South Wales, Australia. <i>Regents Semester Study Abroad Program.</i>	Feb 2000 - June 2000
	<b>Iowa State University</b> , Ames, IA. <i>B.S., Biology.</i>	Aug 1998 - Aug 2004
POSITIONS & AFFILIATIONS	<b>Department of Physiological Sciences, University of Florida</b> <i>Associate Professor with tenure</i>	July 2022 - present
	<b>Department of Physiological Sciences, University of Florida</b> <i>Assistant Professor</i>	June 2016 - June 2022
	<b>Department of Pharmacology, University of Florida</b> <i>Affiliate Faculty</i>	Oct 2019 - present
	<b>Department of Animal Sciences, University of Florida</b> <i>Affiliate Faculty</i>	Apr 2019 - present
	<b>Department of Neuroscience, University of Florida</b> <i>Affiliate Faculty</i>	Oct 2018 - present
	<b>Department of Physiology and Functional Genomics, University of Florida</b> <i>Affiliate Faculty</i>	Mar 2018 - present
	<b>Pulmonary, Critical Care, &amp; Occupational Medicine, University of Iowa</b> <i>Postdoctoral Research Scholar</i> Laboratory of Dr. Michael Welsh	Sep 2010 - June 2016
	<b>Howard Hughes Medical Institute</b> <i>Postdoctoral Research Associate</i> Laboratory of Dr. Michael Welsh	Sep 2008 - Aug 2010
	<b>University of South Carolina School of Medicine</b> <i>Graduate Research Student Associate</i> Laboratories of Dr. Lawrence Reagan and Dr. Jim Fadel	Aug 2004 - Aug 2008
	<b>University of South Carolina School of Medicine</b> <i>Research technician</i> Laboratories of Dr. Lawrence Reagan and Dr. Jim Fadel	Oct 2002 - July 2004

LEADERSHIP OPPORTUNITIES AND RELATED	<b>Curriculum Coordinator</b>	Aug 2023 – present
	T32 BREATHE Training Program University of Florida College of Public Health and Health Professions	
	<b>Member &amp; Graduate</b>	Aug 2022 - May 2023
	University of Florida Academy for Emerging Leaders <i>University wide competitive selection process</i>	
	<b>Founding Member</b>	Aug 2022 - present
	Postdoc Advancement Team McKnight Brain Institute University of Florida College of Medicine Gainesville, FL	
	<b>Founding Member</b>	Jan 2022 - present
	Establishment of the Linda F. Hayward Achievement Award Created an international award to recognize an individual for outstanding contributions to research in the autonomic nervous system. Additional criteria include excellence in diversity, equity, and inclusion, and those that self-identify as a woman physiologist. <i>Administered through the American Physiological Society</i>	
	<b>Certificate of specialization in Leadership and Management</b>	July 2021 - Feb 2022
	Harvard Business School Online	
	<b>Diversity and inclusion certificate</b>	Sep 2021 - May 2022
	eCornell (Cornell University)	
	<b>Scientific Advisor</b>	Aug 2017 - present
	Cure Sanfilippo Foundation help shape the funding initiatives and portfolio by providing key scientific and strategic feedback to the <i>Chief Scientific Officer</i>	
HONORS AND AWARDS	<b>Teacher of the Year Award</b>	May 2022
	Class of 2024 University of Florida College of Veterinary Medicine College-wide award across instructors Awardee	
	<b>Giles Filley Memorial Award for Excellence in Respiratory Physiology and Medicine</b>	April 2022
	American Physiological Society Awardee	
	<b>Rising Star Mentorship Program</b>	June 2021
	Global Virus Network Nominee	
	<b>Zoetis Award for Veterinary Research Excellences</b>	April 2021

University of Florida  
College of Veterinary Medicine  
Awardee

***Scialog Fellow*** April 2021  
Mitigating Zoonotic Threats  
Research Corporation for Science Advancement  
\*50 fellows nationwide; had to decline invitation due to inability to attend required  
programmatic meetings  
Awardee

***McKnight Career Accelerator Award*** Oct 2020  
University of Florida  
McKnight Brain Institute-wide across junior faculty members  
Awardee

***Excellence Award for Assistant Professors*** Apr 2020  
University of Florida  
University-wide award across all Colleges and Departments  
Awardee

***Teacher of the Year Award*** May 2019  
Class of 2021  
University of Florida College of Veterinary Medicine  
College-wide award across instructors  
Awardee

***The Pew Charitable Trusts Biomedical Scholar candidate*** June 2018  
University of Florida  
Only one candidate per University selected to compete nationally

***Nature Research “Inspiring Science” Award*** June 2018  
Nominee

***Distinguished Doctorate Alumni Award*** Apr 2017  
University of South Carolina School of Medicine  
Awardee

***Best Poster Award*** Apr 2014  
15<sup>th</sup> Annual Interdisciplinary Research Poster Session  
University of Iowa  
Awardee

***Cover Art Winner*** Apr 2014  
Health Sciences Research Week  
University of Iowa Carver College of Medicine  
Awardee

***Women in Science and Engineering Award*** Apr 2013

14<sup>th</sup> Annual Interdisciplinary Research Poster Session  
 University of Iowa  
 Awardee

***Outstanding Poster Award*** Apr 2013  
 Health Sciences Research Week  
 Postdoctoral Fellow and Staff Category  
 University of Iowa Carver College of Medicine  
 Awardee

***Young Investigator Travel Award*** Aug 2007  
 International Society of Psychoneuroendocrinology  
 Awardee

***Chair Fund Recipient*** Aug 2007  
 Amygdala in Health & Disease Gordon Research Conference  
 Awardee

***Graduate Student Travel Award*** Aug 2006  
 Society for Neuroscience  
 Awardee

***Research Assistantship*** Aug 2004 - Aug 2008  
 University of South Carolina School of Medicine  
 Awardee

***Academic Recognition Scholarship*** Aug 1998 - Aug 2002  
 Iowa State University  
 Awardee

ACTIVE  
 RESEARCH  
 SUPPORT &  
 AWARDS

**Cystic Fibrosis Foundation (Reznikov - PI)** April 2023 - present  
***Mental Health Research Working Group***  
 \$58,824 (direct) 0.9 calendar months  
 The goal of this working group is to define research direction and questions associated with mental health of individuals with cystic fibrosis

**NIH/NHLBI (Mitchell - PI)** Aug 2022 - present  
**(Reznikov - Co-I)**  
***Breathing Research and Therapeutics (BREATHE)***  
 The goal of this T32 is to provide cutting edge training to predoctoral and postdoctoral trainees pursuing research in control of breathing.  
 \$854,184 (direct) 1.0 calendar months

**NIH/NHLBI (Reznikov - PI)** Jan 2021 - Nov 2025  
***Central Nervous System Plasticity in Airway Disease***  
**1R01HL152101-01A1**  
 \$1,250,000 (direct) 3.6 calendar months

The major goal of this project is to define central mechanisms of airway hyperreactivity in mice.

**Katie Rose Foundation (Reznikov - PI) May 2020 - Apr 2025**  
***Epithelial CREB-BDNF Regulation of Mucin in Cystic Fibrosis***  
**AWD08203**

\$9,970 (direct)

This project tests the hypothesis that airway epithelial cell CREB-BDNF signaling regulates mucin production in mice.

COMPLETED UF  
RESEARCH  
SUPPORT

**Opportunity Grant (Driver- PI) Apr 2021 - Apr 2023**  
**(Reznikov - Co-PI)**  
***A Novel Pig Model to Unravel the Role of Natural Killer T cells in Asthma***

**PRO00037480**

\$164,000 (direct)

0.6 calendar months

The goal of this proposal is to establish the role of natural killer cells in a novel porcine model of asthma.

**Cystic Fibrosis Foundation (Du - PI) Nov 2021 - Oct 2023**  
**(Reznikov - Co-PI)**

***CFTR Activators Regulate Emotional Behaviors***

**DU2010**

\$100,00 (direct)

0.6 calendar months

The goal of this proposal is to determine the role of CFTR in regulation on emotional behaviors using pharmacological, transgenic, and behavioral approaches. \*\* Grant was forfeited because UF was unable to execute the subaward in time.

**NIH/OD (Long- PI) June 2021 - June 2023**  
**(Reznikov - Other)**

***Seven Tesla Preclinical MRI/S Scanner for Structural, Functional and Molecular Imaging***

**OD030293**

\$2,000,000 (direct)

The goal of this proposal is to procure a preclinical 7T MRI scanner for the University of Florida McKnight Brain Institute. Approximately a dozen PIs at UF were listed as senior/key personnel, including myself.

**Cystic Fibrosis Foundation (Reznikov - PI) Nov 2020 - Oct 2022**  
***BDNF Regulation of Mucin in Cystic Fibrosis***  
**REZNIKO2010**

\$100,000 (direct)

0.6 calendar months

The major goal of this project is to define the role of BDNF in regulation of airway mucin in mice and human cells.

**NIH/OD** (Reznikov - PI) July 2019 - Dec 2022  
***Transgenic Pigs with Red-Shifted Channelrhodopsin-Citrine Fusion Proteins***  
**OT2OD026582**

\$684,271 (direct) 3.6 calendar months

The major goal of this project is to create a new porcine model that allows for the mapping and modulation of neural activity.

**Cystic Fibrosis Foundation** (Reznikov - PI) Nov 2019 - Oct 2021  
***Regulation of Inflammation and Mucus by CREB***  
**REZNIKO19I0**

\$100,000 (direct) 0.6 calendar months

The goal of this proposal is to assess the therapeutic potential of CREB inhibition in a porcine model of cystic fibrosis.

**NIH/NHLBI** (Reznikov - PI) Aug 2016 - Dec 2020  
***Neural Pathogenesis of Airway Smooth Muscle Defects in Airway Disease***  
**R00HL119560**

\$513,935 (direct) 3.0 calendar months

The major goal of this grant was to determine the contribution of defective neural regulation on airway smooth muscle function in a porcine model of asthma. The overarching hypothesis is that detection of airway insults by the sensory nerves innervating the airway contributes to airway hyperreactivity.

**University of Florida CTSI** (Reznikov - PI) Apr 2020 - Dec 2020  
***Targeted Disruption of ACE2-SARS-CoV-2 Interactions Using Small Molecules***  
**AWD06343**

\$64,748 (direct) 0.6 calendar months

This project tested the ability of seven small molecules to prevent binding of SARS-CoV-2 glycoprotein to ACE2.

**NIH/OD** (Bolser - PI) Sep 2016 - July 2019  
(Reznikov - Project PI)

***Functional Mapping of Peripheral and Central Circuits for Airway Protective Behaviors***  
**OT2OD023854-03**

\$721,148 (direct awarded to my lab) 3.6 calendar months

The major goal of this grant was to determine the key sensory molecules mediating protective behaviors, such as cough and mucus secretion, in neuroplastic states. The overarching hypothesis is that ASIC and TRP channels contribute to maladaptive neuroplasticity. This was a large multi-million-dollar award; amount listed is amount allocated to my lab.

**Dovetail Genomics** (Reznikov - PI) Nov 2017 - July 2018

*Oryzomys palustris* De Novo Genome Assembly

\$8,825 (direct)

The goal of this award was to sequence and assemble a reference quality genome of *Oryzomys palustris*.

**NIH/NHLBI**

**(Reznikov - PI)**

Apr 2012 - June 2016

***Neural Pathogenesis of Airway Smooth Muscle Defects in Airway Disease***

**1K99HL119560-01A1**

\$180,000 (direct)

12.0 calendar months

The major goal of this grant was to determine the contribution of defective neural regulation on airway smooth muscle in a porcine model of cystic fibrosis. The overarching hypothesis is that balance of pro-relaxing and pro-contractile neuropeptides is disrupted.

**NIH/NHLBI**

(Abboud - PI)

Aug 2010 - Aug 2013

**2T32HL007121-36**

**(Reznikov - trainee)**

PATENTS

Ostrov D, **Reznikov LR**, Norris M. (U.S. Provisional Patent Application Serial No. 63/070,124 Aug 25, 2020). Methods to prevent SARS-CoV-2 infection and treat COVID-19.

**Reznikov LR**. (U.S. Provisional Patent Application Serial No. 63/039,195 June 15, 2020). Diminazene aceturate as a treatment for COVID-19.

PEER

REVIEWED

PUBLICATIONS

(58 total)

(4592 citations)

(i10 index 45)

(h-index 32)

1. Marciante AB, Lurk C, Mata L, Lewis J, **Reznikov LR**, and Mitchell GS. 2023 Progressive tauopathy disrupts breathing stability and chemoreflexes during presumptive sleep in mice. *Frontiers in Physiology, Respiratory Physiology, and Pathophysiology*. Accepted.
2. Madala SK, **\*Reznikov LR**. 2022. Lung fibrosis finds an unsung hero in neuropeptide Y. *American Journal of Respiratory Cell and Molecular Biology*. 2022 Dec 1; 67(6): 613-614. \*corresponding author.
3. Sponchiado M, Liao YSJ, **Reznikov LR**. 2022. Identification of cholinergic cells with chemosensory traits in the porcine uterus. *Cell and Tissue Research*. Apr;388(1):33-47. doi: 10.1007/s00441-022-03585-1
4. **Reznikov LR**. To alkalize or acidify, that is the question. 2022. *Biophysical Journal*. 5436-5437. doi: 10.1016/j.bpj.2021.11.012.
5. Meyerholz DK, **\*Reznikov LR**. 2022. Influence of SARS-CoV-2 on airway mucus production: a review and proposed model. *Veterinary Pathology*. doi: 10.1177/03009858211058837. \*corresponding author.
6. Bouzek DC, Abou Alaiwa MH, Adam RJ, Pezzulo AP, **Reznikov LR**, Cook DP, Pescozo MA, Eyck PT, Wu C, Gross TJ, Hornick DB, Hoffman HA, Meyerholz DK, Stoltz DA. Early lung disease exhibits bacterial-dependent and independent abnormalities in cystic fibrosis pig. *American Journal of Respiratory and Critical Care Medicine*. 2021. In press. doi: 10.1164/rccm.202102-0451OC.

7. Sponchiado MS, Liao YSJ, Atanasova KR, Collins EN, Schurmann V, Bravo L, **\*Reznikov LR**. Overexpression of substance P in pigs airways increases MUC5AC through a NF-kb pathway. Physiological Reports. 9(3):e14749. doi:10.14814/phy2.14749. 2021. \*corresponding author
8. MZH, Xiang L, Liao YSJ, **Reznikov LR**, Du J. The underlying mechanism of modulation of transient receptor potential melastatin 3 by protons. Frontiers in Pharmacology. <https://doi.org/10.3389/fphar.2021.632711>. 2021.
9. **Reznikov LR**. From apples to airways - why gravity matters. Experimental Physiology (commissioned). doi: 10.1113/EP089333. Online ahead of print. 2020. \*corresponding author
10. **\*Reznikov LR** Norris MH, Vashisht R, Bluhm A, Li D, Liao YSJ, Brown A, Butte A, Ostrov DA#. Identification of antiviral antihistamines for COVID-19 repurposing. Biochemical Biophysical Research Communications. S0006-291X(20)32140-9. doi: 10.1016/j.bbrc.2020.11.095. Online ahead of print. PMID: PMC7713548. 2020.\*corresponding author
11. **\*Reznikov LR**. PKC $\epsilon$ -sensing in the carotid body - a new target for asthma? Journal of Physiology (commissioned). doi: 10.1113/JP281080. Online ahead of print. 2020. \*corresponding author
12. Liao YSJ, Collins EN, Guevara MV, Schurmann V, Atanasova KR, Bravo L, Sponchiado M, Hoegger MJ, **\*Reznikov LR**. Airway cholinergic history modifies mucus secretion properties to subsequent cholinergic challenge in diminished chloride and bicarbonate conditions. Experimental Physiology. 105(10):1673-1683. doi: 10.1113/EP088900. 2020. \*corresponding author
13. Liao YSJ, Kuan SP, Guevara MV, Collins EN, Atanasova KR, Dadural JS, Vogt KM, Schurmann V, Bravo L, Eken E, Sponchiado M, **\*Reznikov LR**. Acid exposure Impairs mucus secretion and disrupts mucociliary transport in neonatal piglet airways. AJP-Lung. 318(5):L873-L887. doi: 10.1152/ajplung.00025.2020. PMID: PMC7272746. 2020. \*corresponding author
14. Kuan SP, Atanasova KR, Guevara MV, Collins EN, **\*Reznikov LR**. Long-term culturing of porcine nodose ganglia. Journal of Neuroscience Methods. 332:108546. doi: 10.1016/j.jneumeth.2019.108546. PMID: PMC6954972. 2020. \*corresponding author
15. Atanasova KR, **\*Reznikov LR**. Strategies for measuring airway mucus and mucins. Respiratory Research. 20(1):261. doi: 10.1186/s12931-019-1239-z. PMID: PMC6873701. 2019. \*corresponding author
16. Kuan SP, Liao YSJ, Davis KM, Messer JG, Zubcevic J, Aguirre JI, **\*Reznikov LR**. Attenuated amiloride-sensitive current and augmented calcium-activated chloride current in marsh rice rat (*Oryzomys palustris*) airways. iScience. 19:737-748. doi: 10.1016/j.isci.2019.08.011. PMID: PMC6731178. 2019. \*corresponding author.
17. Yang T, Magee KL, Colon-Perez LM, Larkin R, Liao YSJ, Balazic E, Cowart JR, Arocha R, Redler T, Febo M, Vickroy T, Martyniuk J, **Reznikov LR**, Zubcevic J. Impaired butyrate absorption in the proximal colon, low serum butyrate and diminished central effects of butyrate on blood pressure in spontaneously



- hypertensive rats. Acta Physiologica. 18:e13256. Doi: 10.1111/apha.13256. PMID: PMC7199780. 2019.
18. Jiron JJ, Mendieta C, Castillo, EJ, Abraham AM, Messer JG, Malphurs WL, Malinowski C, Grove K, **Reznikov LR**, Zubcevic J, Aguirre JI. Comparison of isoflurane, ketamine-dexmedetomidine and ketamine-xylazine for general anesthesia during oral procedures in rice rats (*oryzomys palustris*). The Journal of the American Association for Laboratory Medicine. 58(1):40-49. PMID: PMC6351055. 2019.
19. **\*Reznikov LR**, Liao YSJ, Gu T, Davis K, Kuan SP, Atanasova KR, Dadural JS, Collins EN, Guevara MV, Vogt KM. Sex-specific airway hyperreactivity and sex-specific transcriptome remodeling in neonatal piglets challenged with intra-airway acid. AJP-Lung.316(1):L131-L143. doi: 10.1152/ajplung.00417.2018. PMID: PMC6383496. 2019. \*corresponding author
20. Meyerholz DK, Beck, AP, Goeken A, Leidinger MR, Ofori-Amanfo GK, Brown HC, Businga TR, Stoltz DA, **Reznikov LR**, Flaherty HA. Glycogen depletion can increase the specificity of mucin detection in airway tissues. BMC Research. 11(1):763. PMID: PMC6203197. 2018.
21. Atanasova KR, **\*Reznikov LR**. Neuropeptides in asthma, chronic obstructive pulmonary disease and cystic fibrosis. Respiratory Research. 19(1):149. doi: 10.1186/s12931-018-0846-4. PMID: PMC6090699. 2018. \*corresponding author
22. Dadural JS, **\*Reznikov LR**. Interest in and awareness of French president Emmanuel Macron’s “make our planet great again” initiative. Social Sciences. 7(7), 102. 2018. \*corresponding author
23. **\*Reznikov LR**, Meyerholz DK, Abou Alaiwa MHA, Kuan SP, Liao YSK, Bormann N, Bair, T, Price M, Stoltz, DA, Welsh MJ. Vagal ganglia transcriptome identifies candidate therapeutics for airway hyperreactivity. AJP-Lung. 315(2):L133-L148. PMID: PMC6139658. 2018. \*corresponding author
24. **\*Reznikov LR**, Meyerholz DK, Kuan SP, Guevara M, Atanasova KR, Abou Alaiwa, MHA. Solitary cholinergic stimulation induces airway hyperreactivity and transcription of distinct pro-inflammatory pathways. Lung. 196(2):219-229. PMID: PMC5975219. 2018. \*corresponding author
25. Mao SF, Shah AS, Moninger TO, Ostedgaard LS, Lu L, Tang XX, Thornell IM, **Reznikov LR**, Ernst S, Karp PH, Tang P, Keshavjee S, Abou Alaiwa, MH, Welsh MJ. Motile cilia of human airway epithelia contain hedgehog signaling components that mediate noncanonical hedgehog signaling. Proceedings of the National Academy of Sciences. 115 (6): 1370-1375. PMID: PMC5819449. 2018.
26. Meyerholz DK, **\*Reznikov LR**. Simple and reproducible approaches for the collection of select porcine ganglia. J Neuroscience Methods. 289:93-98. PMID: PMC5582004. 2017. \*corresponding author.
27. **\*Reznikov LR**. Cystic fibrosis and the nervous system. Chest. 151(5):1147-1155. PMID: PMC5472519. 2017. \*corresponding author

28. **Reznikov LR**, Meyerholz DK, Ryan AJ, Abou Alaiwa MH, Jaffer O, Michalski AS, Powers LP, Price MP, Stoltz DA, Welsh MJ. Acid-sensing ion channel 1a contributes to airway hyperreactivity in mice. *PLOS ONE*. 11(11):e0166089. PMID: PMC5098826. 2016.
29. Shah VS, Meyerholz DK, Tang XX, **Reznikov L**, Abou Alaiwa MH, Ernst SE, Karp PK, Wohlford-Lenane CL, Heilmann KP, Leidinger MR, Allen PD, Zabner J, McCray PB, Ostedgaard LS, Stoltz DA, Randak CO, Welsh MJ. Airway acidification initiates host defense abnormalities in cystic fibrosis mice. *Science*. 351(6272):503-7. PMID: PMC4852973. 2016.
30. Li K, Wohlford-Lenane C, Perlman S, Jewell AK, Gibson-Corley KN, **Reznikov LR**, Meyerholz DK, McCray PB. Middle east respiratory syndrome coronavirus causes multiple organ damage and lethal disease in mice transgenic for human dipeptidyl peptidase 4. *Journal of Infectious Diseases*. 213(5):712-22. PMID: PMC4747621. 2016.
31. Cook DP, Rector MV, Bouzek DC, Michalski AP, Gansemer ND, **Reznikov LR**, Stroik MR, Ostedgaard LS, Abou Alaiwa MH, Thompson MA, Prakash YS, Krishnan R, Meyerholz DK, Seow C, Stoltz DA. CFTR in sarcoplasmic reticulum of airway smooth muscle: implications for airway contractility. *American Journal of Respiratory and Critical Care Medicine*. 193(4):417-26. PMID: PMC4803085. 2016.
32. Meyerholz DK, Lambert A, **Reznikov LR**, Ofori-armanfo G, Karp PH, McCray PB, Welsh MJ, Stoltz DA. Immunohistochemical detection of porcine markers for translational studies of lung diseases in pigs and humans. *Toxicologic Pathology*. 44(3):434-41. PMID: PMC4805467. 2016.
33. Uc A, Olivier AK, Griffin MA Yao J, Abu-El-Haija M, Buchanan KM, Vanegas Calderon OG, Abu-El-Haija M, Pezzulo AA, **Reznikov LR**, Hoegger MJ, Rector MV, Ostedgaard LS, Taft PJ, Gansemer ND, Ludwig PS, Hornick EE, Stoltz DA, Ode KL, Welsh MJ, Engelhardt JF, Norris AW. Glycaemic regulation and insulin secretion are abnormal in cystic fibrosis pigs despite sparing of islet cell mass. *Clin Sci*. 128(2):131-42. PMID: PMC4346161. 2015.
34. Du JY, **Reznikov LR**, Welsh MJ. Expression and activity of acid-sensing ion channels in the mouse pituitary. *PLoS ONE*. 9(12):e115310. PMID: PMC4266673. 2014.
35. Abou Alaiwa MH, **Reznikov LR**, Gansemer N, Sheets K, Horswill A, Stoltz DA, Zabner J, and Welsh MJ. pH modulates the activity and synergism of the airway antimicrobials B-defensin-3 and LL37. *Proceedings of the National Academy of Sciences*. 30;111(52):18703-8. PMID: PMC4284593. 2014.
36. Du JY, **Reznikov LR**, Price MP, Zha XM, Yuan L, Moninger TO, Wemmie JA, Welsh MJ. Protons are a neurotransmitter that regulates synaptic plasticity in the lateral amygdala. *Proceedings of the National Academy of Sciences*. 11(24):8961-6. PMID: PMC4066526. 2014.
37. **Reznikov LR**, Abou Alaiwa MH, Dohrn CL, Gansemer N, Diekema DJ, Stoltz DA, Welsh MJ. Antibacterial properties of the CFTR potentiator ivacaftor. *Journal of Cystic Fibrosis*. pii: S1569-1993(14)00044-7. PMID: PMC4718582. 2014.

38. Price MP, Gong H, Parsons MG, Kundert JR, **Reznikov LR**, Bernardinelli L, Chaloner K, Buchanan GF, Wemmie JA, Richerson GB, Cassell MD, Welsh MJ. Localization and behaviors in null mice suggest that ASIC1 and ASIC2 modulate responses to aversive stimuli. Genes, Brain and Behavior. 13(2):179-94. PMID: PMC3998777. 2013.
39. Stoltz DA, Rokhlina T, Ernst SE, Pezzulo AA, Ostedgaard LS, Karp PH, Samuel MS, **Reznikov LR**, Rector MV, Gansemer ND, Bouzek DC, Abou Alaiwa MH, Hoegger MJ, Ludwig PS, Taft PJ, Wallen TJ Wohlford-Lenane C, McMenimen JD, Chen JH, Bogan KL, Adam RJ, Hornick EE, Nelson, IV GA, Hoffman EA, Chang EH, Zabner J, McCray, Jr. PB, Prather RS, Meyerholz DK, Welsh MJ. Intestinal CFTR expression alleviates meconium ileus in cystic fibrosis pigs. J Clinical Investigations. 123(6):2685-93. PMID: PMC3668832. 2013.
40. **Reznikov LR**, Dong Q, Chen JH, Moninger TO, Park JM, Zhang Y, Du JY, Hildebrand MS, Smith RJ, Randak CO, Stoltz DA, Welsh MJ. CFTR-deficient pigs display peripheral nervous system defects at birth. Proceedings of the National Academy of Sciences. 110(8):3083-3088. PMID: PMC3581923. 2013 (**Selected as cover**)
41. \*Piroli GG, \***Reznikov LR**, Grillo CA, Hagar JM, Fadel JR, Reagan LP. Tianeptine modulates amygdalar glutamate neurochemistry and synaptic proteins in rats subjected to repeated stress. Experimental Neurology. 241:184-93. 2012. (**\*co first-author**)
42. Reagan LP, **Reznikov LR**, Evans AN, Gabriel-Gracia C, Mocaer E, Fadel JR. The antidepressant agomelatine inhibits stress-mediated changes in amino acid efflux in the rat hippocampus and amygdala. Brain Research. 1466:91-8. 2012.
43. Chang EH, Pezzulo AA, Meyerholz DK, Potash AE, Wallen TJ, **Reznikov LR**, Sieren J, Karp PH, Ernst S, Moninger TO, Gansemer ND, McCray PB, Stoltz DA, Welsh MJ, Zabner J. Sinus hypoplasia precedes sinus infection in a porcine model of cystic fibrosis. Laryngoscope. 122(9):1898-905. PMID: PMC3449319. 2012.
44. Ostedgaard LS, Meyerholz DK, Chen JH, Pezzulo AA, Karp PH, Rokhlina T, Ernst SE, Hanfland RA, **Reznikov LR**, Ludwig PS, Rogan MP, Davis GJ, Dohrn CL, Wohlford-Lenane C, Taft PJ, Rector MV, Hornick E, Nassar BS, Samuel M, Zhang Y, Richter SS, Uc A, Shilyansky J, Prather RS, McCray PB, Zabner J, Welsh MJ and Stoltz DA. The  $\Delta F508$  mutation causes misprocessing of CFTR in pigs and produces the gastrointestinal and lung disease of cystic fibrosis. Science Translational Medicine. 3: (74): 74ra24. PMID: PMC3119077. 2011.
45. \*Rogan MP, \***Reznikov LR**, Pezzulo AP, Gansemer N, Samuels M, Prather R, Zabner J, Fredericks DC, McCray PB, Welsh MJ and Stoltz DA. Pigs and humans with cystic fibrosis have reduced IGF-1 levels at birth. Proceedings of the National Academy of Sciences. 107 (47): 20571-5. PMID: PMC2996661. 2010. (**\*co first-author**)
46. Chen JH, Stoltz DA, Karp PH, Ernst SE, Pezzulo AP, Moninger TO, Rector MV, **Reznikov LR**, Lanspach JL, Chaloner K, Zabner J, Welsh MJ. Loss of anion transport without alterations in sodium absorption characterize porcine cystic fibrosis airway epithelia. Cell. 143 (6): 911-23. PMID: PMC3057187. 2010.

47. **Reznikov LR**, Pasumarthi RK, Fadel JR. Caffeine elicits c-Fos expression in horizontal diagonal band cholinergic neurons. Neuroreport. 20 (18):1609-12. 2009.
48. Zha XM, Costa V, Harding A, **Reznikov L**, Benson C, Welsh M. ASIC2 subunits target acid-sensing ion channels to the synapse via an association with PSD-95. Journal of Neuroscience. 29(26):8438-46. PMID: PMC2734339. 2009.
49. **Reznikov LR**, Reagan LP, Fadel JR. Effects of acute and repeated restraint stress on GABA efflux in the rodent basolateral and central amygdala. Brain Research. 1256:61-8. 2009.
50. **Reznikov LR**, Reagan LP, Fadel JR. Activation of phenotypically distinct neuronal subpopulations in the rat basolateral amygdala following acute and repeated stress. Journal of Comparative Neurology. 508:458-472. 2008.
51. Grillo CA, Tamashiro KL, Piroli GG, Gass JT, **Reznikov LR**, Smith A, Wilson SP, Sakai RR, Reagan LP. Lentivirus-mediated downregulation of hypothalamic insulin receptor expression. Physiology & Behavior. 4:691-701. PMID: PMC2129218. 2007.
52. **Reznikov LR**, Grillo CA\*, Piroli GG, Pasumarthi R, Reagan LP, Fadel JR. Acute stress mediated increases in extracellular glutamate levels in the rat amygdala: differential effects of antidepressant treatment. European Journal of Neuroscience. 10:3109-14. 2007. (\**co first-author*)
53. Piroli GG, Grillo CA, **Reznikov LR**, Adams S, McEwen BS, Charron MJ, Reagan LP. Corticosterone impairs insulin stimulated translocation of GLUT4 in the rat hippocampus. Neuroendocrinology. 2:71-80. 2007.
54. Reagan LP, Hendry RM, **Reznikov LR**, Piroli GG, Wood GE, McEwen BS, Grillo CA. Tianeptine increases brain-derived neurotrophic factor expression in the rat amygdala. European Journal of Pharmacology. 1-3:68-75. 2007.
55. Pasumarthi R, **Reznikov LR**, Fadel J. Activation of orexin neurons by acute nicotine. European Journal of Pharmacology. 1-3:172-6. 2006.
56. Winocur G, Greenwood CE, Piroli GG, Grillo CA, **Reznikov LR**, Reagan LP, McEwen BS. Memory impairment in obese Zucker rats: an investigation of cognitive function in an animal model of insulin resistance and obesity. Behavioral Neuroscience. 5:1389-95. 2005.
57. Grillo CA, Piroli GG, Wood GE, **Reznikov LR**, McEwen BS, Reagan LP. Radioimmunochemical analysis of synaptic proteins provides new insight into morphological plasticity in the rat hippocampus. Neuroscience. 2:477-486. 2005.
58. Fadel J, Pasumarthi R, **Reznikov LR**. Stimulation of cortical acetylcholine release by orexin A. Neuroscience. 2:541-7. 2005.

BOOK  
CHAPTERS

**Reznikov LR**, Reagan LP, Fadel JR. Anatomical and neurochemical correlates of stress in the amygdala. CNS Mechanisms Involved in Learned Autonomic Adjustments. (invited request). Powell, D.A. (ed). Research Signpost Publishers. ISBN 978-81-308-0391-3. 2013.

**Reznikov LR**, Fadel JR, Reagan LP. Glutamate-mediated neuroplasticity deficits in mood disorders. In:Costa e Silva JA, Macher JP, Olie JP, editors Neuroplasticity: New Biochemical Mechanisms. (invited request). London: Springer; pp.13-26. 2011.

Piroli GG, Grillo CA, **Reznikov LR**, Reagan LP. Expression and functional activities of glucose transporters in the central nervous system (invited request). Handbook of Neurochemistry and Molecular Neurobiology.3<sup>rd</sup> edition. Springer US. 2007.

SELECTED  
ABSTRACTS  
AND POSTER  
PRESENTATIONS

Sponchiado M, Bonilla AL, Mata L, Liao YSJ, Fagan A, Moncada V, **Reznikov LR**. Club cell CREB regulates the goblet cell transcriptional network and pro-mucin effects of IL-1B in male murine airways. Gordon Research Conference. Mucus, Cilia, Mucociliary Interactions. 2023.

Beck S, Mata L, **Reznikov LR**. Structural remodeling of the basolateral amygdala in ovalbumin-sensitized asthmatic mice: *Preliminary Study Findings*. Phi Zeta Research Day. University of Florida College of Veterinary Medicine. 2023.

Jasso-Johnson K, Mata L, Bonilla AL, **Reznikov LR**. Modulation of the Brain-Derived Neurotrophic Factor (BDNF) pathway increases mucin production in human airway cells: *Preliminary Study Findings*. Phi Zeta Research Day. University of Florida College of Veterinary Medicine. 2023.

Sponchiado M, Bonilla AL, Mata L, Liao YSJ, Fagan A, Moncada V, **Reznikov LR**. Loss of club cell CREB mitigates IL-1B-mediated muco-obstructive phenotypes in male murine airways. *Experimental Biology*. 2022.

Sponchiado M, Liao YSJ, **Reznikov LR**. Evidence of cholinergic cells with chemosensory traits in the porcine uterine epithelia. Society for the Study of Reproduction. Contraceptive Symposium. 2021.

Sponchiado M, Liao YSJ, Atanasova KR, Collins EN, Schurmann V, Bravo L, **Reznikov LR**. Overexpression of substance P increases MUC5AC through a NF-kB pathway. American Thoracic Society. 2021.

Sponchiado M, Liao YSJ, Spate A, Spate L, Cecil RF, Fudge MA, Pfeiffer CA, Whitworth KM, Well KG, Prather RS, **Reznikov LR**. SPARC: Development of a transgenic pigs expressing mCherry and CRE recombinase fusion proteins under control of the murine choline acetyltransferase promoter. *Experimental Biology*. 2021.

Sponchiado M, Liao YSJ, Atanasova KR, Collins EN, Schurmann V, Bravo L, **Reznikov LR**. Overexpression of substance P increases MUC5AC. North American Cystic Fibrosis Conference. 2020.

Collins EN, Liao YSJ, Guevara MV, Schurmann V, Atanasova KR, **Reznikov LR**. Durable changes to airway mucus secretion following a single cholinergic challenge. *Experimental Biology*. 2020.

Kuan SP, Atanasova KR, Liao YSJ, Guevara MV, Pompilus M, Collins EN, Moore J, Febo M, **Reznikov LR**. Amygdalar plasticity in airway disease. *Experimental Biology*. 2020.

Liao YSJ<sup>#</sup>, Kuan SP<sup>#</sup>, Guevara MV<sup>#</sup>, Collins EN<sup>\*</sup>, Atanasova KR<sup>\*</sup>, Dadural JS, Vogt KM, Schurmann V, **Reznikov LR**. Protective Effect of diminazene aceturate in acid-induced airway obstruction. *Experimental Biology*. 2020.

Sponchiado M, Liao YSJ, Collins EN, Whitworth KM, Well KG, Prather RS, **Reznikov LR**. Development of pigs with mCherry-CRE recombinase fusion proteins in cholinergic neurons. *Experimental Biology*. 2020.

INVITED  
EXTRAMURAL

**“Regulating airway inflammatory responses through conditional loss of cell plasticity proteins.”** R. Ken Koit College of Pharmacy. University of Arizona.

Tucson, Arizona, USA. 2023.

**“BDNF Regulation of Airway Mucin.”** Gordon Research Conference. Lung Development, Injury and Repair. Waterville Valley, New Hampshire, USA. 2023

**“Amygdalar Modulation of Airway Pathology in a Murine Model of Allergic Asthma.”** Informing the Immune Response: The Role of the Autonomic Nervous System with Immunity and Inflammation. American Physiological Society. Long Beach, California. 2023

**“Central and Peripheral Regulation of Airway Mucus and Airway Hyper-reactivity.”** Department of Internal Medicine. University of Iowa. Iowa City, Iowa. 2023

**“Club Cell CREB Regulates the Goblet Cell Transcriptional Network and Pro Mucin Effects of IL-1B in Male Murine Airways.”** Gordon Research Conference. Cilia, Mucus, and Mucociliary Interactions. Barga, Italy. 2023

**“Central and Peripheral Mechanisms of Airway Disease.”** Department Medical Pharmacology and Physiology. University of Missouri. Columbia, Missouri. 2022

**“Central and Peripheral Regulation of Airway Mucus and Airway Hyper-reactivity.”** Department of Pediatrics. University of California San Diego. San Diego, California. 2022

**“Probing the Airways for Neural Insights.”** Department of Pediatrics. University of California San Diego. San Diego, California. 2021

**“Developing neuroscience tools through genetic engineering in pigs.”** Talent Development Center. FDA. 2021

**“Molecules and models for COVID-19.”** Department of Pulmonary and Critical Care. University of California San Diego. San Diego, California. 2021

**“Molecules and models for COVID-19.”** Control of Breathing Interest Group. International Virtual Seminar Series organized by Atul Malhotra, UC Health. San Diego, California. 2020

**“Dissecting the airway-nervous system interface in health and disease.”** Department of Pharmacology. LSU. College of Medicine. New Orleans, LA. 2019.

**“Acute airway acidification modifies mucus secretion and airway transport Properties.”** Autonomic control of respiration function session. ISAN SPARC. Los Angeles, CA. 2019.

**“Distinct ion transport properties in the airways of the marsh rice rat (*Oryzomys palustris*).”** Osmoregulation Ion regulation workshop. American Physiological Society Comparative Physiology section. New Orleans, LA. 2018.

**“Acute airway acidification modifies mucus secretion and airway transport properties.”** CF Airway Inflammation workshop. NACFC. Denver, CO. 2018.

**“Neural mechanisms of airway hyperreactivity.”** Neuroplasticity of airway reflexes session. Experimental Biology. San Diego, CA. 2018.

**“The vagal ganglia transcriptome in mice lacking ASIC1a identifies candidate compounds to treat airway hyperreactivity.”** Department of Pediatrics. University of Indiana. Indianapolis, IN. 2016.

**“The vagal ganglia transcriptome in mice lacking ASIC1a identifies candidate compounds to treat airway hyperreactivity.”** Health Sciences Center. University of Arizona. Tucson, AZ. 2016.

**“The vagal ganglia transcriptome in mice lacking ASIC1a identifies candidate compounds to treat airway hyperreactivity.”** University of Florida. Department of Physiological Sciences. Gainesville, FL. 2016.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Department of Biological Sciences. Waldorf College. Forest City, IA. 2016.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Department of Biological Sciences. Ohio University. Athens, OH. 2016.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Department of Cellular and Integrative Physiology. University of Nebraska Medical Center. Omaha, NE. 2015.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Kansas State College of Veterinary Medicine. Department of Anatomy and Physiology. Manhattan, KS. 2014.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Sanford Children’s Health Research Center. Sioux Falls, SD. 2014.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** Department of Environmental Health Sciences. Johns Hopkins Bloomberg School of Public Health. Baltimore, MD. 2014.

**“Nervous system phenotypes in pigs with cystic fibrosis.”** University Department of Biomedical Sciences. East Tennessee State University. Johnson City, TN. 2014.

**“Antibacterial properties of CF potentiator ivacaftor.”** Epidemiology & management of CF pulmonary infections workshop. NACFC. Salt Lake City, UT. 2013.

**“Nervous system phenotypes in cystic fibrosis pigs.”** CF animal models, the latest and greatest symposium. NACFC. Orlando, FL. 2012.

**“Effects of acute and repeated restraint stress in the rodent amygdala.”** Department of Psychiatry and Behavioral Neuroscience. University of Chicago. Chicago, IL. 2008

**“Effects of acute and repeated restraint stress in the rodent amygdala.”** Department of Internal Medicine. University of Iowa. Iowa City, IA. 2008

**“Activation of the GABAergic system in the rat basolateral amygdala following acute restraint stress: neurochemical and neuroanatomical insights.”** Young Investigator Symposium. International Society of Psychoneuroendocrinology. Madison, WI. 2007.

INVITED  
OTHER  
ORAL  
PRESENTATIONS

**“Regulation of Airway Mucin in Response to Inflammatory Insults.”**  
Division of Pulmonary Medicine. University of Florida, Gainesville, FL. 2023.

**“Targeted Disruption of ACE2-SARS-CoV-2 interactions using small Molecules.”** University of Florida CTSI: Clinical Care & Therapeutics & Vaccines Symposium. 2022.

**“Hope is love on a mission.”** Part of the “A night with no lectures” series  
University of Florida College of Veterinary Medicine. Gainesville, FL. 2021.

**“Small molecule candidates for COVID-19 treatment.”** Department of  
Physiology and Functional Genomics. University of Florida. Gainesville, FL. 2020.

**“Targeted disruption of SARS-CoV-2 interactions using small molecules.”**  
CTSI. University of Florida. Gainesville, FL. 2020.

**“Neural mechanisms of airway disease.”** McKnight Brain Institute. University  
of Florida. Gainesville, FL. 2020.

**“Neural regulation of airway smooth muscle and airway epithelial cells.”**  
Center for Rehabilitation and Respiratory Research Retreat. PI Data Blitz Session.  
University of Florida. College of Public Health. Gainesville, FL. 2020.

**“Airway acidification and asthma.”** Department of Physiological Sciences.  
University of Florida. College of Veterinary Medicine. Gainesville, FL. 2019.

**“Dissecting the airway-nervous system interface in health and disease.”** The  
Perinatal Biology Outcomes Research Center. University of Florida. Gainesville, FL.  
2019.

**“Dissecting the airway-nervous system interface in health and disease.”**  
Department of Neuroscience. University of Florida. College of Medicine.  
Gainesville, FL. 2019.

**“Dissecting the airway-nervous system interface in health and disease.”**  
Department of Pharmacology. University of Florida. College of Medicine.  
Gainesville, FL. 2019.

**“Dissecting the airway-nervous system interface in health and disease.”**  
University of Florida College of Medicine Data Blitz. Gainesville, FL. 2019.

**“Acute airway acidification modifies mucus secretion and transport properties.”** Department of Animal Sciences. University of Florida. Gainesville,  
FL. 2019

**“Publons.”** University of Florida National Peer Review Week Peer Review  
Seminar Gainesville, FL. 2018.



**“How I became interested in science.”** University of Florida College of Engineering E-week. Gainesville, FL. 2018.

**“Promoting investigator-IACUC understanding.”** Institutional Animal Care and Use Committee. University of Florida. Gainesville, FL. 2017.

**“Neural mechanisms of airway disease: possibly probable or probably impossible.”** Department of Physiological Sciences. University of Florida. Gainesville, FL. 2017.

**“Novel nervous system phenotypes in pigs with cystic fibrosis.”** Neurology 2<sup>nd</sup> Annual Fall Symposium: Neurogenetics. University of Iowa. Iowa City, Iowa. 2014.

**Novel nervous system phenotypes in pigs with cystic fibrosis.”** Physiology Workshop Seminar Series. University of Iowa. Iowa City, IA. 2012.

**“White matter anomalies in cystic fibrosis.”** Cardiovascular Center Seminar Series. University of Iowa. Iowa City, IA. 2010.

**“Activation of distinct neuronal phenotypes in the rat basolateral amygdala following acute and repeated stress.”** Data Blitz Session. 3<sup>rd</sup> Annual GA/SC Neuroscience Consortium. Columbia, SC. 2008.

EDITORIAL  
ACTIVITIES  
EDITORIAL  
ACTIVITIES

<b>Guest Associate Editor</b> , <i>Frontiers in Neuroscience</i> <i>Autonomic section Special Issue</i>	Nov 2022 - present
<b>Associate Editor</b> , <i>Frontiers in Neuroscience</i> <i>Autonomic section</i>	Apr 2022 - present
<b>Reviewing Editor</b> , <i>Frontiers in Molecular Biosciences</i> <i>Cellular Biochemistry section</i>	Feb 2021 - present
<b>Guest Associate Editor</b> , <i>Frontiers in Pharmacology</i>	Dec 2020 - Jan 2021
<b>Reviewing Editor</b> , <i>Experimental Physiology</i>	Jan 2019 - present
<b>Editorial Board Member</b> , <i>Physiology and Behavior</i>	July 2019 - present

JOURNAL  
REVIEWING  
ACTIVITIES  
(200+ peer reviews;  
see Web of Science  
for verification)

Journal of Physiology | *Frontiers in Cell and Developmental Biology* | *Chest* | *Cell Reports* | *Respiratory Research* | *Neurobiology of Stress* | *Frontiers in Neuroscience* | *BMC Genomics* | *Neuroscience and Biobehavioral Reviews* | *Journal of Cystic Fibrosis* | *Experimental Physiology* | *Proceedings of the National Academy of Sciences* | *Frontiers in Medicine* | *Biomaterials Science* | *Current Medicinal Chemistry* | *Biomedicine & Pharmacology* | *Journal of Pain Research* | *Neuroscience and Biobehavioral Reviews* | *British Journal of Pharmacology* | *Physiology and Behavior* | *International Journal of Molecular Sciences* | *Scientific Reports* | *Science Advances* | *PLOS One* | *Journal of Neuroscience Research* | *Journal of Applied Microbiology* | *Atmosphere* | *BMJ Open* | *Respiratory Research* | *International Journal of Environmental Research and Public Health* | *International Journal of Nanomedicine* | *International Journal of Chronic Obstructive Pulmonary Disease* | *Journal of Clinical Medicine* | *Journal of Thoracic Disease* | *Journal of Pediatric Genetics* | *Cell Biology International* | *Patient Preference and Adherence* | *Allergologia et Immunopathologia* | *Pulmonary Research and Respiratory Care Journal* | *Pulmonary Pharmacology and Therapeutics* | *Frontiers in Molecular Biosciences* | *JCI Insight* | *Frontiers in Physiology* | *Science of Total Environment* | *American Journal of Respiratory Cell and Molecular Biology* | *Frontiers in Pharmacology* | *Frontiers in Immunology* | *Journal of Neuroinflammation* |

GRANT  
REVIEWING

**The Wellcome Trust UK**

Jul - Aug 2023

ACTIVITIES	Reviewer ( <i>ad hoc</i> )	
GRANT REVIEWING ACTIVITIES	<b>University of Washington Cystic Fibrosis Research Development Program</b>	June 2023
	Reviewer ( <i>ad hoc</i> )	
	<b>United Kingdom Research and Innovation Medical Research Council</b>	Nov 2022 - Dec 2022
	Reviewer ( <i>ad hoc</i> )	
	<b>Lung Cellular &amp; Molecular Biology</b>	July 2022 - present
	Member NIH Study section	
	<b>Cystic Fibrosis Canada</b>	Oct 2021 - present
	Reviewer ( <i>ad hoc</i> )	
	<b>American Heart Association</b>	July 2021 -Nov 2021
	Signaling 1 Fellowship Reviewer ( <i>ad hoc</i> )	
	<b>Department of Defense</b>	April 2021 -June 2021
	Respiratory Health Reviewer ( <i>ad hoc</i> )	
	<b>National Institutes of Health</b>	April 2021 -June 2021
	Lung Cellular, Molecular, and Immunobiology Reviewer ( <i>ad hoc</i> )	
	<b>American Heart Association</b>	Dec 2020 -March 2021
	Signaling – Basic Science Reviewer ( <i>ad hoc</i> )	
	<b>Department of Defense</b>	June 2020 - July 2020
	Respiratory Health Reviewer ( <i>ad hoc</i> )	
	<b>Cystic Fibrosis Europe</b>	Mar 2020
	Reviewer ( <i>ad hoc</i> )	
	<b>European Cystic Fibrosis Society</b>	Mar 2020
	Reviewer ( <i>ad hoc</i> )	
	<b>National Institutes of Health</b>	Dec 2019 - Feb 2020
	Respiratory Integrative Biology and Translational Research Reviewer ( <i>ad hoc</i> )	
	<b>American Heart Association</b>	Aug 2019 - Oct 2019

Molecular Signaling  
Reviewer (*ad hoc*)

**Department of Defense**

Jul 2019 - Sep 2019

Lung Injury  
Reviewer (*ad hoc*)

**Cystic Fibrosis Canada**

Dec 2018 - Jan 2020

Reviewer

**Cure Sanfilippo Foundation**

Aug 2017 - present

Reviewer

**European Cystic Fibrosis Society**

Feb 2015

Reviewer (*ad hoc*)

TEACHING  
AND  
INSTRUCTION

**Co-Course Coordinator/Director**

Fall 2023

*Physiological Sciences Seminar Series (VEM6932)*. 1 credit hour  
University of Florida College of Veterinary Medicine

**Invited Lecturer**

Spring 2022

*Breathing and Airway Defense: Implication for Rehabilitation (PHT6935C)*. 3 credit hours

University of Florida College of Public Health and Health Professionals  
Course Director: Dr. Gordon Mitchell

**Invited Lecturer**

Fall 2021

*Human Translational Physiology (BMC3521)*. 3 credit hours

University of Florida College of Medicine  
Course Director: Dr. Erin Bruce

**Invited Lecturer**

Fall 2020

*NAVLE Review of Pharmacology*

University of Florida College of Veterinary Medicine  
Class of 2021

**Invited Lecturer**

Fall 2020

*Human Translational Physiology (BMC3521)*. 3 credit hours

University of Florida College of Medicine  
Course Director: Dr. Erin Bruce

**Invited Lecturer**

Spring 2020

*Breathing and Airway Defense: Implication for Rehabilitation (PHT6935C)*. 3 credit hours

University of Florida College of Public Health and Health Professionals  
Course Director: Dr. Gordon Mitchell

**Invited Lecturer**

Fall 2019

*Neuroscience Seminar (GMS774)*. 1 credit hour  
University of Florida College of Medicine  
Course Director: Dr. Jeremy McIntyre

**Course Coordinator/Director**

Fall 2019

*Engineering Research (EGN4912)*. 1 credit hour  
University of Florida College of Engineering  
Student trainee: Veronica Schurmann

**Course Coordinator/Director and Primary Lecturer**

Fall 2017 - present

*Veterinary Pharmacology (VEM5171)*. 3 credit hours, 130+ students  
University of Florida College of Veterinary Medicine  
Average mean student evaluation of 4.8/5. I currently teach 20/42 lectures.

**Course Coordinator/Director**

Spring 2018

*Physiological Sciences Seminar Series (VEM6932)*. 1 credit hour  
University of Florida College of Veterinary Medicine

**Lecturer**

Fall 2016

*Veterinary Pharmacology (VEM5171)*. 3 credit hours  
College of Veterinary Medicine  
Course Director: Dr. Tom Vickroy

**Invited Lecturer**

Fall 2016

*Introduction to Research for Pulmonary Fellows*  
University of Iowa Department of Internal Medicine  
Course Director: Dr. Mahmoud Abou Alaiwa

**Lecturer and Laboratory Instructor**

Spring 2016

*Neurobiology (BIOL3656)*  
University of Iowa Department of Biology  
Course Director: Dr. Michael Dailey

**Lecturer and Laboratory Instructor**

Spring 2015

*Neurobiology (BIOL3656)*  
University of Iowa Department of Biology  
Course Director: Dr. Michael Dailey

**Laboratory Instructor**

Spring 2014

*Medical Neuroscience (MED286)*  
University of Iowa Department of Cell Biology and Anatomy  
Course Directors: Drs. Justin Sipla and Martin Cassell

**Lecturer and Laboratory Instructor**

Spring 2014

*Neurobiology (BIOL3656)*  
University of Iowa Department of Biology  
Course Director: Dr. Michael Dailey

**Lecturer** Spring 2014  
*Evolution (BIOL3172)*  
 University of Iowa Department of Biology  
 Course Director: Dr. Maurine Neiman

**Invited Lecturer** Fall 2007  
*Introduction to Methods in Biomedical Sciences Graduate Student Course*  
 University of South Carolina School of Medicine  
 Course Director: Dr. Marlene Wilson

**Laboratory Instructor** Fall 2007  
*Fundamental Neuroscience Graduate Student Course*  
 University of South Carolina School of Medicine  
 Course Director: Dr. James Augustine

MENTORING  
AND  
TRAINING  
ACTIVITIES

International and National **STEM Mentor** Mar 2018 - Oct 2019  
 1000 Girls 1000 Futures, New York Academy of Sciences

**STEM U Mentor** Oct 2018 - Oct 2019  
 New York Academy of Sciences (program ended)

**STEM Mentor** Sep 2017 - Oct 2018  
 United Technologies  
 New York Academy of Sciences (program ended)

University **Research Faculty Mentor** May 2021 - present  
 NIH MARC

**Research Faculty Mentor** Aug 2020 - present  
 SF2UF Bridge to Baccalaureate

**Mentor** Aug 2018 - May 2021  
 University of Florida Minority Mentoring Program (UMMP)

College **Research Mentor** Apr 2018 - present  
 University of Florida College of Medicine  
 Summer Neuroscience Internship Program

Faculty and Postdoctoral Mentees **Primary Advisor** Aug 2022 - July 2023  
 Kalene Jasso, PhD  
 Postdoctoral Scholar  
 University of Florida College of Veterinary Medicine  
 Project: Development of pigs with reporter proteins in neurons

**Primary Advisor** Oct 2019 -Oct 2022  
Mariana Sponchiado, DVM, PhD  
Postdoctoral Scholar  
University of Florida College of Veterinary Medicine  
Project: Development of pigs with reporter proteins in neurons

**Primary Advisor** May 2017 - Apr 2019  
Kalina Atanasova, DVM, PhD  
Assistant Research Scientist  
University of Florida College of Veterinary Medicine  
Project: Neural regulation of airway physiology in pigs and mice  
\*currently a senior scientist in the College of Pharmacy at University of Florida

**Research Mentor** July 2015 - Oct 2015  
Michael S. Hoffman, MD, PhD  
Pulmonary Fellow  
University of Iowa College of Medicine  
Project: Neural control of human and porcine airway epithelia function.  
Laboratory of Dr. Michael Welsh  
\*currently a pulmonologist at Mercy of Iowa City

Graduate  
And  
Professional  
Mentees

**Graduate Committee Member** July 2023 - present  
Harrison Clarke  
PhD candidate  
Department of Biochemistry and Molecular Biology

**Graduate Committee Member** April 2023 - present  
Gabiella Robilotto  
PhD candidate  
Physiological Sciences

**Primary Advisor** Oct 2022 - April 2023  
Steven Beck, BS  
PhD candidate  
Physiology and Functional Genomics

**Primary Advisor** Jan 2020 - Aug 2023  
Carolina Le-Bert, DVM  
PhD candidate  
Physiology and Functional Genomics  
University of Florida College of Medicine  
\*\*Funded by the Department of Defense  
Project: Cardiopulmonary physiology in large marine mammals  
\*Graduated with PhD  
\*currently the supervising veterinarian for the swimmer defense program at King Bay Naval satellite facility

- Primary Advisor** Mar 2019 - May 2021  
 Joshua Dadural  
 PharmD Candidate  
 University of Florida College of Pharmacy  
 Project: Neural control of airway smooth muscle and mucus secretion in pigs  
 \*awarded Kappa Psi Foundation Scholarship  
 \*graduated with PharmD  
 \*currently a fellow Bristol Meyers Squib
- Primary Advisor** Aug 2019 - April 2021  
 Eda Eken  
 PharmD Candidate  
 University of Florida College of Pharmacy  
 Project: Development of molecular tools for modulation of porcine neurons  
 \*awarded Debbie Desantis Fellowship in April 2020 to cover tuition for last two years of pharmacy school  
 \*graduated with PharmD  
 \*currently a fellow at UF college of Pharmacy
- Graduate Committee Member** Aug 2018 - Dec 2021  
 Melany Madrid  
 PhD Candidate  
 Animal Sciences  
 University of Florida Institute of Food and Agricultural Sciences  
 Project: Novel antiviral development in humans and swine
- Graduate Committee Member** Apr 2018 - Aug 2022  
 Evelyn Castillo  
 PhD candidate  
 Physiological Sciences  
 University of Florida College of Veterinary Medicine  
 Project: Periodontal disease in rice rats
- Research Mentor** Sep 2014 - Dec 2014  
 Nicholas Bormann  
 MD candidate  
 University of Iowa  
 Project: Vagal ganglia transcriptome profiling in asthma. Laboratory of Dr. Michael Welsh  
 \*currently a resident in Psychiatry at University of Iowa
- Research Mentor** Summer 2012  
 Rachel Genova  
 MD/PhD candidate  
 Medical Scientist Training Program  
 University of Iowa  
 Project: Functional expression of the olfactory signaling pathway in skeletal muscle. Laboratory of Dr. Michael Welsh

\*currently a resident in Internal Medicine at University of Iowa

**Research Mentor**

Summer 2011

Jung Min Park  
MD/PhD candidate  
Medical Scientist Training Program  
University of Iowa  
Project: Identification of myelin gene transcript abnormalities in cystic fibrosis pigs. Laboratory of Dr. Michael Welsh  
\*currently a resident in Neurosurgery at Zucker School of Medicine at Hostra/Northwell

**Research Mentor**

Summer 2008

Ashlie Evans  
PhD Candidate  
University of South Carolina School of Medicine  
Project: Investigation of novel antidepressant on amygdalar neurochemistry in stressed rats. Laboratory of Dr. Larry Reagan  
\*currently a Senior Medical Liason at Amgen

**Research Mentor**

Summer 2007

Isabel Martins  
PhD Candidate  
Departamento de Biologia Experimental, Faculdade de Medicina  
University of Portugal  
Project: Brainstem noradrenaline responses in rodent models of pain. Laboratory of Dr. Jim Fadel  
\*currently an Assistant Professor at the University of Portugal

Undergraduates

**Primary Advisor**

June 2021 - May 2022

Victor Moncada  
Biochemistry  
University of Florida

**Primary Advisor**

May 2021 - present

Amy Fagan  
Microbiology  
University of Florida

**Primary Advisor**

May 2021 - May 2022

Luz Mata  
Sociology, pre-medicine  
University of Florida

**Primary Advisor**

Aug 2020 - Feb 2023

Angelina Bonilla  
Biology  
University of Florida



SF2UF mentee

**Primary Advisor** Aug 2019 - May 2020  
Laura Bravo, B.S.  
Chemical Engineering  
University of Florida  
Honors thesis project (*magna cum laude*): Neural regulation of mucus secretion and transport in pigs  
\*currently a food safety and quality associate at General Mills

**Primary Advisor** Aug 2019 - May 2020  
Maria Maura.  
University of Florida MMP Mentor

**Primary Advisor** May 2019 - May 2020  
Jonai Moore, B.S.  
Biology  
Bethune-Cookman University, UF SNIP mentee  
Senior dissertation project: Neural plasticity in airway disease in mice  
\*currently a research technician for Fulgent Genetics

**Primary Advisor** Nov 2018 - May 2020  
Veronica Schurmann, B.S.  
Chemical Engineering  
University of Florida  
\*currently a SHEQ Engineer at L'Oreal

**Primary Advisor** Jan 2017 - May 2020  
Emily Collins, B.S. M.S.  
Animal Sciences  
University of Florida  
Project: Afferent and efferent regulation of airway physiology in mice and pigs  
\*currently an animal technician at NC State

**Primary Advisor** Aug 2018 - May 2019  
Gianne Miranda  
University of Florida MMP Mentor

**Primary Advisor** Nov 2017 - May 2019  
Maria Guevara, B.S.  
Chemical Engineering  
University of Florida  
Honors Thesis Project (*summa cum laude*): Effects of acute airway acidification of mucus transport and lung obstruction in pigs  
\*Awarded NSF Graduate Research Fellowship: Novel mucus penetrating particles (written and submitted under my guidance in October 2018, awarded April 2019)  
\*currently a PhD candidate at University of Michigan

- Primary Advisor** Nov 2017 - May 2018  
Kevin Vogt, B.S.  
Biochemistry  
University of Florida  
Project: Effects of airway irritants on airway physiology  
\*currently a MD candidate at Eastern Virginia Medical School
- Primary Advisor** Feb 2017 - Aug 2018  
Joshua Dadural, B.S. PharmD  
International Studies  
University of Florida  
Project: Effects of sensory nerve perturbation on airway mucus  
\*\*performed an independent study in my lab to investigate worldwide initiatives for scientists studying climate change, resulting in 1<sup>st</sup> author manuscript  
\*currently at postdoctoral Fellow at Bristol Meyer Squibb
- Primary Advisor** June 2017 - Aug 2017  
Giselle Edwards, B.S., M.S.  
Public Health  
Johns Hopkins University  
Project: Glutamatergic receptors in asthma.  
\*currently a Research Assistant at Truth Initiative
- Primary Advisor** Nov 2014 - Jan 2015  
Christopher Cozzolino, B.S.  
College of Liberal Arts & Sciences  
University of Iowa  
Project: Cloning of porcine mucins. Laboratory of Dr. Michael Welsh  
\*currently a pharmacist (PharmD) and co-Founder of Uptown Creation
- Primary Advisor** Jun 2011 - Jan 2013  
Richard Bahner, B.S.  
College of Engineering  
University of Iowa  
Project: Determination of neural innervation defects in cystic fibrosis. Laboratory of Dr. Michael Welsh  
\*currently a product manager at TikTok
- Research Mentor** Aug 2004 - Aug 2005  
Anita Autry, Ph.D.  
Honors College  
University of South Carolina  
Project: Glucocorticoid regulation of glutamate receptors. Laboratory of Dr. Lawrence Reagan  
\*currently an Assistant Professor at Albert Einstein College of Medicine

HIGH SCHOOL STUDENTS (1 of 6 shown due to privacy)	<b>Primary Advisor</b> Taylor Schwab South Sumter High School, Bushnell, FL. Project: Sesamol Influence on airway mucus secretion *awarded 2 <sup>nd</sup> place at local science fair	Aug 2018 - Aug 2005
COMMITTEE, ADMINISTRATIVE SERVICES		
National	<b>Workshop Chair</b> What does CFTR do outside of the Lung? 37 <sup>th</sup> Cystic Fibrosis Conference scheduled to occur in Phoenix, Arizona, in November. Invited Request.	April 2023 - present
	<b>Co-Chair</b> American Physiological Society Respiration Section Nominations Committee	Dec 2022 - present
	<b>Member</b> American Physiological Society Animal Care and Experimentation Committee	Aug 2022 - present
	<b>Workshop Chair</b> Models to Better Understand CF Pathogenesis & Biology. 35 <sup>th</sup> Cystic Fibrosis Conference. Rescheduled from September 2021 in San Antonio, Texas to virtual format in November 2021. Invited Request	April 2021 - Nov 2021
	<b>Member</b> NIH SPARC Steering Committee: Communications and Outreach *biweekly meetings	Jun 2020 - Dec 2022
	<b>Member</b> NIH Early Career Reviewer Program	Dec 2018 - Nov 2020
	<b>Member and Abstract Reviewer</b> NIH SPARC Steering Committee: Conference Planning	Oct 2018 - July 2019
	<b>Member</b> NIH SPARC Steering Committee: Map Definition	Aug 2017 - Aug 2018
Regional	<b>Judge</b> Society for Neuroscience Conference North Central Florida Chapter Gainesville, FL	Feb 2021
	<b>Judge</b> Society for Neuroscience Conference North Central Florida Chapter	Jan 2020

	Gainesville, FL	
University	<p><b>Faculty Advisor</b>  University Rebuilding Together  Undergraduate student organization  University of Florida  Gainesville, FL</p> <p><b>Abstract Reviewer</b>  Center for Integrative Cardiovascular and Metabolic Disease  Early Career Showcase  Basic Science Section  University of Florida  Gainesville, FL</p> <p><b>Facilitator</b>  IACUC improvement committee  University of Florida  Gainesville, FL</p> <p><b>Member</b>  Breathing Research and Therapeutics Center  University of Florida  Gainesville, FL</p> <p><b>Panelist</b>  University of Iowa Postdoc Association K Award Workshop  Iowa City, IA</p> <p><b>Member</b>  University of South Carolina Institutional Animal Use and Care Committee  Columbia, SC</p>	<p>Aug 2022 - present</p> <p>April 2022</p> <p>April 2022 - May 2022</p> <p>June 2021 - present</p> <p>Nov 2015</p> <p>July 2006 - July 2007</p>
College	<p><b>Judge</b>  Top Dog competition, Class of 2025  Department of Physiological Sciences  University of Florida College of Veterinary Medicine  Gainesville, FL</p> <p><b>Judge</b>  Top Dog competition, Class of 2026  Department of Physiological Sciences  University of Florida College of Veterinary Medicine  Gainesville, FL</p> <p><b>Class Advisor</b>  Class of 2026  University of Florida College of Veterinary Medicine</p>	<p>Feb 2023</p> <p>Feb 2023</p> <p>Aug 2022- present</p>

Gainesville, FL

**Member**

July 2022- present

Tenure and Promotions Committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Sept 2022- present

Chair Search Committee  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Judge**

Feb 2022

Top Dog competition, Class of 2024  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Judge**

Feb 2022

Top Dog competition, Class of 2023  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

April 2022- Dec 2022

Tenure Track Faculty Position Search Committee  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

July 2021- present

Fiscal Management Task Force  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Mar 2021- Aug 2021

LACS Chair Search Committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Chair**

Mar 2019 - Jun 2020

Research Committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Judge**

Apr 2019

Phi Zeta Research Celebration

University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Oct 2018 - Dec 2019

Physiological Sciences Chair search committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Jul 2018 - Jul 2021

Research Committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Jul 2016 - Jul 2019

Faculty-Student Communications Committee  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

Mar 2017 - May 2018

Faculty search committee (Preeminence in regenerative medicine)  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Marshal**

May 2018

Spring Commencement Ceremony  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Panelist**

Apr 2015

Successful Job Search Workshop  
University of Iowa Graduate College  
Iowa City, IA

Department  
and Center

**Chair**

Dec 2022 - present

Strategic Vision for Department Affairs Committee  
Department of Physiological Sciences  
University of Florida College of Medicine  
Gainesville, FL

**Member**

Aug 2022 - present

Graduate Studies Committee  
Department of Physiological Sciences  
University of Florida College of Medicine  
Gainesville, FL

**Member**

June 2022 - present

NeuroGator Scholars Selection Committee  
McKnight Brain Institute

University of Florida College of Medicine  
Gainesville, FL

**Member**

Sept 2022

Administrative II Support Specialist Committee  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

May 2022 - present

Communications Committee  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Member**

April 2022 - Aug 2022

Research Track Faculty Position Search Committee  
Department of Physiological Sciences  
University of Florida College of Veterinary Medicine  
Gainesville, FL

**Judge**

July 2019

Summer Neuroscience Internship Program Poster competition  
Department of Neuroscience  
University of Florida  
Gainesville, FL

**Member**

May 2018 - June 2018

Physiological Sciences Administrative Assistant II Search Committee  
University of Florida  
Gainesville, FL

**Co-Coordinator**

Aug 2017 - April 2018

Physiological Sciences Seminar Series  
University of Florida  
Gainesville, FL

**Coordinator**

Feb 2017 - Mar 2018

Physiological Sciences Blood-borne Pathogen Program  
University of Florida Department  
Gainesville, FL

**Member**

Jan 2017 - Dec 2018

Physiological Sciences Betterment Committee  
University of Florida  
Gainesville, FL

**Member**

Mar 2017 - Apr 2017

Physiological Sciences Faculty Search Committee  
University of Florida  
Gainesville, FL

**Judge** Mar 2017  
Best in Show Research Competition  
University of Florida  
Gainesville, FL

**Member** Mar 2005 - June 2006  
Department of Pharmacology, Physiology and Neuroscience Graduate Studies  
Committee  
University of South Carolina  
Columbia, SC

Other

**Demonstrator** Mar 2023  
Brain Awareness Week  
Meadowbrook Elementary  
1<sup>st</sup> Grade  
Gainesville, FL

**Host** Sep 2019  
IMARIS workshop entitled “An introduction to 3D/4D visualization & analysis  
techniques.” Presented by James Shaw, Bitplane Southeast Regional Engineer.  
University of Florida  
Gainesville, FL

**Presenter** Feb 2018  
E-week STEM outreach  
University of Florida College of Engineering  
Gainesville, FL

**Judge** Mar 2016  
Research Day  
University of Iowa Internal Medicine  
Iowa City, IA

**Group Leader** Feb 2014  
WISE Girl Scout Badge Day  
Pomerantz Center  
Iowa City, IA

**Judge** Feb 2013  
Eastern Iowa Science and Engineering Fair. Senior Division  
Biological Sciences Subdivision  
Cedar Rapids, IA

**Judge** Mar 2008



USC Region II Science and Engineering Fair  
Junior Division  
Biological Sciences Subdivision  
Columbia, SC

**Judge** Mar 2007

USC Region II Science and Engineering Fair  
Junior and Senior Division, Health and Medicine Subdivision  
Columbia, SC

**Judge** Jan 2007

Hand Middle School Advanced Academic Program  
Grades 6-8  
Columbia, SC

**Participant** Oct 2006

Society for Neuroscience Student Focus Group  
36<sup>th</sup> Annual Neuroscience Meeting  
Invited Request

**Judge** Mar 2004

USC Region II Science and Engineering Fair  
Junior Division  
Biological Sciences Subdivision  
Columbia, SC

**Demonstrator** Mar 2001

Roosevelt Elementary School Science Exposition  
grades 1-5  
Ames, IA

MEMBERSHIPS **Associate** Feb 2021 - Feb 2022  
The Royal Society of Medicine

**Member** Jan 2020 - Jan 2022  
Sigma Xi

**Member** Jan 2014 - present  
The Physiological Society

**Member** Feb 2018 - Jan 2022  
New York Academy of Sciences

**Member** Jan 2014 - present  
American Society for Pharmacology and Experimental Therapeutics

**Member** Jan 2014 - present  
American Physiological Society

<b>Member</b> American Association for the Advancement of Science (AAAS)	Jan 2014 - present
<b>Member</b> Society for Neuroscience	Mar 2005 - present
<b>Member</b> American Association of University Women	Jan 2016 - Jan 2017
<b>Member</b> International Society of Psychoneuroendocrinology	Oct 2006 - Jan 2015
<b>Member</b> Women in Science & Engineering	Aug 2000 - Aug 2002

Last updated 09/11/23