Leah Renee Reznikov Work: 352-294-4059|leahreznikov@ufl.edu

CURRENT Department of Physiological Sciences

AFFILIATION University of Florida

 Gainesville, FL 32610

EDUCATION **University of South Carolina School of Medicine**, Columbia, SC.

*Ph.D., Biomedical Sciences; focus in Neuroscience.* Aug 2004 – Aug 2008

 **University of Newcastle, Newcastle**, New South Wales, Australia.

*Regents Semester Study Abroad Program.* Feb 2000 – June 2000

 **Iowa State University**, Ames, IA.

*B.S., Biology.*  Aug 1998 – Aug 2004

POSITIONS & **Department of Physiological Sciences, University of Florida**

AFFILIATIONS *Associate Professor with tenure* July 2022 – present

 **Department of Physiological Sciences, University of Florida**

 *Assistant Professor* June 2016 – June 2022

 **Department of Pharmacology, University of Florida**

*Affiliate Faculty* Oct 2019 – present

**Department of Animal Sciences, University of Florida**

*Affiliate Faculty* Apr 2019 – present

**Department of Neuroscience, University of Florida**

*Affiliate Faculty* Oct 2018 – present

**Department of Physiology and Functional Genomics, University of Florida**

*Affiliate Faculty* Mar 2018 – present

 **Pulmonary, Critical Care, & Occupational Medicine, University of Iowa**

*Postdoctoral Research Scholar*

Laboratory of Dr. Michael Welsh Sep 2010 – June 2016

 **Howard Hughes Medical Institute**

*Postdoctoral Research Associate*

Laboratory of Dr. Michael Welsh Sep 2008 – Aug 2010

 **University of South Carolina School of Medicine**

*Graduate Research Student Associate*

Laboratories of Dr. Lawrence Reagan and Dr. Jim Fadel Aug 2004 – Aug 2008

 **University of South Carolina School of Medicine**

*Research technician*

Laboratories of Dr. Lawrence Reagan and Dr. Jim Fadel Oct 2002 – July 2004

LEADERSHIP ***Curriculum Coordinato****r* Aug 2023 – present

OPPORTUNITIES T32 BREATHE Training Program

AND RELATEDUniversity of Florida College of Public Health and Health Professions

***Member & Graduate*** Aug 2022 – May 2023

University of Florida Academy for Emerging Leaders

 *University wide competitive selection process*

***Founding Member*** Aug 2022 - present

 Postdoc Advancement Team

McKnight Brain Institute

University of Florida College of Medicine

Gainesville, FL

***Founding Member*** 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. *Administered through the American Physiological Societ*

***Certificate of specialization in Leadership and Management*** July 2021 – Feb 2022

Harvard Business School Online

***Diversity and inclusion certificate*** Sep 2021 – May 2022

eCornell (Cornell University)

***Scientific Advisor*** Aug 2017 – present

Cure Sanfilippo Foundation

help shape the funding initiatives and portfolio by providing key scientific and strategic feedback to the *Chief Scientific Officer*

HONORS ***Teacher of the Year Award*** May 2022

AND Class of 2024

AWARDS University of Florida College of Veterinary Medicine

College-wide award across instructors

 Awardee

 ***Giles Filley Memorial Award for Excellence in Respiratory Physiology***   ***and Medicine*** April 2022

 American Physiological Society

 Awardee

 ***Rising Star Mentorship Program*** June 2021

 Global Virus Network

 Nominee

 ***Zoetis Award for Veterinary Research Excellences*** 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

15th 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

14th 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 **Cystic Fibrosis Foundation (Reznikov –PI)** April 2023 – present

RESEARCH ***Mental Health Research Working Group***

SUPPORT &REZNIK23Y3

AWARDS $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)***

T32HL134621

$854,184 (direct) 1.0 calendar months

 The goal of this T32 is to provide cutting edge training to predoctoral and postdoctoral trainees pursuing research in control of breathing.

 **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.

COMPLETED **UF Opportunity Grant** (Driver– PI) Apr 2021 – Apr 2023

RESEARCH (**Reznikov – Co-PI**)

SUPPORT ***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.

**Katie Rose Foundation (Reznikov – PI)** May 2020 – Apr 2023

 ***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.

**Cystic Fibrosis Foundation** (Du – PI) Nov 2021 – Oct 2023

 **(Reznikov – Co-PI**)

 ***CFTR Activators Regulate Emotional Behaviors***

 DU20I0

$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***

**REZNIKO20I0**

$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 1. Pelot NA, Vaseghi M, ***Reznikov L,*** Osborne PB, Conde SV***.*** 2023

REVIEWED Editorial: Multiscale Anatomy and Biophysics of the Autonomic Nervous System:

PUBLICATIONS Implications for Neuromodulation. Frontiers in Neuroscience.

(59 total) Accepted.

(4647 citations)

(i10 index 45) 2. Marciante AB, Lurk C, Mata L, Lewis J, ***Reznikov LR,*** and Mitchell GS***.*** 2023

(h-index 32) Progressive tauopathy disrupts breathing stability and chemoreflexes during

 presumptive sleep in mice. Frontiers in Physiology, Respiratory Physiology, and

 Pathophysiology. Sep 21;14:1272980. doi: 10.3389/fphys.2023.1272980. eCollection 2023.

 3. 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.

 4. 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

5. ***Reznikov LR.*** To alkalinize or acidify, that is the question. 2022.

 Biophysical Journal. 5436-5437. doi: 10.1016/j.bpj.2021.11.012.

 6. 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

 Critical Care Medicine. 2021. In press. doi: 10.1164/rccm.202102-0451OC.

 8. 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

 9. 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.

10. ***Reznikov LR****.* From apples to airways – why gravity matters. Experimental Physiology (commissioned). doi: 10.1113/EP089333. Online ahead of print. 2020. \*corresponding author

11. ***\*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. PMCID: PMC7713548.

2020.\*corresponding author

12. ***\*Reznikov LR****.* PKCe-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

13.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

14.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. PMCID: PMC7272746. 2020. \*corresponding author

15.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.  PMCID: PMC6954972. 2020. \*corresponding author

16.Atanasova KR***, \*Reznikov LR*.** Strategies for measuring airway mucus and mucins. Respiratory Research. 20(1):261. doi: 10.1186/s12931-019-1239-z. PMCID: PMC6873701. 2019. \*corresponding author

17.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. PMCID: PMC6731178. 2019. \*corresponding author.

18.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. PMCID: PMC7199780. 2019.

19.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. PMCID: PMC6351055. 2019.

20. ***\*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. PMCID: PMC6383496. 2019. \*corresponding author

21.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. PMCID: PMC6203197. 2018.

22.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. PMCID: PMC6090699. 2018. \*corresponding author

23.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

24. ***\*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. PMCID: PMC6139658. 2018. \*corresponding author

25. ***\*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. PMCID: PMC5975219. 2018. \*corresponding author

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28. ***\*Reznikov LR***. Cystic fibrosis and the nervous system. Chest.151(5):1147-1155. PMCID: PMC5472519. 2017. \*corresponding author

29. ***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. PMCID: PMC5098826. 2016.

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32.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. PMCID: PMC4803085. 2016.

33. Meyerholz DK, Lambertz 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. PMCID: PMC4805467. 2016.

34. 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. PMCID: PMC4346161. 2015.

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37. 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. PMCID: PMC4066526. 2014.

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39. 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. PMCID: PMC3998777. 2013.

40. 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. PMCID: PMC3668832. 2013.

41. ***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. PMCID: PMC3581923. 2013 (***Selected as cover***)

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53. ***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***)

54. 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.

55. 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.

56. Pasumarthi R, ***Reznikov LR***, Fadel J. Activation of orexin neurons by acute nicotine. European Journal of Pharmacology. 1-3:172-6. 2006.

57. 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.

58. Grillo CA, Piroli GG, Wood GE, ***Reznikov LR***, McEwen BS, Reagan LP. Radioimmunocytochemical analysis of synaptic proteins provides new insight into morphological plasticity in the rat hippocampus. Neuroscience. 2:477-486. 2005.

59. Fadel J, Pasumarthi R, ***Reznikov LR***. Stimulation of cortical acetylcholine release by orexin A. Neuroscience. 2:541-7. 2005.

BOOK ***Reznikov LR*,** Reagan LP, Fadel JR. Anatomical and neurochemical correlates

CHAPTERS 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.3rd edition. Springer US. 2007.

SELECTED Sponchiado M, Bonilla AL, Mata L, Liao YSJ, Fagan A, Moncada V, ***Reznikov LR***. Club cell

ABSTRACTS CREB regulates the goblet cell transcriptional network and pro-mucin effects of IL-1B

AND POSTER in male murine airways. Gordon Research Conference. Mucus, Cilia, Mucociliary Interactions. 2023.

PRESENTATIONS

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 Neurotropic 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#*,* Kuan SP#, Guevara MV#, Collins EN%, Atanasova KR%, 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 **“Preclinical Insights for CFTR modulation in the Brain”.** Cystic Fibrosis

EXTRAMURALFoundation. Annual PRIME meeting. Bethesda, Maryland USA. 2023.

ORAL

PRESENTATIONS **“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 **“Local and Central Control of Airway Physiology Under Inflammatory**

OTHER **Conditions.”**

ORAL Department of Physiological Sciences. University of Florida College of Veterinary

PRESENTATIONS Medicine. Gainesville, FL. 2023.

 **“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 2nd 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. 3rd Annual GA/SC Neuroscience Consortium. Columbia, SC. 2008.

EDITORIAL **Guest Associate Editor**,Frontiers in Neuroscience Nov 2022 – present

ACTIVITIES *Autonomic section Special Issue*

EDITORIAL **Associate Editor**,Frontiers in Neuroscience Apr 2022 – present

ACTIVITIES *Autonomic section*

**Reviewing Editor**,Frontiers in Molecular Biosciences Feb 2021 – present

*Cellular Biochemistry section* **Guest Associate Editor**,Frontiers in Pharmacology Dec 2020 – Jan 2021

  **Reviewing Editor**,Experimental Physiology Jan 2019 – present

 **Editorial Board Member,** Physiology and Behavior July 2019 – present

JOURNAL Journal of Physiology | Frontiers in Cell and Developmental Biology | Chest | Cell Reports |

REVIEWING Respiratory Research Neurobiology of Stress | Frontiers in Neuroscience | BMC Genomics |

ACTIVITIESNeuroscience and Biobehavioral Reviews | Journal of Cystic Fibrosis |Experimental Physiology |

(200+ peer reviews; Proceedings of the National Academy of Sciences | Frontiers in Medicine | Biomaterials Science |

see Web of Science Current Medicinal Chemistry | Biomedicine & Pharmacology | Journal of Pain Research |

for verification) 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 **The Wellcome Trust UK**

REVIEWING Jul - Aug 2023

ACTIVITIES Reviewer (*ad hoc*)

GRANT **University of Washington Cystic Fibrosis Research Development Program** REVIEWING June 2023

ACTIVITIES Reviewer (*ad hoc*)

 **United Kingdom Research and Innovation Medical Research Council** Nov 2022 – Dec 2022

 Reviewer (*ad hoc*)

 **Lung Cellular & Molecular Biology** July 2022 – present

 Member

 NIH Study section

 **Cystic Fibrosis Canada** Oct 2021 – present

 Reviewer (*ad hoc*)

**American Heart Association**  July 2021 – Nov 2021

 Signaling 1 Fellowship

Reviewer (*ad hoc*)

 **Department of Defense**  April 2021 – June 2021

 Respiratory Health

Reviewer (*ad hoc*)

 **National Institutes of Health** April 2021 – June 2021

 Lung Cellular, Molecular, and Immunobiology

Reviewer (*ad hoc*)

 **American Heart Association** Dec 2020 –March 2021

 Signaling – Basic Science

Reviewer (*ad hoc*)

**Department of Defense** June 2020 – July 2020

 Respiratory Health

Reviewer (*ad hoc*)

 **Cystic Fibrosis Europe** Mar 2020

 Reviewer (*ad hoc*)

**European Cystic Fibrosis Society** Mar 2020

 Reviewer (*ad hoc*)

**National Institutes of Health** Dec 2019 – Feb 2020

 Respiratory Integrative Biology and Translational Research

Reviewer (*ad hoc)*

**American Heart Association** 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 Co-**Course Coordinator/Director**  Fall 2023

AND *Physiological Sciences Seminar Series (VEM6932)*. 1 credit hour

INSTRUCTION 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 **STEM Mentor** Mar 2018 - Oct 2019

and National 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**

NIH MARC May 2021 – present

  **Research Faculty Mentor**

SF2UF Bridge to Baccalaureate Aug 2020 – present

 **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 **Faculty Mentor Committee Member** Aug 2023 - present

and Emma Schachner

Postdoctoral Assistant Professor

Mentees University of Florida College of Veterinary Medicine

 **Primary Advisor** Oct 2023 - present

 Pedro Trevizan-Bau

 Gator Neuroscholar

 University of Florida College of Veterinary Medicine

 Project: Sympathetic regulation of airway inflammation

 **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 **Graduate Committee Member**Nov 2023 – present

And Lexi Riley-DiPaola

Professional PhD candidate

Mentees Department of Neuroscience

  **Graduate Committee Member**Sept 2023 – present

 Nickolas Diodati

 PhD candidate

 Department of Medicine

 **Graduate Committee Member**July 2023 – present

 Harrison Clarke

 PhD candidate

 Department of Biochemistry and Molecular Biology

 **Graduate Committee Member**April 2023 – present

 Gabriella 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

Departmento 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. PharD

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 1st 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 **Primary Advisor** Aug 2018 – Aug 2005

SCHOOL Taylor Schwab

STUDENTS South Sumter High School, Bushnell, FL.

(1 of 6 shown Project: Sesamol Influence on airway mucus secretion

due to privacy) \*awarded 2nd place at local science fair

COMMITTEE,

ADMINISTRATIVE

SERVICES

National **Workshop Chair** April 2023 – Nov 2023

What does CFTR do outside of the Lung? 37th Cystic Fibrosis

Conference scheduled to occur in Phoenix, Arizona, in November. Invited Request.

**Co-Chair** Dec 2022 - present

American Physiological Society Respiration Section

Nominations Committee

 **Member** Aug 2022 - present

American Physiological Society Animal Care and Experimentation Committee

 **Workshop Chair** April 2021 – Nov 2021

Models to Better Understand CF Pathogenesis & Biology. 35th Cystic Fibrosis

Conference. Rescheduled from September 2021 in San Antonio, Texas to virtual format in November 2021. Invited Request

 **Member** Jun 2020 – Dec 2022

 NIH SPARC Steering Committee: Communications and Outreach

 \*biweekly meetings

**Member** Dec 2018 – Nov 2020

 NIH Early Career Reviewer Program

 **Member and AbstractReviewer** Oct 2018 – July 2019

NIH SPARC Steering Committee: Conference Planning

 **Member** Aug 2017 – Aug 2018

NIH SPARC Steering Committee: Map Definition

Regional **Judge** Feb 2021

 Society for Neuroscience Conference

North Central Florida Chapter

Gainesville, FL

 **Judge** Jan 2020

 Society for Neuroscience Conference

North Central Florida Chapter

Gainesville, FL

University **Faculty Advisor** Aug 2022 - present

University Rebuilding Together

Undergraduate student organization

University of Florida

Gainesville, FL

 **Abstract Reviewer** April 2022

Center for Integrative Cardiovascular and Metabolic Disease

Early Career Showcase

Basic Science Section

University of Florida

Gainesville, FL

 **Facilitator** April 2022 - May 2022

IACUC improvement committee

University of Florida

Gainesville, FL

 **Member** June 2021 - present

Breathing Research and Therapeutics Center

University of Florida

Gainesville, FL

**Panelist** Nov 2015

University of Iowa Postdoc Association K Award Workshop

Iowa City, IA

 **Member** July 2006 – July 2007

University of South Carolina Institutional Animal Use and Care Committee

Columbia, SC

College **Judge** Feb 2023

Top Dog competition, Class of 2025

Department of Physiological Sciences

University of Florida College of Veterinary Medicine

Gainesville, FL

College **Member** Sept 2023- Nov 2023

Research Space Policy Task Force

University of Florida College of Veterinary Medicine

Gainesville, FL

  **Judge** Feb 2023

Top Dog competition, Class of 2026

Department of Physiological Sciences

University of Florida College of Veterinary Medicine

Gainesville, FL

 **Class Advisor** Aug 2022- present

Class of 2026

University of Florida College of Veterinary Medicine

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 **Chair** Dec 2022 - present

and Center 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

1st 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

36th 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

**Member** Jan 2014 – present

American Association for the Advancement of Science (AAAS)

**Member** Mar 2005 – present

Society for Neuroscience

**Member** Jan 2016 – Jan 2017

American Association of University Women

**Member** Oct 2006 – Jan 2015

International Society of Psychoneuroendocrinology

**Member**  Aug 2000 – Aug 2002

Women in Science & Engineering

Last updated 11/06/23