

CURRICULUM VITAE

Patricia Silveyra, MSc, PhD, ATSF
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CURRENT POSITIONS

Professor (tenured) and Anthony D. Pantaleoni Eminent Scholar

Department of Environmental and Occupational Health
Indiana University School of Public Health, Bloomington, IN

Department Chair

Department of Environmental and Occupational Health
Indiana University School of Public Health, Bloomington, IN

Adjunct Professor in Medicine

Division of Pulmonary, Critical Care, Sleep & Occupational Medicine
Department of Medicine, Indiana University School of Medicine, Indianapolis, IN
MSTP faculty: <https://medicine.iu.edu/faculty-labs/silveyra>

Member, Melvin and Bren Simon Comprehensive Cancer Center

Tumor Microenvironment & Metastasis (TMM) research program, Indiana University

Principal Investigator

Silveyra laboratory, Indiana University School of Public Health - <http://silveyralab.com>

EDUCATION

| Degree | Institution & Location | Dates | Major |
|-------------------------------------|---|--------------|--|
| Graduate Certificate | Pennsylvania State University, World Campus | 2015 -2016 | Applied Bioinformatics |
| Post-Doctoral Research Fellow | Pennsylvania State University, College of Medicine, Center for Host Defense, Inflammation and Lung Disease (CHILD) Research, Department of Pediatrics | 2008 - 2011 | Pulmonary Molecular Biology |
| PhD <i>Summa cum laude</i> | University of Buenos Aires, Argentina | 2003 - 2009 | Doctor of Philosophy in Biological Chemistry <i>Neuroendocrinology</i> |
| BS, M.Sc. <i>Magna cum laude</i> | University of Buenos Aires, Argentina | 1999 - 2002 | Bachelor of Science and Master of Science Degrees in Biological Sciences <i>Molecular Biology and Biotechnology</i> |

ACADEMIC EMPLOYMENT

| Institution | Position/Rank | Dates |
|--|---|--------------|
| Indiana University School of Public Health Bloomington, Department of Environmental and Occupational Health, Bloomington, IN | Professor | 2024-current |
| Indiana University School of Public Health Bloomington, Department of Environmental and Occupational Health, Bloomington, IN | Chair | 2023-current |
| Indiana University School of Medicine Department of Medicine, Division of Pulmonary, Critical Care, Sleep & Occupational Medicine Indianapolis, IN | Adjunct Professor in Medicine | 2024-current |
| Indiana University School of Public Health Bloomington, Department of Environmental and Occupational Health, Bloomington, IN | Interim Chair | 2022-2023 |
| Indiana University School of Public Health Bloomington, Department of Environmental and Occupational Health, Bloomington, IN | Associate Professor | 2021-2024 |
| Indiana University School of Medicine Department of Medicine, Division of Pulmonary, Critical Care, Sleep & Occupational Medicine Indianapolis, IN | Adjunct Associate Professor in Medicine | 2022-2024 |
| Pennsylvania State University College of Medicine, Hershey, PA | Adjunct Associate Professor of Pediatrics | 2018 - 2022 |
| University of North Carolina at Chapel Hill (UNC-Chapel Hill) School of Nursing (SON), Chapel Hill, NC | Associate Professor, Beerstecher-Blackwell Distinguished Term Scholar | 2018 - 2020 |
| UNC-Chapel Hill Biobehavioral Laboratory, Chapel Hill, NC | Director | 2018 - 2020 |
| UNC-Chapel Hill Center for Environmental Medicine, Asthma, and Lung Biology (CEMALB), Chapel Hill, NC | Member | 2018 - 2020 |
| Pennsylvania State University College of Medicine, Hershey, PA | Associate Professor of Pediatrics, Biochemistry and Molecular Biology, and Humanities | 2018 |
| Pennsylvania State University College of Medicine, Hershey, PA | Interim Director for Diversity and Inclusion in Education | 2015 - 2016 |
| Pennsylvania State University College of Medicine, Hershey, PA | Assistant Professor of Pediatrics, Biochemistry and Molecular Biology, and Humanities | 2013 - 2018 |
| Pennsylvania State University College of Medicine, Hershey, PA | Research Associate, Department of Pediatrics | 2011 - 2012 |
| Pennsylvania State University College of Medicine, Hershey, PA | Post-doctoral Research Fellow, Department of Pediatrics | 2008 - 2011 |
| Penn State University, Hershey Medical Center Hershey, PA | Visiting Research Faculty | 2008 |

OTHER EMPLOYMENT (selected)

| Institution | Position/Rank | Dates |
|---|------------------------|-------------|
| Institute of Biology and Experimental Medicine, Buenos Aires, Argentina | Graduate Student (PhD) | 2003 - 2007 |
| Leloir Research Institute, Buenos Aires, Argentina | Student Intern | 2002 - 2003 |
| University of Buenos Aires, Exact and Natural Sciences College, Buenos Aires, Argentina | Student Intern | 2001 - 2002 |
| Federal Police Department, Chemistry Laboratory, Buenos Aires, Argentina | Student Intern | 2001 - 2002 |

HONORS and AWARDS

| Year | Award or Honor |
|------|---|
| 2025 | Girls Inc of Monroe County “SMART” Award |
| 2023 | Indiana University (IU) Latino Faculty and Staff Council Faculty Award |
| 2023 | IU School of Public Health-Bloomington’s Outstanding Senior Researcher Award |
| 2023 | American Physiological Society (APS), A. Clifford Barger Underrepresented Minority Mentorship Award |
| 2022 | Anthony D. Pantaleoni Eminent Scholar, IU School of Public Health |
| 2022 | IU School of Public Health-Bloomington’s Distinguished Service Award |
| 2021 | Fellow of the American Thoracic Society |
| 2021 | Selected for the second cohort of New Voices in Sciences, Engineering and Medicine, National Academies of Sciences, Engineering, and Medicine |
| 2021 | Outstanding Pulmonary Researcher Award, Harvard T. H. Chan School of Public Health Molecular and Integrative Physiological Sciences Program |
| 2021 | Diversity Scholarship to attend the American Physiological Society New Trends in Sex and Gender Medicine conference |
| 2020 | SACNAS Outstanding Research and Professional Mentor |
| 2020 | World Laureates Forum, selected as top 100 outstanding young scientists worldwide (also in 2021, and 2023) |
| 2020 | National Academy of Medicine Emerging Leaders in Health and Medicine Forum |
| 2019 | University of North Carolina at Chapel Hill Junior Faculty Development Award |
| 2019 | Invitee to the Tsukuba Conference for future shapers young researchers’ program |
| 2019 | Invitee to the Science and Technology in Society Forum Young Leaders Program |
| 2018 | University of North Carolina at Chapel Hill Center for Faculty Excellence Professional Exploration and Growth Grant |
| 2018 | Selected for the initial cohort of New Voices in Sciences, Engineering and Medicine, National Academies of Sciences as co-chair |
| 2018 | American Physiological Society Respiration Section New Investigator Award |
| 2018 | Sex and Gender Health Education Summit Travel Award |
| 2017 | Penn State College of Medicine Distinguished Early-Stage Investigator Award |
| 2017 | Penn State College of Medicine Inspired Together Community Award |
| 2017 | Harrell Health Science Library READ Poster Recognition Award |
| 2017 | Invitee to the Advanced Leadership Institute, Howard Hughes Medical Institute and SACNAS |
| 2017 | APS Dale J. Benos Early Career Professional Service Award |
| 2017 | APS Respiration Section Outstanding Trainee Award |
| 2017 | “All In” at Penn State: An Achievement Award for Commitment to Diversity and Inclusion |
| 2017 | The Extra Mile Award, Leadership Harrisburg Area |

HONORS and AWARDS (cont.)

| Date | Award or Honor |
|------|---|
| 2017 | Organization for the Study of Sex Differences (OSSD)-BSD prize for best paper published in Biology of Sex Differences in 2016 |
| 2016 | Latina Leadership Award, The Conference for Women |
| 2016 | Invitee to the Linton-Poodry SACNAS Leadership Institute, American Association for the Advancement of Science (AAAS) |
| 2016 | Hershey Rotary Club Community Service Award |
| 2016 | YWCA "Tribute to Women of Excellence" Award |
| 2015 | Gordon Research Conference "Lung Development, Injury and Repair" Travel Award |
| 2015 | Invitee to the NHLBI Programs to Increase Diversity in Health-Related Research (PRIDE) "Functional and Applied Genomics of Blood Disorders" |
| 2015 | NIDDK Network of Minority Health Research Investigators (NMRI) Travel Award |
| 2014 | SACNAS Conference Travel Award |
| 2014 | FASEB/MARC Travel Award for APS Professional Skills Training Course |
| 2014 | Penn State Commission for Women Faculty "Achieving Women Award" |
| 2014 | Paul Harris Fellow Award, The Rotary Foundation, Rotary International |
| 2013 | GRC Carl Storm Underrepresented Minority Fellowship |
| 2012 | American Thoracic Society Minority Trainee Travel Award |
| 2011 | Bond and Bradley Outstanding Postdoctoral Award |
| 2009 | American Society for Cell Biology Postdoctoral Travel Award |
| 2008 | The Rotary Foundation Academic-Year Ambassadorial Scholarship |
| 2007 | <i>Summa cum laude</i> Doctoral Thesis dissertation |
| 2007 | Argentinean Physiological Society Student Travel Award |
| 2006 | Argentinean Society for Clinical Investigation Travel Award (also in 2005 and 2004) |
| 2004 | Argentinean National Research Council Doctoral scholarship |
| 2003 | Argentinean Agency for the Promotion of Science and Technology Doctoral scholarship |

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

Google scholar: <https://scholar.google.com/citations?user=a-NhZigAAAAJ&hl=en>

MyBibliography: <https://www.ncbi.nlm.nih.gov/myncbi/patricia.silveyra.2/bibliography/public/>

Peer-reviewed articles

1. Rousselle D, **Silveyra P**. **Acute exposure to ozone affects circulating estradiol levels and gonadotropin gene expression in female mice**. *Int. J. Environ. Res. Public Health* 2025, 22(2), 222, doi: 10.3390/ijerph22020222
2. Piret G, Fung FM, Fullerton J, Fico G, Ponkratov D, Chen W, Latorre D, Wan KY, Aghaeepour N, Welgryn J, Razi A, **Silveyra P**, Altun A, Jurkowska R, Hughes A, Wolfram J. **A call-to-action to address escalating global threats to academic research**. *The Innovation* 6(4), 100758, doi: 10.1016/j.xinn.2024.100758.
3. Emery L, Hughes A, Oji-Mmuo C, **Silveyra P**, Donnelly A, Siddaiah R. **Omic-signature of bronchopulmonary dysplasia associated pulmonary hypertension in <1500g-Birth-Weight-infants with Hemodynamically Significant Intracardiac Shunt**. *Pediatr Res*. 2024 Sep 13. doi: 10.1038/s41390-024-03541-5
4. Ekpruke CD, Alford R, Rousselle D, Babayev M, Sharma S, Parker E, Davis K, Hemmerich C, Rusch DB, **Silveyra P**. **Sex-specific alterations in the gut and lung microbiome of allergen-induced mice**. *Front Allergy*. 2024 Aug 15;5:1451846. doi: 10.3389/falgy.2024.1451846.

5. Sharma S, Rousselle D, Parker E, Ekpruke CD, Alford R, Babayev M, Commodore S, **Silveyra P. Sensitivity of Mouse Lung Nuclear Receptors to Electronic Cigarette Aerosols and Influence of Sex Differences: A Pilot Study.** Int J Environ Res Public Health. 2024 Jun 20;21(6):810. doi: 10.3390/ijerph21060810.
6. Diem SJ, Bayon BL, Mahmoud H, Garcia-Cazarin ML, Martin MJ, Rittschof CC, **Silveyra P**, Gurkan UA, Boland-Reeves A, Najib D, Wasson F. **New voices for a better society.** Proc Natl Acad Sci U S A. 2024 Apr 30;121(18):e2404579121. doi: 10.1073/pnas.2404579121. Epub 2024 Apr 24. Erratum in: Proc Natl Acad Sci U S A. 2024 Jun 11;121(24):e2409157121. doi: 10.1073/pnas.2409157121.
7. Ekpruke CD, Alford R, Parker E, **Silveyra P. Gonadal sex and chromosome complement influence the gut microbiome in a mouse model of allergic airway inflammation.** Physiol Genomics. 2024 Jun 1;56(6):417-425. doi: 10.1152/physiolgenomics.00003.2024.
8. Rodriguez Bauza D, **Silveyra P. Sex differences in exercise-induced effects on respiratory infection and immune function.** Respir AMJ. 2024; <https://doi.org/10.33590/respiramj/11000034>.
9. Lemini C, **Silveyra P**, Segovia-Mendoza M. **Cardiovascular disrupting effects of bisphenols, phthalates, and parabens related to endothelial dysfunction: Review of toxicological and pharmacological mechanisms.** Environ Toxicol Pharmacol. 2024 Feb 28;107:104407, doi: 10.1016/j.etap.2024.104407.
10. Babayev M, **Silveyra P. Role of Circular RNAs in Lung Cancer.** Babayev M, Silveyra P. Role of circular RNAs in lung cancer. Front Genet. 2024 Mar 4;15:1346119, doi:10.3389/fgene.2024.1346119.
11. Ekpruke CD, Alford R, Rousselle D, Babayev M, Sharma S, Commodore S, Buechlein A, Rusch DB, **Silveyra P. Transcriptomics analysis of allergen-induced inflammatory gene expression in the Four-Core Genotype mouse model.** Physiol Genomics. 2024 Feb 1;56(2):235-245, doi: 10.1152/physiolgenomics.00112.2023.
12. Commodore S, Ekpruke CD, Rousselle D, Alford R, Babayev M, Sharma S, Buechlein A, Rusch DB, **Silveyra P. Lung pro-inflammatory microRNA and cytokine expression in a mouse model of allergic inflammation: role of sex chromosome complement and gonadal hormones.** Physiol Genomics. 2024 Feb 1;56(2):179-193, doi: 10.1152/physiolgenomics.00049.2023.
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 22. Tsotakos N, Ahmed I, Umstead TM, Imamura Y, Yau E, **Silveyra P.**, Chroneos ZC. **All trans-retinoic acid modulates hyperoxia-induced suppression of NF- κ B-dependent Wnt signaling in alveolar A549 epithelial cells.** PloS ONE, 17(8), e0272769, doi: 10.1371/journal.pone.0272769.
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 28. **Silveyra P.**, Fuentes N, Rodriguez Bauza DE. **Sex and Gender Differences in Lung Disease.** Adv Exp Med Biol. 2021;1304:227-258, doi: 10.1007/978-3-030-68748-9_14.
 29. Rodriguez Bauza DE, **Silveyra P.** **Asthma, Atopy, and Exercise: Sex Differences in Exercise Induced Bronchoconstriction.** Exp Biol Med (Maywood). 2021 Apr 1:15353702211003858, doi: 10.1177/15353702211003858.
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 35. Wei H, Zhang C, **Silveyra P.** **The Relationships between Prenatal Smoking Exposure and Telomere Lengths in Fetuses, Infants, and Children: A Systematic Literature Review.** J Addict Nurs Oct/Dec 2020;31(4):243-252, doi: 10.1097/JAN.0000000000000364.
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- of binding and computational data.** Front Immunol. 2019 Nov 7;10:2613, doi: 10.3389/fimmu.2019.02613. eCollection 2019.
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Books

1. **Sex-Based Differences in Lung Physiology.** Edited by **P. Silveyra** and X. Tigno. American Physiological Society and Springer-Nature. ISBN 978-3-030-63549-7. © 2021
2. **Sistemas de Identificación Humana (Human Identification Systems).** Silveyra J and **Silveyra, P.** Buenos Aires; La Rocca ©2006. ISBN: 9789875170933.

Book Chapters

1. **Chapter 14: “Sex Differences in Lung Responses to Challenge”** Reference Module in Biomedical Sciences, by Rebuli M, Rousselle D, Dinwiddie L, and **Silveyra P**. Comprehensive Toxicology, 4th Edition. In press. (planned for publication in the Comprehensive Toxicology, 4th edition edited by Charlene McQueen) Elsevier, doi: <https://doi.org/10.1016/B978-0-323-95488-4.00171-6> .
2. **Chapter 4: “Role of non-coding RNAs in lung cancer”** by Babayev M and **Silveyra P**. In “Recent Advances in Non-Coding RNAs”, ISBN 978-1-80356-015-1. Edited by Lütfti Tutar; DOI: 10.5772/intechopen.107930 © 2022
3. **Chapter 14: “Sex and Gender Differences in Lung Disease”** by **Silveyra P**, Fuentes N, Rodriguez Bauza D. In “Lung Inflammation in Health and Disease, Volume II” Advances in Experimental Medicine and Biology. Springer-Nature. Edited by J. Xiao. ISBN 978-3-030-68748-9. © 2021
4. **Chapter 9: “Sex and Gender Differences in the Susceptibility to Environmental Exposures”** by **Silveyra P**, Al Housseiny H, Rebuli ME. **Sex-Based Differences in Lung Physiology.** 2021 Mar 19:251–90, doi: 10.1007/978-3-030-63549-7_9. PMID: PMC7972103. © 2021
5. **Chapter 5: “Ozone I. Human Disorders: An Overview”** by **Silveyra, P**, Fuentes N, and Rivera L. In “A Handbook of Environmental Toxicology – Human disorders and ecotoxicology”. Edited by Felix D’Mello. CAB International, UK. ISBN 978-1786394675. February 2020. <https://www.cabi.org/bookshop/book/9781786394675>

6. **Chapter 1: “Understanding the Intersection of Environmental Pollution, Pneumonia, and Inflammation: Does Gender Play a Role?”** by Silveyra, P. Fuentes N, Rivera L. In “Contemporary Topics of Pneumonia”. Edited by Zissis C. Chronos. InTechOpen Books, Croatia. ISBN 978-953-51-3708-5, Print ISBN 978-953-51-3707-8, Published: December 20, 2017; DOI: 10.5772/66055
7. **Chapter 9: “Developmental Lung Disease”** by Silveyra, P. In “Gender, Sex Hormones and Respiratory Disease: A Comprehensive Guide”. Edited by Anna R. Hemnes. Humana Press ©2016. ISBN 978-3-319-23996-5, doi: 10.1007/978-3-319-23998-9.
8. **Chapter 10: “Biochemical Forensic Systems for Human Identification”** by Silveyra, P. In “La Escena del Crimen” (The Crime Scene), by Silveyra J. Buenos Aires; La Rocca ©2003. ISBN: 9789875170605

Conference Podium Presentations

1. **“Sex differences in physiological effects of vaping exposures”** 2024 World Laureates Forum. Bioscience and Medical Science HUB. Shanghai, China. Oct 25-27, 2024
1. **“Sex, Hormones, and Women’s Health: Lessons Learned from Inhalation Toxicology Studies”** National Hispanic Science Network, New Orleans, LA, Oct 3-5, 2024
2. **“Studying thirdhand vaping exposures using the inExpose system – Exposure Assessment and Biological Characterization”** Society of Toxicology Meeting, Salt Lake City, UT, Mar 10-14, 2024
3. **“The roles of sex chromosomes and sex hormones in asthma”** 2023 World Laureates Forum. Bioscience and Medical Science HUB. Shanghai, China. Nov 6-8, 2023
4. **ATS 2023 Meet the expert course, “MTE22: Communicating Science to the Press”.** American Thoracic Society. Washington, DC, May 19-24, 2023.
5. **“Asthma in women: understanding the roles of sex hormones on lung inflammation”** T32 NIH T32 Directors meeting, American Thoracic Society. Washington, DC, May 19-24, 2023.
6. **“Sex differences in the lung microbiome in a mouse model of allergic asthma”** Organization for the Study of Sex Differences meeting. Calgary, Canada. May 8-11, 2023.
7. **“Sex and Gender Influences in Long COVID Outcomes”** American Physiological Society Summit Game Changer presentation. Long Beach, CA, April 22, 2023.
8. **“Sex differences with environmental exposures: what do we know and where do we go from here?”** 2022 American Thoracic Society Meeting, San Francisco, CA. May 13-18, 2022.
9. **“Sex differences in air pollution exposure effects”** 2021 World Laureates Forum, Young Scientist Forum – Biology and Medicine Session VI. Shanghai, China. Oct 29-Nov 1, 2021 (Virtual presentation)
10. **“Remaining resilient through my academic journey”** 2021 American Chemical Society Fall Meeting (virtual presentation), August 24, 2021.
11. **“Sex differences in the inflammatory response to air pollution: role of sex hormones”** 2020 World Laureates Forum, Young Scientist Forum – Biology and Medicine Session I. Shanghai, China. Oct 29, 2020 (Virtual presentation)
12. **“The role of gonadal hormones in the lung inflammatory response to ozone”.** 2020 Society of Toxicology Meeting. (Conference cancelled – presentation delivered online on Jun 11, 2020)
13. **“Sex differences in the lung immune response to environmental agents”.** Organization for the Study of Sex Differences meeting. Atlanta, GA. Apr 30-May 3, 2018
14. **“Circulating sex hormones as critical regulators of the lung immune response”.** AAAAI Annual meeting. Atlanta, GA. Mar 2017
15. **“Identification of biomarkers for pediatric lung disease using qPCR profiling of miRNAs”.** qPCR and Digital PCR Congress: USA. Philadelphia, PA. Jul 2016
16. **“Identification of microRNA biomarkers for bronchopulmonary dysplasia in tracheal aspirates from preterm infants”.** PRIDE annual meeting. Bethesda, MD. Apr 2016
17. **“Sex-specific mechanisms of ozone-induced acute lung inflammation”.** Short presentation at the NIH Future Research Leaders Conference. National Institutes of Health, Bethesda, MD. Sept 2015

18. **“MicroRNAs in Pediatric Inflammatory Lung Disease”**. MicroRNA World 2014 Conference, Boston, MA. Oct 2014
19. **“Sequence polymorphisms at the 3’UTR of human Surfactant Protein A gene variants differentially affect gene expression levels and miRNA regulation in vitro”**. Penn State College of Medicine Pediatric Research Day, Hershey, PA, May 2014
20. **“Identification of miRNA biomarkers for pediatric inflammatory lung disease”**. Penn State College of Medicine Junior Faculty Development Program. Hershey, PA, May 2014
21. **“Sex differences in the lung inflammatory response to acute ozone exposure”**. Penn State College of Medicine Women’s Health Research Day. Hershey, PA. Apr 2014
22. **“MicroRNAs mir-183 and mir-449b regulate the expression of human Surfactant Protein A gene variants in vitro”**. *Short presentation* FASEB Summer Research Conference “The Lung Epithelium in Health and Disease” Saxton Rivers, VT, Jul 2012
23. **“Surfactant Protein A gene variants: variant-specific elements, regulation of gene expression, and disease susceptibility”**. *Short presentation*, 10th Annual Data and Dine award presentation. Penn State College of Medicine, Hershey, PA, Feb 2012
24. **“Analysis of the 5’ and 3’ untranslated regions (UTRs) of human SPA genes: impact of variant-specific sequence elements on translation, secondary structure, and miRNAs”**. Penn State College of Medicine Pediatric Research Day, Hershey, PA, Sep 2010
25. **“Impact of untranslated regions (UTRs) on differential translation among Sftpa1 and Sftpa2 gene variants”**. *Respiratory Highlights Session*, Experimental Biology meeting, Anaheim, CA, Apr 2010.
26. **“Expression of the hypothalamic, pituitary and ovarian orexin receptors OX1 and OX2 during the estrous cycle. Role of GnRH and gonadotropins”**. LI Meeting of the Argentine Society of Clinical Investigation (SAIC). Mar del Plata, Argentina. Nov 2006.

Scientific abstracts/posters

1. Zein JG, Poonia S, Nixon L, Hu B, DeMeo DL, Shrivastav A, **Silveyra P**, Attaway A, Cao S, Castro M, Christerson S, Erzurum SC, Fahy JV, Gaston, Israel E, Jarjour NN, Levy BD, Mauger D, Moore WC, Wenzel SE, Woodruff P, Ortega VE, Meyers DA, Bleecker ER. *Sex-differences in Airway Transcriptomic Signature in Asthma*. To be presented at the European Respiratory Society Congress. Amsterdam, Netherlands, September 27- October 1, 2025.
2. Borges-Sosa O, Pinzon YV, Garcia AL, Carrillo NM, Caravajal Noh NG, Carrillo A, **Silveyra P**. *Prognostic Value of the Estrogen Receptor Alpha, ESRI, and Aromatase Expression in Non-Small Cell Lung Cancer: A Meta-Analysis*. To be presented at the American Society of Clinical Oncology (ASCO) meeting. Chicago, IL May 30-June 3, 2025.
3. Zein JG, Poonia S, Hu B, Demeo DL, Shrivastav A, **Silveyra P**, Attaway A, Castro M, Erzurum SC, Fahy JV, Gaston, Israel E, Jarjour NN, Levy BD, Mauger D, Moore WC, Wenzel SE, Ortega VE, Meyers DA, Bleecker ER. *Airway Transcriptomics Signature in Asthma Among Menopausal Women*. To be presented at the American Thoracic Society (ATS) meeting. San Francisco, CA, May 16-21, 2025
4. Ekpruke CD, Borges-Sosa O, Hassell C, Rousselle D, Dinwiddie L, Babayev M, Bakare A, **Silveyra P**. *Sex-Specific Anti-inflammatory Effects of a Ketogenic Diet in a Mouse Model of Allergic Airway Inflammation*. To be presented at the ATS meeting. San Francisco, CA, May 16-21, 2025
5. **Silveyra P**, Kim H, Joudeh N, Zein JG. *Hysterectomy Influences Asthma Risk and Severity in Menopausal Women*. To be presented at the ATS meeting. San Francisco, CA, May 16-21, 2025
6. Zein JG, Poonia S, Hu B, **Silveyra P**. *Menopause is not associated with asthma or severe asthma*. To be presented at the ATS meeting. San Francisco, CA, May 16-21, 2025
7. Alam F, Rousselle D, **Silveyra P**. *Investigating The Effects Of E-liquid On Lung Epithelial Cell Inflammatory Gene Expression*. To be presented at the ATS meeting. San Francisco, CA, May 16-21, 2025

8. Babayev M, Ekpruke CD, Borges-Sosa O, Sharma S, Rousselle D, Igwe C, Boulos MC, Parekh A, **Silveyra P.** *The role of sex hormones and sex chromosomes in urethane-induced lung carcinogenesis.* To be presented at the American Association of Cancer Research Annual Meeting. Chicago, IL, April 25-30, 2025.
9. Ekpruke CD, Rousselle D, Alford R, RBorges-Sosa O, Babayev M, Sharma S, Dinwiddie L, Parker E, **Silveyra P.** *Influence of sex chromosomes and gonadal sex on lung immune cell responses following allergen exposure.* To be presented at the 2025 American Physiology Summit. Baltimore, MD, April 24-27, 2025
10. Ekpruke CD, Borges-Sosa O, Rousselle D, Babayev M, **Silveyra P.** *Sex Chromosomes and Gonadal Sex Interactions in Modulating Airway Hyperresponsiveness and Immune Responses in FCG Mice.* To be presented at the Indiana Academy of Sciences Annual Meeting. Indianapolis, IN, March 22, 2025.
11. Babayev M, Ekpruke CD, Borges-Sosa O, Rousselle D, Igwe C, **Silveyra P.** *Sex differences in urethane-induced lung tumorigenesis in mice.* To be presented at the Indiana Academy of Science. Indianapolis, IN, March 22, 2025.
12. Coggan M, Rousselle D, **Silveyra P.** *Investigating the Effects of Estradiol and Progesterone on Human Epithelial Lung Cells by Using BEAS-2B Cells.* To be presented at the Society of Toxicology (SOT) meeting. Orlando, FL, March 16-20, 2025
13. Bartelman L, Sharma S, Commodore S, **Silveyra P.** *Sex-specific differential lung miRNA expression in mice exposed to nicotine-containing e-cigarettes.* To be presented at the SOT meeting. Orlando, FL, March 16-20, 2025
14. Rousselle D, **Silveyra P.** *Gonadal sex hormones modulate the inflammatory response to the house dust mites in female bronchial epithelial cells.* To be presented at the SOT meeting. Orlando, FL, March 16-20, 2025
15. Igwe C, Sharma K, Babayev M, Rousselle D, Sharma S, Ekpruke CD, Alford R, Buechlein A, Hemmerich C, Rusch D, **Silveyra P.** Commodore S. *Assessing the impact of thirdhand vaping exposures on lung and liver gene expression and DNA methylation in a mouse model.* To be presented at the SOT meeting. Orlando, FL, March 16-20, 2025
16. Brass K, Rousselle D, Aston C, **Silveyra P.** Bhatti F. *Surfactant Proteins A and D Nucleotide Variants: Association with Retinal Vascular Disease in Preterm Infants, Independent of Severity of Lung Disease.* To be presented at the Southern Regional Meeting, Southern Society of Clinical Investigation. New Orleans, LA, Feb 13-15, 2025
17. Redmond E, Rousselle D, **Silveyra P.** *Hormonal Triggers and Gene Expressions in Bronchial Epithelial Cells.* Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS). Pittsburgh, PA, Nov 13-16, 2024
18. Fecht K, Rousselle D, **Silveyra P.** *The Effects of Dihydrotestosterone and Flutamide on Lung Epithelial Cells in Response to Allergens.* ABRCMS. Pittsburgh, PA, Nov 13-16, 2024
19. Nguyen A, **Silveyra P.** *Investigating the Effects of Estradiol on BEAS-2B Cells and Pro-inflammatory Cytokine Gene Expression.* ABRCMS. Pittsburgh, PA, Nov 13-16, 2024
20. Gunasekara S, Rousselle D, **Silveyra P.** *Investigating Androgen-mediated Mechanisms Triggered by House Dust Mites Using BEAS-2B Cells.* ABRCMS. Pittsburgh, PA, Nov 13-16, 2024
21. González-Rivera D, Rousselle D, **Silveyra P.** *The effects dynamic concentrations of Estradiol have on lung epithelial cells in the presence of distinct gene expressors.* ABRCMS. Pittsburgh, PA, Nov 13-16, 2024
22. Brown A, Borges-Sosa O, Babayev M, Commodore S, Silveyra P. *Investigating the Effect of Urethane Treatment on Liver miRNA Expression in Male and Female Mice.* ABRCMS. Pittsburgh, PA, Nov 13-16, 2024
23. Vázquez M, Peregrina E, **Silveyra P.** *Investigating Estradiol Mediated Transcriptional Mechanisms and Novel Sex-Specific Biomarkers in Asthma Pathophysiology.* Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) National Diversity in STEM (NDiSTEM) meeting. Phoenix, AZ, Oct 31-Nov 2 2024.

24. Baldeh D, **Silveyra P.** *Exposing Asthmatic Lung Epithelium from Male and Female Patients to Allergen.* SACNAS NDiSTEM meeting. Phoenix, AZ, Oct 31-Nov 2 2024.
25. Gunasekara S, Rousselle D, **Silveyra P.** *Investigating Androgen-mediated Mechanisms Triggered by House Dust Mites Using BEAS-2B Cells.* SACNAS NDiSTEM meeting. Phoenix, AZ, Oct 31-Nov 2 2024.
26. González-Rivera D, Rousselle D, **Silveyra P.** *The effects dynamic concentrations of Estradiol have on lung epithelial cells in the presence of distinct gene expressors.* SACNAS NDiSTEM meeting. Phoenix, AZ, Oct 31-Nov 2 2024.
27. Aguree S, Owora A, **Silveyra P.** *Hemoglobin concentration is elevated in adult asthma patients in the United States.* Nutrition 2024. Chicago, IL, June 29-July 2, 2024. Current Developments in Nutrition 8 Suppl 2 (2024) 102419
28. Sharma K, Igwe C, **Silveyra P.**, Commodore S. *One person's nicotine addiction may affect another person's liver.* NIDA Genetics and Epigenetics Cross-Cutting Research Team meeting, Bethesda, MD. May 23-24 2024.
29. Igwe C, Sharma K, **Silveyra P.**, Commodore S. *Is Gm22068 a novel epitranscriptomic marker for thirdhand vaping exposure?* NIDA Genetics and Epigenetics Cross-Cutting Research Team meeting, Bethesda, MD. May 23-24 2024.
30. Ekpruke CD, Alford RR, Parker E, **Silveyra P.** *Sex hormones and chromosomal complements influence on gut microbiome in allergic airway inflammation.* 2024 ATS meeting. May 17-22, 2024. https://doi.org/10.1164/ajrccm-conference.2024.209.1_MeetingAbstracts.A3286
31. Bhatti F, **Silveyra P.** *The Association of Surfactant Protein A and D Allelic Variants with Retinopathy of Prematurity: Update and Completion of Preliminary Analysis.* Pediatric Academic Society Annual Meeting. Toronto, ON. Canada. May 2-6, 2024
32. Ekpruke CD, Rousselle D, Babayev M, Sharma S, **Silveyra P.** *Characterization of the role of estrogen receptors in exacerbating airway hyperresponsiveness.* American Physiological Society (APS) Physiology Summit. Long Beach, CA, April 4-7, 2024. <https://doi.org/10.1152/physiol.2024.39.S1.854>
33. Chirumamilla P, Rouselle D, Sharma S, Commodore S, **Silveyra P.** *Evaluation of Sex Differences in DNA Methylation and Lung Tissue Gene Expression in a Mouse Model of E-cigarette Exposure.* APS Physiology Summit. Long Beach, CA, April 4-7, 2024. <https://doi.org/10.1152/physiol.2024.39.S1.350>
34. Colón Montañez K, Brass K, Rousselle D, Aston C, **Silveyra P.**, Bhatti F. *Identifying associations of human surfactant protein A SNPs and allelic variants with retinopathy of prematurity.* APS Physiology Summit. Long Beach, CA, April 4-7, 2024. <https://doi.org/10.1152/physiol.2024.39.S1.366>
35. Rousselle D., **Silveyra P.** *Sex Differences in Immune Related Gene Expression in Response to Ozone Exposure in Lung Epithelial Cells.* SOT meeting. Salt Lake City, UT, March 10-14, 2024
36. Colón Montañez K, Fuentes N, **Silveyra P.** *Exposure to acute ambient ozone triggers differential lung inflammation in lung tissue from asthmatic male and female mice.* SOT meeting. Salt Lake City, UT, March 10-14, 2024
37. Redmond E, Rousselle D, **Silveyra P.** *Investigating the Effects of Vaping on Human Epithelial Lung Cells By Using BEAS-2B Cells.* SOT meeting. Salt Lake City, UT, March 10-14, 2024
38. Siddiqui A, **Silveyra P.** *Investigating the Effects of Vaping on Human Bronchial Epithelial Cells.* SOT meeting. Salt Lake City, UT, March 10-14, 2024
39. Sharma K, Igwe C, **Silveyra P.**, Commodore S. *One person's nicotine addiction may affect another person's liver.* Allied Genetics Conference, Washington DC. March 6-10 2024.
40. Redmond E, Rousselle D, **Silveyra P.** *Investigating the Effects of Vaping on Human Epithelial Lung Cells By Using BEAS-2B Cells.* ABRCMS meeting. Phoenix, AZ, Nov 15-18, 2023
41. Ekpruke CD, Alford RR, Rousselle D, Babayev M, Sharma S, Commodore S, Buechlein A, Rusch D, **Silveyra P.** *Characterization of Allergic Airway Inflammation Gene Expression Profiles in the*

- Four Core Genotype Mouse Model*. Indiana University Office of International Affairs J-1 scholar symposium. Bloomington, IN, Nov 8, 2023.
42. Redmond E, Rousselle D, **Silveyra P**. *Investigating the Effects of Vaping on Human Epithelial Lung Cells By Using BEAS-2B Cells*. Indiana University Summer Research Symposium. Bloomington, IN, July 27, 2023.
 43. Harris A, Rousselle D, **Silveyra P**. *Characterization of Gene Expression Changes as a Result of E-cig Aerosol Exposure on A549 Cells*. Indiana University Summer Research Symposium. Bloomington, IN, July 27, 2023.
 44. Crenshaw J, Commodore S, Rousselle D, **Silveyra P**. *Exploring the Impact of Vaping on Bronchial Epithelial Cytokine Expression: Insights from a One-Hour Exposure Study*. Indiana University Summer Research Symposium. Bloomington, IN, July 27, 2023.
 45. Sharma S, Rousselle D, Ekpruke CD, Alford RR, Babayev M, **Silveyra P**. *Sex Influences on Nuclear Receptor Expression in Electronic Cigarette Induced Lung Inflammation*. 2023 ATS meeting, Washington, DC, May 19-24, 2023. https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A3604
 46. Ekpruke CD, Alford RR, Commodore S, Sharma S, Rousselle D, Babayev M, **Silveyra P**. *The phenotypic effect of sex chromosomes versus sex hormones in a mouse model of allergic asthma*. 2023 ATS meeting, Washington, DC, May 19-24, 2023. https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A2811
 47. Emery LK, Oji-Mmuo CN, **Silveyra P**, Donnelly A, Siddaiah R, Hughes A. *MiRNA Expression associated with hemodynamically significant intracardiac shunt in low birth weight infants with bronchopulmonary dysplasia and pulmonary hypertension (BPD-PH)*. Pediatric Academic Societies Meeting, Washington DC, April 27- May 1, 2023
 48. Brass K, Rousselle D, Colón Montañez K, **Silveyra P**, Chen W, Eckert J, Bhatti F. *The Association of Surfactant Protein A And D Allelic Variants with Retinopathy of Prematurity*. PAS meeting, Washington DC, April 27- May 1, 2023
 49. Brass K, Rousselle D, Colón Montañez K, **Silveyra P**, Chen W, Eckert J, Bhatti F. *The Association of Surfactant Protein A And D Allelic Variants with Retinopathy of Prematurity*. Association for Research in Vision and Ophthalmology (ARVO) meeting, New Orleans, LA, April 23-27, 2023
 50. Ekpruke CD, Alford RR, Sharma S, Rousselle D, Babayev M, Commodore S, **Silveyra P**. *Characterization of allergic inflammation and gene expression profiles in the Four Core Genotype mouse model*. APS Physiology Summit, Long Beach, CA, April 20-23, 2023. <https://doi.org/10.1152/physiol.2023.38.S1.5729349>
 51. Chirumamilla P, Sharma S, **Silveyra P**. *Evaluation of sex differences in DNA methylation and lung tissue gene expression in a mouse model of e-cigarette exposure*. Hutton Honors Research Symposium. Bloomington, IN, April 15, 2023
 52. Sharma S, Rousselle D, Ekpruke CD, Alford RR, Babayev M, **Silveyra P**. *Differential Expression of Nuclear Receptors and Determination of Potential of phthalates in electronic nicotine delivery systems (ENDS)*. SOT 62nd Annual Meeting, Nashville, TN, March 19-23, 2023. The Toxicologist: Late-Breaking Supplement 2023
 53. Rousselle D, **Silveyra P**. *Sex differences in acute ozone exposure's effects on viability and inflammatory gene expression in primary human bronchial epithelial cells*. SOT 62nd Annual Meeting, Nashville, TN, March 19-23, 2023.
 54. Alford RR, Ekpruke CD, **Silveyra P**. *Sex differences in the gut microbiome in a mouse model of allergic asthma*. Society of Toxicology's 62nd Annual Meeting, Nashville, TN, March 19-23, 2023.
 55. Commodore S, Ekpruke CD, Rousselle D, Alford RR, Babayev M, Sharma S, **Silveyra P**. *Sex The role of sex chromosome complement and gonadal hormone in lung microRNA expression in a mouse model of allergic inflammation*. SOT 62nd Annual Meeting, Nashville, TN, March 19-23, 2023.

56. Ekpruke CD, Adewole J, Osamwonyi K, Otabor M, **Silveyra P**. *Attenuation of tissue damages caused by mosquito repellent with the administration of vitamin C and daily exercise in male Wistar rats*. SOT 62nd Annual Meeting, Nashville, TN, March 19-23, 2023.
57. Colon Montañez KN, Fuentes N, **Silveyra P**. *Sex differences in ozone air pollution effects on lung inflammation and microbiome profiles in asthmatic mice*. SACNAS meeting, San Juan, PR, October 27-29, 2022
58. Fuentes N, Commodore S, Weaver A, Steckbeck R, Rivera L, Nicoleau M, **Silveyra P**. *Sexually Dimorphic Expression of Lung miRNAs in an Asthma Mouse Model*. Thomas L. Petty Aspen Lung Conference 64th Annual Meeting “Bridging the Gap Between Innate and Adaptive Immunity in the Lung”, Aspen CO, June 8-11, 2022 (oral presentation)
59. Alford RR, **Silveyra P**. *Sex differences in lung inflammation in a mouse model of allergic asthma: potential role of the microbiome*. Organization for the Study of Sex Differences Annual Meeting, May 1-5, 2022
60. Babayev M, **Silveyra P**, Klaunig J, Gletsu Miller NA. *Assessment of Ferrous Sulfate Contribution to Oxidative Stress in Post-bariatric Surgery Patients with Iron Deficiency*. 2022 Experimental Biology meeting. Philadelphia, PA. April 2-5, 2022
61. Colon Montañez KN, Fuentes N, Montes D, **Silveyra P**. *Sex differences in lung inflammation and microbiome profiles in asthmatic mice exposed to ambient ozone*. 2022 Experimental Biology meeting. Philadelphia, PA. April 2-5, 2022
62. Babayev M, Melo L, **Silveyra P**, Hagar A, Klaunig JE. *Endurance training modifies liver miRNA expression profiles in NAFLD mice*. Society of Toxicology's 61st Annual Meeting, San Diego, CA, March 27-31, 2022. The Toxicologist, p383, PS4416
63. Alford RR, **Silveyra P**. *Sex differences in the lung microbiome in a mouse model of allergic asthma*. Society of Toxicology's 61st Annual Meeting, San Diego, CA, March 27-31, 2022. The Toxicologist: Late-Breaking Supplement 2022, p.3
64. Colon Montañez KN, Fuentes N, **Silveyra P**. *Exposure to ambient ozone exerts differential lung inflammatory and immune responses in asthmatic male and female mice*. Society of Toxicology's 61st Annual Meeting, San Diego, CA, March 27-31, 2022. The Toxicologist, p182, PS3490
65. Rousselle D, **Silveyra P**. *Acute ozone exposure affects circulating estradiol levels and folliculogenesis in female mice*. Society of Toxicology's 61st Annual Meeting, San Diego, CA, March 27-31, 2022. The Toxicologist, p183, PS3493
66. Colon Montañez KN, Fuentes N, **Silveyra P**. *Exposure to ambient ozone exerts differential lung inflammatory and immune responses in male and female mice*. SACNAS meeting, October 25-29, 2021 (Virtual conference)
67. Colon Montañez KN, **Silveyra P**. *Sex differences in lung inflammation in asthmatic mice exposed to ambient ozone*. APS New Trends in Sex and Gender Medicine meeting, October 19-22, 2021 (Virtual conference) *Diversity scholarship awardee*
68. Mondal P, **Silveyra P**, Bujold K, Kitch D, Yirinec A, Siddaiah R. *Inflammatory Cytokine Profile in Exhaled Breath Condensate in Children with Sick Cell Disease versus Asthma*. American Thoracic Society Meeting, May 14-19, 2021 (Virtual conference) https://doi.org/10.1164/ajrccm-conference.2021.203.1_MeetingAbstracts.A3299
69. Vander Wal R, **Silveyra P**, Muscat J. *Toxicity Associated with Surface Chemistry of Combustion Produced PM_{2.5} by in Vitro Assays*. American Association for Aerosol Research, October 18-22, 2021 (Virtual conference)
70. Al Housseiny H, **Silveyra P**. *Inflammatory Gene Expression and Oxidative Stress in Human Lung Epithelial Cells Exposed to Combustion-Produced PM_{2.5}*. SACNAS National Diversity in STEM Conference. October 91-24, 2020 (Virtual conference)
71. Montes D, Bermudez J, Fuentes N, Rivera L, Nicoleau M, **Silveyra P**. *Sex differences in ozone-induced lung inflammation and injury in an allergic asthma mouse model*. SACNAS National Diversity in STEM Conference. October 19-24, 2020 (Virtual conference)

72. Li Y, Grandison T, **Silveyra P**, Douraghy A, Guan X, Kieselbach T, Li C, Zhang H. *Jennifer for COVID-19: An NLP-Powered Chatbot Built for the People and by the People to Combat Misinformation*. ACL Workshop NLP-COVID, July 9-10, 2020 (Virtual conference)
73. **Silveyra P**. *SACNAS - Achieving true diversity in STEM*. Southeastern Regional Meeting of the American Chemical Society (SERMACS). Savannah, GA October 20-23, 2019.
74. Ahmed I, Umstead T, DiAngelo S, Imamura Y, **Silveyra P**, Chroneos Z. *All trans-retinoic acid modifies the response of A549 alveolar epithelial cells to hyperoxia*. ATS meeting. Dallas, TX. May 17-22, 2019. Am J Respir Crit Care Med 2019;199:A7421
75. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *17 β -Estradiol affects lung function and inflammation following ozone exposure in a sex-dependent manner*. Organization for the Study of Sex Differences (OSSD) and International Society of Gender Medicine (IGM) joint meeting. Washington, DC, May 5-8, 2019.
76. Ahmed I, Umstead T, DiAngelo S, Imamura Y, **Silveyra P**, Chroneos Z. *All trans-retinoic acid modifies the response of A549 alveolar epithelial cells to hyperoxia*. Pediatric Academic Societies (PAS) Meeting. Baltimore, MD, April 24-May 1, 2019.
77. **Silveyra P**, Chiota L. *Understanding the effects of exercise with a lung physiologist (PhUn week activity)*. Experimental Biology meeting. Orlando, FL. April 6-10, 2019
78. Fuentes N, Pesantez J, Nicoleau M, Vander Wal R, Chroneos Z, **Silveyra P**. *Role of estrogen on alveolar macrophage polarization in response to particulate matter exposure*. Experimental Biology meeting. Orlando, FL. April 6-10, 2019 *FASEB J* 2019 33:1_supplement, 735.2
79. Steckbeck R, Fuentes N, Weaver A, Rivera L, Nicoleau M, **Silveyra P**. *Evaluating sex differences in miRNA 106a expression in a mouse model of lung inflammation and asthma*. Experimental Biology meeting. Orlando, FL. April 6-10, 2019 *FASEB J* 2019 33:1_supplement, 735.4
80. Weaver A, Fuentes N, Steckbeck R, Rivera L, Nicoleau M, **Silveyra P**. *Sex differences in lung miRNA-712 expression and inflammatory cytokines in a mouse model of asthma and air pollution exposure*. Experimental Biology meeting. Orlando, FL. April 6-10, 2019 *FASEB J* 2019 33:1_supplement, 735.5
81. Ahmed I, Umstead T, DiAngelo S, Imamura Y, **Silveyra P**, Chroneos Z. *All trans-retinoic acid modifies the response of A549 alveolar epithelial cells to hyperoxia*. Eastern Society of Pediatric Research (ESPR) Annual Meeting. Philadelphia, PA. March 22-24, 2019.
82. Ahmed I, Umstead T, DiAngelo S, Imamura Y, **Silveyra P**, Chroneos Z. *All trans-retinoic acid modifies the response of A549 alveolar epithelial cells to hyperoxia*. Penn State College of Medicine Pediatric Research Day. Hershey, PA. March 13, 2019
83. Fuentes N, Rivera L, Nicoleau M, DiAngelo S, **Silveyra P**. *Estrogen Regulation of Ozone-induced Lung Inflammation*. Society of Toxicology, 58th Annual meeting. Baltimore, MD. March 10-14, 2019
84. Vander Wal R, **Silveyra P**, Singh M. *Surface Chemistry Toxicity Parameters Associated with Combustion Produced PM_{2.5} by in Vitro Assays*. American Institute of Chemical Engineers (AIChE) Annual Meeting. Pittsburgh, PA. October 30, 2018 (selected for oral presentation)
85. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *Sex-Specific Effects of Ozone Exposure on Pulmonary Function and Lung Inflammation*. International Experimental Biology and Medicine Conference, Environmental Medicine. Chengdu, China. October 19-21, 2018 (selected for oral presentation)
86. Pesantez J, Fuentes N, Vander Wal R, **Silveyra P**. *Role of Estrogen in Air Pollution Induced Alveolar Macrophage Polarization*. SACNAS National Diversity in STEM Conference. San Antonio, TX. October 11-13, 2018.
87. Steckbeck R, Fuentes N, Weaver A, Rivera L, Nicoleau M, **Silveyra P**. *Evaluating sex differences in miRNA 106a expression during lung inflammation and asthma in mice*. SACNAS National Diversity in STEM Conference. San Antonio, TX. October 11-13, 2018.
88. Weaver A, Fuentes N, Steckbeck R, Rivera L, Nicoleau M, **Silveyra P**. *Differential expression of lung miRNA-712 and inflammatory cytokines in female and male asthmatic mice exposed to air*

- pollution*. SACNAS National Diversity in STEM Conference. San Antonio, TX. October 11-13, 2018.
89. Vander Wal R, Muscat J, **Silveyra P**. *Identification of Toxicity Parameters Associated with Combustion Produced PM_{2.5} Surface Chemistry and Particle Structure by in Vitro Assays*. AAAR 10th International Aerosol Conference (IAC), September 2-7, 2018. St. Louis, MO
 90. Rivera L, Weber D, Brosche T, Bruceta M, DeSouza L, Lopez H, Crespo A, **Silveyra P**, Rodgers D. *Development of a Program to Prepare Foreign Trained Immigrant Latino Physicians for The U.S. Medical Licensure Exams and Address Healthcare Needs*. 2018 Latina Researchers Conference. John Jay College of Criminal Justice, New York, NY. August 23-25, 2018.
 91. Valdes-Sanchez C, Vargas-Pelaez AF, Ramirez SI, Pichardo-Lowden A, Romeu J, Carmichael C, Piedra-Abusharar S, Bascoy S, Baron R, Albarracin N, Jones C, **Silveyra P**. *Implementing a Medical Interpreter Training Program as a Strategy to Developing Humanism*. American Medical Association Accelerating Medical Education Student & Resident-Led Conference. Hershey, PA August 3-4, 2018.
 92. Pesantez J, Fuentes N, Nicoleau M, Vander Wal R, **Silveyra P**. *Role of Estrogen in Particulate Matter Pollution Induced Alveolar Macrophage Polarization*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. August 2, 2018.
 93. Weaver A, Fuentes N, Steckbeck R, Rivera L, Nicoleau M, **Silveyra P**. *Sex differences in lung miRNA-712 expression and inflammatory cytokines in a mouse model of asthma and air pollution exposure*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. August 2, 2018.
 94. Steckbeck R, Fuentes N, Weaver A, Rivera L, Nicoleau M, **Silveyra P**. *Evaluating sex differences in miRNA 106a expression in a mouse model of asthmatic inflammation*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. August 2, 2018.
 95. Rivera L, Weber D, Brosche T, Bruceta M, DeSouza L, **Silveyra P**, Rodgers D. *Foreign Trained Immigrant Latino Doctors in an Immersive Program to Prepare for the U.S. Medical Licensure Exams and Address Healthcare Needs*. Pennsylvania's Healthcare Mosaic Conference. Drexel University, Philadelphia, PA. June 26, 2018.
 96. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *Assessing Sex-Specific Effects of Ozone Exposure on Pulmonary Function and Lung Mechanics*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 47
 97. Pesantez J, Fuentes N, Nicoleau M, **Silveyra P**. *Role of Estrogen in Alveolar Macrophage Polarization*. Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 115
 98. Nicoleau M, Undar A, **Silveyra P**. *Transcriptomic Analysis of Early Inflammatory Response in Pediatric Cardiac Surgery Patients*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 102
 99. Emile S, Nicoleau M, Vander Wal R, Singh M, Muscat J, **Silveyra P**. *Cell viability and inflammatory gene expression in human lung epithelial cells exposed to combustion-produced particulate matter (PM_{2.5})*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 40
 100. Fesen K, **Silveyra P**, Nicoleau M, Kitch D, Graff G, Siddaiah R. *Differential microRNA expression in cystic fibrosis airway milieu*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 42
 101. Beaudoin S, Umstead TM, **Silveyra P**, Oji-Mmuo C, Halstead ES. *Use of a Novel Protein Multiplex Assay to Analyze Cytokine Concentrations in Tracheal Aspirates from BPD Patients*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 14
 102. Valdes-Sanchez C, Vargas-Pelaez AF, Ramirez SI, Pichardo-Lowden A, Romeu J, Carmichael C, Piedra-Abusharar S, Bascoy S, Baron R, Albarracin N, Jones C, **Silveyra P**. *Implementing a Medical Interpreter Training Program as a Strategy to Developing Humanism*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 137

103. **Silveyra P**, Cabello N, Fuentes N, Mishra V, Nicoleau M, DiAngelo S. *Modulation of the lung inflammatory response to ozone by the estrous cycle*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 129
104. Carney M, Tarasiuk A, DiAngelo S, **Silveyra P**, Bich L, Paul I, Hicks S. *The association of maternal breast milk microRNA profiles and infant weight trajectory*. Penn State College of Medicine Pediatric Research Day, May 24, 2018. Hershey, PA. Abstract book, p. 24
105. Siddaiah R, Fuentes N, DiAngelo S, Oji-Mmuo C, Aluquin V, **Silveyra P**. *Association of MUC-5B in development of pulmonary hypertension in BPD*. ATS meeting, San Diego, CA. May 18-23, 2018. Am J Respir Crit Care Med 2018;197:A7780
106. Fuentes N, Roy A, Cabello N, **Silveyra P**. *Sex-Specific MicroRNA Expression in Ozone-Induced Lung Inflammation*. 2018 ATS meeting, San Diego, CA. May 18-23, 2018. Am J Respir Crit Care Med 2018;197:A7557
107. Silveyra G, **Silveyra P**, Vatnick I, Medesani D, Rodriguez E. *Vitellogenin expression, ovarian growth and hormone levels are affected by atrazine in the crayfish Procambarus clarkii*. Society of Environmental Toxicology and Chemistry (SETAC) 28th Annual Meeting, May 13-17, 2018. Rome, Italy.
108. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *Circulating Sex Hormones as Critical Regulators of the Lung Immune Response to Ozone*. 2018 OSSD meeting. Atlanta, GA. April 30-May 3, 2018 (selected for oral presentation)
109. Vander Wal R, Muscat J, **Silveyra P**. *Surface Chemistry Toxicity Parameters Associated with Combustion Produced PM_{2.5} by in Vitro Assays*. AIChE Annual Meeting Topical Conference: Environmental Aspects, Applications, and Implications of Nanomaterials and Nanotechnology. April 22-26, 2018. Orlando, FL
110. **Silveyra P**, Chiota L, Nicoleau M, Fuentes N. *Understanding Lung Physiology: Before and After Exercise* (PhUn week activity). Experimental Biology meeting, San Diego, CA. April 21-25, 2018.
111. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *Assessing Sex-Specific Effects of Ozone Exposure on Pulmonary Function and Lung Mechanics*. Experimental Biology meeting, San Diego, CA. April 21-25, 2018. FASEB J 2018 32:1 supplement, 626.3
112. Beaudoin S, Umstead TM, **Silveyra P**, Oji-Mmuo C, Halstead ES. *Use of a Novel Protein Multiplex Assay to Analyze Cytokine Concentrations in Tracheal Aspirates from BPD Patients*. 2018 ESPR meeting, Philadelphia, PA. March 16-18, 2018.
113. Godwin A, Fuentes N, Pesantez J, **Silveyra P**. *Role of Progesterone in Alveolar Macrophage Polarization*. 2018 Capital Area Science and Engineering Fair, Harrisburg, PA. March 5, 2018.
114. Fesen K, **Silveyra P**, Nicoleau M, Kitch D, Graff G, Siddaiah R. *Differential MicroRNA expression in Cystic Fibrosis airway milieu*. North American Cystic Fibrosis Conference, Indianapolis, IN November 2-4, 2017.
115. Nicoleau M, **Silveyra P**, Undar A. *Transcriptomic Analysis of Early Inflammatory Response in Pediatric Cardiac Surgery Patients*. 2017 ABRCMS National Conference. Phoenix, AZ. November 1-4, 2017.
116. Emile S, Vander Wal R, Muscat J, **Silveyra P**. *Characterization of inflammatory gene expression in lung epithelial cells exposed to combustion produced particulate matter (PM_{2.5}) nanoparticles*. 2017 SACNAS meeting. Salt Lake City, UT. October 19-22, 2017.
117. Pesantez J, Fuentes N, Nicoleau M, **Silveyra P**. *Role of Sex Hormones in Alveolar Macrophage Polarization*. 2017 SACNAS meeting. Salt Lake City, UT. October 19-22, 2017.
118. Fuentes N, Nicoleau M, Cabello N, **Silveyra P**. *Estrogen Regulation of Inflammatory Mediators and Pulmonary Function in Ozone-Induced Inflammation*. 2017 SACNAS meeting. Salt Lake City, UT. October 19-22, 2017 (selected for oral presentation). *Best presentation award*.
119. Tran T, Silveyra G, Medesani D, Rodriguez E, **Silveyra P**, Vatnick I. *The effects of atrazine exposure on oxidative stress in Louisiana crayfish (Procambarus clarkii)*. 2017 Widener University Research Festival. Philadelphia, PA. October 5th, 2017.

120. **Silveyra P**, Cabello N, Mishra V, Fuentes N, Zomorodi N, Nicoleau M, DiAngelo S. *Modulation of the lung inflammatory response to ozone by the estrous cycle*. 2017 Gordon Research Conference on Lung Development Injury and Repair; Lung Health and Disease Across Age, Environment and Species. Colby Sawyer College, New London, NH, August 20-25, 2017.
121. Fuentes N, Nicoleau M, Cabello N, **Silveyra P**. *Estrogen Regulation of Inflammatory Mediators and Pulmonary Function in Ozone-Induced Inflammation*. 2017 Gordon Research Seminar on Lung Development Injury and Repair; Resolving Lung Injury - From Causes to Mechanisms to Treatments. Colby Sawyer College, New London, NH, August 19-20, 2017 (selected for oral presentation).
122. Chroneos M, DiAngelo S, **Silveyra P**, Carney M, Hicks S. *Transcriptional Activity of the Breastmilk Microbiome across Lactation: Implications for Infant Health*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. August 3rd, 2017.
123. Pesantez J, Fuentes N, Nicoleau M, **Silveyra P**. *Investigating Sex Differences in Alveolar Macrophage Polarization*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. August 3rd, 2017.
124. Oji-Mmuo C, Siddaiah R, Pham M, DiAngelo S, Spear D, Donnelly A, Thomas NJ, **Silveyra P**. *Development of a qPCR diagnostic microRNA panel for neonatal inflammatory lung disease*. 3rd qPCR and digital PCR congress. Philadelphia, PA. July 24-25, 2017.
125. **Silveyra P**, Oji-Mmuo C, Siddaiah R. *MicroRNA and protein expression in the pathogenesis of pulmonary hypertension of the newborn*. American Thoracic Society 2017 meeting. Washington, DC. May 19-24. Am J Respir Crit Care Med 2017;195:A2180
126. **Silveyra P**, Fuentes N, Mishra V, Nicoleau M, Cabello N, DiAngelo S. *Sex differences and role of the estrous cycle in the lung inflammatory response to acute ozone exposure*. 2017 Organization for the Study of Sex Differences (OSSD) meeting. Montreal, Canada, May 15-18.
127. Sinha U, Chroneos Z, **Silveyra P**. *ATF3 Regulation of IL-6 in Response to Acute Ozone Exposure*. 9th Annual Ontario-Quebec Undergraduate Immunology Conference (OQUIC). University of Toronto, St. George Campus. Toronto, ON. May 6-9, 2017
128. Oji-Mmuo C, Siddaiah R, Pham M, DiAngelo S, Spear D, Donnelly A, Thomas NJ, **Silveyra P**. *MicroRNA Expression in the Pathogenesis of Bronchopulmonary Dysplasia*. 2017 PAS Annual Meeting. San Francisco, CA. May 6-9. Trainee travel award winner.
129. Pichardo-Lowden A, Lenker B, Ernst M, Valdes Sanchez C, De Souza L, Ortega N, **Silveyra P**, Ramirez S. *Diabetes Educators and In-Person Culturally Competent Medical Interpreters Collaborative: A Diabetes Education Group for Hispanic Patients with Limited English Proficiency*. 15th workshop of the NIH Network of Minority Health Research Investigators. Bethesda, MD, April 26-28, 2017.
130. **Silveyra P**, Chiota L, Spinelli A, Nicoleau M, Nagarajan P. *PhUn Week Histology Blinded Study: Ozone or No Ozone?* Experimental Biology 2017. Chicago, IL. April 22-26.
131. Fuentes N, Cabello N, Nicoleau M, **Silveyra P**. *Sex differences and role of sex hormones in the expression of inflammatory mediators and lung function in response to ozone*. Experimental Biology 2017. Chicago, IL. April 22-26. FASEB J April 2017 31:726.1
132. Spinelli A, Fuentes-Ortiz N, Nicoleau M, Sinha U, Caruso C, DiAngelo S, Chroneos Z, **Silveyra P**. *Sex dependent role of activating transcription factor 3 (ATF3) expression in modulating the asthmatic phenotype in an acute mouse model of airway neutrophilia*. Experimental Biology 2017. Chicago, IL. April 22-26. FASEB J April 2017 31:656.9
133. **Silveyra P**, Cabello N, DiAngelo S. *Modulation of the lung inflammatory response to ozone by the estrous cycle*. Experimental Biology 2017. Chicago, IL. April 22-26. FASEB J April 2017 31:726.2
134. **Silveyra P**, Siddaiah R, Oji-Mmuo C. *Omics profiling of tracheal aspirates reveal novel biomarkers of pulmonary hypertension of the newborn*. 2017 AAP/ASCI/APSA Annual Meeting. Chicago, IL. April 21-23. Abstract #198.
135. **Silveyra P**, Baron R, Vargas-Pelaez A, Carmichael C, Romeu J, Piedra Abusharar S, Bascoy S, Valdez Sanchez C, Jones C. *Implementing a Medical Student Interpreter Training as a Strategy to*

- Establish Sustainable Language Access Programs*. EdVenture 2017. Penn State College of Medicine, Hershey, PA. April 4.
136. Lenker B, Ernst M, Valdes Sanchez C, Piedra Abusharar S, Bascoy S, **Silveyra P**, Pichardo-Lowden A. *A Learner-Centered Diabetes Education Curriculum for Patients with Limited English Proficiency: Aiming to Improve Outcomes among Hispanics with Diabetes*. EdVenture 2017. Penn State College of Medicine, Hershey, PA. April 4.
 137. Oji-Mmuo C, Siddaiah R, Pham M, DiAngelo S, Spear D, Donnelly A, Thomas NJ, **Silveyra P**. *MicroRNA Expression in the Pathogenesis of Bronchopulmonary Dysplasia*. ESPR Meeting 2017 (selected for oral presentation). Philadelphia, PA. March 24-26. *Travel award winner*.
 138. Yang L, Hu S, **Silveyra P**, Halstead ES, Abraham T, Fino K, DiAngelo SL, Chroneos ZC. *Disruption of the SP-A receptor SP-R210 (Myosin 18A/CD245) in alveolar macrophages enhances recovery from severe influenza infection*. Consortium for Interdisciplinary Image Informatics and Visualization Symposium. Penn State College of Medicine. Hershey, PA. November 4th 2016.
 139. **Silveyra P**, Oji-Mmuo C, Siddaiah R. *MicroRNA and protein expression in the pathogenesis of pulmonary hypertension of the newborn*. Unraveling Vascular Inflammation: From Immunology to Imaging. National Institutes of Health, Bethesda, MD. October 24-25, 2016.
 140. Fuentes N, Cabello N, **Silveyra P**. *Sex differences and role of sex hormones in the expression of the cytokine interleukin-6 and lung function*. SACNAS conference. Long Beach, CA. October 13-15, 2016. Poster# THU-G6
 141. Carney M, Tarasiuk A, DiAngelo S, **Silveyra P**, Beller J, Hicks S. *MicroRNA content of breast milk varies with gestational age*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. July 30, 2016.
 142. **Silveyra P**, Crowder R, Matters G. *Enhancing the educational experience of summer interns through a laboratory techniques bootcamp*. The 95th Annual National GWIS Conference. Raleigh, NC. June 25th, 2016.
 143. Oji-Mmuo C, Siddaiah R, Pham M, DiAngelo S, Spear D, Thomas NJ, **Silveyra P**. *Tracheal aspirate miRNA signatures as potential biomarkers for pediatric bronchopulmonary dysplasia*. Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 26, 2016. Abstract book, p.67.
 144. Fino K, Yang L, Hu S, Halstead ES, DiAngelo SL, **Silveyra P**, Chroneos ZC. *SP-R210 (Myo18A) Enhances Influenza A Virus Pathogenicity by Alveolar Macrophages and Dendritic Cells In Vivo*. Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 26, 2016. Abstract book, p.25.
 145. Fino K, Yang L, Hu S, Halstead ES, DiAngelo SL, **Silveyra P**, Chroneos ZC. *SP-R210 (Myo18A) Enhances Influenza A Virus Pathogenicity by Alveolar Macrophages and Dendritic Cells In Vivo*. Immunology 2016 meeting. Seattle, WA. May 13-17, 2016 (oral presentation). J Immunol May 1, 2016, 196 (1 Supplement) 78.4
 146. Chroneos Z, Yang L, Carrillo M, Wu Y, DiAngelo S, **Silveyra P**, Umstead T, Halstead E, Davies M, Hu S, Floros J, McCormack F, Christensen N. *SP-R210 (Myo18A) Isoforms as Intrinsic Modulators of Macrophage Priming and Activation*. American Thoracic Society Annual Meeting. San Francisco, CA. May 13-18, 2016. Am J Respir Crit Care Med 193;2016:A3158.
 147. Siddaiah R, Gowda T, **Silveyra P**. *IPA Analysis of Proteomic and miRNA Profiles in Tracheal Aspirates of Preterm Infants with Pulmonary Hypertension*. American Thoracic Society Annual Meeting. San Francisco, CA. May 13-18, 2016. Am J Respir Crit Care Med 193;2016:A3853
 148. Siddaiah R, Ekpa N, DiAngelo S, **Silveyra P**. *Protein Expression in the Pathogenesis of Bronchopulmonary Dysplasia and Pulmonary Hypertension in Preterm Infants*. ATS Annual Meeting. San Francisco, CA. May 13-18, 2016. Am J Respir Crit Care Med 193;2016:A3854
 149. **Silveyra P**, Oji-Mmuo C, Siddaiah R. *Identification of microRNA biomarkers for bronchopulmonary dysplasia in tracheal aspirates from preterm infants*. PRIDE annual meeting. Bethesda, MD. April 25-27, 2016.

150. **Silveyra P**, Vargas-Pelaez A, Carmichael C, Baron R, Jones C. *Implementing a Medical Student Interpreter Training as a Strategy to Establish Sustainable Language Access Programs*. National Hispanic Medical Association meeting. Washington, DC. April 22, 2016
151. **Silveyra P**, Crowder R, Matters G. *Enhancing the educational experience of summer interns through a laboratory techniques bootcamp*. Experimental Biology Meeting, San Diego, CA. April 2-6, 2016. *FASEB J.* 30(1):1b198
152. **Silveyra P**, Chiota L, Nagarajan P. *Making Science PhUn: Build, Design, and Connect*. Experimental Biology Meeting, San Diego, CA. April 2-6, 2016. *FASEB J.* 30(1):1b746
153. Caruso CR, Cabello N, Sinha U, Ekpa NA, DiAngelo S, Chroneos ZC, **Silveyra P**. *ATF3 as an important factor of the acute phase lung inflammatory response in an animal model*. Experimental Biology Meeting, San Diego, CA. April 2-6, 2016 (selected for oral presentation). *FASEB J.* 30(1):444.9
154. Mishra V, Cabello N, Sinha U, DiAngelo S, Chroneos ZC, Ekpa NA, Cooper TK, Caruso CR, **Silveyra P**. *Sex-specific mechanisms of ozone-induced lung inflammation*. Gordon Research Conference on Lung Development, Injury and Repair. Proctor Academy, Andover, NH. August 16-21, 2015.
155. Sinha U, Harding R, DiAngelo S, Chroneos ZC, **Silveyra P**. *The Role of the Inflammasome and ATF3 in the Lung Inflammatory Response to Acute Ozone Exposure*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. July 30, 2015.
156. Gowda T, Siddaiah R, **Silveyra P**. *Evaluation of proteomic profiles in tracheal aspirates of pulmonary hypertension preterm neonates using IPA analysis*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. July 30, 2015.
157. Ekpa NA, DiAngelo S, Siddaiah R, **Silveyra P**. *Protein Expression in the Pathogenesis of Bronchopulmonary Dysplasia and Pulmonary Hypertension in Preterm Infants*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. July 30, 2015.
158. Harding R, DiAngelo S, Sinha U, **Silveyra P**. *The Effects of Ovarian Hormones in the Acute Inflammatory Response to Ozone*. Penn State Summer Undergraduate Research Symposium, Hershey, PA. July 30, 2015.
159. Pham M, Oji-Mmuo C, DiAngelo S, Spear D, Group K, Thomas NJ, **Silveyra P**. *Identification of miRNA Biomarkers for Pediatric Bronchopulmonary Dysplasia*. The 94th Annual National GWIS Conference. State College, PA. June 20th, 2015. Poster #103
160. Sinha U, Mishra V, DiAngelo S, Chroneos ZC, **Silveyra P**. *Mechanisms of interleukin-6 regulation in response to acute ozone exposure*. The 94th Annual National GWIS Conference. State College, PA. June 20th, 2015. Poster #101
161. Siddaiah R, Graff G, Stanley B, **Silveyra P**. *Role of inflammatory biomarkers in the development of pulmonary hypertension in extremely low birth weight premature infants*. ATS Annual Meeting. Denver, CO. May 15-20, 2015. *Am J Respir Crit Care Med* 191;2015:A4748
162. Howrylak J, Pham M, Oji-Mmuo C, DiAngelo S, Spear D, Group K, Siddaiah R, Thomas NJ, **Silveyra P**. *Expression profiling of miRNAs in pediatric bronchopulmonary dysplasia*. ATS Annual Meeting. Denver, CO. May 15-20, 2015. *Am J Respir Crit Care Med* 191;2015:A3480
163. Oji-Mmuo C, Howrylak JA, Siddaiah R, Spear D, DiAngelo S, Group K, Thomas NJ, **Silveyra P**. *MicroRNA expression signatures as non-invasive biomarkers for pediatric Bronchopulmonary Dysplasia*. Pediatrics Academic Society Meeting. San Diego, CA. April 25-28, 2015. E-PAS2015:1599.738
164. Caruso CR, Cabello N, DiAngelo S, **Silveyra P**. *Exposure to ambient ozone affects circulating progesterone levels and ovulation in mice*. Eight Annual Departments of Medicine and Pathology Research Day. Hershey, PA, May 8, 2015. Abstract # 5. *Top presentation award*.
165. **Silveyra P**, Sinha U, Mishra V, DiAngelo S, Chroneos ZC. *Mechanisms of interleukin-6 regulation in response to acute ozone exposure*. Keystone Symposium on "Mechanisms of Pro-Inflammatory Diseases (Z4)". Olympic Valley, CA, April 19-24, 2015. Abstract # Z4 3014.

166. **Silveyra P**, Cabello N, Mishra V, DiAngelo S. *Sex differences in the expression of lung inflammatory mediators in response to acute ozone exposure*. 13th workshop of the NIH Network of Minority Health Research Investigators. Bethesda, MD, April 15-17, 2015.
167. Caruso CR, Cabello N, DiAngelo S, **Silveyra P**. *Exposure to ambient ozone affects progesterone levels and ovulation in mice*. Experimental Biology Meeting. Boston, MA. March 28 – April 1, 2015. Abstract #2825. *FASEB J.* 29: 612.4
168. Sinha U, Mishra V, Cabello N, DiAngelo S, Chroneos ZC, **Silveyra P**. *ATF3 Regulation of IL-6 in Response to Acute Ozone Exposure*. Experimental Biology Meeting. Boston, MA. March 28 – April 1, 2015. Abstract #1272. *FASEB J.* 29: 863.2. *David S. Bruce Outstanding Undergraduate Abstract Award*.
169. **Silveyra P**, Cabello N, Floros J. *Sex Differences in the Lung Inflammatory Response to Acute Ozone Exposure*. Experimental Biology Meeting. Boston, MA. March 28 – April 1, 2015. Abstract #1262. *FASEB J.* 29: 863.1
170. Sinha U, Mishra V, Cabello N, DiAngelo S, Chroneos ZC, **Silveyra P**. *ATF3 Regulation of IL-6 in Response to Acute Ozone Exposure*. Canadian Women in Science and Engineering Conference. University of Toronto, Toronto, ON, Canada. March 21, 2015.
171. Sinha U, Mishra V, Cabello N, DiAngelo S, Chroneos ZC, **Silveyra P**. *ATF3 Regulation of IL-6 in Response to Acute Ozone Exposure*. Canadian Undergraduate Conference on Healthcare (CUCOH) Research Competition, November 14-16, 2014. Queen's University, Kingston, ON, Canada (selected for oral presentation).
172. **Silveyra P**, Mishra V, DiAngelo S, Floros J. *Sex differences in the mouse lung inflammatory miRNA profile in response to ozone inhalation*. 11th Annual Interdisciplinary Women's Health Research Symposium of the NIH Office of Research on Women's Health. Bethesda, MD. November 6, 2014. *Journal Of Women's Health* 23 (10), 869-870
173. Pham M, Oji-Mmuo C, DiAngelo S, Spear D, Group K, Thomas NJ, **Silveyra P**. *MicroRNA expression signatures as non-invasive biomarkers for pediatric Bronchopulmonary Dysplasia*. MiRNA World Conference. Boston, MA. October 29-30, 2014.
174. Cabello N, **Silveyra P**. *Investigating the Effects of Acute Ozone Exposure in Female Reproductive Function*. SACNAS conference. Los Angeles, CA. October 16-18, 2014. Poster# SAT-342
175. Cabello N, DiAngelo S, Mishra V, Caruso CR, **Silveyra P**. *Effects of Acute Ozone Exposure in Female Reproductive Function*. Penn State College of Medicine Department of Biochemistry and Molecular Biology, 3rd Annual Departmental Retreat. Hershey, PA. September 19 2014. Abstract book, Poster #22.
176. Pham M, Oji-Mmuo C, DiAngelo S, Spear D, Group K, Thomas NJ, **Silveyra P**. *Identification of miRNA Biomarkers for Pediatric Bronchopulmonary Dysplasia*. Penn State Summer Undergraduate Research Symposium. University Conference Center, Hershey, PA. July 31, 2014.
177. Cabello N, DiAngelo S, Mishra V, Caruso CR, **Silveyra P**. *Investigating the Effects of Acute Ozone Exposure in Female Reproductive Function*. Penn State Summer Undergraduate Research Symposium. University Conference Center, Hershey, PA. July 31, 2014.
178. Sinha U, Mishra V, Cabello N, DiAngelo S, Chroneos ZC, **Silveyra P**. *ATF3 Regulation of IL-6 in Response to Acute Ozone Exposure*. Penn State Summer Undergraduate Research Symposium. University Conference Center, Hershey, PA. July 31, 2014.
179. Mishra V, DiAngelo S, Floros J, **Silveyra P**. *Sex differences in the lung inflammatory microRNA profile in a mouse model of ozone-induced oxidative stress*. Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 22, 2014. Abstract book, p60.
180. **Silveyra P**, Oji-Mmuo C, DiAngelo S, Howrylak J, Ishmael F, Thomas NJ. *Identification of microRNA Biomarkers for Pediatric Bronchopulmonary Dysplasia*. Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 22, 2014. Abstract book, p.96.
181. **Silveyra P**, DiAngelo S, Floros J. *Sequence polymorphisms at the 3'UTR of human Surfactant Protein A gene variants differentially affect gene expression levels and miRNA regulation in vitro*.

- Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 22, 2014. Abstract book, p.97.
182. Tsotakos N, **Silveyra P**, Lin Z, Thomas NJ, Vaid M, Floros J. *Regulation of translation by upstream translation initiation codons of surfactant protein A1 (SP-A1) splice variants*. Penn State College of Medicine Pediatric Research Day. Hershey, PA, May 22, 2014. Abstract book p.104.
 183. **Silveyra P**, DiAngelo S, Floros J. *Sex differences in the lung inflammatory response to acute ozone exposure*. Inaugural Women's Health Research Day. Hershey, PA. April 8, 2014.
 184. Oji-Mmuo C, DiAngelo S, Howrylak J, Ishmael F, Thomas NJ, **Silveyra P**. *MiRNAs as biomarkers for pediatric bronchopulmonary dysplasia*. 10th Annual MicroRNA: Targets & Tools for Therapeutic Development conference. Cambridge, MA. March 17-18, 2014. Abstract book, p.10, #21.
 185. Mishra V, DiAngelo S, Floros J, **Silveyra P**. *Sex differences in the lung inflammatory microRNA profile in a mouse model of ozone-induced oxidative stress*. 12th annual Data and Dine. Penn State College of Medicine, Hershey, PA. February 25, 2014.
 186. **Silveyra P**, Cabello N, DiAngelo S, Floros J. *Differential STAT3 signaling mediates sex differences in ozone-induced lung inflammatory response*. Annual Meeting of the American Society for Cell Biology. New Orleans, LA. December 14-18, 2013. Mol. Biol. Cell. 2013 24:24 3775. Abstract 1542.
 187. **Silveyra P**, DiAngelo, Cabello N, Howrylak J, Floros J. *Sex differences in lung gene expression in response to ozone exposure: role of microRNAs*. BIRCWH (Building Interdisciplinary Research Careers in Women's Health) conference. Tenth Anniversary Interdisciplinary Women's Health Research Symposium. National Institutes of Health. Bethesda, MD. October 23-25, 2013. Journal of Women's Health Vol 22, Number 10, p.898, abstract p-64.
 188. **Silveyra P**, Cabello N, Howrylak J, DiAngelo S, Floros J. *Sex differences in the lung inflammatory response to ozone-induced oxidative stress: implications for miRNA regulation*. Gordon Research Seminar and Conference on Lung Development, Injury and Repair. Proctor Academy, Andover, NH. August 17-23, 2013.
 189. Cabello N, DiAngelo, Floros J, **Silveyra P**. *Sex Differences in the Lung Inflammatory Response to Acute Ozone Exposure*. Penn State Summer Undergraduate Research Symposium. University Conference Center, Hershey, PA. August 1, 2013.
 190. **Silveyra P**, Chroneos ZC, Thomas NJ, Howrylak J, DiAngelo S, Floros J. *Regulation of human alveolar epithelial type II cell differentiation in vitro: role of miRNAs*. 32nd Summer Symposium in Molecular Biology "Sensing and Signaling across the Mucosa: From Homeostasis to Pathogenesis". Penn State University. University Park, PA. June 4-6, 2013. Abstract book, p.85, abstract #20.
 191. **Silveyra P**, Chroneos ZC, Thomas NJ, DiAngelo S, Noutsios G, Tsotakos N, Umstead TM, Floros J. *Knock-down of Drosha in human alveolar type 2 cells: a physiologically relevant model to study miRNA regulation of SP-A expression*. 2013 ATS international meeting, May 17-23 2013 Philadelphia, PA. Am J Respir Crit Care Med 187;2013:A3433
 192. Tsotakos N, **Silveyra P**, Floros J. *Upstream start codons (uAUGs) of Surfactant Protein A1 (SP-A1) splice variants are associated with reduced translational activity*. 2013 ATS international meeting, May 17-23 2013, Philadelphia, PA. Am J Respir Crit Care Med 187;2013:A4808
 193. DiAngelo S, Floros J, **Silveyra P**. *Sequence variability at miRNA targets of the 3'UTR of pulmonary surfactant protein A (SP-A) gene variants affects reporter gene expression in vitro*. 9th Annual MicroRNA: Targets & Tools for Therapeutic Development conference. March 4-5, 2013, Cambridge, MA. Abstract book, p.13, abstract #25.
 194. **Silveyra P**, Floros J. *Air Pollution and Epigenetics: Effects on SP-A and Innate Host Defense in the Lung*. All-Russian Conference with International Participation. Saratov State Medical University, Saratov, Russia, Nov.23, 2012.
 195. Noutsios G, **Silveyra P**, Floros J. *Exon B of human surfactant protein A2 mRNA alone or within the context of the surrounding sequences binds 14-3-3 protein family, a trans-acting factor, which may*

- affect translation and account for individual susceptibilities to environmental cues.* All-Russian Conference with International Participation. Saratov State Medical University, Saratov, Russia, Nov.23, 2012.
196. **Silveyra P**, DiAngelo S, Floros J. *MicroRNAs mir-183 and mir-449b regulate the expression of human Surfactant Protein A gene variants in vitro.* FASEB Summer Research Conference “The Lung Epithelium in Health and Disease” Saxton Rivers, Vermont. July 22-27, 2012
 197. Tsotakos N, **Silveyra P**, Floros J. *Upstream start codons (uAUGs) of the SP-A1 gene are associated with reduced activity of a reporter gene.* FASEB Summer Research Conference “The Lung Epithelium in Health and Disease” Saxton Rivers, Vermont. July 22-27, 2012
 198. Noutsios G, **Silveyra P**, Floros J. *Exon B of human surfactant protein A2 mRNA alone or within the context of the surrounding sequences binds 14-3-3 protein family, a trans-acting factor, which may affect translation.* FASEB Summer Research Conference “The Lung Epithelium in Health and Disease” Saxton Rivers, Vermont. July 22-27, 2012
 199. **Silveyra P**, DiAngelo S, Floros J. *Knockdown of specific miRNA processing enzymes affects Surfactant Protein A mRNA and protein levels in vitro.* ATS international meeting, May 18-23 2012, San Francisco, CA, USA. Am J Respir Crit Care Med 185;2012:A1983
 200. Noutsios G, **Silveyra P**, Floros J. *Exon B of human Surfactant Protein A2 mRNA alone or within the context of the surrounding sequences binds trans-acting factors that may affect translation.* ATS international meeting, San Francisco, CA, USA, May 18-23, 2012. Am J Respir Crit Care Med 185;2012:A1996
 201. Grageda M, **Silveyra P**, Thomas NJ, Mu D, Floros J. *Surfactant Protein A2 (SP-A2) Gene As A Potential DNA Methylation Marker In Lung Cancer.* ATS international meeting, San Francisco, CA, USA, May 18-23, 2012. Am J Respir Crit Care Med 185;2012:A3478
 202. **Silveyra P**, DiAngelo S, Floros J. *Knockdown of specific miRNA processing enzymes affects Surfactant Protein A mRNA and protein levels in vitro.* Penn State College of Medicine Pediatric Research Day, April 5th 2012. Hershey, PA.
 203. Noutsios G, **Silveyra P**, Floros J. *Exon B of human Surfactant Protein A2 mRNA alone or within the context of the surrounding sequences binds trans-acting factors that may affect translation.* Penn State College of Medicine Pediatric Research Day, April 5th 2012. Hershey, PA.
 204. Crowder R, **Silveyra P**, Leone M, Hu J, Ouyang A. *Using Postdoc Feedback to Develop a Postdoc Professional Development Workshop Series.* The 10th Annual Meeting of the National Postdoctoral Association. March 16-18 2012. San Francisco, CA.
 205. Grageda M, **Silveyra P**, Thomas NJ, Mu D, Floros J. *Surfactant Protein A2 (SP-A2) gene as a potential DNA methylation marker in lung cancer.* 4th Annual Resident/Fellow Research Day. Penn State College of Medicine. March 9th 2012. Abstract book, p.8. Top presentation award.
 206. DiAngelo S, Floros J, **Silveyra P**. *Downregulation of miRNA biogenesis enzymes affects the in vitro expression of human Surfactant Protein A gene variants.* 8th Annual microRNA in Human Disease and Development. March 12-13, 2012, Cambridge, MA. Abstract book, p.7, #17.
 207. **Silveyra P**, DiAngelo S, Floros J. *Knockdown of specific miRNA processing enzymes affects Surfactant Protein A mRNA and protein levels in vitro.* 10th annual Data and Dine. Penn State College of Medicine, Hershey, PA; Feb 21, 2012
 208. Noutsios G, **Silveyra P**, Floros J. *Exon B of human Surfactant Protein A2 mRNA alone or within the context of the surrounding sequences binds trans-acting factors that may affect translation.* 10th annual Data and Dine. Penn State College of Medicine, Hershey, PA; Feb 21, 2012
 209. Noutsios G, **Silveyra P**, Floros J. *Exon B of human Surfactant Protein A2 mRNA alone or within the context of the surrounding sequences binds trans-acting factors that may affect translation.* Hellenic Bioscientific Assoc. Conference, Columbia University, New York, NY; Oct 15-16, 2011
 210. Bhatti F, **Silveyra P**, Floros J. *Protein binding at 5'UTR mRNA in surfactant protein A splice variants.* 23rd annual meeting of the ESPR (Philadelphia, PA, March 25-27, 2011), Abstract book, p.15, abstract 204.

211. **Silveyra P**, Wang G, Floros J. *Analysis of the 3' untranslated regions (UTR) of hSP-A1 variants: impact of sequence elements on differential expression, secondary structure and microRNA binding*. European Respiratory Society (ERS) meeting. Barcelona, Spain; Sep 19-22, 2010, Abstract book, p.780s (P4300).
212. **Silveyra P**, Wang G, Floros J. *Analysis of the 3' untranslated regions (UTR) of hSP-A1 variants: impact of sequence elements on differential expression, secondary structure and microRNA binding*. Penn State College of Medicine Pediatric Research Day, Hershey, PA; Sep 8, 2010, Abstract book, p.72.
213. **Silveyra P**, Wang G, Floros J. *Analysis of the 3' untranslated regions (UTR) of hSP-A1 variants: impact of sequence elements on differential expression, secondary structure and microRNA binding*. 9th annual Data and Dine. Penn State College of Medicine, Hershey, PA; Nov 9, 2010
214. **Silveyra P**, Raval M, Simmons B, Wang G, Floros J. *Study of gene expression control elements of the human surfactant protein A (hSP-A) genes: role of exon B of the 5' untranslated region (5'UTR)*. Penn State College of Medicine Pediatric Research Day. Hershey, PA; Sep 8, 2010. Abstract book, p.73
215. Raval M, **Silveyra P**, Simmons B, DiAngelo S, Wang G, Floros J. *Identification and analysis of regulatory regions within the human SP-A 5'UTR exon B*. Penn State College of Medicine Pediatric Research Day. Hershey, PA; Sep 8, 2010. Abstract book, p.62
216. **Silveyra P**, Wang G, Floros J. *Human SP-A1 (SPTPA1) variant-specific 3'UTRs and poly(A) tail differentially affect the in vitro translation of a reporter gene*. The second International Conference in Lung Innate Immunity and Pulmonology (i-CLIP). The Louisiana State University, New Orleans. USA. May 15, 2010. Abstract book, p.8 (S2, #3)
217. **Silveyra P**, Simmons B, Raval M, Wang G, Floros J. *Study of gene expression control elements of the human SP-A genes: role of the 5'UTR exon B*. ERS annual meeting (Barcelona, Spain; Sep 19-22, 2010), Abstract book, p.780s (P4301).
218. **Silveyra P**, Simmons B, Raval M, Wang G, Floros J. *Study of gene expression control elements of the human SP-A genes: role of the 5'UTR exon B*. i-CLIP 2010. Abstract book, p.12 (S3, #5)
219. **Silveyra P**, Raval M, Simmons B, Wang G, Floros J. *Analysis of the human SP-A 5'UTR exon B: identification of regulatory regions*. ERS annual meeting (Barcelona, Spain; Sep 19-22, 2010), Abstract book, p.780s (P4302).
220. **Silveyra P**, Wang G, Floros J. *Impact of untranslated regions (UTRs) on differential translation among SftpA1 and SftpA2 gene variants*. Experimental Biology annual meeting, Anaheim, CA; Apr 24-28, 2010. *FASEB J.* 24: 612.27
221. **Silveyra P**, Wang G, Floros J. *Role of the 5'UTR and 3'UTR variants of SftpA1 and SftpA2 genes in the regulation of translation*. 49th Annual meeting of the American Society for Cell Biology. San Diego, CA; Dec 5-9, 2009. Abstract book, p.133 (#2068)
222. **Silveyra P**, Wang G, Floros J. *Translational control of Surfactant Protein A: participation of polyA tail and 5' and 3' Untranslated Regions (UTRs)*. 8th annual Data and Dine. Penn State College of Medicine, Hershey, PA; Oct. 20, 2009
223. Wang G, Guo X, **Silveyra P**, Kimball S, Floros J. *Cap-independent translation of human SP-A 5'-UTR variants; a double-loop structure and cis element contribution*. European Respiratory Society Annual Congress. Vienna, Austria. Abstract book, p.845s (E4763), 2009
224. Floros J, Londono D, Gordon D, DiAngelo S, Wang G, **Silveyra P**, Lin Z, Singh A, Shenberger J, Thomas NJ. *Genetic variations in IL18R1 and IL18RAP associate with the development of bronchopulmonary dysplasia in African American Infants*. PAS Annual Meeting. Baltimore, MD. May 2-5, 2009
225. Olmeda B, Umstead TM, **Silveyra P**, Pascual A, López-Barneo J, Phelps D, Floros J, Pérez-Gil J. *Changes in gene expression and lung tissue and bronchoalveolar lavage proteomic profiles in a rat model of chronic hypoxia*. 18th IFCC European Congress of Clinical Chemistry & Laboratory Medicine, Congress of the Austrian Society of Laboratory Medicine and Clinical Chemistry, 2009

226. Libertun C, **Silveyra P**, Cataldi NI, Lux-Lantos VAR. *Role of orexins in the hypothalamic-pituitary-ovarian relationship*. International Symposium “10 years of Hypocretins/Orexins. Physiology and Pathophysiology” Kastelli Research Centre. University of Oulu, Finland, 2008. Acta Physiol. International Symposium, p.22.
227. **Silveyra P**, Cataldi NI, Lux-Lantos VAR, Libertun C. *Estradiol Modulates Female Hypothalamic and Pituitary Orexin Receptor 1 Expression in a Daytime Dependent Manner*. 90th Meeting of The Endocrine Society. San Francisco, CA, USA. Abstract Book, p1-732 (pp 368-369), 2008
228. **Silveyra P**, Zubeldia-Brenner L, Lux-Lantos VAR, Libertun C. *Effect of the GnRH analog Buserelin on the orexin receptor OX1 expression in adenohypophyseal and ovarian cultures*. Argentine Physiological Society Annual Meeting. Mar del Plata, Argentina. Medicina 67, (III) p.221, 2007
229. **Silveyra P**, Lux-Lantos VAR, Libertun C. *Both orexin receptors are present in rat ovaries and fluctuate with the estrous cycle; effects of an OX1 receptor antagonist*. 89th Annual Meeting of The Endocrine Society. Toronto, Canada. Abstract Book p1-318 (pp 237-238), 2007
230. **Silveyra P**, Lux-Lantos VAR, Libertun C. *Expression of the hypothalamic, pituitary and ovarian orexin receptors OX1 and OX2 during the estrous cycle. Role of GnRH and gonadotropins*. LI Meeting of the Argentine Society of Clinical Investigation (SAIC). Mar del Plata, Argentina. Medicina 66 (II), p.51, 2006
231. Libertun C, **Silveyra P**, Catalano P, Lux-Lantos VAR. *Expression of orexin receptors 1 (OX1) and 2 (OX2) in hypothalamus and adenohypophysis in cycling female and male rats*. 6th International Congress of Neuroendocrinology. Pittsburgh, PA, USA. Front. Neuroendoc. 27/1 (2006) 1-168
232. Catalano P, Bonaventura M, **Silveyra P**, Bettler B, Libertun C, Lux-Lantos, V. *Evaluation of hypothalamic-pituitary-gonadal axis in GABA_{B1} (-/-) female mice: cyclicity and reproductive function*. VII Annual Meeting of the Argentinean Society of Biology, 2005
233. **Silveyra P**, Catalano P, Lux-Lantos VAR, Libertun C. *Differential expression of the orexin receptor 1 (OX1) during the estrous cycle*. I SAIC Meeting. Mar del Plata, Argentina. Medicina 65, Supl. II, p 46, N°26, 2005
234. Catalano P, Bonaventura M, **Silveyra P**, Bettler B, Libertun C, Lux-Lantos VAR. *Endocrine Evaluation of GABA_{B1} Knock-Out Mice*. 87th Annual Meeting of The Endocrine Society. San Diego, CA, USA. Abstract Book P2-175, 2005
235. **Silveyra P**, Catalano P, Lux-Lantos VAR, Libertun C. *Circadian Variation of Orexin Receptors During Proestrous in the Rat*. XLIX SAIC Meeting. Mar del Plata, 2004. Medicina 64, Supl. II, p.243.
236. Catalano P, Bonaventura M, **Silveyra P**, Bettler B, Libertun C, Lux-Lantos VAR. *Endocrine Evaluation of GABA_{B1} KO Mice*. XLIX SAIC Meeting. Mar del Plata, Argentina. Medicina 64, Supl.II, p.167, 2004
237. Catalano P, **Silveyra P**, Bianchi M, Lux-Lantos VAR, Libertun C. *Effects of sexual differentiation on hypothalamic aminoacidic neurotransmitters*. XLVIII SAIC Meeting, Mar del Plata, Argentina. Medicina 63, (5/2) p.522 (43), 2003

INVITED PRESENTATIONS AND SEMINARS

1. **“Sex-based differences in lung cancer: roles of gonadal hormones and sex chromosomes”** Melvin and Bren Simon Comprehensive Cancer Center Grand Rounds, Indianapolis, IN, Jan 2025
2. **“Sex, gonadal hormones, and environmental health: impact on respiratory disease”** University of California San Diego, Shu Chien-Gene Lay Department of Bioengineering seminar series, San Diego, CA, Sep 2024
3. **“International collaborations in lung and cardiovascular disease research”** National Autonomous University of Mexico, Pharmacology and Embriology applied to the clinic congress. Mexico City, Mexico, Jun 2024

4. **“Sex, hormones, and environmental health: lessons learned from inhalation toxicology studies” (Keynote Speaker).** Purdue University Health Sciences Graduate Research Retreat. West Lafayette Indiana, Mar 2024.
5. **“Multiomics endotyping of preterm infants with bronchopulmonary dysplasia”** Indiana University School of Medicine Herman B Wells Center for Pediatric Research seminar series. Indianapolis, IN, Feb 2024
6. **“Sex-specific respiratory effects of environmental exposures”** **Common themes in reproductive diversity (CTRD) series,** Indiana University Bloomington, College of Arts + Sciences. Bloomington, IN, Dec 2023
7. **“Gonadal hormones and lung inflammation: lessons learned from animal models”** Brown Investigators in Respiratory Disease (“BIRDS”) lecture series. Brown University. Providence, RI. Dec 2023
8. **“Sex, gender, and health: The role of sex hormones in lung disease development”** Institute for Applied Sciences and Technology of the National Autonomous University of Mexico (ICAT-UNAM), Gender Equality seminar series. Mexico City, Mexico, May 2023
9. **“The role of estrogen and endocrine disruptors in asthma”** National Autonomous University of Mexico School of Medicine. Mexico City, Mexico, Apr 2023
10. **“Sex Differences in Environmental Influences on Lung Health”** University of Oklahoma Health Sciences Center. Oklahoma City, OK, Apr 2023
11. **“Sex and gender differences in lung health effects of environmental exposures”** Indiana University School of Medicine, Molecular Medicine in Action Program. Indianapolis, IN, Mar 2023.
12. **“Sex and Gender Influences in Lung Health Effects of Environmental Exposures”** Indiana University Bloomington, School of Public Health. Bloomington, IN, Feb 2023
13. **“Asthma in Women: Lessons Learned from Clinical and Animal Studies”** Women's Health Seminar Series. University of British Columbia, Canada Dec 2022
14. **“Gonadal hormones and lung inflammation: mechanisms underlying sex differences in asthma”** University of Pennsylvania Seminar series “At the leading edge – inspiring scientists in cell biology and physiology.”, Philadelphia, PA Oct 2022
15. **“Sex hormones and respiratory disease: lessons learned from clinical studies and animal models”** The Politics of Hormones symposium, Center for Feminist Research, University of Southern California. Los Angeles, CA, Sep 2022
16. **“Sex differences in asthma and lung inflammation”** Scientific Innovation for Personalized Severe Asthma Management. Indiana University. Indianapolis, IN. Aug 2022
17. **“Hormonal control of air pollution-induced lung inflammation”** RISE webinar series, University of Puerto Rico Medical Sciences Campus. Apr 2022
18. **“ToXXicologY: the importance of incorporating the sex variable in research studies”** Society of Toxicology Undergraduate Education Program, Committee for Diversity Initiatives. San Diego, CA, Mar 2022
19. **“Sex differences in the susceptibility to air pollution exposure”** Emory University IMSD program seminar. Atlanta, GA. Feb 2022
20. **“Sex and gender differences in the susceptibility to environmental exposures”** OSSD Connected virtual speaker series (virtual seminar) Jan 2022
21. **“Sex differences in inflammatory lung disease: roles of sex hormones”** UMass Boston Biology Department seminar series and IMSD program (virtual seminar) Dec 2021
22. **“Sex differences in ozone-induced lung inflammation”** Johns Hopkins University Asthma and Allergy Center BREATHE Center meeting (virtual seminar) Nov 2021
23. **“Sex differences in lung inflammation: roles of sex hormones”** Indiana University School of Medicine, Division of Pulmonary, Critical Care, Sleep, and Occupational Medicine. Indianapolis, IN. Nov 2021

24. **“Microvolume UV-Vis analysis in RNA assessment to research sex differences in lung disease”** Thermo Scientific online event on Modern UV-Vis applications and solutions in biopharma and biosciences research (virtual) Sep 2021
25. **“Estrogen regulation of the lung inflammatory response to ozone”** Harvard T. H. Chan School of Public Health Molecular and Integrative Physiological Sciences program (virtual) Mar 2021
26. **“Sex differences in ozone-induced acute lung inflammation”** UC Davis Health Lung Center: Carroll Cross Distinguished Professorship Series (virtual) Dec 2020
27. **“The role of female sex hormones in ozone-induced lung inflammation”** Indiana University at Bloomington, School of Public Health, Environmental and Occupational Health Department (virtual) Dec 2020
28. **“Hormonal influences of ozone-induced lung inflammation”** Graduate Women in Science International Research Series (virtual) Nov 2020
29. **“Sex Differences in Lung Disease”**, Autonomous University of Guerrero, Postgraduate School. Chilpancingo, Mexico (virtual) Oct 2020
30. **“Sex, hormones, and lung inflammation: lessons learned from animal studies”**, UNC Charlotte Department of Biological Sciences (virtual) Sep 2020
31. **“Sex, gender, and COVID-19”**. Simposio Latinoamericano de Avances de Investigación en SARS-CoV-2. Asociación Colombiana de Virología. (virtual/ in Spanish) Sep 2020
32. **“Sex differences and hormone control of the inflammatory response to inhaled ozone”**. Universidad Complutense de Madrid, Madrid, Spain (virtual) Jun 2020
33. **“Sex differences in the lung inflammatory response to air pollution: role of sex hormones”**. Indiana University Bloomington, SPH. Bloomington, IN. Mar 2020
34. **“Sex Differences in the Lung Response to Environmental Agents” (Keynote Speaker)**. Cellular and Molecular Mechanisms of Toxicity Gordon Research Seminar, “Mechanisms Governing Sexually Dimorphic Outcomes in Toxicology”. Andover, NH. Aug 2019
35. **“Sex differences in the ozone-induced lung inflammatory response”**. Temple University Seminar. Philadelphia, PA. May 2019
36. **“A multi-omics analysis of tracheal aspirates for assessment of bronchopulmonary dysplasia”**. Penn State Health Children’s Hospital Pediatrics Grand Rounds. Hershey, PA. Mar 2019
37. **“Understanding gender differences in lung disease: are sex hormones to blame?”**. University of North Carolina at Chapel Hill, School of Nursing. Chapel Hill, NC. Nov 2018
38. **“Sex-specific gene expression regulatory networks in lung inflammation and disease”**. University of North Carolina at Chapel Hill, SON. Chapel Hill, NC. Apr 2018
39. **“Sex-specific gene expression regulatory networks in ozone-induced lung inflammation”**. East Carolina University Dep. of Physiology. Greenville, NC. Jan 2018
40. **“Sex-specific gene expression regulatory networks in lung inflammation and disease”**. Children’s National Medical Center. Washington, DC. Dec 2017
41. **“Sex differences in the lung inflammatory response to air pollution”**. Widener Science Seminar. Widener University, Chester, PA. Oct 2017
42. **“MicroRNA Expression in the Pathogenesis of Bronchopulmonary Dysplasia”**. National Institute of Environmental Health Sciences. Research Triangle Park, NC. May 2017
43. **“Estrous cycle dependent variations of lung function and inflammatory gene expression”**. University of North Carolina at Chapel Hill Department of Cell Biology and Physiology. Chapel Hill, NC. Jan 2017
44. **“Sex specific regulation of ozone induced lung inflammation”**. ENVR890 air quality seminar. University of North Carolina Gillings School of School of Public Health, Chapel Hill, NC. Jan 2017
45. **“Sex-specific mechanisms of pollution induced lung inflammation”**. Research interest seminar. Universidad Central del Caribe (UCC) Biomedical/Biobehavioral Research Department. Bayamon, Puerto Rico, Oct 2016

46. **“A basic scientist, a neonatologist, and a bioinformatician walk into a bar. Finding non-invasive biomarkers for lung disease in premature babies”**. Neurostorm seminar series. Columbia University, New York, NY. Jul 2016.
47. **“Endocrine control of ozone-induced lung inflammation”**. National Institute of Environmental Health Sciences. National Institutes of Health, Research Triangle Park, NC. Jan 2016
48. **“Gene Expression Regulatory Networks in Acute Lung Inflammation”**. *Research Seminar*, Dep. of Pediatrics, Penn State College of Medicine, Hershey, PA. Mar 2015.
49. **“Posttranscriptional Regulation of Surfactant Protein A variants”**. *Research Interest Seminar*, QPS, LLC. Newark, DE. Nov 2014.
50. **“Identification of novel non-invasive biomarkers for bronchopulmonary dysplasia in prematurely born infants”**. Heart of Lancaster Hospital, Lititz, PA. Jun 2014.
51. **“MiRNAs as non-invasive biomarkers for inflammatory lung disease”**. Department of Pediatrics research seminar, Penn State College of Medicine, Hershey, PA. Jun 2014.
52. **“MicroRNA and mRNA regulation networks in acute lung inflammation”**. *Research Seminar*, Department of Biology, Dickinson College. Carlisle, PA, Feb 2014.
53. **“MicroRNA regulation of Surfactant Protein A variants”**. Penn State College of Medicine Department of Biochemistry and Molecular Biology Research Interest Seminar. Hershey, PA, Jun 2013.
54. **“MiRNAs in the translational control of Surfactant Protein A variants”**. Stanford University, Pulmonary Medicine Grand Rounds. Dep. of Medicine. Palo Alto, CA, Dec 2012.
55. **“Translational control of gene variants of the Surfactant Protein A: impact of variant-specific elements”**. Universidad Complutense de Madrid, Madrid, Spain, Oct 2010.
56. **“Translational control of gene variants of the innate immunity molecule Surfactant Protein A”**. DRS Pediatrics Seminar. Penn State College of Medicine, Hershey, PA, Sep 2009.
57. **“Orexins and orexin receptors: relationships with the encephalic-pituitary-gonadal axis”**. Research Seminar, Institute of Biology and Experimental Medicine. Buenos Aires, Argentina, Oct 2006.

TEACHING ACTIVITIES

Courses Taught in the past 10 years

| Course (Level) | Title | Role | School, Semester, Year | Enrollment | # of Credits |
|-----------------------|---|--------------|-------------------------------|-------------------|---------------------|
| SPH-V 733 | Research Methods in Environmental Health | Lead faculty | IUB SPH Fall 2024 | 6 | 3 |
| SPH-V 794 | Doctoral Seminar in Environmental Health | Lead faculty | IUB SPH Spring 2024 | 3 | 3 |
| SPH-V 733 | Research Methods in Environmental Health | Lead faculty | IUB SPH Fall 2023 | 6 | 3 |
| SPH-V 733 | Research Methods in Environmental Health | Lead faculty | IUB SPH Fall 2022 | 4 | 3 |
| CBPH 852 (PhD) | Experimental Physiology of Human Health & Disease | Co-faculty | UNC-CH Fall 2021 | 20 | 4.5 |
| SPH-V 210 | Environmental Health Seminar | Lead faculty | IUB SPH Fall 2021 | 4 | 1 |
| CBPH 852 (PhD) | Experimental Physiology of Human Health & Disease | Co-faculty | UNC-CH Fall 2020 | 16 | 4.5 |

| Course (Level) | Title | Role | School, Semester, Year | Enrollment | # of Credits |
|----------------|--|--------------------------------|------------------------|------------|--------------|
| N959 (PhD) | Research Grant Writing | Course coordinator/ Co-faculty | UNC-CH Spring 2020 | 10 | 3 |
| N976 (PhD) | Issues in Sampling and Design | Co-faculty | UNC-CH Fall 2019 | 12 | 3 |
| PSIO505 (PhD) | Cellular and Integrative Physiology II | Co-faculty | PSU Spring 2018 | 8 | 3 |
| PSIO505 (PhD) | Cellular and Integrative Physiology II | Co-faculty | PSU Spring 2017 | 12 | 3 |
| BMS 520 (PhD) | Integrative Physiology | Co-faculty | PSU Spring 2015 | 10 | 3 |

PSU: Penn State University, UNC-CH: University of North Carolina at Chapel Hill, IUB SPH: Indiana University Bloomington School of Public Health

Other Courses Taught and Guest Lectures

| | |
|-----------|---|
| 2024 | Guest Lecture. “Lung Function Measures in Mice” A501, Techniques in Reproductive Diversity, Indiana University, Bloomington, IN. |
| 2024 | Guest Lecture. “Animal models, air pollution, and lung inflammation” SPH-V 210, Environmental Health Seminar. IUB School of Public Health, Bloomington, IN. |
| 2023 | Instructor in “Forensic Genetics” Universidad San Gregorio de Portoviejo and IMF Smart Education, Ecuador |
| 2023 | Master Class Lecture. “New technologies for DNA analysis in forensic science” Universidad San Gregorio de Portoviejo and IMF Smart Education, Ecuador (virtual presentation). |
| 2023 | Guest Lecture. “Ozone exposure and lung inflammation” SPH-V 210, Environmental Health Seminar. IUB School of Public Health, Bloomington, IN. |
| 2022 | Guest Lecture. “Sex differences in the susceptibility to environmental exposures” California State University Sacramento NSM 90 seminar course (virtual presentation). |
| 2022 | Guest Lecture. “Exposure Assessment in Pre-clinical Models” SPH-V 545, Exposure Assessment. IUB School of Public Health, Bloomington, IN. |
| 2022 | Guest Lecture. “Sex & gender differences and health disparities in lung cancer” Wesleyan University. MB&B 108Z (virtual presentation). |
| 2021 | Guest Lecture. “The use of DNA technologies in international forensic science” Practical training in criminalistics and forensic science. Technological Institute Daniel Alvarez Burneo, Loja, Ecuador (virtual presentation). |
| 2021 | Guest Lecture. “DNA and its use in forensic science” Offered to Forensic Neuroscience students. University of Puerto Rico, Recinto Mayagüez, PR (virtual presentation). |
| 2020-2023 | Instructor in “Forensic Genetics” Universidad de Especialidades Espíritu Santo, Guayaquil, Ecuador |
| 2014-2017 | Instructor. Summer Undergraduate Bootcamp: “Introduction to Laboratory Techniques” For 3 years, I led a one-week course for summer undergraduates. Sponsored by the NHLBI INTREPID program. Penn State College of Medicine. Hershey, PA. |
| 2015-2017 | Instructor. “Medical Interpretation Training Workshop” I designed and facilitated a medical interpretation training for medical students that allowed them to receive |

- certification for the state of PA. I also created a demonstration video with the students: <https://bit.ly/2A7Zau9> Penn State College of Medicine. Hershey, PA.
- 2015** **Guest Lecture. “Preventing Imposter syndrome and Stereotype Threat”.** Offered to Summer Undergrad Students. Penn State College of Medicine. Hershey, PA.
- 2015** **Guest Lecture.** Penn State Hershey Junior Faculty Development Program session on **“Impact of Unconscious Bias and Micro-aggressions on the workplace”**
- 2014-2016** **Teaching Assistant. “Foundations in Biomedical Research” (BMS 597A)** graduate course. I facilitated problem-based-learning sessions on scientific papers, and I mentored students in the preparation of journal club presentations. Penn State College of Medicine. Hershey, PA.
- 2013** **Instructor. “Introduction to common Laboratory Practices”.** I assisted in this training session of basic laboratory techniques and calculations offered to incoming undergraduate students of the STEP-UP NIH program. Penn State College of Medicine. Hershey, PA.
- 2013-2016** **Facilitator. Problem Based Learning (PBL),** I facilitated sessions in the following courses: Cellular and Molecular Basis of Medical Practice, Biological Basis of Disease, Endocrinology, Scientific Principles of Medicine, Pulmonary Medicine, Pediatric Hypertension. Penn State College of Medicine. Hershey, PA.
- 2007** **Instructor. “Physiology or Reproduction”** graduate course. Institute of Biology and Experimental Medicine (IBYME-CONICET). University of Buenos Aires, Argentina.
- 2007-2008** **Tutor.** Biology, Anatomy and Physiology, and Biochemistry online courses. Smarthinking.com. I provided online tutoring to American students in English.
- 2005-2006** **Instructor. “Forensic Research: DNA testing in the practice”** graduate course. Argentinean Police Academy University, Buenos Aires, Argentina.
- 2005-2006** **Instructor. “General Chemistry”** undergraduate course. Argentinean Police Academy University, Buenos Aires, Argentina.
- 2004-2005** **Instructor. “DNA use in Forensic Sciences”** graduate course. Argentinean Police Academy University, Buenos Aires, Argentina.
- 2006-2007** **Teaching Assistant. “Molecular Physiology”** undergraduate course. Department of Biological Chemistry. University of Buenos Aires, Argentina.
- 2003-2006** **Teaching Assistant. “Biochemistry I”** undergraduate course. Department of Biological Chemistry. University of Buenos Aires, Buenos Aires, Argentina.

TRAINEE RESEARCH SUPERVISION

Postdoctoral Fellows:

Dr. Omar Borges-Sosa (2023-current)
Dr. Carolyn Damilola Ekpruke (2021-current)
Dr. Shihka Sharma (2021- 2024)
Dr. Amy Spinelli (2016-2017)
Dr. Vikas Mishra (2013- 2014)

PhD Students:

Dustin Rousselle (2023- current)
Maksat Babayev (2021-current)
Nathalie Fuentes (2016-2019)
Indira Purushothaman (2018) - rotation
Jenna Wilcox (2017) - rotation

MS Students:

Rachel Alford (2021-2023) – Indiana University
Dustin Rousselle (2021-2023) – Indiana University
Gabriela Silveyra (2011-2012) - Universidad CAECE, Argentina.

Medical Students:

Sahar Abdullah (2023, summer internship)
Soraya Bascoy (2017-2018)
Chavely Valdez-Sanchez (2017-2018) PEDS 796 – Pediatric Individual Studies
Alvaro Vargas-Pelaez (2015-2016)

Post-bacs/Visiting Research Fellows:

Jose Bermudez (2019-2020)
Deborah Montes (2019-2020)
Marvin Nicoleau (2016-2018)
Noe Cabello (2015-2016).
Dr. Nikolaos Tsotakos (assisted in training, 2012-2013)
Manmeet Raval (assisted in training, 2009-2011)

Fellows/Residents:

Dr. Imtiaz Ahmed (2018-2019).
Dr. Carla Caruso (2014-2016).
Dr. Christiana Oji-Mmuo (2013-2015). Neonatal/Perinatal Fellow.
Dr. Melissa Grageda (assisted in training, 2010-2012)
Dr. Faizah Bhatti (assisted in training, 2008-2010)
Dr. Faryal Durrani (assisted in training, 2008-2010)

International Medical Graduates

Dr. Fatima Alam (2023-2024) (Pakistan)
Dr. Souad Taib (2023-2024) (Algeria)
Dr. Miguel Silva Rodriguez (2021-2023) (Cuba)
Dr. Daniel Rodriguez Bauza (2020-2023) (Cuba)
Dr. Anika Naeem (2018-2019) (Pakistan)
Dr. Lidys Rivera (2016-2018) (Colombia)

Undergraduate Students:

Amy Nguyen (Summer 2024, Spring 2025)
Maddie Coggan (Summer 2024, Spring 2025)
Jerwin Palencia (2024-2025) – Cox scholar
Phoenix Haggard (2024-2025)
Michelle Boulos (2024-2025)
Aakash Parekh (2024-2025)
Lauren Bartelman (2024-2025)
Emely Peregrina (Summer 2024)
Pablo Luna (Summer 2024)
Melanie Vazquez (Summer 2024)
Dembo Baldeh (Summer 2024)
Daniella Gonzalez Rivera (Summer 2024)
Sarasi Gunasekara (Summer 2024)
Karen Fecht (Summer 2024)
Hanna Tran (Spring 2024)
Praveen Chirumamilla (2022-2025)

Aniya Harris (Summer 2023)
Evelyn Redmond (Summer 2023, Summer 2024)
Jackson Crenshaw (Summer 2023, Fall 2023)
Keishla Colon Montañez (Summer 2021, 2022, and 2023)
Ayra Siddiqui (Fall 2022, Summer 2023, Fall 2023)
Heba Al-Housseiny (2019-2020)
Mina Norman (Summer 2019 / 2020)
Ashley Weaver (Summer 2018)
Rachel Steckbeck (Summer 2018)
Jonathan Pesantez (summer/fall 2017 and summer 2018)
Shaneeka Emile (Summer/Fall 2017)
Maria Chroneos (Summer 2017)
Molly Carney (Summer 2016)
Andrij Tarasiuk (Summer 2016)
Karla Molina (Summer 2016)
Dana Ragbirsingh (Summer 2016)
Estefany Rodriguez (Fall 2015). Penn State Harrisburg.
Robyn Harding (Summer 2015)
Ndifreke Ekpa (Summer 2015).
Tejas Gowda (Summer 2015)
Naseem Zomorodi (Spring 2015). Penn State Schreyers Honors College.
Noe Cabello (Summer 2013 and 2014).
Melody Pham (Summer 2014).
Utkarshna Sinha (Summer 2014 and 2015).

High School Students:

William Liao (2024-2025) Bloomington South High School.
Kyle Harris (Summer 2023, Fall 2023, Spring 2024). Bloomington South High School.
Aniyah Godwin (Fall 2017). SciTech (Harrisburg) High School.
Ange Kandolo (Summer 2015). Milton Hershey School Spartan Academic Medical Experience.
Shaneeka Emile (Summer 2015). Milton Hershey School Spartan Academic Medical Experience.
Vincent Dong (Summer 2014). Milton Hershey School Spartan Academic Medical Experience.
Dylan Yates (Summer 2014). Milton Hershey School Spartan Academic Medical Experience.
Michael Guo (Summer 2011). Hershey High School.
Tammy Lin (Summer 2010). Hershey High School.

PhD Student Committees

| Student | Role (Chair/Committee) | Dates |
|---------------------------|-------------------------------|----------------|
| Dustin Rousselle (IUB) | Advisor / Committee Chair | 2023- current |
| Chukwudike Igwe (IUB) | Committee Member | 2023- current |
| John Fyolek (IUB) | Committee Member | 2021-2023 |
| Yu Du (IUB) | Committee Member | 2022 - current |
| Sophia Varriano (CUNY) | Committee Member | 2021 – current |
| Maksat Babayev (IUB) | Advisor / Committee Chair | 2021 - current |
| Abbie Sogard (IUB) | Committee Member | 2021-2023 |
| Elizabeth Bernhardt (UNC) | Committee Member | 2018-2020 |
| Nathalie Fuentes (PSU) | Advisor, Chair of Committee | 2017-2019 |
| Madhu Singh (PSU) | Committee Member | 2018-2019 |
| Kristin Lambert (PSU) | Committee member | 2016-2018 |

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|------------------------|-----------------------------------|------|
| Eric Yau (PSU) | Committee member | 2018 |
| Laura Burdolean (PSU) | Committee member (candidacy exam) | 2017 |
| Stephanie Schell (PSU) | Committee member (candidacy exam) | 2014 |

MS Student Committees

| Student | Role (Chair/Committee) | Dates |
|------------------------|-------------------------------|--------------|
| Dustin Rousselle (IUB) | Advisor / Committee Chair | 2021- 2023 |
| Rachel Alford (IUB) | Advisor/ Committee Chair | 2021- 2023 |

Clinical Fellowship committees

| Trainee / Program | Role | Dates |
|---|---------------------------------|--------------|
| Alexandra Silva (IUSOM Pulmonary fellow) | Scholarship Oversight Committee | 2025-2027 |
| Amalia Lehmann (IUPUI Pediatric Pulmonary fellow) | Committee Member | 2021-2023 |
| Imtiaz Ahmed (PSU COM Neonatal-Perinatal fellow) | Committee Member | 2017-2018 |

RESEARCH GRANTS

Funded (Active)

| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
|--|---|---------------|---------------|---------------------------------------|-------------------|
| Principal Investigator (R01) | “Gonadal hormones as mediators of sex and gender influences in asthma”, R01HL159764 (Silveyra) | \$2,097,396 | 32.5% | National Institutes of Health -NHLBI | 07/01/21-06/30/25 |
| MPI-Principal Investigator (R13) | “The National Diversity in STEM Conference” R13GM136129 (Davila Garcia/ Silveyra) | \$8,675,000 | 5% | National Institutes of Health - NIGMS | 09/01/20-08/31/25 |
| Co-Investigator (R01) | “A mechanistic clinical trial of omega-3 fatty acids to prevent subconcussive neural injury”, 1R01NS137276-01A1 (Kawata/ Mickleborough/ Newman, MPI) | \$3,886,565 | 5% | National Institutes of Health - NINDS | 06/01/24-05/31/29 |
| Principal Investigator (Diversity Supplement to R01) | “Gonadal hormones as mediators of sex and gender influences in asthma” R01HL159764-02W1, Diversity Supplement to Sarah Commodore (Silveyra) | \$524,073 | 1% | National Institutes of Health - NHLBI | 09/09/22-06/30/25 |

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|---|--|--------------|----|--|-------------------|
| Co-Investigator (R25) | “Culturally Responsive Academic and Career Trainings to Diversify the Biomedical Workforce”, R25GM130515 (Padilla) | \$2,420,935 | 2% | National Institutes of Health - NIGMS | 08/01/20-07/31/25 |
| Advisory Board (P01) | “Scientific innovation for personalized severe asthma management”, P01HL158507 (Gaston) | \$12,046,865 | 1% | National Institutes of Health - NHLBI | 08/01/21-04/30/26 |
| Advisory Board (K08) | “The role of surfactant protein-A genetic variant and sex in pathogenesis of neonatal respiratory syncytial virus infection” K08HL169727 (Gandhi) | \$1,256,985 | 1% | National Institutes of Health - NHLBI | 07/01/23-06/30/28 |
| Primary Mentor (K01) | “Identification of Early Metabolomic and Immune Endotypes of Allergy and Asthma: An Integrated Multiomics Approach”, K01HL149989 (Turi) | \$162,000 | 1% | National Institutes of Health - NHLBI | 08/01/23-07/31/25 |
| Co-Mentor (K23) | “Salivary miRNAs as prognostic markers of pulmonary hyper-tension associated with Bronchopulmonary Dysplasia in extremely low gestational age infants”, K23HD109727 (Siddaiah) | \$1,237,728 | 1% | National Institutes of Health - NICHD | 12/01/23-11/31/27 |
| Co-Mentor (Diversity Supplement to R01) | “Bacterial-mediated enhancement of Coxsackievirus” 3R01AI165611-02S1, Diversity Supplement to Justin Greaves (Robinson) | \$150,575 | 1% | National Institutes of Health - NIAID | 08/14/23-06/30/25 |
| Principal Investigator | “Endocrine Disruptors and Endothelial Dysfunction: a Mechanistic Approach” (Silveyra) | \$10,000 | 1% | OVPIA International Collaboration Grant | 07/01/24-06/30/25 |
| Principal Investigator | “MACSQuant Analyzer 10” (Silveyra) | \$34,810 | 1% | Indiana University Research Equipment Fund | 09/09/24-09/08/25 |

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|----------------------|---|-----------|----|---------------------------------------|-------------------|
| Advisory Board (R25) | “R25 LEADER Summer Undergraduate Research Program (LSURP)” (Richburg) | N/A | 1% | National Institutes of Health - NIEHS | 01/01/25-12/31/29 |
| Mentor (K38) | “Indiana Stimulating Access to Research in Residency (I-StARR)” 1R38HL177791-01 (Okuyemi) | \$290,881 | 1% | National Institutes of Health - NHLBI | 02/01/25-01/31/30 |

Submitted/Under Review/Pending

| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
|----------------------------------|--|--------------|--------|--|---------------------|
| Co-Investigator (R01, VICTER) | “ENDS aerosol particle deposition, in utero exposures and children's respiratory health effects (ENDURE)”, R01ES035694-01A1 (Commodore/Noël/Lin) | \$2,151,605 | 10% | National Institutes of Health – NIEHS | 12/01/24 - 11/30/27 |
| MPI-Principal Investigator (R13) | “The National Diversity in STEM Conference” 2R13GM136129-06 (Davila Garcia/ Silveyra) Score = 20 | \$11,118,925 | 5% | National Institutes of Health - NIGMS | 01/01/25-12/31/29 |
| Collaborator (R01) | “Impact of air freshener exposure on respiratory immune health” (Rebuli) | N/A | 1% | National Institutes of Health | 07/01/25-06/30/29 |
| Principal Investigator (R01) | “Gonadal hormones as mediators of sex and gender influences in asthma”, 2R01HL159764-05 (Silveyra) | \$2,185,007 | 25% | National Institutes of Health -NHLBI | 07/01/25-06/30/29 |
| MPI-Principal Investigator (RM1) | “Wildfire particulate matter exposures and Alzheimer's disease (WIPE-AD)” (Commodore, Silveyra, Shao, Tadros, Horvat) | \$6,159,024 | 25% | National Institutes of Health - Collaborative Opportunities for Multidisciplinary, Bold, and Innovative Neuroscience (COMBINE) | 07/01/25-06/30/30 |

Funded (Completed)

| NIH GRANTS | | | | | |
|--|---|-----------|--------|---|-------------------|
| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
| Principal Investigator (Diversity Supplement to R01) | “Sex differences in GPER-mediated mechanisms in allergic asthma”, 3R01HL159764-03, Diversity Supplement to Omar Borges-Sosa (Silveyra) | \$140,995 | 1% | National Institutes of Health - NHLBI | 09/01/24-06/30/25 |
| Principal Investigator (Admin. Supplement to R01) | “Promoting DEIA in Lung Disease Research Through a Mentored Training Experience at IUB-SPH”, Administrative Supplement R01HL159764-03W1 (Silveyra) | \$396,210 | 15% | National Institutes of Health - NHLBI | 07/25/23-06/30/24 |
| Consultant (KL2) | “A 12-Week Nutrition Clinical Trial with a Balanced, Anti-Inflammatory (BAI) Diet for Newly Diagnosed Youth with Type 1 Diabetes”, KL2TR002015 (Huerta Saenz) | NA | 1% | National Institutes of Health – NCATS Pennsylvania State University CTSI KL2 Career Development Award | 05/02/22-04/30/24 |
| Principal Investigator (R03) | “Sex- Based Differences in Airway Structural Properties and Immune Response in HDM Challenged Animals”, R03HL141618 (Silveyra) | \$154,400 | 2% | National Institutes of Health-NHLBI | 04/01/18-11/30/20 |
| Principal Investigator (K01) | “Sex-specific mechanisms of ozone-induced acute lung inflammation”, K01HL133520 (Silveyra) | \$506,266 | 75% | National Institutes of Health -NHLBI | 07/15/16-06/30/20 |

| Collaborator (R21) | “Role of estrous cycle and contraceptives in anogenital papillomavirus infection”, R21AI121822 (Christensen) | \$425,425 | 2% | National Institutes of Health -NIAID | 03/01/16-02/28/18 |
|----------------------------|---|-----------|--------|--|-------------------|
| Co-Investigator (R56) | “Regulation of the Lung Antiviral Inflammatory Response”, R56HL128746 (Chroneos) | \$386,750 | 20% | National Institutes of Health -NHLBI | 09/04/15-08/31/17 |
| INSTITUTIONAL/PILOT GRANTS | | | | | |
| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
| Mentor (Postdoc challenge) | “Assessing sex differences in the effect of diet and exercise on airway remodeling in asthma using an animal model” (Ekpruke) | \$5,000 | 1% | IU CTSI – Postdoc Challenge Grant Funding to use CTSI-Designated Core Facilities | 07/01/23-06/30/24 |
| Co-Investigator | “Prenatal exposure to electronic-cigarette aerosols and long-term pulmonary function in Offspring” (Commodore) | \$46,335 | 1% | Indiana University Research Equipment Fund | 06/01/23-05/31/24 |
| Co-Investigator | “The Impact of Vape Aerosol Exposures on Airway Cells and Immune Function” (Commodore) | \$50,900 | 1% | Indiana University Clinical and Translational Science Institute | 10/01/22-09/30/23 |
| Co-Investigator | “Sex-specific lung functional changes in mice exposed to electronic cigarettes in utero” (Commodore) | \$25,000 | 1% | Indiana University Payback Pilot Grant | 01/09/22-06/01/23 |
| Principal Investigator | “Metabolomics analysis of phthalate-induced respiratory toxicity” (Silveyra) | \$16,490 | 1% | Indiana University Payback Pilot Grant | 11/01/22-06/01/23 |
| Principal Investigator | “Phthalate exposure and asthma phenotypes: sex-specific mechanisms” (Silveyra) | \$24,866 | 1% | Indiana University Payback Pilot Grant | 09/01/21-06/30/22 |
| Co-Investigator | “Chemical fingerprinting of federally regulated and non-regulated e-cig liquids and aerosols by Q-TOF gas | \$20,000 | 1% | Indiana University Payback Pilot Grant | 12/01/21-11/30/22 |

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|------------------------|---|----------|----|--|-------------------|
| | chromatography–mass spectrometry” (Commodore) | | | | |
| Principal Investigator | “Characterization of asthma phenotypes in estrogen-deficient mice” (Silveyra) | \$24,916 | 1% | Indiana University Payback Pilot Grant | 06/01/21-01/31/22 |
| Principal Investigator | “Elucidating the mechanisms underlying e-cigarette or vaping product use-associated lung injury” (Silveyra) | \$47,040 | 1% | Indiana University Research Equipment Fund | 10/01/21-03/31/22 |
| Principal Investigator | “Sex differences in air pollution-induced cell toxicity” (Silveyra) | \$2,500 | 1% | Indiana University Emergency Equity Fund for Research | 04/01/21-07/02/21 |
| Co-Investigator | “Reproductive hormones as risk factors for progression of carotid plaque burden and characteristics” 2KR1262004 (Cortés) | \$2,000 | 1% | North Carolina Translational and Clinical Sciences Institute pilot grant | 06/01/20-05/31/21 |
| Principal Investigator | “Sex differences in ozone-induced asthma exacerbations: role of the microbiome” (Silveyra) | \$30,000 | 5% | UNC Center for Environmental Health and Susceptibility | 04/01/20-03/31/21 |
| Principal Investigator | “Sex differences in allergic lung inflammation: transcriptional regulation by sex hormones” (Silveyra) | \$10,000 | 5% | UNC Junior Faculty Development Award | 01/01/20-12/31/20 |
| Mentor | “Effect of Vitamin A and Caffeine on the inflammatory and oxidative stress response of fetal respiratory epithelial cells during hyperoxia” (Ahmed) | \$20,000 | 1% | Penn State Hershey Pediatric Research Discovery and Education Fund | 07/01/18-06/30/19 |
| Faculty Advisor | “Penn State Latinos Medical Student Association Medical English as a Second Language Program” (DeSouza) | \$3,400 | 1% | Penn State Hershey Community relations grant | 01/01/18-12/31/18 |

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|----------------------------|---|-----------|-----|---|-------------------|
| MPI-Principal Investigator | “Identification of Toxicity Parameters Associated with Combustion Produced PM2.5 Surface Chemistry and Particle Structure by in Vitro Assays” (Vander Wal/Silveyra) | \$49,965 | 5% | Penn State University Human Health & the Environment Seed Grant | 07/01/17-06/30/18 |
| Mentor | “Tracheal Aspirate Transcriptomic Analysis as a Diagnostic tool for Neonatal Inflammatory Lung Disease” (Oji-Mmuo) | \$10,000 | 1% | Pediatric Research Discovery and Education Fund | 07/01/17-06/30/18 |
| Principal Investigator | “Breaking Language Barriers. A student-based medical interpretation program for walk-in clinics” (Silveyra) | \$4,500 | 1% | Penn State Hershey Community relations grant | 01/01/17-12/31/17 |
| Co-Investigator | “Role of SP-R210 (Myosin 18A/CD245) in influenza A virus infection and epigenome modification of human alveolar macrophages.” (Chroneos) | \$100,000 | 10% | Penn State College of Medicine Bridge Grant | 01/01/17-06/30/18 |
| Co-Investigator | “Pro-inflammatory biomarkers in children with Sickle Cell Disease- a pilot study” (Bujold) | \$10,000 | 1% | Pediatric Research Discovery and Education Fund | 07/01/16-12/31/17 |
| Collaborator | “The Clinical Impact of Allelic Variants of SP-A in Neonates with Proliferative Retinopathy” (Bhatti) | \$35,000 | 5% | Oklahoma Clinical and Translational Science Institute (CTSI) | 07/01/14-06/30/15 |
| Principal Investigator | “Identification of miRNA biomarkers for inflammatory lung disease” (Silveyra) | \$5,000 | 10% | Penn State College of Medicine Junior Faculty Development Program | 03/03/14-06/01/14 |

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|------------------------|--|---------------|---------------|---|-------------------|
| Principal Investigator | “Improving Health Care Quality through Language Access Programs” (Silveyra) | \$2,500 | 1% | Penn State Hershey Community relations grant | 01/01/16-12/31/16 |
| OTHER GRANTS | | | | | |
| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
| Principal Investigator | “Promoting Diversity through a Leadership Training Program at Indiana University Bloomington” (Silveyra/Kercher) | \$3,000 | 1% | Indiana Academy of Sciences | 06/01/22-05/31/23 |
| Mentor | “Predictors and diagnostic biomarkers of pulmonary hypertension associated with severe bronchopulmonary dysplasia” (Siddaiah) | \$200,000 | 1% | Commonwealth Universal Research Enrichment (CURE) Program | 09/01/19-08/31/22 |
| Mentor | “Effects of Sex Hormones on Alveolar Macrophage Polarization and Phagocytosis in Response to PM2.5 Exposure” (Fuentes) | \$56,600 | 1% | American Physiological Society Porter Fellowship | 09/01/18-05/31/19 |
| Principal Investigator | “Mechanisms of air pollution-induced lung immunity in women: role of sex hormones” (Silveyra) | \$25,000 | 1% | Center for Research on Women and Newborn Health | 03/01/18-02/28/19 |
| Collaborator | “Secreted miRNAs as diagnostic biomarkers for neonatal inflammatory lung disease and comorbidities” (Oji-Mmuo) | \$30,003 | 1% | Children’s Miracle Network | 07/01/17-06/30/18 |
| Collaborator | “Characterization of Exhale Breath Condensate Biomarkers of Airway Inflammation in Children with Sickle Cell Disease” (Mondal) | \$36,884 | 1% | Children’s Miracle Network | 07/01/17-06/30/18 |

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|---|---|----------|-----|---|-------------------|
| Principal Investigator | “Role of Estrogen and Progesterone Receptors in AM Polarization in Women and Infants” (Silveyra) | \$25,000 | 1% | Center for Research on Women and Newborn Health | 02/01/17-01/31/18 |
| Co-Principal Investigator | “MicroRNAs as Biomarkers for Asthmatic Inflammation and Prediction of Asthma Outcomes in Pregnancy” (Ishmael) | \$30,000 | 1% | Center for Research on Women and Newborn Health | 03/01/16-06/30/17 |
| Principal Investigator | “Improving Health Care Quality through Language Barrier Programs” (Silveyra) | \$2,500 | 1% | Highmark Blue Shield Community Affairs grant | 03/01/16-06/01/17 |
| Co-Investigator | “Role of inflammatory biomarkers in the development of pulmonary hypertension in extremely low birth weight premature infants” (Siddaiah) | \$25,000 | 5% | Center for Research on Women and Newborn Health | 01/01/15-12/31/16 |
| Principal Investigator | “Identification of novel non-invasive biomarkers for bronchopulmonary dysplasia in prematurely born infants” (Silveyra) | \$25,000 | 10% | Center for Research on Women and Newborn Health | 12/01/13-11/30/14 |
| Principal Investigator | “Characterization of the miRNA profile in tracheal aspirates from Pediatric Patients with Inflammatory Lung Disease” (Silveyra) | \$29,257 | 15% | Children’s Miracle Network | 07/01/13-06/30/14 |
| Principal Investigator | “Regulation of Translation of Human SP-A Variants by miRNAs” (Silveyra) | \$18,500 | 10% | Children’s Miracle Network | 07/01/12-06/30/13 |
| Principal Investigator | “Role of miRNAs in the differential translation of SP-A gene variants” (Silveyra) | \$10,000 | 10% | Adele Lewis Grant Fellowship, GWIS | 07/01/12-06/30/13 |
| COMPETITIVE NIH PROGRAMS THAT SUPPORTED MY TRAINING | | | | | |

| Role | Title, Grant #, PI(s) | Amount | Effort | Agency | Dates |
|---------|--|--------|--------|--------------------------------------|-------------------|
| Scholar | “Programs to Increase Diversity among Individuals Engaged in Health-Related Research (PRIDE): Functional and Translational Genomics of Blood Disorders” R25HL106365 (Pace) | N/A | 6% | National Institutes of Health -NHLBI | 07/01/15-06/30/17 |
| Scholar | “BIRCWH Career Development Program in Women’s Health Research at Penn State” K12HD055882 (Weisman) | N/A | 75% | National Institutes of Health -NICHD | 01/01/13-06/30/15 |

PROFESSIONAL SERVICE

Conference session Chair

1. **American Physiological Society “Chromosomal Contributions to Cardiopulmonary and Neurological Disease”** To be co-chaired with Dr. Carolyn Ekpruke and Dr. Isaac Sundar at the 2025 Physiology summit, Baltimore, MD, April 2025
2. **ATS Respiratory Cell and Molecular Biology assembly “Role of Sex in Pulmonary Disease Across the Lifespan”** Co-chaired with Dr. Krithika Lingappan and Dr. Isaac Sundar at the 2024 American Thoracic Society meeting, San Diego, CA, May 2024
3. **ATS Environmental, Occupational and Population Health assembly “Omics and the exposome: high dimensional methods in environmental lung health research”** Co-chaired with Dr. David Christiani and Dr. Shu-Yi Liao at the 2023 American Thoracic Society meeting, Washington, DC, May 2023
4. **Organization for the Study of sex differences “Mechanisms of sex differences in respiratory disease”**. Co-chaired with Dr. Alicia Rizzo at the Organization for the Study of Sex Differences 2022 annual meeting. Marina del Rey, CA, May 2022
5. **American Physiological Society “Sex differences in lung pathophysiology”** Co-chaired with Dr. Rizzo at the Experimental Biology meeting. Philadelphia, PA, April 2022.
6. **ATS Respiratory Cell and Molecular Biology assembly “Sex as a Vital Biological Variable in Lung Disease Across the Lifespan”** Co-chaired with Dr. Krithika Lingappan and Dr. Vera Krymskaya. 2021 ATS virtual meeting. May 2021
7. **Organization for the Study of sex differences “Sex and Gender Differences in E-cigarette Use and Toxicity”**. Co-chaired with Dr. Meghan Rebuli at the OSSD annual meeting. Apr 2021
8. **ATS Environmental, Occupational and Population Health assembly “New mechanisms of ozone toxicity”**. Co-chaired with Drs. Jim Wagner and Robert Tighe. ATS meeting, Dallas, TX. May 2019
9. **American Physiological Society Respiration Section Featured topic “Sex and Gender in Respiratory Physiology”**. Co-chaired with Dr. Y.S. Prakash. Experimental Biology meeting, American Physiological Society. Orlando, FL. Apr 2019
10. **Society of Toxicology poster session “Air pollution – Ozone”**. Co-chaired with Dr. Urmila Kodavanti. 58th annual SOT Meeting. Baltimore, MD. March 2019

11. **Organization for the Study of sex differences meeting symposium “Gender, Sex Hormones, and Lung Inflammation”.** Session chair, OSSD annual meeting. Atlanta, GA. Apr 2018
12. **American Academy of Allergy, Asthma & Immunology Course 1008 NIEHS: Gender, sex hormones, and lung immune function.** Session chair, AAAAI meeting. Atlanta, GA. Mar 2017
13. **Discussion Leader.** Gordon-Kenan Research Seminar: Lung Development, Injury & Repair. Andover, NH, August 2013

Membership in Professional Societies

- Association of Chairs of Departments of Physiology (ACDP), 2024-current
- Society of Toxicology (SOT), 2017- current
- American Association for the Advancement of Science (AAAS), 2019- current
- Sigma Xi, 2019- current
- Graduate Women in Science (GWIS), 2010-current
- Society for Experimental Biology and Medicine (SEBM), 2019- current
- American Physiological Society (APS), 2010- current
- American Thoracic Society (ATS), 2011- current
- Organization for the Study of Sex Differences (OSSD), 2015- current
- GENDRO, Gender, Evidence and Health Network, 2020- current
- Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), 2013- current
- Association of Biomolecular Resource Facilities (ABRF), 2019-2020
- North Carolina Society of Hispanic Professionals (NCSHP), 2019- 2020
- National Hispanic Medical Association (NHMA), 2015- 2021
- Association of Latino Professionals of America (ALPFA), 2018-2020
- American Heart Association (AHA), 2017-2018
- Penn State Hershey Commission for Women, 2013-2018
- Estamos Unidos de Pennsylvania (EUP), 2012-2018
- Latino Hispanic Professional Association (LHPA), 2014-2017
- Hershey Rotary Club, 2011-2017
- Argentinean Society of Clinical Research (SAIC), 2003-2008
- American Society for Cell Biology (ASCB), 2009-2016
- Penn State Hershey Postdoctoral Society (PSHPS), 2009-2012
- National Postdoctoral Association (NPA), 2010-2012
- Argentinean Society of Physiology (SAFIS), 2012-2014
- Association for Women in Science (AWIS), 2012-2016
- League of United Latin American Citizens (LULAC), 2013-2015

LEADERSHIP EXPERIENCE

Current positions

- New Voices in Science, Engineering and Medicine Advisory Board (2024-current)
- SACATM/NIH, Scientific Advisory Committee on Alternative Toxicological Methods (2023-current)
- SACNAS Indiana University Professional Chapter, Founder and President (2023-current)
- National SACNAS student presentations committee member (2023-current)
- American Physiological Society Programming Working Group - Respiration Section (2022-current)
- Inter Academy Partnership (IAP) Capacity Building Development and Program Committee (2022-current)
- Board of Directors, Graduate Women in Science (GWIS) (2022-current)
- 2030STEM Advisory board (2022-current)
- SACNAS, Indiana University Student Chapter Faculty Advisor (2021-current)
- GWIS AAAS Representative (2020-current)

Former positions

- Society of Toxicology Inhalation and Respiratory Specialty Section (IRSS) senior councilor (2022-2024)
- Science and Technology in Society (STS) Forum Young Leaders Symposium planning committee (2023)
- Member of the Local Organizing Committee for the International Conference of Young Scientists & Annual General Meeting of the Global Young Academy (2023-2024)
- American Thoracic Society Environmental, Occupational and Population Health (EOPH) Program Committee member (2022-2023)
- Organization for the Study of Sex Differences (OSSD) Awards Committee (2023-2024)
- SACNAS Finance Committee Member (2022-2023)
- Organization for the Study of Sex Differences (OSSD) Nominations Committee Member (2021-2023)
- OSSD Communications committee chair (2021-2023)
- American Physiological Society Joint Programming Committee Co-Chair in Lung Biology (2021-2022)
- SACNAS, IUB Student Chapter Faculty Advisor (2021-2023)
- New Voices in Science, Engineering, and Medicine (NV-NASEM) second cohort member (2021-2023)
- Member, Board on Higher Education and Workforce. NASEM (2020-2023)
- American Physiological Society Sex and Gender Research Interest Group Secretary (2019-2021)
- American Chemical Society (ACS) IGEN Chemistry Advisory Board Member (2018-2023)
- New Voices in Science, Engineering, and Medicine (NV-NASEM) co-chair (2018-2022)
- OSSD Councilor (2018-2020)
- SACNAS Board of Directors (2018-2021)
- SACNAS Executive Committee member (2018-2021)
- SACNAS Treasurer (2019-2020)
- SACNAS Executive Director Search Committee (2020)
- SACNAS Strategic Plan Development Committee (2020)
- SACNAS-ACS taskforce (2020-2021)
- SACNAS, UNC Chapter Faculty Advisor (2019-2020)
- Innovative Training Network “AlveoCOM: cell communication in the alveolar space: guarding lung homeostasis” at Charité Universitätsmedizin Berlin, External advisor (2018-2019)
- OSSD Membership Committee member (2018-2022)
- OSSD Conference Program Committee (2018-2019)
- Latina Researchers Conference Scientific Committee (2018)
- SACNAS Finance Committee Chair (2018-2019)
- SACNAS Audit Committee (2018-2019)
- SACNAS Treasurer-elect (2018-2019)
- Pediatrics Department Newsletter Committee. Penn State College of Medicine (2017-2018)
- Graduate School Admissions Committee. Penn State College of Medicine (2017-2018)
- Recruitment Awards Committee. Penn State College of Medicine, Graduate School (2017)
- Technology committee. Graduate Women in Science (2016-2017)
- Newborn Medicine Division Chief search committee. Penn State College of Medicine (2017)
- Program Director. PSU CROWN summer undergraduate research program (2015-2018)
- Board of Directors. Center for Research on Women and Newborn Health (CROWN) (2018)
- President. Estamos Unidos de Pennsylvania (2016-2017)
- Webmaster. Estamos Unidos de Pennsylvania (2016-2018)
- Co-Chair. Penn State College of Medicine Pediatric Research Day Planning Committee (2016)
- Interim Co-Chair. Penn State Hershey Faculty/Staff of Color Affinity Network Group (2016)

- Chair. Penn State Commission for Women Nominations and Awards Committee (2015-2016)
- Chair. GWIS Nominating Committee (2014-2016)
- President. Graduate Women in Science Kappa Rho Hershey chapter (2012-2016)
- Founder and Director. Medical student interpreter training program at Penn State College of Medicine. I designed and implemented a program where medical students and foreign trained physicians can interpret at local clinics (2014-2017)
- Faculty Advisor. Penn State Hershey Latino Medical Student Association (2013-2018)
- Faculty Advisor. Penn State Hershey Rotaract Club (2012-2016)
- Co-chair. Penn State Hershey Campus Council on Diversity (2013-2015)
- Committee Member. ATS Respiratory Cell & Molecular Biology Junior Professionals Working Group (2012-2015).
- Committee Member. Penn State Hershey Medical Student Research Program (2013-2016)
- Webmaster. GWIS Hershey chapter (2013-2016)
- Outreach Activities Coordinator. Association for Women in Science Hershey (2013-2015)
- Chair. Rotary Alumni Association of District 7390 (2014-2015).
- Youth Exchange Inbound Activities Coordinator. Hershey Rotary Club (2013-2015)
- President. League of United Latin American Citizens (LULAC) of PA (2013-2014).
- Secretary. Estamos Unidos de Pennsylvania (2012-2015).
- Member of the Nominations and Awards Committee. Organization for the Advancement of Women, Penn State Hershey (2013-2018).
- Member of the Nominating Committee. National Graduate Women in Science (2013-2016).
- Member of the Penn State Hershey Dean's Council on Diversity (2012-2013)
- Vice-president. AWIS Hershey (2012-2013)
- Officer of the Youth and Vocational Service Committee, Hershey Rotary Club (2012-2013)
- Faculty Advisor for the GWIS Hershey chapter (2012-2013)
- Secretary. Penn State Hershey Postdoctoral Society (PSHPS) (2011-2012)
- Secretary. GWIS Hershey chapter (2011-2012)
- Officer of the PSHPS social events committee, and executive council (2008-2012)
- Planning committee. AWIS Career Event. Penn State College of Medicine, 2013
- Planning committee. AWIS Career Forum: Advancing Women towards Success, PSUCOM 2012

NATIONAL AND INTERNATIONAL REVIEW PANELS

- Grant Reviewer. Environmental Exposure and Toxicology Review Panel. Tobacco-Related Disease Research Program (TRDRP), University of California, 2025.
- Grant Reviewer. UK Research and Innovation, Medical Research Council (MRC), United Kingdom, 2024
- Grant Reviewer. Environmental Exposure and Toxicology Review Panel. Tobacco-Related Disease Research Program (TRDRP), University of California, 2024.
- NIH Study section standing member (and co-chair). Cardiovascular and Respiratory Diseases (CRD), National Institutes of Health, 2022-2025
- NIH Study section standing member. Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP), National Institutes of Health, 2022
- NIH Ad-hoc Grant Reviewer. Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) study section, National Institutes of Health, virtual meeting 2022
- Reviewer, SOT Postdoctoral Assembly best postdoctoral publication award, 2022
- American Chemical Society Bridge Program grant reviewer 2019-2022
- NIH Ad-hoc Grant Reviewer. Systemic Injury by Environmental Exposure (SIEE) study section, National Institutes of Health, virtual meeting 2021
- NIH Grant Reviewer. NIDDK Special panel ZDK1 GRB-1 J1, Program to Advance the Career Development of Scientists from Diverse Backgrounds Conducting Nutrition, Obesity, Diabetes, and Related Research, National Institutes of Health, virtual meeting 2021

- NIH Grant Reviewer. ZES1 VSM -D (K9) 1 NIEHS Pathway to Independence Award Special Emphasis Panel, National Institutes of Health, virtual meeting 2021
- SACNAS National Conference scholarship reviewer, 2015-2023
- SACNAS National Conference abstract reviewer, 2013-2023
- NIH Grant Reviewer. ZRG1 PSE-C (90) Special Emphasis Panel: Asthma and Pulmonary Conditions study section, National Institutes of Health, virtual meeting 2020
- NIH Grant Reviewer. ZRG1 EMNR A 53 Review Panel study section, National Institutes of Health, virtual meeting 2020
- Reviewer – Asthma UK 2020
- NSF Reviewer 2017-2023
- Cellular and Molecular Mechanisms of Toxicology Gordon Research Conference (GRC) and Gordon Research Seminar (GRS) Poster Session Judge, 2019
- NIH Ad-hoc Grant Reviewer. Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) study section, National Institutes of Health, Washington, DC 2019
- NIH Ad-hoc Grant Reviewer. Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) study section, National Institutes of Health, San Francisco, CA 2018
- Fellowship Reviewer. The Wellcome trust/DBT India Alliance Fellowships, 2018
- Fellowship Reviewer. GWIS National Fellowship Program, 2018-2020.
- Reviewer. PRELUDIUM, National Science Center, Poland, 2017-2018.
- NIH Early career grant reviewer. Lung Injury, Repair and Remodeling (LIRR) study section, National Institutes of Health, Washington, DC, 2017
- Grant Reviewer. Discovery Grant Competition. Natural Sciences and Engineering Research Council of Canada (NSERC). Ottawa, ON, Canada, 2016.
- Grant Reviewer. Population & Systems Medicine Board, Respiratory, Medical Research Council (MRC), Swindon, United Kingdom, 2015
- International Programs Reviewer. Bec.ar international Master's in Science and Technology Program. Buenos Aires, Argentina, 2015
- VA Grant Reviewer. Cellular and Molecular Medicine (CMM) scientific review panel. Office of Research and Development, Dept. of Veterans Affairs, Washington, DC, 2014
- ABRCMS National Conference Undergraduate Poster Session Judge, 2015-2017
- SACNAS National Conference Undergrad/Graduate Poster Session Judge, 2014-2018
- Penn State College of Medicine Pediatric Research Day abstract reviewer, 2014-2018
- Penn State Hershey Graduate Student Research Forum poster judge, 2012-2017
- Capital Area Science and Engineering Fair (CASEF), 2010-2018
- Intel International Science and Engineering Fair (Intel ISEF), 2017-2018
- Penn State Data and Dine annual postdoctoral symposium, 2013-2017
- Penn State Hershey Summer Undergraduate Research Symposium, 2012-2018
- American Society for Cell Biology Minority Affairs Committee poster judge, 2015
- Graduate Women in Science Bridges STEM symposium, University Park, PA, 2010
- American Physiological Society Special Award sponsor at CASEF, 2012-2016
- Graduate Women in Science Special Award sponsor at CASEF, 2014-2016
- Estamos Unidos de Pennsylvania Special Award sponsor at CASEF, 2016-2018

EDITORIAL BOARDS

- Scientific Reports (2024-current) – Editorial Board Member
- Frontiers in Pharmacology, Respiratory Pharmacology (2020-current) – Associate Editor
- Frontiers in Pulmonary Medicine (2021-current) – Review Editor
- American Journal of Physiology, Lung, Cellular and Molecular Physiology (2021-current) – Associate Editor
- Pharmacological Research – Reports (2023) - Editorial Board Member
- Journal of Applied Physiology (2022-2023) - Editorial Board Member

JOURNAL REVIEWER

- American Journal of Physiology, Lung, Cellular and Molecular Physiology
- Biology of Sex Differences
- Scientific Reports
- American Journal of Physiology, Heart and Circulatory Physiology
- Biomarker Research
- BMC Pulmonary Medicine
- European Journal of Pediatrics
- Experimental Lung Research
- Gene
- Frontiers in Bioscience
- Frontiers in Endocrinology
- Frontiers in Pharmacology
- Inflammation Research
- Journal of Visualized Experiments (JoVE)
- Medicina
- Metabolomics
- Neonatology
- Pediatrics Research
- PLOS One
- Toxicology Research
- Toxicological Sciences
- The Clinical Respiratory Journal
- Yonsei Medical Journal

MENTORING PROGRAMS

- **FASEB LEAD** (Leadership Engagement and Appreciation of Differences). I was selected to participate in this reverse-mentoring program that pairs senior-level professionals with junior-level mentors to gain different perspectives of individual, group, and cultural views within the workplace and scientific research communities. July 2023-current
- **Faculty-to-Faculty Network Mentoring Program.** Indiana University Bloomington, October 2023-current
- **Institute of International Education (IIE) Scholar Rescue Fund - Partnerships for Scholar Advancement.** I served as a mentor for two refugee researchers from Yemen and Nigeria. I assisted with CV editing, expanding professional networks, and coaching on faculty positions applications (2018-2021)
- **SACNAS National Conference Mentor, 1-on-1 Mentoring with a SACNAS Leader: Get Advice from Faculty and STEM Mentors on Planning for your Science Career workshop** (Invited leader). I served as faculty mentor for undergraduate students at multiple SACNAS conferences: Long Beach, CA 2016; Salt Lake City, UT 2017; San Antonio, TX 2018; Honolulu, HI 2019; Virtual conferences 2020-2021; San Juan, PR 2022; Portland, OR 2023.

INTERNATIONAL REPRESENTATION

- **6th World Laureates Forum (WLF) Young Scientists Forum.** Shanghai, China, October 2024
- **Young Leaders Alumni Program** (session leader). I participated in the organization and led the first meeting of the young leaders' alumni meeting. Kyoto, Japan, October 2023
- **5th WLF Young Scientists Forum.** Shanghai, China, November 2023
- **2023 Science and Technology in Society (STS) forum.** Kyoto, Japan, October 2023
- **The Triennial Conference of the InterAcademy Partnership (IAP) and the Worldwide Meeting of the Young Academies.** (Speaker) November 2022

- **4th WLF Young Scientists Forum, Biology and Medicine Session.** (Speaker) October-November 2021 (Virtual meeting)
- **6th Worldwide Meeting of the Young Academies.** (Invitee) September 2021.
- **3rd WLF Young Scientists Forum, Biology and Medicine Session.** (Speaker and Moderator) November 2020 (Virtual meeting)
- **17th STS forum** (Invitee) October 2020 (Virtual meeting)
- **5th Worldwide Meeting of the Young Academies.** (Invitee) September 2020.
- **Tsukuba Conference for future shapers.** (Invitee and speaker) "Research for Society – Dialogue between Young Researchers and Funders". Tsukuba, Japan, October 2019
- **Young Leaders Program, “Dialogue between future leaders and Nobel Laureates”** (Invitee). Selected as one of 150 participants worldwide. Kyoto, Japan, October 2019
- **16th STS forum** (Invitee) Kyoto, Japan, October 2019
- **4th Worldwide Meeting of the Young Academies.** Duy Tan University, Da Nang, Vietnam. July 2019 (Invitee). I represented the US National Academies of Science, Engineering, and Medicine New Voices group at this international leadership symposium.

PROFESSIONAL DEVELOPMENT PRESENTATIONS AND CAREER PANELS

- SACNAS conference workshop. **“Starting and Sustaining a Professional SACNAS Chapter”** (Speaker and moderator). 2024 SACNAS NDiSTEM, Phoenix, AZ, Oct 2024
- SACNAS conference workshop. **“Empowering Women in STEM: Navigating, Thriving, and Amplifying Voices”** (Speaker and moderator). 2024 SACNAS NDiSTEM, Phoenix, AZ, Oct 2024
- Indiana University SACNAS chapter “Lunch with a professor” event. **“From first-generation student to Department Chair”** (Speaker). Indianapolis, IN, May 2024.
- Indiana University Hoosier Health Advocacy Club. **“Advocacy through my research”** (Speaker). Bloomington, IN, April 2024.
- Albany State University Forensic Science Club. **“The benefits of graduate school... + one professor’s story”** (Speaker). Virtual talk, February 2024.
- Tufts University BSPS and SACNAS chapter event. **“From first-generation student to Department Chair”** (Speaker). Boston, MA, July 2023.
- American Physiological Society Annual Meeting, **Endocrinology and Metabolism section Trainee Roundtable** (Panelist). Physiology 2023, Long Beach, CA, April 2023.
- American Physiological Society Annual Meeting Martin Frank Diversity Travel Award Luncheon. **Advice for the trainees form the Clifford Barger Underrepresented Minority Mentorship Award Recipient.** Physiology 2023, Long Beach, CA, April 2023.
- University of Puerto Rico at Humacao. **The Importance of Mentoring.** (Panelist). Virtual meeting, January 2023
- 2030STEM Salon: **Hear our voice.** (Session chair and moderator). Hosted at the 2022 SACNAS Meeting, San Juan, PR, October 2022
- SUNY Empire **Hispanic Heritage Month Diversity Panel,** (Speaker) virtual event. October 2022
- NHLBI 2022 **K to R01 Scholar’s Meeting** (Speaker) virtual event. July 2022
- GWIS Nigeria chapter. **“Writing your Specific Aims Page workshop”** (Invited speaker) virtual event. July 2022
- 2022 NIH Sex/Gender-Specific COVID-19 Outcomes and Management Relevant for Heart, Lung, Blood, and Sleep (HLBS) Disorders: **From Bench to Bedside** (Session Moderator). To be held in June 2022
- 2022 NIH Career Symposium. **Research Intensive Faculty Session** (Speaker). NIH Office of Intramural Training & Education, virtual event. May 2022
- Lab Culture and Time Management (Speaker). **“Summer Research Kickoff Day”,** IUB SPEA. May 2022
- Mentoring roundtable (Speaker). OSSD annual meeting. May 2022
- 2030 STEM Salon **“We are the champions”** (Discussant). April 2022

- IUPUI School of Medicine SACNAS discussion “**Lunch with a Doctor**” (Presenter). March 2022
- 2030 STEM Salon “**Change: How Social Media is Accelerating STEM Inclusion**” (Discussant). January 2022
- UMass Boston IMSD/SACNAS discussion “**Translating Research in a Clinical Setting**” (Presenter). December 2021
- SACNAS conference session “**Advice from Early Career Faculty of Color**” (Panelist). October 2021
- American Physiological Society webinar. “**Understanding and Navigating Cluster Hiring**” (Moderator). October 2021
- GlobalMindED webinar. Building the talent pipeline “**Hispanic/Latinx students in STEM**” (Panelist). October 2021.
https://www.youtube.com/watch?v=g1V3wEu4NtU&ab_channel=GlobalMindED2020
- **ACS-Women Chemists Committee webinar “The resilience of women in chemistry”** (Panelist). March 2021. <https://www.acs.org/content/acs/en/acs-webinars/popular-chemistry/resilient-women.html>
- **Squad goals: Building a Community in Academia** (Panelist/Speaker). Intersections Science Fellows Symposium. January 2021. <https://www.intersectionssciencefellows.com/>
- “**El síndrome de impostor. ¿Qué es y cómo superarlo?**” (Panelist) Virtual webinar (in Spanish) about strategies to combat imposter syndrome. October 2020.
- **Equity, diversity, and inclusion panel** (Panelist). Rescuing Biomedical Research Organization. September 2020
- **UC San Diego Center For Research On Educational Equity, Assessment & Teaching Excellence STEM Summer Session Series: Value of Research** (Panelist). August 2020. <https://create.ucsd.edu/stem-initiative/cssi-STEM%20Summer%20Session%20Series/index.html>
- **Bootcamp Community Knowledge Share: Innovation in Disease Research.** Live Discussion (podcast) with MIT Bootcamp Alumni network. July 2020
- **SOT Molecular and Systems Biology Specialty Section (MSBSS) Virtual Mentoring event.** (Panelist) Virtual panel on academic careers organized by the SOT MSBSS students and trainees. July 2020.
- **Planning for Success: Creating an Individual Development Plan 101.** (Speaker) Virtual webinar sponsored by SACNAS. June 2020 <https://www.youtube.com/watch?v=RLIczu-t23A&feature=youtu.be>
- **Humanizing STEM: The art of Storytelling.** (Speaker) Virtual webinar sponsored by SACNAS, ACS, AGU, ASBMB, ASCB, APS, and pd hub. June 2020
<https://www.sacnas.org/2020/06/24/humanizing-stem-the-art-of-storytelling/>
- **Experimental Biology 2020, Micro-learning Hub.** (Speaker) “Dealing with Imposter Syndrome as a URM in Science”. The Micro-learning Hub short (30 min) presentations are designed to provide attendees with insights into key issues related to career and professional development. San Diego, CA, April 2020 (Conference cancelled)
- **Career Focus Panel, Academe & Science Education Administration. Fifteen Annual NICHD Fellows retreat** (Panelist). Potomac, MD 2019 <https://retreat.nichd.nih.gov/agenda.html>
- **NSF INCLUDES Symposium for ADVANCING Latinas in STEM Academic Careers, Voices of STEM Latinas** (Invited panelist). South Padre Island, TX. May 2019
<https://www.utrgv.edu/advance/events-training/nsf-includes-symposium/index.htm>
- **Organization for the Study of Sex Differences (OSSD) Trainee-Mentor Lunch.** (Moderator) I served as mentor for a discussion on “Gender and sex minorities among trainees: are we out yet?” at the 2019 OSSD meeting. Washington DC, May 2019.
- **Sex as a Biological Variable Catalyst Grant workshop.** (Mentor) I served as a mentor for grant recipients of the Institute of Gender and Health, Canadian Institutes of Health Research during the OSSD-IGM meeting. Washington DC, May 2019.

- **2019 Yale Ciencia Academy virtual panel on “Skills and Strategies for Persistence”** (Invited panelist). I served as a panelist for a group of 40 students across the country. The Yale Ciencia Academy is a career development program for students from underrepresented backgrounds who are pursuing PhDs in biomedical and behavioral sciences.
- **Panel Discussion: STEM Workforce Diversity: Where do we go from here?** (organizer and Moderator) I organized and moderated this event hosted by the National Academies of Science, Engineering and Medicine “New Voices” group. Washington, DC 2019. A recording is available at: http://www.nationalacademies.org/newvoices/NA_191627.html
- **Diversity in STEM Panel** (Invited panelist). Pittcon, Philadelphia, PA. 2019
<https://pittcon.org/diversity-in-stem>
- **Webinar: “Next Generation of Biomedical and Behavioral Science Researchers: Breaking Through”**. I was a speaker at this webinar co-sponsored by the AAAMC and FASEB. 2019.
<https://aamc.elevate.commpartners.com/products/next-generation-of-biomedical-and-behavioral-science-researchers-breaking-through-february-19>
- **UNC Women in Science (WinS) Intersectionality Panel Discussion - How to navigate implicit bias in STEM.** (Invited panelist). I participated in this panel after being nominated by the UNC SACNAS chapter. Chapel Hill, NC. 2018
- **Latino BRG “Own your Career and Create your Future”** (Invited panelist). In celebration of Hispanic Heritage month, I participated in a discussion panel on effective leadership, and integration of culture in career development. The Hershey Company. Hershey, PA. 2018.
- **ALPFA 12th Annual Latina Summit “Leveraging the Power of Relationships”** (Invited panelist). I participated in a discussion panel on “How to accelerate women’s inclusion in key fields in Boston: STEM, Healthcare, Finance, Entrepreneurship, and Diversity and Inclusion”. Federal Reserve Bank of Boston. Boston, MA. 2018.
- **Rotary Youth Leadership Awards conference (district 7390), career seminar on “Science and Healthcare”** (Invited presenter). I delivered three presentations to a group of 140 high school students interested in science careers who were participating in a week-long leadership training. Messiah College, Mechanicsburg, PA, 2018.
- **Yale Ciencia Academy virtual panel on “persisting in research careers”** (Invited panelist). I discussed strategies for persistence during the PhD with a group of 40 students (2018)
- **Creating a Community for Women Graduate Students in STEM mentoring program** (Invited panelist). Graduate Center of the City University of New York (CUNY). New York, NY. 2018.
- **APS Minority Travel Fellow Networking Lunch** (Invited panelist). I lead a discussion on “Networking Effectively” at the 2018 Experimental Biology Meeting in San Diego, CA.
- **A Career Full of Science and Community Outreach** (Invited panelist). University of California Santa Barbara, Professional Development Series for Graduate Students and Post-Doctoral Scholars. Santa Barbara, CA. <https://networkscience.igert.ucsb.edu/events/career-panel-career-full-science-and-community-outreach>
- **Perelman School of Medicine Summer Undergraduate Career panel** (Invited panelist). Sponsored by the Office of Research and Diversity Training. University of Pennsylvania, Philadelphia, PA, 2017
- **Graduate Women in Science Mentoring Webinar** (Invited speaker). I hosted an online mentoring session where I interacted with students and postdocs from across the country. The topic of the discussion was **Diversity in Academics**. The session can be viewed online at <https://www.youtube.com/watch?v=uzsU5Yc4izw>. 2017
- **Honorary Speaker.** Graduate Student White Coat Ceremony. Universidad Central del Caribe, Bayamon, PR, 2016.
- **The Eight Annual Chemistry Careers Discussion Panel** (Invited panelist). The Virginia Section of the American Chemical Society Women Chemists Committee. University of Richmond, VA, 2016

- **“Applying for a Summer Research Internship: Advice from a Former Intern and Current Principal Investigator”** (Invited speaker). Franklin and Marshall College. Lancaster, PA, 2016.
- **Diversity Panel** (Invited panelist). Penn State Student National Medical Association Primary Care Day. Penn State College of Medicine, Hershey, PA, 2014
- **“Challenges of a Junior Investigator: Lessons Learned Walking the Path of an Academic Research Career”**. Penn State College of Medicine, Career Day 2013. Hershey, PA, 2013.
- **Graduate Student Acclimation Discussion (GRAD)** Panel Discussion on Time Management (Invited panelist). Penn State College of Medicine, Hershey, PA, 2012
- **“My experience as a Rotary International Ambassadorial Scholar and Science Trainee”**. District 7390 Annual Conference, Rotary Clubs of PA, 2012.
- **“The Penn State Hershey Postdoctoral Society”**. Welcome & Orientation for Postdoctoral Scholars and Fellows. Penn State College of Medicine, 2010-2011.
- **“Tools for teaching Molecular Biology in the High School”**. National Conference of Science and Technology. San Rafael, Mendoza. Argentina, 2008.

UNIVERSITY SERVICE

- IUB School of Public Health (IUB-SPH), Department of Environmental and Occupational Health (EOH) Chair (2023-current)
- IUB School of Public Health (IUB-SPH), Department of Environmental and Occupational Health (EOH) interim Chair (2022-2023)
- Indiana University Bloomington (IUB) academic council (alternate member) (2021-2022)
- IUB-SPH EOH space committee (2021-2022)
- IUB-SPH Associate Dean for Research search committee (2022)
- IUB-SPH EOH Faculty search committee (2021-2022)
- T32 Selection Committee, UNC- Chapel Hill, School of Nursing (UNC-SON) (2020)
- Curriculum Development Committee, UNC-SON (2020)
- Member. Research Support and Consultation Policy Board, UNC-SON (2018-2020)
- Chair. Biobehavioral Lab Advisory Board, UNC-SON (2018-2020)
- Mock reviewer for UNC-SON and student grant proposals (2018-2020)
- Faculty Search Committee, UNC-SON (2018)
- Penn State Faculty Senate Faculty Affairs Committee (2016-2018)
- Penn State Faculty Senate Hershey Campus Representative (2016-2018)
- Reviewer. Community Partnerships to Achieve Health Equity Program grants. Penn State (PSU) College of Medicine, 2017.
- Reviewer. Bond and Bradley postdoctoral awards. PSU College of Medicine, 2017.
- Reviewer. Filkestein Memorial Award research grants. PSU College of Medicine, 2016.
- Reviewer. Children’s Miracle Network. PSU College of Medicine, 2016-2018.
- Interviewer of prospective medical students at PSU College of Medicine, 2012-2015
- Interviewer of prospective grad students at PSU College of Medicine, 2015-2016

ORGANIZATION OF WORKSHOPS

- **Sex, gender, and lung disease: lessons learned from inhalation toxicology studies.** I presented ongoing research at Explore IU, Graduate career workshop. Mexico City, Mexico, October 2024.
- **"ToXXicologyY: The Importance of Incorporating the Sex Variable in Environmental Health Research"** I delivered a talk about careers in toxicology and the importance of sex differences research at Explore IU. Undergraduate career workshop. Mexico City, Mexico, Oct 10-13, 2024.
- **Building a Professional Network of Colleagues.** I led a workshop on effective communication and networking skills to attendees of the SACNAS Chapter Officer Leadership October Retreat (COLOR). October 2023.
- **Graduate School 101.** Workshop for new graduate interns at IUB. August 2023.

- **A toolkit to navigate the STEM academic track.** I presented this workshop to the Tufts University Women in Science and IRACDA program participants, Boston, MA, July 2023.
- **SURE-Tox Career Development series: Abstract Preparation and Scholarship Applications.** I delivered an informative session for summer undergraduate interns at IUB. July 2023.
- **SURE-Tox Career Development series: Imposter Syndrome.** I delivered an informative session for summer undergraduate interns at IUB. June 2023.
- **SURE-Tox Career Development series: Individual Development Plans.** I delivered an informative session on Individual Development Plans for summer undergraduate interns at IUB. June 2023.
- **Integrating Sex and Gender in Nursing Omics Research.** I designed and led a workshop for the International Society of Nurses in Genetics pre-conference event. November 2020.
- **UNC SACNAS IDP workshop.** I designed and led a workshop on Individual Development Plans for URM graduate students and postdocs at UNC. September 2019.
- **2019 Biobuilder workshop.** In collaboration with BioBuilder and UNC-CH, I facilitated the first synthetic biology training for high school teachers in North Carolina. July 2019.
- **Latinas al poder: Tools to successfully navigate the STEM academic track.** I delivered a workshop on career planning, collaborations, and grant funding opportunities for junior Latina STEM faculty. 2018 Latina Researchers Conference. John Jay College of Criminal Justice. New York, NY. August 2018.
- **Tools for Mentoring your Trainees.** I led a workshop on effective use of Individual Development Plans when mentoring graduate students and postdocs who are underrepresented in the sciences. University of California Santa Barbara. April 2018.
- **Project Management in the Academic Research Laboratory.** As part of the networking event series of the Project Management Institute Keystone Chapter, I presented to the Susquehanna Branch on effective strategies to lead and manage a research lab. April 2018.
- **Female Sex and Gender in Lung/Sleep Health and Disease: Increased Understanding of Basic Biological, Pathophysiological and Behavioral Mechanisms Leading to Better Health for Female Patients with Lung Disease.** NHLBI/ORWH/ORDR, National Institutes of Health. I was selected to participate in this special panel organized to discuss new advances in women's lung health. September 2017. Report from the meeting: *Am J Respir Crit Care Med.* 2018 May 10, doi: 10.1164/rccm.201801-0168WS.
- **2017-2018 Biobuilder workshop.** I facilitated the first synthetic biology training for high school teachers in Pennsylvania (August 2017). Due to its success, this training was repeated in July 2018. <http://biobuilder.org/>
- **K-grants workshop series.** I served as a panelist together with other successful K awardees. Penn State College of Medicine. April 2017.

SCIENCE ADVOCACY

- **EPA 2020.** Virtual Public Hearing of the Environmental Protection Agency regarding review of the Ozone National Ambient Air Quality Standards. I delivered an oral statement in this hearing.
- **March for Science 2018.** I represented SACNAS as a speaker and delivered a message on "Air pollution and Environmental Justice" at the March for Science in Los Angeles, California.
- **ATS Hill Day 2017.** I traveled to Capitol Hill to speak with PA representatives about my research and topics related to lung health, with members of the American Thoracic Society advocacy committee.
- **American Lung Association of Pennsylvania.** I visited the Harrisburg Capitol to speak with PA representatives about my research and the impact of tobacco products on lung health. I have also volunteered in the organization of several events for lung health promotion and fundraising programs (Lung Force walk and expo, pasta run, sapphire gala).
- **EUP 2016 STEM Gala.** As the organization's President, I planned the 13th annual gala: "Setting the Pathway of Excellence for Science, Technology, Engineering and Math (STEM)"

- **Visiting the world through the eyes of international women in science: “Science in Argentina”.** GWIS Iota Nu News Bulletin. Vol. 1 August 2013, p.10.

SCIENCE OUTREACH

- **Girls Inc ScienceFest 2025.** My laboratory and I led an activity on lung health. Feb 2025. Girls Inc of Monroe County.
- **The Heart of Cancer: A community conversation about cancer care and prevention.** I presented an overview of cancer basics, diagnosis and treatment, and risk and protection factors. Clinton County Cancer Connection. Frankfort Community Public Library, Feb 2025.
- **Girls Inc ScienceFest 2024.** My laboratory and I led an activity on vaping prevention. Feb 2024. Girls Inc of Monroe County.
- **ExploreLearning case design 2023.** I provided expertise to help create the STEM Case “Smelling in the Rain: Designing Solutions to Improve Air Quality” <https://explorellearning.com/about-us/news/creating-stem-cases>
- **Girls Inc ScienceFest 2023.** My laboratory and I led an activity on lung health and forensic sciences. Feb 2023. Girls Inc of Monroe County.
- **BioBuilderClub mentor 2022.** I served as a virtual mentor for the Montrose School biobuilder club (Medfield, MA) on a synthetic biology project.
- **BioBuilderClub mentor 2021.** I served as a virtual mentor for the Triangle Biobuilder Club / Young Women in Bio (NC) club on a synthetic biology project.
- **Biobuilder – Career conversation with Dr. Patricia Silveyra (2020)** <https://biobuilder.org/career-conversation-with-dr-patricia-silveyra/>
- **Storycollider: Historias de inmigracion de cientificas Latinas** <https://www.storycollider.org/shows/2020/11/18/stories-de-espanol>
- **2020 Virtual Africa Science Buskers Festival.** I delivered a virtual talk: “Decoding the Female Lung: understanding the role of sex hormones in respiratory disease” to over 5000 middle and high school students: <https://www.youtube.com/watch?v=yLK-1bwYOO8>
- **BioBuilderClub mentor 2020.** I served as a virtual mentor for the German Homeschool Biobuilder club (WA), on a synthetic biology project. I assisted high school students on their annual assembly presentation and published a paper in the journal Biotreks. <http://biotreks.org/e202005/>
- **One million women scientists:** <https://www.1mwis.com/profiles/patricia-silveyra>
- **SACNAS High School STEM conference.** I participated in a career panel with 150 high school students from the Oahu island as part of my activities as a board member and organizer of the SACNAS 2019 conference in Honolulu, HI.
- **Junior Achievement 2018 Young Women’s Futures Symposium.** I served as panelist, facilitator, and mentor for a middle school student. Lebanon Valley College, March 2018
- **2017 Biology on design project presentation, Milton Hershey School.** I visited the school to serve as a judge and advisor for the student’s projects on synthetic biology.
- **“La salud de nuestros pulmones / Our lung’s health”, Latino Hispanic American Cultural Center (LHACC).** I presented an overview of lung health and science careers. Harrisburg, PA. August 2016.
- **Women in STEM** podcast. I presented an overview of my research and career path at a radio station in Lancaster, PA: [“Medical researcher and Physician talk to Kara Newhouse”](#)
- **APS Physiology Understanding (PhUn) week (2015-2018).** For 4 consecutive years, I visited a local high school to deliver a science lecture and facilitate a hands-on activity. I also prepared posters with students and teachers to present at the EB meeting.
- **2017** <https://www.townlively.com/students-learn-about-physiology-2/>
- **Junior Achievement Young Women’s Futures Symposium.** I served as a mentor for middle school students interested in science careers. Lebanon Valley College, March 2016

- **GWIS Awards.** As president of the Hershey GWIS chapter, I created awards for outstanding graduate students at Penn State Hershey who showed strong commitment to the advance of women in science <https://gwiskapparho.wordpress.com/announcements/>
- **Capital Area Science and Engineering Fair (CASEF).** I served as a judge for this local science fair between 2010-2018. I have also sponsored the American Physiological Society (APS) science fair award from 2012-2018 <http://www.the-aps.org/mm/Publications/Journals/Physiologist/Archive/2017-Issues/September-2017-Vol-60No-5/Education/APS-Local-and-Regional-Science-Fair-Awards>
- **Capital Area Science and Engineering Fair (CASEF),** I created an award to encourage girls in science with the GWIS Hershey chapter (between 2013-2016, <https://gwiskapparho.wordpress.com/events/>), and one award to honor outstanding Latino students presenting at the Harrisburg local science fair (in 2017 and 2018, <https://www.estamosunidospa.org/news/eup-participates-in-local-science-fair>)

SCIENCE COMMUNICATION

- **“Live: How will science tackle air pollution and carbon emission?” (video interview)** <https://news.cgtn.com/news/2024-10-25/Live-How-will-science-tackle-air-pollution-and-carbon-emission--1xZv7ts032o/p.html>
- **“COVID-19 severity ties to testosterone metabolism” (commentary)** <https://www.drugdiscoverynews.com/covid-19-severity-ties-to-testosterone-metabolism-15797>
- **“Early Onset of Menstruation and Menopause May Increase Risk of Lung Cancer” (commentary)** <https://www.everydayhealth.com/lung-cancer/starting-your-period-and-menopause-early-may-increase-risk-for-lung-cancer/>
- **“World Laureates Forum: China's leading science festival returns on grander scale in Shanghai” (video interview)** <https://news.cgtn.com/news/2023-11-06/VHJhbnNjcmlwdDc1Nzg4/index.html>
- **“How my intersectionality made me a better mentor”** <https://medium.com/stem-and-culture-chronicle/how-my-intersectionality-made-me-a-better-mentor-254f9a7fbffd>
- **“5 truths that will help you quit smoking” (article in Spanish)** <https://www.15minutos.com/especiales/las-5-verdades-que-te-ayudaran-a-dejar-de-fumar/>
- **“From Shy Student to Award-winning Professor - Dr. Silveyra”** <https://www.latinocommunitystage.org/single-post/from-shy-student-to-award-winning-professor-dr-silveyra>
- **Caminos en Ciencia – Sex differences in COVID-19 (interview in Spanish)** https://www.youtube.com/watch?v=spg_qLU_Tsk&feature=youtu.be
- **“How to reach people in remote places-COVID-19”** <https://medium.com/mit-bootcamp-alumni-publication/how-to-reach-people-in-remote-places-covid-19-f9ae96950e1>
- **“The world responds to COVID-19 — perspectives from international leaders”** <https://medium.com/mit-bootcamp-alumni-publication/the-world-responds-to-covid-19-perspectives-from-international-leaders-c845c7b868d9>
- **“COVID-19 and its impact in Men and Women” (article in Spanish)** <https://islanewspr.com/2020/03/30/el-covid-19-y-su-impacto-en-hombres-y-mujeres/>
- **“Stress, respiratory disease, and COVID-19” (article in Spanish)** <https://www.elnuevodia.com/opinion/columnas/elestreslasenfermedadesrespiratoriasyelcovid19-columna-2555665/>
- **“Physicians, Nurses, and Therapists: the situational leaders” (article in Spanish)** <https://www.elnuevodia.com/opinion/columnas/medicosenfermerasysterapistasloslideressituacionales-columna-2557333/>
- **“How the U.S. Must Respond to the COVID-19 Pandemic”, Scientific American, Opinion article.** <https://blogs.scientificamerican.com/observations/how-the-us-must-respond-to-the-covid-19-pandemic/>

- **TV interview – 2019 SACNAS:** https://www.youtube.com/watch?v=_xBlq8rQDu4
- **NASEM feature from SACNAS 2019:** <https://www.newvoicesnasem.org/post/dr-patricia-silveyra-participated-in-the-2019-sacnas-national-diversity-stem-conference>
- **Caminos en Ciencia – podcast:** <https://www.caminosenciencia.org/temporada-2/2019/2/11/episodio-2-patricia-silveyra-phd>
- **Radio interview – march for science:** https://www.youtube.com/watch?v=INzNl_AoMic&feature=youtu.be
- **The Physiologist:** <http://www.the-aps.org/mm/Publications/Journals/Physiologist/Archive/2017-Issues/September-2017-Vol-60No-5/Education/Patricia-Silveyra-Receives-Dale-J-Benos-Early-Career-Professional-Service-Award>
- **“Bringing New Voices into the Sciences”,** Scientific American, Opinion article. <https://blogs.scientificamerican.com/voices/bringing-new-voices-into-the-sciences/>
- **“New Voices: Communication for Diversity and Public Engagement in Sciences, Engineering, and Medicine.”** SAGE Public Understanding of Science Blog. <https://sagepubs.blogspot.com/2019/08/communication--diversity-STEM.html>
- **“New perspectives on science communication”.** I contributed a publication discussing work done by the New Voices in Science, Engineering, and Medicine group: <https://sg.news.yahoo.com/perspectives-science-communication-202757150.html>
- **She+ Geeks Out Unsung Women’s Project blog.** I was interviewed by this organization <https://www.shegeeksoout.com/unsung-womens-project-patricia-silveyra/>
- **Cientifico Latino.** I contributed a publication to their Human Side of STEM section.
- **Biocareers blog.** I contributed two short articles for this online publication: “An organized calendar for an organized mind” , and “Finding a Mentor (and becoming one!)” (my author page: <http://biocareers.com/authors/patricia-silveyra>)
- **GWIS Lead:** “Patricia Silveyra: Argentinian Asthma Researcher Breaks Barriers for Latinas, Extols Benefits of GWIS”

ACTIVITIES FOR PROFESSIONAL DEVELOPMENT AND TRAINING

Teaching Skills Training

- **“Docencia Universitaria en Linea”** (online teaching training course). Universidad de Especialidades Espiritu Santo (virtual training) 2021
- **4th Sex and Gender Health Education Summit—Intersectionality of Sex, Gender, Race, and Social Determinants** (virtual meeting). November 2021.
- **Sex and Gender Health Education Summit: Advancing Curricula through and Interdisciplinary Length.** Salt Lake City, April 8-10, 2018.
- **EdVenture.** Penn State College of Medicine, April 4th, 2017
- **Graduate Education Journal Club Group.** Penn State College of Medicine Office for Scholarship in Learning and Education Research, 2015.
- **Medical Education Scholarship: The Expanding Horizon.** PSU College of Medicine, 2015.
- **Program Evaluation: Learning how to determine whether your course, clerkship, or residency training innovation is "successful.** Penn State College of Medicine, 2015
- **Education Retreat: Curriculum Integration Across the Years.** Penn State COM, 2014
- **Publishing Your Teaching Innovations.** Penn State College of Medicine Office for Scholarship in Learning and Education Research, 2014.
- **Getting Started with Education Scholarship: Asking the Questions and Planning the First Steps.** Penn State COM Office for Scholarship in Learning and Education Research, 2014.
- **American Physiological Society Professional Skills Training “Becoming an Effective Teacher”.** Bar Harbor, ME. June 2014

Grant Writing Training

- National Research Mentoring Network (NRMN) Booster Dose Grantsmanship Workshop, Morehouse School of Medicine, 2018
- National Research Mentoring Network (NRMN) Northwestern University Grant Writing Coaching Workshop P3 program, 2017-2018
- Grants Academy. Penn State College of Medicine, 2014-2015.
- Writing a Successful K application workshop. Penn State College of Medicine, 2014.
- ASCB Minority Affairs Committee Grant Writing Workshop. American Society for Cell Biology Annual Meeting. New Orleans, LA. December 2013
- ASBMB Grant Writing Workshop for New and Early Career Faculty. American Society for Biochemistry and Molecular Biology. Arlington, VA. August 2013

Diversity/Leadership Training

- Ignite. Latino leadership development program. Latino Leadership Institute, January 2025.
- Association of Chairs of Departments of Physiology (ACDP) 2024 retreat on Sustainability. Guanacaste, Costa Rica, December 2024
- Renew America Together, Civility Leadership Institute. Little Rock, AR. July 2022
- Alan Alda Center Women in STEM Leadership Program (WiSLP), virtual training, April/May 2022.
- Selected for the ULEAD University Leadership Education and Development (ULEAD) 2020 cohort, The University of North Carolina at Chapel Hill.
- “Working as a High Performing Team”. UNC Chapel Hill, Office of Human Resources Organization and Professional Development Team, May 2020.
- TEAM ADVANCE Faculty Mentor Training series. Targeting Equity in Access to Mentoring. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. January-May 2020
- Leadership Advanced series: “Mentoring and Coaching”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. Chapel Hill, NC. May 2019
- Encouraging Equity and Inclusion Through Multiple Stage Mentorship. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. Chapel Hill, NC. April 2019
- Faculty Professional and Leadership Skills Development series: “Creating and Inspiring a Vision”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. March 2019
- Faculty Professional and Leadership Skills Development series: “Fostering Collaboration”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. March 2019
- Faculty Professional and Leadership Skills Development series: “Managing Conflict”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. Chapel Hill, NC. February 2019
- Leadership Advanced series: “MBTI Advanced Applications”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. Chapel Hill, NC. January 2019
- Faculty Professional and Leadership Skills Development series: “Leading Change”. The University of North Carolina at Chapel Hill, Center for Faculty Excellence. Chapel Hill, NC. November 2018
- 5th Annual Senior Leadership Diversity Workshop “Embrace Civility”. Penn State College of Medicine, Hershey, PA. September 2015
- Campus Council on Diversity Strategic Planning Retreat. Hershey, PA. March 2015
- 2nd Annual Diversity Practicum “Louder than Words-Action”. Penn State College of Medicine, Hershey, PA. February 2015
- 4th Annual Senior Leadership Diversity Workshop “Times Are Changing”. Penn State College of Medicine, Hershey, PA. September 2014
- Medical Interpreter Training. Pennsylvania Department of Health. March 2014
- 1st Annual Diversity Practicum “Difficult Conversations-Practical Solutions”. Penn State College of Medicine, Hershey, PA. February 2014

- 3rd Annual Senior Leadership Diversity Workshop “Diversity is Good Business”. Penn State College of Medicine, Hershey, PA. October 2013

Bioinformatics Training

- “Biological Data Analysis: The Right Way”. Sponsored by the Computation, Bioinformatics and Statistics (CBIOS) Training Program and NIH. Penn State University, June 6-10, 2016.
- Graduate Certificate in Applied Bioinformatics. Penn State World Campus, June 2016.
- BIOBASE training. Temple University School of Medicine. Philadelphia, PA, 2014
- Center for Medical Genomics Retreat. Penn State College of Medicine, Hershey, PA, 2014
- Data Management in Biomedical Research. Information Challenges and Practical Strategies. Penn State College of Medicine. March 2013.
- Practical Bioinformatics course. Penn State College of Medicine. Hershey, PA, 2011

Professional Development Training

- MIT Bootcamps Impact Lab pilot. July-August 2020.
- MIT-HMS Healthcare Innovation Bootcamp. Boston, MA. June 2019
- UNC Business Skills for Core Directors and Managers Workshop. May 2019
- UNC Chancellor’s Faculty Entrepreneurship Workshop “The Entrepreneurial Mindset: Maximizing Faculty Impact.” May 2019
- National Center for Faculty Development and Diversity Faculty Success Program. January-April 2019
- Howard Hughes Medical Institute (HHMI) – National Institutes of Health (NIH) CSR Mock Review Training Course. Chevy Chase, MD, January 2018.
- Biobuilder Professional Development Workshop. Rockefeller University, 2017.
- SACNAS Advanced Leadership Institute. Howard Hughes Medical Institute, July 2017.
- SACNAS Summer Leadership Institute. American Association for the Advancement of Science (AAAS), Washington, DC, July 18-22, 2016.
- Writing, Procrastination, and Resistance: How to Identify your Writing Blocks and Move Through. STEM-UP PA. Dixon University, Harrisburg, PA. March 2015
- Coaching Strong Women in the Art of Strategic Performance. Los Angeles, CA, 2014.
- Junior Faculty Development Program. Penn State College of Medicine 2013- 2014
- Research Ethics for Clinical Investigators. PHS 500 Graduate Course (1 credit). The Graduate School at Penn State University. Fall Semester 2013.
- OASIS 2013: Objective Analysis of Self and Institution Seminar. STEM-UP PA. Dixon University, Harrisburg, PA. April 2013
- The Academic Development and Career Advancement of Underrepresented Faculty. Penn State University, State College, PA, August 2012
- ASCB Minority Affairs Committee 7th Annual Junior Faculty and Postdoctoral Fellows Career Development Workshop. San Antonio, TX. June 2012

LANGUAGE PROFICIENCY

- **Spanish.** Native. Certified Medical Interpreter.
- **English.** Fluent professional proficiency.
- **Portuguese.** Advanced professional proficiency. Certified Medical Interpreter.
- **French.** Advanced professional proficiency.

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