

RESUME
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

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 Bloomington - <http://silveyralab.com>

Education & degrees obtained:

Degree	Institution & Location	Dates	Field
Graduate Certificate	Pennsylvania State University, World Campus	2015 -2016	Applied Bioinformatics
Ph.D., <i>Summa cum laude</i>	University of Buenos Aires (UBA), Argentina	2003 - 2009	Biological Chemistry
B.S., M.Sc., <i>Magna cum laude</i>	UBA, Argentina	1999 - 2002	Biological Sciences

Employment history:

Institution	Position/Rank (dates)
Indiana University School of Public Health Bloomington, Department of Environmental and Occupational Health, Bloomington, IN	Professor and Chair (2023-current) Interim Chair (2022-2023) Associate Professor (2021-2023)
Indiana University School of Medicine, Department of Medicine, Indianapolis, IN	Adjunct Professor in Medicine (2022-current)
University of North Carolina at Chapel Hill, School of Nursing, Chapel Hill, NC	Associate Professor and Beerstecher-Blackwell Distinguished Term Scholar, and Director of the Biobehavioral Laboratory (2018 - 2020)
Pennsylvania State University College of Medicine, Hershey, PA	Adjunct Associate Professor of Pediatrics (2018 - 2022) Associate Professor (2018) Interim Director for Diversity and Inclusion in Education (2015-2016) Assistant Professor of Pediatrics, Biochemistry and Molecular Biology, and Humanities (2013 – 2018) Research Associate (2011-2012) Post-doctoral Research Fellow (2008-2011)

Selected Awards:

2025 Girls Inc of Monroe County "SMART" Award
2025 Inducted Member, Delta Omega Honorary Society in Public Health, Gamma Beta Chapter
2023 Indiana University Latino Faculty and Staff Council "Outstanding Faculty Award"

2023 Indiana University School of Public Health-Bloomington's Outstanding Senior Researcher Award
 2023 American Physiological Society (APS), A. Clifford Barger Underrepresented Minority Mentorship Award
 2022 Indiana University School of Public Health-Bloomington's Distinguished Service Award
 2022 Fellow of the American Thoracic Society
 2022 Anthony D. Pantaleoni Eminent Scholar, Indiana University School of Public Health-Bloomington
 2020 SACNAS Outstanding Research and Professional Mentor
 2019 University of North Carolina at Chapel Hill Junior Faculty Development Award
 2018 APS Respiration Section New Investigator Award
 2017 Penn State College of Medicine (PSCOM) Distinguished Early-Stage Investigator Award
 2017 PSCOM Inspired Together Community Award
 2017 APS Dale J. Benos Early Career Professional Service Award
 2017 The Extra Mile Award, Leadership Harrisburg Area
 2017 APS Respiration Section Outstanding Trainee Award
 2017 All In at Penn State: An Achievement Award for Commitment to Diversity and Inclusion
 2016 Hershey Rotary Club Community Service Award
 2016 YWCA "Tribute to Women of Excellence" Award
 2014 Penn State Commission for Women Faculty "Achieving Women Award"
 2008 The Rotary Foundation Academic-Year Ambassadorial Scholarship

Selected Grants & Research Support (ongoing):

- NIH R01 HL159764 Silveyra (PI) 07/01/21-06/30/25 (NCE 06/30/26)
Gonadal hormones as mediators of sex and gender influences in asthma
- NIH R01 ES035694 Commodore (PI) - Silveyra (Co-I) 01/13/25-02/26/28
ENDS aerosol particle deposition, in utero exposures and children's respiratory health effects (ENDURE)
- NIH R01 NS137276 Kawata (PI) - Silveyra (Co-I) 06/01/24-05/31/29
A mechanistic clinical trial of omega-3 fatty acids to prevent subconcussive neural injury

Selected memberships & leadership roles in professional organizations and centers (ongoing):

- Board Member, American Lung Association of Indiana (2025-current)
- Advisory Committee, New Voices in Sciences, Engineering and Medicine. National Academies of Science, Engineering and Medicine (NASEM) (2023-current)
- SACATM/NIH, Scientific Advisory Committee on Alternative Toxicological Methods (2023-current)
- Society of Toxicology Inhalation and Respiratory Specialty Section (IRSS) Vice president elect (2025- current)
- SACNAS, Indiana University Professional Chapter Treasurer (2025-current)
- SACNAS student presentations committee member (2023-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)
- American Chemical Society (ACS) IGEN Chemistry Advisory Board Member (2018-current)

Selected mentoring programs:

- **FASEB LEAD**, Leadership Engagement and Appreciation of Differences. This reverse-mentoring program pairs senior-level professionals with junior-level mentors to gain different perspectives (2023-2025)
- **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 mentor for two refugee researchers from Yemen and Nigeria (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; Phoenix, AZ 2024

Mentoring history:

Current trainees (2025)	3 postdoctoral fellows, 2 PhD students, 11 undergraduate students, 5 junior faculty
Former trainees (since 2013)	2 postdoctoral fellows, 3 PhD students, 3 master's students, 4 medical students, 6 postbacs, 6 medical residents/fellows, 6 international medical graduates, 46 undergraduate students, 8 high school students, 3 junior faculty
Trainee committees	14 PhD student committees, 2 MS student committees, 2 fellowship committees

Peer-reviewed articles (10 most recent out of 87 total):

- **Silveyra P. Sex differences in obstructive lung disease.** Accepted, European Medical Journal, October 2025
- Allen KB, Rousselle D, Aston C, Colón Montañez K, **Silveyra P**, Chen W, Eckert J, Siatkowski M, Vitiello P, Bhatti F. **Surfactant proteins A and D nucleotide variants: association with retinal vascular disease.** *Pediatr Res* (2025), doi: 10.1038/s41390-025-04435-w
- **Silveyra P**, Babayev M, Ekpruke CD. **Sex, hormones, and lung health.** *Physiol Rev.* 2026 Jan 1;106(1):53-86, doi: 10.1152/physrev.00026.2024.
- Li S, **Silveyra P**, Hu B, Fakhry B, Kim HJ, Attaway A, Zein JG. **Menopause is not associated with asthma or severe asthma.** *J Allergy Clin Immunol Pract.* 2025 Aug 22:S2213-2198(25)00815-3. doi: 10.1016/j.jaip.2025.08.014.
- Lingappan K, Sundar IK, Prakash YS, Redente EF, Sin DD, Han MK, Lahm T, Krymskaya VP, Kotton DN, Kulkarni HS, Jain R, Königshoff M, Eghbali M, Anguera M, Arnold A, **Silveyra P**, DeMeo DL. **Addressing Sex as a Biological Variable in Preclinical Models of Lung Disease: An Official American Thoracic Society Research Statement.** *Am J Respir Crit Care Med.* 2025 Aug;211(8):1346-1368. doi: 10.1164/rccm.202506-1361ST
- **Silveyra P. "Scripts" Don't Lie: Sex and Age Shape Blood Immune Gene Expression in Asthma.** *Am J Respir Cell Mol Biol.* 2025 Jul 2. doi: 10.1165/rcmb.2025-0371ED. Epub ahead of print.
- Beauregard LH, Bazarian JJ, Johnson BD, Cheng H, Ellis G, Kronenberger W, Calder PC, Chen Z, **Silveyra P**, Quinn PD, Newman SD, Mickleborough TD, Kawata K. **Investigating omega-3 fatty acids' neuroprotective effects in repetitive subconcussive neural injury: Study protocol for a randomized placebo-controlled trial.** *PLoS One.* 2025 Apr 24;20(4):e0321808. doi: 10.1371/journal.pone.0321808.
- 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.** *Int. J. Mol. Sci.* 2025, 26(7), 3046, doi:10.3390/ijms26073046
- 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
- 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 RZ, Hughes AC, Wolfram J. **A call to action to address escalating global threats to academic research.** *Innovation (Camb).* 2025 Jan 4;6(4):100758. doi: 10.1016/j.xinn.2024.100758.

Book Chapters (5 most recent out of 9 total):

- Rebuli ME, Rousselle D, Dinwiddie L, **Silveyra P. Sex Differences in Lung Responses to Challenge.** In: McQueen, Charlene A. (ed.) *Comprehensive Toxicology*, 4th Edition, vol. 9, pp. 245-262. London: Elsevier, doi: 10.1016/B978-0-323-95488-4.00171-6 © 2026
- Gonzalez Perez Y, **Silveyra P. Asthma-COPD overlap: focus on sex differences.** In "Asthma - Diagnosis, Management and Comorbidities" Edited by Öner Özdemir; in *Asthma - Diagnosis, Management and Comorbidities*. IntechOpen; doi:10.5772/intechopen.1011815 © 2025
- Babayev M, **Silveyra P. Role of non-coding RNAs in lung cancer.** In "Recent Advances in Non-Coding RNAs", ISBN 978-1-80356-015-1. Edited by Lütü Tutar; DOI: 10.5772/intechopen.107930 © 2022
- **Silveyra P**, Fuentes N, Rodriguez Bauza D. **Sex and Gender Differences in Lung Disease.** 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
- **Silveyra P**, Al Housseiny H, Rebuli ME. **Sex and Gender Differences in the Susceptibility to Environmental Exposures.** In: *Sex-Based Differences in Lung Physiology*. 2021 Mar 19:251–90, doi: 10.1007/978-3-030-63549-7_9. PMID: PMC7972103. © 2021