Lucia Peixoto, Ph.D.
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Education

Clinical Internship. The Center for Autism Research.
Children's Hospital of Philadelphia, Philadelphia PA.
Advisor: Robert Schultz, PhD. 2013-2014

Trainee. Neurodevelopmental Disabilities Training Program
Children's Hospital of Philadelphia, Philadelphia PA.
Advisor: Michael B. Robinson, PhD. 2010-2013

Postdoctoral Fellowship in Neuroscience.
Department of Biology. University of Pennsylvania. Philadelphia, PA.
Advisor: Ted Abel, PhD. 2010-2015

PhD in Biology.
University of Pennsylvania. Philadelphia, PA, USA.
Advisor: David S. Roos PhD 2003-2009

BSc in Biochemistry.
Universidad de la Republica, Montevideo, Uruguay.
Advisors: Hector Musto and Susana Castro-Sowinski. 1997-2002

Current Position(s)

Associate Professor (with tenure). 2023-present
Department of Translational Medicine and Physiology.
Elson S. Floyd College of Medicine.
Washington State University.
Spokane, WA.

Core Faculty Member. Sleep and Performance Research Center. 2018-present
Washington State University.
Spokane, WA.

Member. Center for Reproductive Biology. 2019-present
Washington State University.
Pullman, WA.

Member. Neuroscience Graduate Group. 2016-present
Washington State University.

Member. School of Molecular Biosciences (SMB) Graduate Group. 2019-present

Washington State University.

Academic Appointments

Associate Professor (with tenure). 2023-present
Department of Translational Medicine and Physiology.
Elson S. Floyd College of Medicine.
Washington State University.
Spokane, WA.

Assistant Professor.
Department of Translational Medicine and Physiology.
Elson S. Floyd College of Medicine.
Washington State University.
Spokane, WA. 2015 - 2023

Other Positions and Experience

Graduate Teaching Assistant.
Department of Biology, University of Pennsylvania.
Philadelphia, PA. 2003-2005

Undergraduate Intern.
Laboratory of Dr. David Roos.
Department of Biology, University of Pennsylvania.
Philadelphia, PA. Spring 2003

Research Technician.
Departamento de Bioquimica.
Instituto de Investigaciones Biológicas Clemente Estable (IIBCE).
Montevideo, Uruguay. 2002-2003

Undergraduate Research Assistant.
Laboratorio de Organización y Evolución del Genoma.
Facultad de Ciencias, Universidad de la República.
Montevideo, Uruguay. 2002-2003

Undergraduate Research Assistant.
Departamento de Bioquimica.
Instituto de Investigaciones Biológicas Clemente Estable (IIBCE).
Montevideo, Uruguay. 1999-2001

Professional Memberships and Activities

Member, Psychiatric Research Society (PRS) 2022-present.
Member, Sleep Research Society (SRS). 2022-present.
Service to SRS

- Abstract and Session Proposal Reviewer for SLEEP2025 (December 2024)

Member, International Society for Autism Research (INSAR). 2014-present.

Service to INSAR:

- Abstract Reviewer. International Meeting for Autism Research (IMFAR) 2017. May 10th-13th, San Francisco, California, USA.
- Abstract Reviewer. International Society for Autism Research (INSAR) Annual Meeting. May 1st-4th, 2019. Montreal, Canada.
- Abstract Reviewer. International Society for Autism Research (INSAR) Annual Meeting. May 6th -9th, 2020. Seattle, USA.
- Abstract Reviewer. International Society for Autism Research (INSAR) Annual Meeting. May 5th -8th, 2021. Boston, USA.
- Invited Panel Chair. International Society for Autism Research (INSAR) Annual Meeting. May 11th - 14th, 2022. Austin, USA.

Member, Society for Neuroscience (SfN). 2011-Present.
Member, International Society for Computational Biology (ISCB). 2007-Present

Service to ISCB:

- Chair, 4th Student Council Symposium, 16th International Conference Intelligent Systems for Molecular Biology (ISMB) Conference, July 18th 2008, Toronto, Canada.
- Chair, 5th Student Council Symposium, 17th I International Conference Intelligent Systems for Molecular Biology (ISMB) conference and 8th European Conference in Computational Biology (ECCB), June 27th 2009, Stockholm, Sweden.
- Student Representative to the Board of Directors of the International Society for Computational Biology (ISCB). January 2009-January 2010.
- Chair. Organizing Committee. 1st Conference of the International Society for Computational Biology in Latin America (ISCB-LA). March 13th-16th 2010 Montevideo. Uruguay
- Organizer, “Career Development for Women in Science” special interest session. 22nd Annual International Conference Intelligent Systems for Molecular Biology (ISMB), July 15th 2014, Boston, USA.
- Travel fellowship review committee member, 23nd Intelligent Systems for Molecular Biology (ISMB) conference and 14th European Conference on Computational Biology (ECCB). July 2015, Dublin Ireland.
- Member. Scientific Committee. Ibero-american Society for Bioinformatics (SOIBIO) International Conference 2016 on "Bioinformatics and Computational Biology for Innovative Genomics". An affiliated ISCB conference. April 22-26th Riviera Maya, Mexico.
- Travel fellowship committee co-chair, 24nd Intelligent Systems for Molecular Biology (ISMB) conference. July 2016, Orlando, FL USA.
- Chair. Junior Principal Investigator (JPI) Community of Special Interest (COSI) of the International Society for Computational Biology (ISCB). 2016-2019.
- Travel fellowship committee Chair, 25th Intelligent Systems for Molecular Biology (ISMB) conference and 16th European Conference on Computational Biology (ECCB). July 2017, Prague, Czech Republic.
- Organizer. Junior PI (JPI) Career Development Round Table: "On Leadership and Management". 25th Intelligent Systems for Molecular Biology (ISMB) conference and 16th European Conference on Computational Biology (ECCB). July 22nd 2017. Prague, Czech Republic.
- Organizer. Junior PI (JPI) Career Development Round Table: "Becoming a Leader in the Open Data Movement". 25th Intelligent Systems for Molecular Biology (ISMB) conference and 16th European Conference on Computational Biology (ECCB). July 24nd 2017. Prague, Czech Republic.
- Travel fellowship committee Chair, 26th Intelligent Systems for Molecular Biology (ISMB) Conference. July 2018, Chicago, IL USA.

- Organizer. Junior PI (JPI) Career Development Round Table: "On Leadership and Management: focus on mentorship". 26th Intelligent Systems for Molecular Biology (ISMB) Conference. July 7th 2018. Chicago, IL USA.
- Organizer. Junior PI (JPI) Career Development Round Table: "Funding opportunities for Early Career Researchers. Meet NSF and NIH Program Officers". 26th Intelligent Systems for Molecular Biology (ISMB) Conference. July 9th 2018. Chicago, IL USA.
- Abstract Reviewer. 4th Conference of the International Society for Computational Biology in Latin America (ISCB-LA) and the Ibero-american Society for Bioinformatics (SOIBIO) EMBnet 2018. Nov 5th-9th, 2018. Viña del Mar, Chile.
- Chair, Travel fellowship committee of the 27th Intelligent Systems for Molecular Biology (ISMB) Conference. July 2019. Basel, Switzerland.
- Organizer. Discussion of the ISCB Code of conduct. 27th Intelligent Systems for Molecular Biology (ISMB) Conference. July 23rd 2019. Basel, Switzerland.
- Co-Chair. Equity, Diversity and Inclusion committee of the International Society for Computational Biology (ISCB). July 2019-present.
- Chair, Travel fellowship committee of the 28th Intelligent Systems for Molecular Biology (ISMB) Virtual Conference. July 2020.
- Elected member. Board of Directors of the International Society for Computational Biology (ISCB). January 2022-December 2024.

Editorial Appointments and Service.

- Associate editor. Journal of Neuroscience Research. 2018-Present
- Statistical Editor. SLEEP. 2018-Present
- Guest Editor. Special Issue on Development of Sleep and Circadian Rhythms.
  Neurobiology of Sleep and Circadian Rhythms 2022-2024
  https://www.sciencedirect.com/journal/neurobiology-of-sleep-and-circadian-rhythms/special-issue/104XDGS6DRB

Journal Referee service

Manuscript reviews for Journals:
Behavioral Brain Research. 2015-2018
Plos Computational Biology. 2015-2021
BMC genomics. 2016-2018
SLEEP. 2018-2025
Biological Psychiatry. 2018-2022
Journal of Neuroscience Research. 2018-2023
Review Journal of Autism and Developmental Disorders. 2019
Nature Methods. 2019
Nature Communications. 2019
Molecular Psychiatry, 2021-2022.
Neurobiology of Sleep and Circadian Rhythms, 2020-2024.
Journal of Neuroscience, 2020-2023.
Neuropsychopharmacology, 2022.
Brain and Behavior, 2022-2023.
PNAS, 2023-2024.
eNeuro, 2024-2025.

Grant Review Panels Appointments and Service.

- Swiss National Science Foundation (SNSF), ad hoc reviewer. September 2015.
- National Institutes of Health Peer Review Committee: Genomics, Computational Biology and Technology (GCAT) study section, ad hoc reviewer. January-February 2020.
- Israel Science Foundation, ad hoc reviewer. March 2020.
- National Institutes of Health Peer Review Committee: NIMH K99/R00 pathway to independence awards, ad hoc reviewer. March 2021.
- National Institutes of Health Peer Review Committee. NINDS Neurological Sciences Training Initial Review Group 1 (NST-2) study section, ad hoc reviewer. June 2021.
- National Institutes of Health Peer Review Committee. NINDS Neurological Sciences Training Initial Review Group 1 (NST-2) study section, ad hoc reviewer. February 2022.
- National Institutes of Health Peer Review Committee. NIMH BRAIN Initiative: *Development and Validation of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in the Brain* (R01) RFA-MH-21-175, special emphasis panel, ad hoc reviewer. March 2022.
- National Institutes of Health Peer Review Committee. Special Emphasis Panel, ZRG1 IFCN-S (02), Member Conflicts in Neuroscience. ad hoc reviewer. June 2022.
- Swiss National Science Foundation (SNSF), ad hoc reviewer. June 2022.
- National Institutes of Health Peer Review Committee. NINDS Neurological Sciences Training Initial Review Group 1 (NST-2) study section, ad hoc reviewer. October 2022.
- National Institutes of Health Peer Review Committee. Special Emphasis Panel, ZRG1 IFCN-S (02), Member Conflicts in Neuroscience. ad hoc reviewer. November 2022.
- National Institutes of Health Peer Review Committee. NINDS Neurological Sciences Training Initial Review Group 1 (NST-2) study section, ad hoc reviewer. February 2023.
- UK Research and Innovation, Biotechnology and Biological Sciences Research Council (BBSRC), ad hoc reviewer. June 2023.
- Swiss National Science Foundation (SNSF), ad hoc reviewer. July 2023.
- National Institutes of Health Peer Review Committee. Special Emphasis Panel/Scientific Review Group 2023/10 ZNS1 SRB-P (11) R, ad hoc reviewer. July 2023.
- National Institutes of Health Peer Review Committee. NINDS Neurological Sciences Training Initial Review Group 1 (NST-2) study section, **standing member**. October 2023- June 2025.
- Swiss National Science Foundation (SNSF), ad hoc reviewer. July 2024.

University Committee Assignments and Service

External member ESFCOM
Faculty Rank Promotion and Tenure Committee — September 2024

External member ESFCOM
Faculty Rank Promotion and Tenure Committee — September 2023

Co-lead. Research Pilar Working Group.
Strategic Planning Steering Committee
Elson S. Floyd College of Medicine.
Washington State University, Spokane. — April 2023-April 2024

Seminar series coordinator.
Department of Translational Medicine and Physiology.

Elson S. Floyd College of Medicine.
Washington State University, Spokane. September 2019-Present

Standing member. Equity Committee.
Elson S. Floyd College of Medicine.
Washington State University, Spokane. April 2018- Present

Member. Group on Women in Medicine and Science (GWIMS)
Elson S. Floyd College of Medicine.
Washington State University, Spokane. April 2017- Present

Member. Foundational Sciences Subcommittee.
Curriculum Committee.
Elson S. Floyd College of Medicine.
Washington State University, Spokane. March 2016- Present

Member, Sequencing Technology Task Force September 2019-February 2020
Health Sciences Campus
Washington State University, Spokane.

Chair. Biomedical Sciences Symposium of the Elson S.
Floyd College of Medicine. Spokane Convention Center. August 19th, 2019

Genomics Technology Advisory Committee to the Provost
Washington State University, Pullman, WA. December 2018-May 2019

Lead. Precision medicine Project Workgroup.
Curriculum Committee.
Elson S. Floyd College of Medicine.
Washington State University, Spokane. March 2017- November 2017

Standing member. Curriculum Committee.
Elson S. Floyd College of Medicine.
Washington State University, Spokane. March 2016- November 2017

Faculty Advisor. High Performance Research Computing.
Washington State University, Spokane. April 2016-2022

Faculty Advisor. Genomics Core.
Washington State University, Spokane. April 2015-Present.

External Assignments and Service

Member, External Advisory Board (EAB). June 2023-Present
Autism Center of Excellence for Sleep in Autism Spectrum Disorders.
Stanford University School of Medicine.

Educational Activities

Course and Curriculum Development

- Case writer. Foundation of Medical Sciences (FMS) Courses. FMS501, FMS502 and FMS503. MD degree. Elson S Floyd College of Medicine. WSU Spokane. 2016-2017.
- Content Expert, Genetics and Genomics. Foundation of Medical Sciences (FMS) Courses. FMS501, FMS502 and FMS503. MD degree. Elson S Floyd College of Medicine. WSU Spokane. 2016- 2020.

Short course/Workshop development and instruction

- Instructor and Organizer. Workshop on Career Development for Junior Principal Investigators at the 16th Intelligent Systems for Molecular Biology (ISMB)conference. July 10th, 2016. Orlando, FL USA.
- Instructor and Organizer. Working with Pathogen Genomes Workshop. Post-meeting workshop of the Conference of the International Society for Computational Biology in Latin America (ISCB-LA) 2010. March 16th-19th 2010 Montevideo. Uruguay.
- Speaker and Instructor. Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging: A Focus on Genetics and Genomics Conference (1R13AG072861-01). The Jackson Laboratories. Bar Harbor, Maine. October 24-28th, 2021.
- Speaker and Instructor. Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging: A Focus on Genetics and Genomics Conference (1R13AG072861-01). The Jackson Laboratories. Bar Harbor, Maine. October 17-21st, 2022.
- Co-chair. NIH/NHLBI. Neurodevelopmental Disorders and Sleep Workshop. May 15-16. 2025. https://www.nhlbi.nih.gov/events/2025/neurodevelopmental-disorders-and-sleep-workshop

Didactic Sessions

- Guest lecturer, BIOL476, Department of Biology, University of Pennsylvania. USA. 2008-2010.
- Lecturer. “Data acquisition and laboratory tools; management, sharing and ownership”. Training in Responsible Conduct of Research. WSU Spokane. February 13th, 2019.
- Lecturer. “Data acquisition and laboratory tools; management, sharing and ownership”. Training in Responsible Conduct of Research. WSU Spokane. December 18th, 2019.
- Case Based Learning Facilitator (FMS511). Fall 2020-present.
- Instructor. Deconstruction of Research (NEUROSCI 563). Fall 2020.
- WSU Elson S. Floyd College of Medicine, MD Program Scholarly Projects Reviewer. 2021-2024.
- Foundations of Scholarship and Discovery Facilitator (MEDSCHLR500). Spring 2022, Spring 2023. Spring 2024.

Laboratory Teaching

- Teaching Assistant Department of Biology, University of Pennsylvania. USA. Courses: BIOL101, BIOL122, BIOL121, BIOL536. 2003-2005

Graduate Student Committees

- Xialou Zhu. Pharmaceutical Sciences PhD Candidate. College of Pharmacy. WSU. Thesis committee member. September 2017-April 2021.
- Dominika Vojtasova. Humboldt University PhD candidate (Berlin, Germany). Thesis committee member. Co-mentor. January 2022-present.
- Qualifying exam committee member for the WSU Graduate Program in Neuroscience. Spring 2021.

Advising and mentoring responsibilities

Undergraduate Students

- Taylor Wintler. Gonzaga University. Spokane WA, USA.
  Undergraduate summer research internship mentor. Summer 2016
  Senior Research Concentration supervisor. Fall 2016-Spring 2017.
  Currently: Medical Student at the Elson S. Floyd College of Medicine, Washington State University.
- Natalie Lenberger. Georgetown College. Georgetown KY, USA.
  Georgetown College Program to Accelerate Learning in the Sciences (GCPALS), HHMI-funded undergraduate research program. Undergraduate summer research internship mentor. Summer 2017.
- Kaitlyn Ford. Gonzaga University. Spokane WA, USA.
  Undergraduate summer research internship mentor. Summer 2019.
  Research Mentor 2019-2021.
- Alexander Popescu. Yale University. New Haven CT.
  Undergraduate summer research internship mentor. June-August 2023.

Post-Baccalaureate trainees

- John N. Koberstein. Research Assistant. Washington State University.
  December 2015-August 2016.
  Currently: PhD candidate. Neuroscience Graduate Program. OHSU.
- Elizabeth Medina. Research Assistant. Washington State University. July 2018-July 2019.
  Currently: PhD candidate. Neuroscience Graduate Program. WSU.
- Kaitlyn Ford. Research Assistant. Washington State University. June 2021-July 2024.
  Currently: Research Assistant. Seattle's Children's Research Institute.

Medical Students

- Taylor Wintler. MD class of 2022. Elson S. Floyd College of Medicine, Washington State University. MD degree Capstone/Scholarly Project Supervisor. January 2018-June 2021. Currently: matched for residency at Seattle's Children's Hospital.
- Sarah Peterson. MD class of 2024. Elson S. Floyd College of Medicine, Washington State University. MD degree Capstone/Scholarly Project Supervisor. January 2020-June 2023.
- Ali Vyhmeister (Brandt). MD class of 2025. Elson S. Floyd College of Medicine, Washington State University. MD degree Capstone/Scholarly Project Supervisor. August 2022-July 2024.
- Andee Croteau. MD class of 2027. Elson S. Floyd College of Medicine, Washington State University. MD degree Capstone/Scholarly Project Supervisor. May 2024-present.

Graduate Students

- Elizabeth Medina. PhD candidate. Neuroscience Graduate Program. Washington State University. August 2019-Present.
  - Date of qualifying exam: 05/2021
  - Date of preliminary exam: 1/27/2022
  - Anticipated graduation date: 05/2024
  - Cumulative GPA: 3.75
  - NINDS F99/K00 awardee (mentor: Peixoto L., co-mentor Frank M.G.)
- Caitlin Ottaway. PhD candidate. Neuroscience Graduate program. Washington State University. March 2024-present
  - Cumulative GPA: 4.0
  - NIH/NIGMS Research supplement to Promote Diversity in Health-Related Research recipient.
- Elliot Wald. PhD candidate. Neuroscience Graduate program. Washington State University. March 2025-present

Graduate Rotation students
- Erika English. School of Molecular Biosciences Graduate Program. Washington State University. August-October 2019.
- Caitlin Ottaway. PhD candidate. Neuroscience Graduate program. Washington State University. January-March 2024.
- Elliot Wald. PhD candidate. Neuroscience Graduate program. Washington State University. January-March 2025.

Postdoctoral Fellows
- Hannah Schoch, PhD. Washington State University. Postdoctoral fellowship mentor. August 2017-June 2021.
- Leandro Roser, PhD. Washington State University. Postdoctoral fellowship mentor. March 2018-March 2019.

Volunteers
- Alexander Popescu. North Central High School (12th grade), Spokane. June 2021-August 2022.
- Jill Doornik. High School Science Teacher. September 2024-present.

Honors and Awards

ADVANCE at WSU Grant Recipient 2025.

WSU Elson S. Floyd College of Medicine Honoring Mentorship/Sponsorship Award, 2025

2025 Class of Fellows, International Society for Computational Biology (ISCB).

International Society for Computational Biology (ISCB), 2025 Outstanding Contributions to ISCB Award

WSU Elson S. Floyd College of Medicine Outstanding Contribution to Research Award, 2023

ADVANCE at WSU Grant Recipient 2022.

Justice, Equity, Diversity, and Inclusion (JEDI) Award from the Life Science Editors Foundation. February 10th, 2021.

WSU College of Medicine Dean award to participate in the American Academy of Medical Colleges (AAMC) Early Career Women Faculty Leadership Development Seminar (competitive application required). San Diego, CA. February 1st-5th, 2019.

ADVANCE at WSU Grant Recipient 2016.

Gift award from the Washington Research Foundation. July 1st, 2016.

Award to participate in the National Institute of Neurological Disorders and Stroke (NINDS) Grant Writing Workshop for Diverse Researchers. Bethesda, MD, USA. July 21-22, 2014.

Federation of American Societies for Experimental Biology (FASEB) Minority Access for Research Careers (MARC) Program Travel Award to attend the 22nd Annual International Conference Intelligent Systems for Molecular Biology (ISMB). Boston, MA, USA. July 11-15th, 2014.

Award to participate in the 4th annual National Institute of Child Health and Development (NICHD) Interdisciplinary Training Conference in Developmental Disabilities at the 46th Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities. San Antonio, TX, USA. March 5, 2013.

International Society for Computational Biology (ISCB) Travel award to attend the 20th Annual International Conference Intelligent Systems for Molecular Biology (ISMB). Long Beach CA, USA. July 15th-17th 2012.

International Society for Computational Biology (ISCB) Travel award to attend the 18th Annual International Conference Intelligent Systems for Molecular Biology (ISMB). Boston MA, USA. July 9th-13th 2010.

Federation of American Societies for Experimental Biology (FASEB) Minority Access for Research Careers (MARC) Program Travel Award to attend the 17th Annual International Conference Intelligent Systems for Molecular Biology (ISMB). Stockholm, Sweden. June 27 - July 2, 2009.

Federation of American Societies for Experimental Biology (FASEB) Minority Access for Research Careers (MARC) Program Travel Award to attend the 16th Annual International Conference Intelligent Systems for Molecular Biology (ISMB). Toronto, Canada. July 19th- 23rd 2008.

American Society of Tropical Medicine and Hygiene (ASTMH) award for 'Scientific Excellence in Molecular, Cellular and Immunoparasitology'. Awarded talk from the 17th Annual Woodshole Molecular Parasitology Conference. Woods Hole, MA, USA, September 2006.

Undergraduate Research Fellowship from the Instituto de Investigaciones Biologicas Clemente Estable, Montevideo, Uruguay. 2002.

Honors and Awards to trainees under direct supervision.

NIH/NIGMS Research supplement to Promote Diversity in Health-Related Research to Caitlin Ottaway. December 2024-November 2026.

Best trainee oral presentation award to Dominika Vojtasova. 15th International Conference on Genomics and Systems Biology of Human Disease and Aging. Chania, Crete, Greece. June 22nd -27th, 2024. Mentor: Pombo A. Co-mentor: Peixoto L.

WSU College of Medicine Medical Student Scholarly Project Fund travel award to Ali Vyhmeister (Brandt) to attend and present at SLEEP 2024; annual meeting of the Associated Professional Sleep Societies, LLC (APSS), joint meeting of the American Academy of Sleep Medicine (AASM) and the Sleep Research Society (SRS). Houston TX. June 1st-5th, 2024.

NIH Blueprint and BRAIN Initiative Diversity Specialized Predoctoral to Postdoctoral Advancement in Neuroscience (D-SPAN) Award (F99) to Elizabeth Medina. September 2023-Agust 2025.

Best poster awards to Elizabeth Medina and Kaitlyn Ford. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.

Travel award to attend the 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS) (November 8-11, Anaheim, CA) to Elizabeth Medina.

Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) travel award to cover all costs of attendance to the National Diversity in STEM Conference (October 27-29, 2022. San Juan, Puerto Rico) to Elizabeth Medina.

Cora May Poncin Scholarship to Elizabeth Medina. 2022-2023 academic year.

Carl Storm Underrepresented Minority (CSURM) award to attend and present at the 2022 Gordon Research Conference on Sleep Regulation and Function to Elizabeth Medina. March 2022.

WSU nomination to apply to the 2022 Howard Hughes Medical Institute (HHMI)-Gilliam Fellowship for Advanced studies to student-mentor pair: Elizabeth Medina-Lucia Peixoto (application not funded).

NIH/NIA Travel award to Elizabeth Medina to attend and present at the Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging: A Focus on Genetics and Genomics Conference. The Jackson Laboratories. Bar Harbor, Maine. October 24-28th, 2021.

World Federation of Sleep Research award to Dr. Hannah Schoch, to attend and present at World Sleep 2019 in Vancouver, Canada. September 20-25th 2019.

Excellence in Student Scholarship award from the Office of Research of the Elson S. Floyd College of Medicine to Taylor Winter, for her work presented at the International Society for Autism Research (INSAR) Annual Meeting. 2019. September 2nd, 2019.

Travel award to Elizabeth Medina from the Center for Reproductive Biology at WSU to attend a conference of her choosing during the 2019-2020 academic year. August 5th, 2019.

Travel award to Dr. Hannah Schoch from the Center for Reproductive Biology at WSU to attend a conference of her choosing during the 2019-2020 academic year. August 5th, 2019.

Associated Students of Washington State University Health Sciences (ASWSUHS) Travel Grant to Taylor Winter, to attend and present at the International Society for Autism Research (INSAR) Annual Meeting. May 1st-4th, 2019. Montreal, Canada.

Grants and Contract Awards

Current

Washington Initiative for Neuroscience (WIN) planning proposal for the Washington Initiative for Neuroscience (WIN) Autism Science Hub. PIs: Smith (SCRI), Yadav (UW), Peixoto (WSU), Webb (UW/SCRI), Shic (UW/SCRI), Page (SCRI)

R35 GM 147020 (Peixoto PI) 9/20/2022-9/19/2027
NIH/NIGMS $1,912,500 total
The role of sleep on chromatin and transcriptional regulation across vertebrate evolution.
The goal of this project is to understand how sleep across different species can alter transcription and chromatin accessibility in different cell-types and produce a comprehensive cell atlas of sleep-dependent regulation of gene expression and chromatin states across vertebrates.

3R35GM147020-03S1 (Peixoto PI, Trainee Caitlin Ottaway) 09/01/2024-8/31/2025
NIH/NIGMS $60,556 (year 1)
Research supplement to Promote Diversity in Health-Related Research

Completed

Simons Foundation Autism Research Initiative
Pilot Award (Peixoto PI) 2/18/2022-12/01/2024
Simons Foundation $299,981 total.
Understanding insomnia in the Autism Spectrum using mouse models
The goal of this award is to extend the work in the Peixoto laboratory to mouse models of three high-confidence autism genes: Shank3 (Phelan McDermid syndrome), Ube3A (Angelman's syndrome) and MeCP2 (Rett syndrome).

R01ES030113- (Gaddameedhi PI, Peixoto co-I) 12/1/2019-11/30/2024
NIH/NIEHS $2,210,422 total.
Circadian clock disruption: A risk factor for environmental carcinogenesis.
The goal of this project is to determine the effect of circadian clock disruption on skin carcinogenesis initiation and promotion. My lab is responsible for the analysis of genomic data generated in the project in years 3 and 4.

R37CA233658 (Boyang PI, Peixoto co-I) 9/1/2018- 8/31/2024
NIH/NCI $1,749,940 total
MAOA and AR Reciprocal Crosstalk in Prostate Cancer
The goal of this study is to investigate whether co-targeting MAOA/AR is an actionable, effective strategy to treat CRPC and reverse anti-androgen drug resistance. My lab is responsible for the analysis of genomic data generated in the project.

R56NS124805 (Peixoto PI; Pombo, Risso, Prasad co-I). 08/01/2022 - 07/31/2024
NIH/NINDS $497,916 total.
Understanding the interaction between sleep and SHANK3/B-catenin signaling in Autism.
The major goals of this project are to define how Shank3, and sleep regulate gene expression at single-cell resolution through the Wnt/B-catenin pathway.

SPP2202 Mundlos, Papantonis, Furlong, Pombo (co-PIs), Peixoto co-I 06/01/2019 – 5/31/2022
DFG Priority Program 138,000 Euros
Spatial Genome Architecture in Development and Disease
German DFG funding for a pan-German consortium.
The goal of the project is to investigate cell-state specific 3D genome architecture in heterogeneous cell populations of the brain. The Peixoto lab is involved in the study of hippocampal glutamatergic neurons 3D genome architecture in Shank3 mutant and WT mice.

K01NS104172 (Peixoto PI) 9/30/2017 – 8/31/2021
Faculty Development Award to Promote Diversity in Neuroscience Research
NIH/NINDS $642,714 total
Shank3 in Autism and sleep disturbances
The goal of this study is to determine the underlying molecular basis of sleep problems in a mouse model of Autism Spectrum Disorders.

R21 NS101413 (Frank PI, Peixoto co-I) 9/26/17 – 7/31/2020

NIH/NINDS $420,750 total
Neurotrophin regulation of sleep in vivo
The goal of this study is to determine the role of neurotrophins in behavioral and molecular components of sleep homeostasis. My role in the project was to support the generation and analysis of genomic data.

R21 HD088829 (Frank PI, Peixoto co-I) 8/1/2017 – 6/30/2019
NIH/NICHD $420,750 total
Exploratory models of cortical consolidation. The goal of this study is to develop new animal models for sleep-dependent cortical plasticity. My role in the project was to support the generation and analysis of genomic data.

WSU Grand Challenges Seed Grant (Walters PI, Peixoto co-I) 7/1/2016 – 12/31/2019
Washington State University $74,305 total
Developmental origins of health and disease: Identifying potential mechanisms for intergenerational transmission or risk and resilience. The main goal of this project is to study how stress during pregnancy can affect infant temperament through epigenetic mechanisms. My role in the study was to help design and supervise collection of DNA samples and epigenetic essays.

NRSA T32NS007413 (Robinson, M.B. PI, Peixoto Trainee) 10/1/2010-10/1/2013
NIH/NINDS $136,000 (to trainee)
Children's Hospital of Philadelphia, Intellectual and Developmental Disabilities Training Program
Merit-based application required for training slot. This award supported my training as a postdoctoral fellow in the lab of Dr. Ted Abel, and as a clinical intern under the supervision of Dr. Robert Schultz.

Publications

Peer-reviewed Research Articles

1. **Peixoto L.**, Zavala A., Romero H., Musto H. The strength of translational selection for codon usage varies in the three replicons of Sinorhizobium meliloti. *Gene*. 2003. 320:109-16. PMID: 14597394.
2. **Peixoto L.**, Fernandez V., Musto H. The effect of expression levels on codon usage in Plasmodium falciparum. *Parasitology*. 2004. 128(Pt 3):245-51. PMID: 15074874.
3. Platero R., **Peixoto L.**, O'Brian M.R., Fabiano E. Fur is involved in manganese-dependent regulation of mntA (sitA) expression in Sinorhizobium meliloti. *Appl. Environ. Microbiol.* 2004. 70(7):4349-55. PMID: 15240318.
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17. Wintler T.*, Schoch H.*, Frank M.G and **Peixoto. L**. Sleep, brain development, and Autism Spectrum Disorders: insights from animal models. J. Neurosci. Res. 2020 Jun;98(6):1137-1149. PMID: 32215963.
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21. Thakur, A., Yue, G., Ahire, D., Mettu, V.S., Al Maghribi, A.*, Ford, K.*, **Peixoto, L**., Leeder, J.S. and Prasad, B. Sex and the Kidney Drug-Metabolizing Enzymes and Transporters: Are Preclinical Drug

Disposition Data Translatable to Humans? Clin Pharmacol Ther, 2024 116: 235-246. https://doi.org/10.1002/cpt.3277

22. Lim, M. M., **Peixoto L.**, Kayser M.S. and Colwell C. S. Development of Sleep and Circadian Rhythms: Function and Dysfunction. Editorial. Neurobiology of Sleep and Circadian Rhythms. 2024 Jul 14: 100105.

23. Ford K.*#, Zuin E.#, Righelli D., Medina E.*, Schoch H.*, Singletary K.*, Muheim C., Frank M.G., Hicks S, Risso D, and **Peixoto L**. A global transcriptional atlas of the effect of sleep loss in the mouse cortex. 2024 Aug 17;27(9):110752. PMID: 39280614:PMCID: PMC11402219. # co-first authors

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25. Bridi M.C..D and **Peixoto L**. Excitatory/Inhibitory imbalance as a mechanism linking autism and sleep problems. Curr Opin Neurobiol. 2025 Feb;90:102968. doi: 10.1016/j.conb.2024.102968. Epub 2025 Jan 3. PMID: 39754885; PMCID: PMC11839321.

26. Popescu A.*#, Ottaway C.*#, Ford K.*, Medina E.*, Wintler T.*, Ingiosi A., Hicks S.C., Singletary K., **Peixoto L**. Transcriptional Dynamics of Sleep Deprivation and Subsequent Recovery Sleep in the Male Mouse Cortex. Physiol Genomics. 2025 May 2. doi: 10.1152/physiolgenomics.00128.2024. Epub ahead of print. PMID: 40315180. # co-first authors

Other Publications

27. Abeel T., De Ridder J. and **Peixoto L**. 2009. Highlights from the 5th International Society for Computational Biology Student Council Symposium at the 17th Annual International Conference on Intelligent Systems for Molecular Biology and the 8th European Conference on Computational Biology. *BMC Bioinformatics* 2009, 10(Suppl 13): I. PMID: 19840405.

28. **Peixoto L.**, Gehlenborg N., and Chandra Janga S. 2008. Highlights from the 4th International Society for Computational Biology Student Council Symposium at the 17th Annual International Conference on Intelligent Systems for Molecular Biology and the 8th European Conference on Computational Biology. *BMC Bioinformatics* 2008, 9 (Suppl 10):I1. PMID: 19007430.

Pre-printed articles

29. Righelli D., Koberstein J.N.*, Zhang N., Angelini C., **Peixoto L**., Risso D. 2018. Differential Enriched Scan 2 (DEScan2): a fast pipeline for broad peak analysis. PeerJ Preprints 6:e27357v1 https://doi.org/10.7287/peerj.preprints.27357v1

30. Al Maghribi A.*, Rempe M., Medina E.*, Ford K.*, Singletary K., Ottaway C.*, **Peixoto L**. Loss of MeCP2 leads to sleep deficits that are time-of-day dependent and worsen with sleep deprivation bioRxiv 2025.04.16.649209; doi: https://doi.org/10.1101/2025.04.16.649209

* Trainees under direct supervision

Full list of publications in google scholar:
https://scholar.google.com/citations?user=juHggXIAAAAJ&hl=en

Other Scholarly Products

Tutorials and Software

- Software for differential Epigenomic Analysis:

  - DEScan2 (R/Bioconductor package): https://bioconductor.org/packages/release/bioc/html/DEScan2.html (2018)
  - DEScan: https://github.com/jnkoberstein/DEScan (2017)
- Tutorial for RNA-seq data analysis: https://github.com/drisso/peixoto2015_tutorial (2015)
- Tutorials for single cell and bulk RNA-seq data analyses: https://rissolab.github.io/AtlasCortexSD/ (2024)

Oral Presentations

Invited Presentations

National/International

1. Invited speaker. "Sleep, Transcription and Chromatin Regulation in Neurotypical Development and Autism" UCLA Integrative Center for Sleep and Performance (ICSP) inaugural Spring Symposium, June 2nd, 2025.
2. "Understanding the Interaction Between Sleep and Transcriptional Regulation in Autism". Invited speaker. René Salazar Speaker Series. Broad Institute of MIT and Harvard. May 13th, 2025.
3. "Using mouse models to understand the link between genetics and sleep problems in autism". Invited Speaker. Simons Foundation Autism Research initiative (SFARI) Annual Investigators Meeting. New York, NY, March 24-26, 2025
4. "Understanding the interaction between sleep and transcriptional regulation in Autism". Invited Plenary Speaker. Advances in Sleep and Circadian Science Conference. February 14-17. Clearwater Beach, Florida.
5. "Understanding sleep in neurotypical and non-neurotypical brain development" Invited Seminar. University of Pennsylvania Chronobiology and Sleep seminar series. January 30th. 2025.
6. "Sleepless in the Autism Spectrum". Invited Pediatric Grand Rounds. New York-Presbyterian Morgan Stanley Children's Hospital. Columbia University Irving Medical Center. New York, NY. October 25th, 2024.
7. Understanding the interaction between sleep and transcriptional regulation in Autism. Invited speaker. 15th International Conference on Genomics and Systems Biology of Human Disease and Aging. Chania, Crete, Greece. June 22nd -27th, 2024.
8. Sleepless in the spectrum: Understanding the role of sleep in neurotypical brain development and Autism. Invited Seminar of the Hawk-Intellectual and Developmental Disabilities Research Center (IDDRC) in conjunction with Pediatrics Grand Rounds. Carver College of Medicine. University of Iowa. May 10th, 2024.
9. The role of sleep on transcriptional regulation in neurotypical development and Autism. Invited Keynote. First Symposium of Computational Biology and Bioinformatics in Uruguay. Instituto de Investigaciones Biological Clemente Estable. Montevideo, Uruguay. December 1st, 2023.
10. Sleep, transcription, and chromatin regulation in neurotypical development and Autism. Invited seminar. Berlin Institute for Medical Systems Biology. Max Delbrück Center for Molecular Medicine. Berlin, Germany. July 27th, 2023.
11. Round Table Discussion: Exploring the Potential of AI in Revolutionizing Bioinformatics Research: Opportunities and Challenges. Invited panelist. Student Council Symposium. 31st Conference on Intelligent Systems for Molecular Biology (ISMB). Lyon, France. July 23-27th, 2023.
12. Sleep in Animal Models of Neurodevelopmental Conditions. Invited Speaker. SLEEP 2023. 37th joint meeting of the American Academy of Sleep Medicine and the Sleep Research Society. Indianapolis, IN. June 4-7, 2023.
13. Sleepless in the spectrum: using mouse models to understand insomnia in Autism. **Keynote Lecture** in honor of Autism Acceptance month. University of Washington Autism Center. April 19th, 2023.

14. Sleep, Transcription, and Chromatin Regulation in Neurotypical Development and Autism. Invited seminar. Rockefeller Neuroscience Institute. West Virginia University. April 13th, 2023.
15. Sleep, Transcription, and Chromatin Regulation in Neurotypical Development and Autism. Carnegie Mellon- University of Pittsburgh PhD Program in Computational Biology Seminar Series. Pittsburg, PA, USA. December 9th. 2022.
16. Sleep, development and transcriptional regulation in Autism Spectrum Disorders. Invited seminar. Neuroscience Department's Seminar Series. Brain Science Institute. Kavli Neuroscience Discovery Institute. John Hopkins University School of Medicine. October 20th,2022.
17. Reproducible Transcriptomic Data Analysis in Sleep and Circadian Biology. Invited Workshop. Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging. The Jackson Laboratories. Bar Harbor, ME, USA. October 17-20th, 2022.
18. Sleep, development and chromatin regulation in Autism. Invited Seminar. Seaver Autism Center Seminar Series. Icahn School of Medicine at Mount Sinai, Department of Psychiatry. New York, NY, USA. September 28th, 2022.
19. Sleep, development and chromatin regulation in Autism. Invited seminar. Facultad de Medicina. Universidad de la Republica. Montevideo, Uruguay. September 9th, 2022.
20. **Keynote Address**. Regulatory and Systems Genomics (RegSys) Community of Special Interest (COSI). Understanding the interaction between sleep and chromatin regulation in Autism. 30th Conference on Intelligent Systems for Molecular Biology (ISMB). Madison, WI, USA. July 10-14th, 2022. https://www.youtube.com/watch?v=ZXAIiCZUv2M
21. The interaction between Shank3 and sleep on chromatin and transcription regulation. Invited seminar. Horizons in Genomics Seminar Series. Laboratorio Internacional de Investigacion en Genoma Humano (LIIGH, International Laboratory for Human Genome Research), Universidad Nacional Autonoma de Mexico (UNAM). Mexico. May 23rd, 2022.
22. Sleepless in the Spectrum. Invited seminar. William C. Dement Lecture Series at Stanford University. Palo Alto, CA, USA. May 20th, 2022.
23. Sleepless in the Spectrum: Insight from Animal Models. Invited panel chair. International Society for Autism Research Annual Conference (INSAR2022). Austin, TX, USA. May 10-14th, 2022.
24. Shank3 Modulates Sleep across Postnatal Development. Invited panel speaker. International Society for Autism Research Annual Conference (INSAR2022). Austin, TX, USA. May 10-14th, 2022.
25. Mechanisms Underlying Sleep Problems in the Autism Spectrum. Invited talk. Sleep Regulation and Function Gordon Research Conference. Il Ciocco, Italy. March 13-18th, 2022.
26. Reproducible Neuroscience from Omics data analysis. Invited seminar. University of Michigan's Department of Computational Medicine & Bioinformatics. Ann Arbor, MI, USA. February 23rd, 2022.
27. Thriving as Underrepresented Faculty. Invited panelist. Annual meeting of the NIH Blueprint and Brain initiative DSPAN scholars. December 9th, 2021.
28. Losing Sleep: Understanding Insomnia in the Autism Spectrum. Invited Speaker. Invited Seminar. University of Alabama Birmingham Cell, Developmental and Integrative Biology Seminar Series. Birmingham, AL, USA. November 17th, 2021
29. Sleepless in the Spectrum. Invited Speaker. Intellectual & Developmental Disabilities Research Center seminar at the Children's Hospital of Philadelphia (CHOP). Invited Seminar. Philadelphia, PA, USA. November 9th, 2021
30. Reproducible Transcriptomic Data Analysis in Sleep and Circadian Biology. Invited Workshop. Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging: A Focus on Genetics and Genomics Conference. The Jackson Laboratories. Bar Harbor, ME, USA. October 24-28th, 2021.
31. Reproducible Neuroscience from "omics" data analysis: a tale of sleep and learning. **Keynote Address**. Bioconductor community conference 2021 (BioC2021). August 4-6, 2021. https://www.youtube.com/watch?v=howE6aPmOWE

32. Characterizing longitudinal trajectories of sleep development in ASD: Current challenges and potential solutions. Invited talk. Simons Foundation Autism Research Initiative (SFARI) Sleep Workshop, Friday June 25 & Tuesday June 29, 2021.
33. Reproducible Neuroscience from "omics" data analysis: a tale of sleep and learning. Invited Seminar. Seminar series of the European Molecular Biology Laboratories (EMBL), Rome, Italy. March 26th, 2021.
34. Sleepless in the Spectrum. Invited Seminar. Fall seminar series of the Circadian and Sleep Medicine Affinity Group at UCLA. Los Angeles, CA, USA. December 14th, 2020.
35. Reproducible Neuroscience from "omics" data analysis. Invited Seminar. Laboratorio Internacional de Investigacion en Genoma Humano (LIIGH, International Laboratory for Human Genome Research), Universidad Nacional Autonoma de Mexico (UNAM). Mexico. December 7th,2020.
36. Sleepless in the Spectrum. Invited Seminar. UT Health San Antonio. San Antonio, TX, USA. Pharmacology Department Seminar Series. September 9h, 2020.
37. Equity, Diversity and Inclusion initiatives at the International Society for Computational biology. Invited panelist. Women in Computational Biology panel discussion. 19th European Conference on Computational Biology (ECCB2020). September 7h, 2020.
38. Staying woke, part 1: The Neurobiology of Sleep Disturbances in Autism. Invited Talk. Annual Biomedical Research Conference for Minority Students (ABRCMS). Anaheim, CA, USA. November 14th, 2019.
39. How sleep regulates gene expression in the brain: insights from omics studies. Invited Talk. The 2019 Latin American Conference in Chronobiology (LASC2019). Colonia del Sacramento, Uruguay. October 7th-11th, 2019.
40. Confound it! Reproducible Biology from "omics" data analysis. Invited seminar. Van Andel Research Institute (VARI), Grand Rapids, MI, USA. November 15th, 2018.
41. Learning-dependent chromatin remodeling highlights non-coding regulatory regions linked to Autism. **Keynote Address**. 14th Student Council Symposium. 26th Intelligent Systems for Molecular Biology (ISMB) conference, Chicago, IL, USA. July 6th, 2018.
42. Confound it! Reproducible Biology from "omics" data analysis. **Closing Keynote Address**. 2018 Galaxy Community Conference (GCC2018) and Bioinformatics Open-Source Conference 2018 (BOSC2018). Portland, OR, United States, June 25-30, 2018.
43. Defining Career Paths in academia. Invited panelist. Panel Discussion. Human Genetic Variation and Disease. Gordon Research Seminar: Genomic Data in Human Disease and Medicine: Emerging Opportunities and Challenges. June 9th-10th, 2018. University of New England. Biddeford, ME, USA.
44. How data analysis influences the power and reproducibility of functional genomic studies in complex systems. Invited seminar. Institut Pasteur Montevideo. Montevideo, Uruguay. October 19th, 2017.
45. Using mouse epigenomics to identify regulatory regions relevant to Autism and Intellectual Disability. Invited seminar. Institut Pasteur Montevideo. Montevideo, Uruguay. December 22nd, 2016.
46. Outline of funding opportunities for early career scientists by stage. Invited talk. Workshop on Career Development for Junior Principal Investigators at the 24th Intelligent Systems for Molecular Biology (ISMB) conference. Orlando, FL, USA. July 10th, 2016.
47. Removal of unwanted variation reveals novel patterns of gene expression linked to sleep homeostasis in murine cortex. Invited talk. Ibero-american Society for Bioinformatics (SOIBIO) International Conference 2016 on "Bioinformatics and Computational Biology for Innovative Genomics". An affiliated ISCB conference. Riviera Maya, Mexico. April 22-26th, 2016.
48. Learning produces widespread transcriptional and epigenetic changes in the mouse hippocampus. Invited seminar. Washington State University, Spokane. Spokane, WA, USA. April 24th, 2014.
49. Memory consolidation and retrieval impact different epigenetic processes that regulate gene expression. Invited seminar. University of California, Berkeley. Berkeley, CA, USA. May 9th, 2013.

50. *Genomic Scale Analysis of Lateral gene transfer In the Apicomplexan parasite Toxoplasma gondii.* **Awarded talk from the 17th Annual Woods hole Molecular Parasitology Conference**. The 55th Annual Meeting of the American Society of Tropical Medicine and Hygiene (ASTMH), Atlanta, GA, USA. November 2006.

Local/Regional

51. "Understanding Insomnia in the Autism Spectrum". Invited Seminar. Department of Biology. Gonzaga University. March 28th, 2025.
52. Sleepless in the Spectrum. Invited talk. WSU-SCRI Joint Research Symposium. Spokane, WA. September 6th, 2024.
53. Sleepless in the Spectrum. Invited talk. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.
54. Sleepless in the Spectrum. Invited Seminar. School of Molecular Biosciences seminar series. Washington State University, Pullman. September 12th, 2019.
55. Sleepless in the Spectrum. Invited talk. Retreat of the WSU Center for Reproductive Biology. Leavenworth, WA. September 5th-6th, 2019.
56. Sleepless in the Spectrum. Invited talk. Biomedical Sciences Symposium of the Elson S. Floyd College of Medicine. Spokane Convention Center. Spokane, WA. August 19th, 2019.
57. Sleep problems in the Autism Spectrum. Invited talk. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.
58. Shank3 modulates sleep and circadian activity. Invited seminar. Sleep and Performance Research Center seminar series. Washington State University Spokane. October 25th, 2018.
59. Computational approaches to understand epigenetic regulation using genome sequencing. Invited seminar. Whitworth University. March 9th, 2017.
60. Molecular correlates of sleep need. Invited seminar. Sleep and Performance Research Center seminar series. Washington State University Spokane. January 12th, 2017.
61. How data analysis affects power and reproducibility of genome-wide gene expression studies in complex datasets. Invited talk. WSU Genomics Core and Illumina Next-Generation Sequencing Workshop. Pullman, WA. June 23, 2016.
62. Experience-dependent chromatin remodeling highlights non- coding regulatory regions linked to Autism Spectrum Disorders. Invited talk. Annual retreat of the Integrative Physiology and Neuroscience Graduate Program. Pullman. WA. May 31st. 2016.
63. How data analysis affects power and reproducibility of genome-wide gene expression studies in complex datasets. Invited seminar. Whitworth University. April 8th, 2016.

Invited presentations at meetings cancelled because of the COVID-19 pandemic.
1. Invited talk. Symposium on "Sleep, memory and neurodegenerative disorders". Winter Conference on Neural Plasticity (WCNP). Los Cabos, Mexico. February 5 - 12th, 2022
2. Invited talk. Human Genetic Variation and disease Gordon Research conference. Manchester, NH, USA. June 5 - 10, 2022.

Accepted Peer-reviewed Oral Presentations

National/International Meetings.
1. Medina E*, Schoch H*, Singletary K*, Ford K*, Muheim C, Rempe M, **Peixoto L**. Sex differences in sleep deficits in mice with an autism-linked Shank3 mutation. SLEEP2025 Seattle, WA. June 8th - 11th, 2025.
2. Vojtasova D*., Kukalev A., Righelli D., Thieme C., Szabó D., Irastorza-Azcarate I., Medina E.*, Ford K.*, Singletary K., Harabula I., Risso D., **Peixoto L**. and Pombo A. The impact of sleep deprivation on genome regulation in dorsal CA1 region of hippocampus. 15th International Conference on

Genomics and Systems Biology of Human Disease and Aging. Chania, Greece. June 22nd-27th, 2024.

3. Estes A., **Peixoto L**. and Hansen D. *Sex Differences in Insomnia in Autism*. 54th Annual Meeting of the Psychiatric Research Society (PRS). Park City, Utah. February 28th-March 1st, 2024.
4. Medina E.*, Muheim C., Ford K.*, Singletary K.*, Frank M.G., **Peixoto L**. *Effect of a Shank3 mutation on the transcriptional response to sleep loss in the mouse cortex*. Society for Neuroscience Annual Meeting. November. Washington DC. November 11-15th 2023.
5. **Peixoto L.** *Sleep and chromatin regulation in Autism Spectrum Disorders (ASD)*. 53rd Annual Meeting of the Psychiatric Research Society (PRS). Park City, Utah. March 1-4th. 2023.
6. Medina E*, Schoch H*, Singletary K*, Ford K*, Muheim C, Rempe M, **Peixoto L**. *Interaction between Mutations in Shank3 and Sex on Sleep Architecture and Regulation*. Advancements in Sleep and Circadian Sciences. Clearwater Beach, FL, USA. February 17-20th 2023.
7. Medina E*, Schoch H*, Wintler T*, Ford K*, Singletary K*, **Peixoto L**. *Sleep on the Spectrum*. Graduate Seminar. 2022 Annual Biomedical Research Conference for Minority Students (ABRCMS). November 8-11, Anaheim, CA.
8. Medina E*, Schoch H*, Wintler T*, Ford K*, Singletary K*, **Peixoto L**. *Shank3 influences mammalian sleep development*. Sleep Regulation and Function Gordon Research Seminar. Il Ciocco, Italy. March 12th, 2022.
9. **Peixoto L.** *Sleep, Development, and Insomnia in Autism Spectrum Disorders*. 52nd Annual Meeting of the Psychiatric Research Society (PRS). March 1-4th. 2022.
10. **Peixoto L.** *Sleepless in the spectrum: Using Mouse Models to Understand Insomnia in Autism*. Winter Conference on Brain Research (WCBR). January 30th- February 4th. 2022. Snowmass, Colorado.
11. Righelli D., Johnson B., Angelini C., Triche T., **Peixoto L.** and Risso D. *Epigenomic Enrichment Analysis Using Bioconductor*. The European Bioconductor Conference (EuroBioc2019). Brussels, Belgium. December 10th, 2019.
12. Schoch H.*, Ingiosi A., Wintler T.*, Medina E*, Singletary K.*, Frank M.G., and **Peixoto L**. *Developmental trajectory of sleep disturbances in a Shank3 mouse model*. World Sleep 2019 in Vancouver, Canada. September 20-25th 2019.
13. Roser L.*, Wintler T.*, Swineford L and **Peixoto L**. *Defining non-coding genetic variants contributing to Autism Spectrum Severity using Elastic-Net regression*. 4th Conference of the International Society for Computational Biology in Latin America (ISCB-LA) and the Ibero-american Society for Bioinformatics (SOIBIO) EMBnet 2018. Viña del Mar, Chile. Nov 5th-9th, 2018.
14. Righelli D, Koberstein J.N*, Zhang N, Angelini C, **Peixoto L**, Risso D. *Differential Enriched Scan 2 (DEScan2): a fast pipeline for broad peak analysis*. Bioconductor Community Conference (BioC) 2018. Toronto, Canada, July 25th-27th, 2018.
15. Righelli D, Koberstein J.N.*, Zhang N, Angelini C, **Peixoto L**, Risso D. *Differential Enriched Scan 2 (DEScan2): a fast pipeline for broad peak analysis*. 15th Annual Meeting of the Italian Society of Bioinformatics (BITS). Torino, Italy. June 25th-27th, 2018.
16. **Peixoto L.**, Wimmer M., Poplawski S., Choi J., Kenworthy C., Liu S., Mizuno K., Garcia B., Zhang N., Giese K.P. and, Abel T. *Memory consolidation and retrieval impact different epigenetic processes that regulate gene expression*. 3rd Conference of the International Society for Computational Biology in Latin America (ISCB-LA). Belo Horizonte. Brazil. October 28th-30th 2014.
17. **Peixoto L**, Wimmer M., Poplawski S., Kenworthy C. and, Abel T. *The transcriptomic landscape of learning and memory formation*. 20th Intelligent Systems for Molecular Biology (ISMB) conference. Long Beach CA, USA. October 28th-30th 2014.
18. **Peixoto L**., Roos D.S. *Genomic scale analysis of lateral gene transfer in Apicomplexan parasites: insights into early eukaryotic evolution, host-pathogen interaction and drug target development.* 3rd Student Council Symposium at the 15th Intelligent Systems for Molecular Biology (ISMB). Runner-up, best talk award. Vienna, Austria, July 21st 2007. Published in *BMC Bioinformatics* 2007 8(Suppl 8):S5. https://doi.org/10.1186/1471-2105-8-S8-S5

19. Peixoto, L, Roos, D.S. *Genomic Scale Analysis of Lateral gene transfer In the Apicomplexan parasite Toxoplasma gondii*. 17th Annual Woodshole Molecular Parasitology Conference. Woods Hole, MA, USA. September 2006. **Best-talk award**.

Local/Regional Meetings

20. Peterson S.*, Medina E.*, Ford K.*, Singletary K.* and **Peixoto L**. *The role of sleep on Wnt/β-catenin signaling*. Spring Scientific Conference. American College of Physicians Washington Chapter. May 19th, 2023.
21. Muheim C.M., Ford K.*, Medina E.*, Singletary K.*, **Peixoto L.**, Frank M.G., *Ontogenesis of the molecular response to sleep loss*. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.
22. Medina E.*, Schoch H.*, Singletary K.*, Ingiosi A., Wintler T.*, Frank M.G., and **Peixoto L**. *Sleep deprivation alters nuclear localization of SHANK3*. Flash talk. Retreat of the WSU Center for Reproductive Biology. Leavenworth, WA. September 5th-6th, 2019.
23. Schoch H.*, Ingiosi A., Wintler T.*, Singletary K.*, Medina E.*, Frank M.G. and **Peixoto L**. *Developmental Trajectory of Sleep Disturbances in a Shank3 Mouse Model*. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.
24. Roser L.*, Schoch H.*, **Peixoto L.** *Differential expression and local splicing variation events induced by sleep deprivation*. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.

Accepted Peer-reviewed Poster Presentations

National/International Meetings

1. Ottaway C.#*, Popescu A.#*, Ford K.*, Wintler Patterson T.*, Ingiosi A., Medina E.*, Hicks S.C, Singletary K and **Peixoto L.** Transcriptional dynamics of sleep deprivation and subsequent recovery sleep in the male mouse cortex. SLEEP2025 Seattle, WA. June 8th - 11th, 2025.
2. Croteau A., Medina E., Rempe M., Singletary K., Middleton K., Al Maghribi A., Ford K., and **Peixoto L**. *Mice carrying a maternal Ube3a deletion associated with Angelman's syndrome display altered sleep ontogenesis.* SLEEP2025 Seattle, WA. June 8th - 11th, 2025.
3. Hansen D., **Peixoto L**. and Estes A. *Longitudinal Sleep Phenotyping of Autistic Individuals using a Non-Contact Biomotion Sensor in the Home Environment*. SLEEP2025. Seattle, WA, June 8th-11th.
4. Ottaway C.#*, Popescu A.#*, Ford K.*, Wintler Patterson T.*, Ingiosi A., Medina E.*, Hicks S.C, Singletary K and **Peixoto L.** Transcriptional dynamics of sleep deprivation and subsequent recovery sleep in the male mouse cortex. Advances in Sleep and Circadian Sciences (ASCS) Conference. Clearwater, FL. February 14-18,2025.
5. Brandt A.*, Rempe M., Uygun D., Ingiosi A., Wintler T., Schoch H.*, Medina E.*, Singletary K.*, Ford K. *, Katsuki F., McNally J. and **Peixoto L**. *The Influence of Shank3 Mutations on Spindle Activity During Sleep in a Mouse Model*. SLEEP2024. Houston, TX. June 1st -5th, 2024. Sleep 47(Supplement_1): A85-A85. DOI: 10.1093/sleep/zsae067.0198
6. Medina E.*, Muheim C., Ford K.*, Singletary K.*, Frank M.G., **Peixoto L**. *Shank3$^{\Delta C}$ alters the molecular homeostatic response to sleep deprivation across development*. Gordon Research Conference and Gordon Research seminar on Sleep Regulation and Function. Galveston TX. March 3rd-8th 2024.
7. Muheim C.M., Ford K.*, Medina E.*, Singletary K.*, **Peixoto L.**, Frank M.G., *Ontogenesis of the molecular response to sleep loss*. Advancements in Sleep and Circadian Sciences. Clearwater Beach, FL, USA. February 17-20th 2023.
8. Medina E*, Schoch H*, Singletary K*, Ford K*, Muheim C, Rempe M, **Peixoto L**. *Interaction between Mutations in Shank3 and Sex on Sleep Architecture and Regulation*. Advancements in Sleep and Circadian Sciences. Clearwater Beach, FL, USA. February 17-20th 2023.

9. Ford K*, Zuin E, Popescu A*, Muheim C, Medina E*, Schoch H*, Singletary K*, Hicks S, Risso D, and **Peixoto L**. *A global transcriptional atlas of the effect of sleep loss in the mouse cortex*. Advances for Sleep and Circadian Science (ASCS). Clearwater Beach, FL, USA. February 17-20th, 2023.
10. Ford K*, Zuin E, Righelli D, Muheim C, Popescu A*, Medina E*, Schoch H*, Singletary K*, Hicks S, Risso D and **Peixoto L**. *Global transcriptional profiling of the effects of sleep deprivation at the gene, transcript, and single-nuclear level*. 30th Conference of Intelligent Systems for Molecular Biology (ISMB). Madison, WI, USA. July 10-14th, 2022.
11. Popescu A*, Ford K*, Muheim C, Medina E*, Schoch H*, Singletary K*, Hicks S, Risso D and **Peixoto L**. *Transcriptional dynamics of sleep deprivation and subsequent recovery sleep in the murine cortex*. 30th Conference of Intelligent Systems for Molecular Biology (ISMB). Madison, WI, USA. July 10-14th, 2022.
12. Medina E*, Schoch H*, Wintler T*, Ford K*, Singletary K, **Peixoto L**. *Shank3 influences mammalian sleep development*. Sleep Regulation and Function Gordon Research Conference. Il Ciocco, Italy. March 13-18th, 2022.
13. Medina E*, Schoch H, Ford K, Wintler T, Singletary K, **Peixoto L**. *Shank3 Influences Mammalian Sleep Development*. OPEN Connections Poster Symposium: Advancing Scientific Excellence through Diversity. NINDS Office of Programs to Enhance Neuroscience Workforce Diversity (OPEN). March 3rd, 2022.
14. Medina E*, Schoch H*, Wintler T*, Ford K*, Singletary K, **Peixoto L**. *Shank3 influences mammalian sleep development*. Impacts of Sleep and Circadian Biology on Alzheimer's Disease and Aging: A Focus on Genetics and Genomics Conference. The Jackson Laboratories. Bar Harbor, Maine. October 24-28th, 2021.
1. Righelli D., Johnson B., Angelini C., Triche T., **Peixoto L**., Risso D. *Epigenomic enrichment analysis using Bioconductor*. 28th Intelligent Systems for Molecular Biology (ISMB) conference, virtual edition. July 13th-16th. 2020.
2. Schoch H.*, Ingiosi A., Wintler T.*, Medina E*, Singletary K.*, Frank M.G., and **Peixoto L**. *Developmental trajectory of sleep disturbances in a Shank3 mouse model*. World Sleep 2019 in Vancouver, Canada. September 20-25th 2019.
3. Wintler T.*, Ingiosi A., Schoch H.*, Singletary K., Righelli D., Roser L.*, Risso D., Frank M.G. and **Peixoto L**. *Shank3 Modulates Sleep and Expression of Circadian Transcription Factors*. International Society for Autism Research (INSAR) Annual Meeting. May 1st-4th, 2019. Montreal, Canada.
4. Schoch H.*, Ingiosi A., Wintler T.*, Medina E*, Singletary K.*, Frank M.G., and **Peixoto L**. *Developmental trajectory of sleep disturbances in a Shank3 mouse model*. International Society for Autism Research (INSAR) Annual Meeting. May 1st-4th, 2019. Montreal, Canada.
5. Koberstein J.N.*, Poplawski S.G., Wimmer M.E., Porcari J., Kao C., Gomes B., Risso D., Hakonarson H., Zhang N.R, Schultz R.T, Abel T. and **Peixoto L**. *Learning-dependent chromatin remodeling highlights non-coding regulatory regions linked to Autism.* 2018 Keystone Symposia Conference X6: Gene Control in Development and Disease March 23-27, 2018. Whistler, British Columbia, Canada.
6. Koberstein J.N.*, Gomes.B., Poplawski S., Zhang N., Abel T. and **Peixoto L**. *DEScan: Differential enrichment scan of epigenomic high-throughput sequencing data that leverages biological variation to ensure reproducibility.* 25th Intelligent Systems for Molecular Biology (ISMB) conference and 16th European Conference on Computational Biology (ECCB). July 21st-25th, 2017. Prague, Czech Republic.
7. Koberstein J.N.*, Poplawski S., Kao C., Hakonarson H., Schultz R., Zhang N., Abel T. and **Peixoto L**. *DEScan: A novel strategy for the analysis of epigenomic data with multiple biological replicates*. 24th Intelligent Systems for Molecular Biology (ISMB) conference. July 8th-12th, 2016. Orlando, Florida

8. Koberstein J.N.*, Poplawski S., Abel T. and **Peixoto L**. *Learning recapitulates development at the epigenetic level highlighting regulatory regions relevant for Autism and Intellectual disability.* Poster Presentation. International Meeting for Autism Research (IMFAR) 2017. May 10th-13th, San Francisco, California, USA.
9. **Peixoto L.**, Risso D., Poplawski S., Wimmer M., Speed T.P., Wood M.A and Abel T. *Power gain: how normalization affects reproducibility and biological insight of RNA-seq studies in Neuroscience.* 23rd Intelligent Systems for Molecular Biology (ISMB) conference/ 14th European Conference on Computational Biology (ECCB). July 10th-14th, 2015. Dublin, Ireland.
10. **Peixoto L.**, Wimmer M., Poplawski S., Choi J., Kenworthy C., Liu S., Mizuno K., Garcia B., Zhang N., Giese K.P. and, Abel T*. Memory consolidation and retrieval impact different epigenetic processes that regulate gene expression*. 22nd Intelligent Systems for Molecular Biology (ISMB) conference, July 11th-15th 2014. Boston MA, USA.
11. **Peixoto L.,** Poplawski S., Kao C., Hakonarson H., Schultz R. and Abel T. *Exploring Non-Coding Regulatory SNPs As Genetic Markers for Autism Spectrum Disorders***.** International Meeting for Autism Research (IMFAR). May 13t-16th. 2015. Salt Lake City, Utah.
12. **Peixoto L**., Wimmer M, Poplawski S, Zhang N. and Abel T. *Transcriptome analysis reveals differences in processes that regulate gene expression during memory consolidation and retrieval*. 43rd Annual Meeting of the Society for Neuroscience (SFN). San Diego CA. November 9th-13th 2013.
13. **Peixoto L.**, Wimmer M., Poplawski S., Kenworthy C. and, Abel T*. The transcriptomic landscape of learning and memory formation*. 20th Intelligent Systems for Molecular Biology (ISMB) conference, July 15th-17th 2012. Long Beach CA, USA.
14. **Peixoto L.**, Wimmer M., Poplawski S., Kenworthy C. and, Abel T. *The transcriptomic landscape of learning and memory formation*. 41st Annual Meeting of the Society for Neuroscience (SFN). Washington DC. November 12th-16th 2011.
15. **Peixoto L**., David P.H., Ouloguem D. and Roos D.S. *Comparative and functional genomic characterization of the Toxoplasma gondii rhoptry kinase family (ROPK) of and its role in host-gene regulation.* 17th Intelligent Systems for Molecular Biology (ISMB) Conference and 8th European Conference on Computational Biology (ECCB). Stockholm, Sweden, July 2009.
16. **Peixoto L**., David P.H., Ouloguem D. and Roos D.S. *Comparative and functional genomic characterization of the Toxoplasma gondii rhoptry kinase family (ROPK) of and its role in host-gene regulation*. 10th International Conference on Toxoplasmosis. Kerkrade. The Netherlands. June 2009.
17. **Peixoto L**., Harb O.S., David P.H., Beiting D., Chen F and Roos D.S. *The ROP-K family of Toxoplasma gondii: the parasite kinome reveals an expanded family of secreted kinases with possible role in host-pathogen interaction*. 16th Intelligent Systems for Molecular Biology (ISMB) conference. Toronto, Canada, July 2008.
18. **Peixoto L**., Harb O.S., Davis P.H, Beiting D and Roos D.S. *Evolution of secreted Kinases in Toxoplasma gondii: The ROP-K family and modulation of host cell responses.* Gordon Research Conference: Biology of Host-Parasite Interactions. Newport, RI, June, 2008.
19. **Peixoto L**., Roos D.S. *Genomic scale analysis of lateral gene transfer in Apicomplexan parasites: insights into early eukaryotic evolution, host-pathogen interaction and drug target development.* 15th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB) and 6th European Conference on Computational Biology (ECCB). Vienna, Austria, July 2007.
20. **Peixoto L**., Musto H. *Inferring the evolutionary origin of novel metabolic pathways.* World Genomics Symposium and Exposition. Atlantic City, NJ, USA. September, 2002.
21. Castro S., Carrera I., Batista S., Catalán A.I., **Peixoto L**. and Martínez-Drets G. *Diversity of nod, nif, dct and moc and their relation with an effective symbiosis*. 12th International Congress of Nitrogen Fixation, Foz do Iguaçu, Paraná, Brasil. September, 1999.

Local/Regional Meetings

22. Ottaway C.[#]*, Popescu A.[#]*, Ford K.*, Wintler Patterson T.*, Ingiosi A., Medina E.*, Hicks S.C, Singletary K and **Peixoto L.** Transcriptional dynamics of sleep deprivation and subsequent recovery sleep in the male mouse cortex. WSU-SCRI Joint Research Symposium. Spokane, WA. September 6th, 2024.
23. Medina E.*, Schoch H.*, Singletary K.*, Ford K.*, Muheim C., Rempe M., **Peixoto L**. *Interaction between Mutations in Shank3 and Sex on Sleep Architecture and Regulation*. Retreat of the WSU Center for Reproductive Biology Spokane, WA. May 25th, 2023.
24. Peterson S.*, Medina E.*, Ford K.*, Singletary K.* and **Peixoto L**. *The role of sleep on Wnt/β-catenin signaling*. Inland Northwest Research Symposium. Spokane, WA. March 23rd, 2023.
25. Brandt A.*, Rempe M., Ingiosi A., Medina E.*, Singletary K.*, Ford K * and **Peixoto L**. *The Influence of Shank3 Mutations on Spindle Activity During Sleep*. Inland Northwest Research Symposium. Spokane, WA. March 23rd, 2023.
26. Medina E.*, Schoch H.*, Singletary K.*, Ford K.*, Muheim C., Rempe M., **Peixoto L**. *Interaction between Mutations in Shank3 and Sex on Sleep Architecture and Regulation*. Inland Northwest Research Symposium. Spokane, WA. March 23rd, 2023.
27. Brandt A.*, Rempe M., Ingiosi A., Medina E.*, Singletary K.*, Ford K.* and **Peixoto L**. *The Influence of Shank3 Mutations on Spindle Activity During Sleep*. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.
28. Medina E.*, Schoch H.*, Singletary K.*, Ford K.*, Muheim C., Rempe M., **Peixoto L**. *Interaction between Mutations in Shank3 and Sex on Sleep Architecture and Regulation*. Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.
29. Ford K.*, Zuin E., Popescu A.*, Muheim C., Medina E.*, Schoch H.*, Singletary K.*, Hicks S., Risso D., and **Peixoto L**. *A global transcriptional atlas of the effect of sleep loss in the mouse cortex.* Retreat of the Sleep and Performance Research Center. Coeur D'Alene, WA. March 14-16th, 2023.
30. Schoch H.*, Ingiosi A., Wintler T.*, Medina E.*, Singletary K.*, Frank M.G., and **Peixoto L**. *Developmental trajectory of sleep disturbances in a Shank3 mouse model*. Retreat of the WSU Center for Reproductive Biology. Leavenworth, WA. September 5th-6th, 2019.
31. Schoch H.*, Ingiosi A., Wintler T.*, Medina E.*, Singletary K.*, Frank M.G., and **Peixoto L**. *Developmental trajectory of sleep disturbances in a Shank3 mouse model*. Biomedical Sciences Symposium of the Elson S. Floyd College of Medicine. Spokane Convention Center. Spokane, WA. August 19th, 2019.
32. Wintler T.*, Ingiosi A., Schoch H.*, Medina E.*, Singletary K., Righelli D., Roser L.*, Risso D., Frank M.G. and **Peixoto L**. *Shank3 Modulates Sleep and Expression of Circadian Transcription Factors*. Biomedical Sciences Symposium of the Elson S. Floyd College of Medicine. Spokane Convention Center. Spokane, WA. August 19th, 2019.
33. Medina E.*, Schoch H.*, Singletary K.*, Ingiosi A., Wintler T.*, Frank M.G., and **Peixoto L**. *Sleep deprivation alters nuclear localization of SHANK3*. Biomedical Sciences Symposium of the Elson S. Floyd College of Medicine. Spokane Convention Center. Spokane, WA. August 19th, 2019.
34. Wintler T.*, Ingiosi A., Schoch H.*, Singletary K., Righelli D., Roser L.*, Risso D., Frank M.G. and **Peixoto L**. *Shank3 Modulates Sleep and Expression of Circadian Transcription Factors*. Retreat of Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.
35. Schoch H.*, Ingiosi A., Wintler T.*, Singletary K.*, Medina E.*, Frank M.G. and **Peixoto L**. Developmental Trajectory of Sleep Disturbances in a Shank3 Mouse Model. Retreat of Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.
36. Roser L.*, Schoch H.*, **Peixoto L.** *Differential expression and local splicing variation events induced by sleep deprivation*. Retreat of Sleep and Performance Research Center. Coeur D'Alene, WA. March 18th, 2019.
37. Lenberger N.*, Wintler T.P.*, Singletary K and **Peixoto L.** *Gender differences in social preference and social novelty in an autism mouse model.* November 2017. Georgetown College GCPALS Research Symposium.

38. Wintler T.P*, Singletary K. and **Peixoto L.** *Testing for Sociability and Novelty in a Mouse Model of Autism.* Murdock College Science Research Conference. November 4th, 2016. Spokane Washington, USA.
39. Wintler T.P*, Singletary K. and **Peixoto L.** *Testing for Sociability and Novelty in a Mouse Model of Autism.* Gonzaga Fall Research Symposium. October 8, 2016. Spokane Washington, USA.

* Trainees under direct supervision
# Authors contribute equally to the work.

Outreach Activities

Media Contributions

Editorial Features

- Celebrating Women in Autism Science. February 10th, 2023. Spectrum News. https://www.spectrumnews.org/visual-article/day-of-women-and-girls-in-science/
- Chronicle of a Field Retold: Autism Science in Profile. Spectrum News e-Book (featured in pages 71, 142-145). January 1st, 2023/ https://spectrumnews-web-assets.s3.amazonaws.com/wp-content/uploads/2022/12/15165514/Chronicle-of-a-field-retold-autism-science-in-profile.pdf
- Funding Highlights. Spokane Research News. October 24th, 2022. https://spokane.wsu.edu/research/news/
- Spectrum features Lucia Peixoto. May 13th, 2022. Elson S. Floyd College of Medicine News. https://medicine.wsu.edu/news/2022/05/13/spectrum-features-lucia-peixoto/
- Rising star: Lucia Peixoto, breaking down the interplay between sleep and autism. May 9th, 2022. Spectrum News. https://www.spectrumnews.org/news/profiles/rising-star-lucia-peixoto-breaking-down-the-interplay-between-sleep-and-autism/

Invited Editorial Viewpoints

- Losing sleep: How researchers miss a key contributor to autism. Lucia Peixoto and Anette Estes. July 16th, 2020. Spectrum News. https://www.spectrumnews.org/opinion/viewpoint/losing-sleep-how-researchers-miss-a-key-contributor-to-autism/

Interviews/ Research Features

- Featured in the Atlas of Inspiring Hispanic/LatinX scientists in honor of Hispanic Heritage Month. September 2024. https://www.fredhutch.org/en/about/about-the-hutch/faculty-affairs-and-diversity/atlas-of-inspiring-hispanic-latinx-scientists.html
- Sleepy mice with autism-linked mutation struggle to fall asleep. September 12th, 2022. https://www.spectrumnews.org/news/sleepy-mice-with-autism-linked-mutation-struggle-to-fall-asleep/
- Cracking autism's sleep conundrum. February 25th, 2022. https://www.spectrumnews.org/news/cracking-autisms-sleep-conundrum/
- SFARI workshop explores sleep challenges in autism spectrum disorder. August 27th, 2021. Spectrum News. https://www.sfari.org/2021/08/27/sfari-workshop-explores-sleep-challenges-in-autism-spectrum-disorder/
- Reactions from INSAR 2019. May 4th, 2019. Spectrum News. https://www.spectrumnews.org/news/reactions-insar-2019/
- Sleep struggles in autistic people may have genetic basis. May 3rd, 2019. Spectrum News. https://www.spectrumnews.org/news/sleep-struggles-autistic-people-may-genetic-basis/

- "Gene variant linked to sleep problems in autism". April 29th, 2019. ScienceDaily. https://www.sciencedaily.com/releases/2019/04/190429094907.htm
- "WSU study links gene to sleep problems in autism". April 29th, 2019. WSU Insider. https://news.wsu.edu/2019/04/29/wsu-study-links-gene-sleep-problems-autism/
- "Meet a Scientist: Dr. Lucia Peixoto's Work Narrows the Search for Autism Risk Factors". April 2nd, 2018. WSU Health Sciences Spokane EXTRA. https://spokane.wsu.edu/extra/2018/04/02/meet-scientist-lucia-peixoto-autism/
- "Autism genes abound in DNA regions involved in learning". February 22nd, 2018. Spectrum news. https://www.spectrumnews.org/news/autism-genes-abound-dna-regions-involved-learning/
- "Epigenetics reveals possible DNA regions associated with autism". January 18th, 2018. Australia's Science Channel: https://australiascience.tv/epigenetics-reveals-possible-dna-regions-associated-with-autism/
- "Learning opens the genome" The Scientist Magazine. January 17th, 2018. https://www.the-scientist.com/?articles.view/articleNo/51373/title/Learning-Opens-the-Genome/
    - Adapted to Spanish for CIVICA: http://civica.com.es/ciencia/cambios-epigeneticos-inducidos-genoma-las-neuronas-del-cerebro-relacion-autismo/
    - Adapted to Spanish for Quo: http://www.quo.es/ciencia/un-estudio-epigenetico-senala-los-factores-de-riesgo-de-autismo
    - Adapted to Portuguese for ZAP: https://zap.aeiou.pt/2-mil-novos-marcadores-biologicos-podem-ajudar-descobrir-desenvolve-autismo-188029
    - Adapted to Greek for HealthWeb: http://www.healthweb.gr/2018/01/epigenetiki-meleta-tous-paragontes-kindynou-tou-aftismou/
- "Epigenetics study helps focus search for autism risk factors" WSU News. January 16th, 2018. https://news.wsu.edu/2018/01/16/epigenetics-autism-risk-factors/
- "WSU Spokane nets $10 million for scientific health research" The Spokesman Review. December 23rd, 2017 http://www.spokesman.com/stories/2017/dec/23/wsu-spokane-nets-10-million-for-scientific-health-/

Interviews/ Research Features (Video/Broadcast)

- "WSU studying autism severity in individuals". January 24th, 2018. KREM2 News at 6. http://www.krem.com/news/health/wsu-studying-autism-severity-in-individuals/511318074
- "Teaching genomic medicine to WSU Medical students". September 14th, 2015. WSU Spokane YouTube Channel. https://www.youtube.com/watch?v=7U-neYXaTPg

Invited Commentaries

- "How early-career researchers get the most out of social media". June 7th, 2023. Spectrum News. https://www.spectrumnews.org/news/how-early-career-researchers-get-the-most-out-of-social-media/
- "Autistic people at increased genetic risk of sleep problems". October 18th, 2022. Spectrum News. https://www.spectrumnews.org/news/autistic-people-at-increased-genetic-risk-of-sleep-problems/
- "Poor sleep shifts social circuit in mice". June 20th, 2022. Spectrum News. https://www.spectrumnews.org/news/poor-sleep-shifts-social-circuit-in-young-mice/
- "Atlas maps gene activity, accessibility in developing brain". September 30th, 2021. Spectrum News. https://www.spectrumnews.org/news/atlas-maps-gene-activity-accessibility-in-developing-brain/
- "Poor sleep could be core feature of autism, related conditions". April 15th, 2021. Spectrum News. https://www.spectrumnews.org/news/poor-sleep-could-be-core-feature-of-autism-related-conditions/
- "Mutations between genes, long overlooked, may be key in autism". May 27th, 2019. Spectrum News. https://www.spectrumnews.org/news/mutations-genes-long-overlooked-may-key-autism/

- "Early life experiences may shift severity of autism". May 3rd, 2019. Spectrum news. https://www.spectrumnews.org/news/early-life-experiences-may-shift-severity-autism/
- "Analysis pinpoints genes linked to autism, developmental delay". February 6th, 2019. Spectrum news. https://www.spectrumnews.org/news/analysis-pinpoints-genes-linked-autism-developmental-delay/
- "Analysis spotlights mutations in 'dark' regions of the genome". December 14th, 2018. Spectrum News. https://www.spectrumnews.org/news/analysis-spotlights-mutations-dark-regions-genome/
- "Control of gene expression alters impact of autism mutations". September 27th, 2018. Spectrum News. https://www.spectrumnews.org/news/control-gene-expression-alters-impact-autism-mutations/
- "Hunt for autism variants between genes comes up empty". May 7th, 2018. Spectrum News. https://www.spectrumnews.org/news/hunt-autism-variants-genes-comes-empty/
- "Some mutations tied to autism may be passed down from fathers". April 18th, 2018. Spectrum News. https://www.spectrumnews.org/news/mutations-tied-autism-may-passed-fathers/
- "Whole genomes may power search for autism risk factors". August 23rd, 2017. Spectrum News. https://spectrumnews.org/news/toolbox/whole-genomes-may-power-search-autism-risk-factors/
- "Study in China solidifies list of genes tied to autism". December 1st, 2016. Spectrum News. https://www.spectrumnews.org/news/study-china-solidifies-list-genes-tied-autism/
- "Spaces near genes may harbor pitfalls for autism". February 15th, 2016. Spectrum News. https://spectrumnews.org/news/spaces-near-genes-may-harbor-pitfalls-for-autism/

Community engagement

- "Meet a Scientist: my journey to a career in STEM" presentation for Girl Scouts of Eastern Washington and Northern Idaho. April 11th, 2023.
- "Meet a Neuroscientist and Learn About Sleep" class for 5th grade. January 9th, 2023. Mullan Road Elementary School. Spokane WA.
- Kindergarten Neuroscience Class. June 9th, 2022. Mullan Road Elementary School. Spokane WA.
- Volunteer reading tutor. October 2018- June 2019. Mullan Road Elementary School. Spokane WA.
- Autism Awareness Day for Kindergarten. May14th 2018, Mullan Road Elementary School
- Kindergarten Monthly Science Class. November 2017- June 2018. Mullan Road Elementary School. Spokane WA.

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