

CURRICULUM VITAE

Adelita D. Mendoza, Ph.D.
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Department of Biochemistry
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1. Academics

Education

2018-2024 Post-Doctoral Research Associate, Washington University, St. Louis, MO

2017, Ph.D. Biological Sciences, Northwestern University, Evanston, IL

2007-2010 B.A. Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO

2000-2004 B.A. Environmental, Populations, and Organismic Biology, University of Colorado, Boulder, CO

2. Service, Leadership, and Appointments

National and International Service

2025 **Co-chair**, Annual Meeting of the American Society for Cell Biology (ASCB), MOSAIC, session

2023 **Discussion Leader**, Navigating Career Choices Through a Global Pandemic, Gordon Research Conference Metals in Cell Biology

2023 **Organizer**, GRC Power Hour, Gordon Research Conference Metals in Cell Biology

2023-current **Editor**, EcrLife

2022 **Peer Mentor**, Washington University Post-Doc Peer Mentorship Program

2022 **Panelist**, Finding and starting a Postdoc organized by First-Gen Scholars at Washington University

2021 **Co-chair**, Genetics Society of America Early Career Leadership Program Accessibility Subcommittee

2021 **Co-Chair**, Genetics Society of America Early Career Leadership Program Communications and Outreach Subcommittee

2020 **Post-Doctoral Representative Organizer**, International *C. elegans* community mentor match program

2018-2020 **Member**, Genetics Society of America Early Career Leadership Program Communications and Outreach Subcommittee

University Service

2026 **Member**, Review Panel for the Core Facility Assistance Grant Program

2025-2026 **Member**, Opportunity, Community, and Success Committee, Department of Biochemistry

3. Honors

2023 Washington University Outstanding Post-Doc Mentor Award

2023 Duke Next Generation Leaders Program

2023 Washington University Postdoc Society Outstanding Postdoc Mentor Award

2022 Washington University Irving Boime Developmental Biology Research Fund

2021 Washington University Division of Biomedical Sciences Viktor Hamburger Prize
2018 Yale Bouchet Honor Society

4. Publications

Peer reviewed publications

Liu, H, Earley, B, **Mendoza, AD**, Hunt, P, Teng, S, Schneider, DL, Kornfeld, K. *A single high-zinc activation enhancer can control two genes-oriented head-to-head in C. elegans*. BioRxiv. Doi: 0.1101/2024.11.19.624376

Mendoza AD*, Dietrich, N*, Tan, CH, Herrera, D, Kasiah, J, Payne, Z, Schneider, D, Kornfeld, K, *Lysosome-related organelles contain an expansion compartment that mediates delivery of zinc transporters to promote homeostasis* PNAS. 2024.doi:10.1073/pnas.2307143121

Mendoza, AD, Sue, AC, Antipova, O, Vogt, S, Woodruff, TK, Wignall, SM, O'Halloran, TV. *Dynamic Zinc Fluxes Regulate Meiotic Progression in Caenorhabditis elegans*. Biology of Reproduction, ioac064,doi:[10.1093/biolre/ioac064](https://doi.org/10.1093/biolre/ioac064)

Earley, B, **Mendoza, AD**, Tan CH, Kornfeld K. *Zinc homeostasis and signaling in the roundworm C. elegans*. Biochim Biophys Acta Mol Cell Res 2020 Oct 2;1868(1):118882.doi: 10.1016/j.bbamcr.2020.118882.

Mendoza AD, Woodruff TK, Wignall SM, O'Halloran TV. *Zinc availability during germline development impacts embryo viability in Caenorhabditis elegans*. Comparative Biochemistry and Physiology Part C, Toxicology and Pharmacology. 2017; 91:194-202.doi: 10.1016/j.cbpc.2016.09.007. PubMed PMID: 27664515; PMCID:PMC5210184

Minuti G, Cappuzzo F, Duchnowska R, Jassem J, Fabi A, O'Brien T, **Mendoza AD**, Landi L, Biernat W, Czartoryska-Arlukowicz B, Jankowski T, Zuziak D, Zok J, Szostakiewicz B, Foszczynska-Kloda M, Tempinska-Szalach A, Rossi E, Varella-Garcia M. *Increased MET and HGF gene copy numbers are associated with trastuzumab failure in HER2-positive metastatic breast cancer*. British Journal of Cancer. 2012;107(5):793-9. doi: 10.1038/bjc.2012.335. PubMed PMID: 22850551; PMCID: PMC3425981

Dziedziszko R, Merrick DT, Witta SE, **Mendoza AD**, Szostakiewicz B, Szymanowska A, Rzyman W, Dziedziszko K, Jassem J, Bunn PA, Jr., Varella-Garcia M, Hirsch FR. *Insulin-like growth factor receptor 1 (IGF1R) gene copy number is associated with survival in operable non-small-cell lung cancer: a comparison between IGF1R fluorescent in situ hybridization, protein expression, and mRNA expression*. Journal of Clinical Oncology. 2010;28(13):2174-80. doi: 10.1200/JCO.2009.24.6611. PubMed PMID: 20351332; PMCID: PMC2860435.

Preprints

Rawnsley, D., Islam, M., Zhao, C., Kargar, Y., Kooh, G., **Mendoza, A.D.**, Navid, Ha., Kumari, M., Guan, X., Murphy, J., Nigro, J., Kovacs, A., Mani, K., Huebsch, N., Ma, X., Diwan, A. *Mitophagy Facilitates Cytosolic Proteostasis to Preserve Cardiac Function*. BioRxiv. doi: 10.1101/2024.11.24.624947

5. Research Support

Active Research Support

2025-2028 NIH R00 MOSAIC Award, 4R00GM146016-03, funded for 3 years at \$250,000/year

Previous Research Support

2022-2024 **NIH K99 MOSAIC Award**, 1K99GM146016-01, funded for year 1 at \$100,000, and year 2 at \$125,000.

2021-2022 **NIH T32 Cardiology Training Grant**, T32 HL007081 funded for 1 year at \$65,078.

6. Science Journalism

Blog Posts

Bizarre Bases: What studying organisms with weird genomes tell us about the rules of life. Genes to Genomes blog from the Genetics Society of America. December 12, 2020.

<https://genestogenomes.org/bizarre-bases-what-studying-organisms-with-weird-genomes-tells-us-about-the-rules-of-life/>

Hurdles and advances to making science gender-neutral. ecrLife, November 26, 2020.

<https://ecrlife.org/hurdles-and-advances-to-making-science-gender-neutral/>

Navigating Fake News as a Scientist. ecrLife, October 8, 2020. <https://ecrlife.org/navigating-fake-news-as-a-scientist-2/>

How bioinformatics can help fill the therapeutic drug pipeline. Genes to Genomes blog from the Genetics Society of America, June 18, 2020. <http://genestogenomes.org/how-bioinformatics-can-help-fill-the-therapeutic-drug-pipeline/>

Presentations and Workshops

Moderator and co-organizer, *Genetics Society of America Careers in Scientific Communication Workshop*, October 14, 2020. <https://www.youtube.com/watch?v=wPNGaNYWtp8&t=1639s>

Moderator, Genetics Society of America Grants and Funding Panel, May 24, 2022.

<https://www.youtube.com/watch?v=16oaqIVbqck>

7. Teaching

2025-2026 Co-Instructor, Advanced General Biochemistry 2, Department of Biochemistry, University of Colorado, Boulder

8. Mentorship

Mendoza lab trainees: Undergraduate students

2026-current **Jolie Nguyen**, BCHM University of Colorado, Boulder, CO

2026-current **Nikhil Loordu**, Neuroscience, University of Colorado Boulder, CO

2026-current **Marylyn Owusu-Ansah**, MCDB, University of Colorado Boulder, CO

2025-current **Katryna Reese**, IPHY, University of Colorado Boulder, CO

2025-2026 **Welton James**, BCHM, University of Colorado Boulder, CO

2025-2026 **Camdyn Rakow**, BCHM, University of Colorado Boulder, CO

2025-2026 **Callejune Silver**, BCHM, University of Colorado Boulder, CO

2025-2026 **Makenna Jarvis**, BCHM, University of Colorado Boulder, CO

Mendoza lab trainees: Graduate students

2025-2026 **Joy Armendariz**, BCHM, University of Colorado Boulder, CO

Mendoza lab trainees: Post-doctoral scholars

2026-current **Jennysue Kasiah**, University of Colorado Boulder, CO

Trainees during Post-Doctoral Training

2024 **Raquel Herrera**, High School Student, Westminster Christian Academy, Town and Country, MO

2023 **Juliana Escudero**, Graduate Student, Washington University, St. Louis, MO

2023 **Cameron Ortiz**, Graduate Student, Washington University, St. Louis, MO

2022-2023 **Samuel Herrera**, Westminster Christian Academy, Town and Country, MO

2022-2023 **Patrick Hunt**, Post-Baccalaureate trainee, Saint Louis University, St. Louis, MO

2021-2024 **Sean Teng**, Undergraduate student, Washington University, St. Louis, MO

2022-2023 **Rubi Gonzales**, Post-doc, Washington University, St. Louis, MO

2022-2023 **Danielle Campbell**, Post-doc, Washington University, St. Louis, MO

2022-2023 **Billy Liu**, Graduate Student, Washington University, St. Louis, MO

2021 **Taylor Malachowski**, Graduate Student, Washington University, St. Louis, MO

2018-2022 **Aaron Sue**, Graduate Student, Northwestern University, Evanston, IL

2019 **Jennysue Kasiah**, Graduate Student, Washington University, St. Louis, MO

2019 **Zachary Payne**, Graduate Student, Washington University, St. Louis, MO

2019-2022 **Daniel Herrera**, High school student, Westminster Christian Academy, Town and Country, MO and undergraduate student, Washington University, St. Louis, MO

2018 **Xavier Anderson**, Post-Bac Scholar, Washington University, St. Louis, MO

2018 **Anne LaForti**, Master's Student, University of Arizona, Tucson AZ

9. Press

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[Northwestern CRS Alumni Spotlight](#)

[GSA Early Career Leadership Spotlight](#)