

RICARDO LINARES SALDANA

Aspiring pathologist dedicated to advancing patient care through the integration of genomics.

A physician-scientist with extensive training in genetics, epigenetics, and computational genomics. My research has evolved from wet-bench discovery to leading complex, large-scale sequencing analyses, providing me with a unique perspective on disease mechanisms. I am eager to apply this analytical and problem-solving skill set to the challenges of diagnostic pathology, with the ultimate goal of pursuing a fellowship in molecular pathology and contributing to the advancement of personalized medicine.

EDUCATION

- 2023
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2014

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MD, Medicine
Perelman School of Medicine
Philadelphia, PA
- 2021
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2016

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PhD, Genetics and Epigenetics
University of Pennsylvania
Philadelphia, PA
- 2012

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BS, Molecular and Cellular Biology
The Johns Hopkins University
Baltimore, MD

RESEARCH EXPERIENCE

- Current
|
2023

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Postdoctoral Research Fellow
Perelman School of Medicine
Philadelphia, PA
• Developed computational pipelines analyzing NGS data to investigate chromatin architecture and disease-relevant gene regulation.
- 2021

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Doctoral Student
University of Pennsylvania
Philadelphia, PA
• Principal Investigator: Rajan Jain, MD
• Co-Mentor: Jonathan A. Epstein, MD
- 2015

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Undergraduate Researcher
The Johns Hopkins University
Baltimore, MD
• Principal Investigator: Haig Kazazian, MD
- 2015

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Undergraduate Researcher
University of Pennsylvania
Philadelphia, PA
• Principal Investigator: Michael Marks, PhD
- 2014

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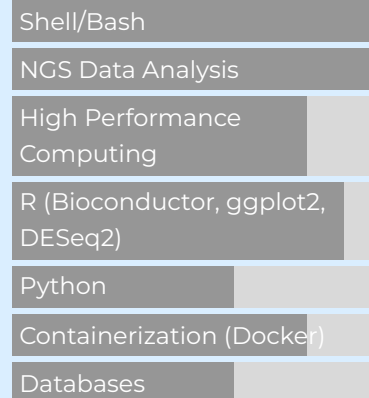
Postbaccalaureate Research Fellow
National Institutes of Health
Bethesda, MD
• Principal Investigator: William Gahl, MD, PhD
• Co-Mentor: Camilo Toro, MD



CONTACT

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🌐 [linkedin.com/in/rls89/](https://www.linkedin.com/in/rls89/)
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🔗 DrRLS.com

CODING SKILLS



LANGUAGES

🗣️ English, fluent
🗣️ Spanish, native

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Last updated on 2025-08-25.



PUBLICATIONS

- 2025 • **Transcription and Cohesin Direct Domain Boundary Spatial Positioning and Underpin Friedreich's Ataxia**
Cell, In Revision,
• Ashley Karnay, Ricardo Linares-Saldana, Qiaohong Wang, et al
- 2025 • **Mechanistic and Epigenetic Partitioning of Lamina-Associated Chromatin Revealed by a Genome-Wide Imaging Screen**
bioRxiv, [10.1101/2025.08.13.670143](https://doi.org/10.1101/2025.08.13.670143)
• Patrick J. Walsh, Elizabeth B. Kraeutler, Ricardo Linares-Saldana, et al
- 2025 • **Genome folding and nuclear speckles converge to orchestrate fibroblast activation**
In Preparation,
• Zachary Gardner, Ricardo Linares-Saldana, Krishna K. Haridhasapavalan, et al
- 2025 • **Mesenchyme directed cytoskeletal-nuclear coupling regulates tissue regeneration**
In Preparation,
• Dakota L. Jones, Sarah E. Schaefer, Ricardo Linares-Saldana, et al
- 2024 • **A genome-wide CRISPR screen identifies BRD4 as a regulator of cardiomyocyte differentiation**
Nature Cardiovascular Research, [10.1038/s44161-024-00431-1](https://doi.org/10.1038/s44161-024-00431-1)
• Arun Padmanabhan, ... Ricardo Linares-Saldana, ... Rajan Jain
- 2021 • **BRD4 orchestrates genome folding to promote neural crest differentiation**
Nature Genetics, [10.1038/s41588-021-00934-8](https://doi.org/10.1038/s41588-021-00934-8)
• Ricardo Linares-Saldana, Wonho Kim, Nikhita A. Bolar, et al
- 2021 • **Responsiveness to perturbations is a hallmark of transcription factors that maintain cell identity in vitro**
Cell Systems, [10.1016/j.cels.2021.07.003](https://doi.org/10.1016/j.cels.2021.07.003)
• Ian A. Mellis, ... Ricardo Linares-Saldana, ... Arjun Raj
- 2021 • **A transcriptional switch governs fibroblast activation in heart disease**
Nature, [10.1038/s41586-021-03674-1](https://doi.org/10.1038/s41586-021-03674-1)
• Michael Alexanian, ... Ricardo Linares-Saldana, ... Deepak Srivastava
- 2021 • **Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes**
Cell Stem Cell, [10.1016/j.stem.2020.12.016](https://doi.org/10.1016/j.stem.2020.12.016)
• Parisha P. Shah, ... Ricardo Linares-Saldana, ... Rajan Jain
- 2020 • **BRD4 (Bromodomain-Containing Protein 4) Interacts with GATA4 (GATA Binding Protein 4) to Govern Mitochondrial Homeostasis in Adult Cardiomyocytes**
Circulation, [10/gh59dw](https://doi.org/10/gh59dw)
• Arun Padmanabhan, Michael Alex, Ricardo Linares-Saldana, et al

- 2020 • **Identification of a molecular basis for the juvenile sleep state**
eLife, [10.7554/eLife.52676](https://doi.org/10.7554/eLife.52676)
• Leela C. Dilley, ... Ricardo Linares-Saldana, ... Matthew S Kayser
- 2019 • **Targeting cardiac fibrosis with engineered T cells**
Nature, [10/gf73rc](https://doi.org/10.1038/s41586-019-1373-9)
• Haig Aghajanian, ... Ricardo Linares-Saldana, ... Jonathan A. Epstein
- 2019 • **Early lineage specification defines alveolar epithelial ontogeny in the murine lung**
Proceedings of the National Academy of Sciences, [10/gfxfcq](https://doi.org/10.1073/pnas.1901234116)
• David B. Frank, ... Ricardo Linares-Saldana, ... Edward E. Morrisey
- 2017 • **Centromere inheritance through the germline**
Chromosoma, [10.1007/s00412-017-0640-y](https://doi.org/10.1007/s00412-017-0640-y)
• Arunika Das, Evan M. Smoak, Ricardo Linares-Saldana, et al
- 2016 • **BLOC-1 Brings Together the Actin and Microtubule Cytoskeletons to Generate Recycling Endosomes**
Current Biology, [10.1016/j.cub.2015.11.020](https://doi.org/10.1016/j.cub.2015.11.020)
• Cédric Delevoye, ... Ricardo Linares-Saldana, ... Graça Raposo



AWARDS

- 2022
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2019 • **NRSA F31 Grant Award**
National Institutes of Health
- 2021
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2017 • **Research Fellowship**
The Center for Engineering MechanoBiology at UPenn
- 2018
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2017 • **Research Travel Awards**
Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Graduate and Professional Student Assembly, and Biomedical Graduate Studies at UPenn