

RICARDO LINARES SALDANA




Physician-scientist with a passion for genomics and computational biology

My research has evolved from traditional bench work to big data and computational analysis, with a focus on chromatin organization. My ultimate goal is to make meaningful contributions to our understanding of biology and disease through the lens of genomics.

EDUCATION


- 2023 • **MD, Medicine**
Perelman School of Medicine  Philadelphia, PA
- 2021 • **PhD, Genetics and Epigenetics**
University of Pennsylvania  Philadelphia, PA
- 2012 • **BS, Molecular and Cellular Biology**
The Johns Hopkins University  Baltimore, MD

RESEARCH EXPERIENCE

- 2021 • **Doctoral Student**
University of Pennsylvania  Philadelphia, PA
 - Principal Investigator: Rajan Jain, MD
 - Co-Mentor: Jonathan A. Epstein, MD
- 2015 • **Undergraduate Researcher**
The Johns Hopkins University  Baltimore, MD
 - Principal Investigator: Haig Kazazian, MD
- 2015 • **Undergraduate Researcher**
University of Pennsylvania  Philadelphia, PA
 - Principal Investigator: Michael Marks, PhD
- 2014 • **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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 drlls.github.io

CODING SKILLS



LANGUAGES

 English, fluent
 Spanish, native

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Last updated on 2023-04-19.



PUBLICATIONS

- 2021 ● **BRD4 orchestrates genome folding to promote neural crest differentiation**
[Nature Genetics](#)
- Ricardo Linares Saldana, Wonho Kim, Nikhita A. Bolar, Haoyue Zhang, Bailey A. Koch-Bojalad, Sora Yoon, Parisha P. Shah, Ashley Karnay, Daniel S. Park, Jennifer M. Luppino, Son C. Nguyen, Arun Padmanabhan, Cheryl L. Smith, Andrey Poleshko, Qiaohong Wang, Li Li, Deepak Srivastava, Golnaz Vahedi, Gwang Hyeon Eom, Gerd A. Blobel, Eric F. Joyce, Rajan Jain
- 2021 ● **Responsiveness to perturbations is a hallmark of transcription factors that maintain cell identity in vitro**
[Cell Systems](#)
- Ian A. Mellis, Hailey I. Edelstein, Rachel Truitt, Yogesh Goyal, Lauren E. Beck, Orsolya Symmons, Margaret C. Dunagin, **Ricardo Linares Saldana**, Parisha P. Shah, Juan A. Pérez-Bermejo, Arun Padmanabhan, Wenli Yang, Rajan Jain, Arjun Raj
- 2021 ● **A transcriptional switch governs fibroblast activation in heart disease**
[Nature](#)
- Michael Alexanian, Pawel F. Przytycki, Rudi Micheletti, Arun Padmanabhan, Lin Ye, Joshua G. Travers, Barbara Gonzalez-Teran, Ana Catarina Silva, Qiming Duan, Sanjeev S. Ranade, Franco Felix, **Ricardo Linares Saldana**, Li Li, Clara Youngna Lee, Nandhini Sadagopan, Angelo Pelonero, Yu Huang, Gaia Andreoletti, Rajan Jain, Timothy A. McKinsey, Michael G. Rosenfeld, Casey A. Gifford, Katherine S. Pollard, Saptarsi M. Haldar, Deepak Srivastava
- 2021 ● **Pathogenic LMNA variants disrupt cardiac lamina-chromatin interactions and de-repress alternative fate genes**
[Cell Stem Cell](#)
- Parisha P. Shah, Wenjian Lv, Joshua H. Rhoades, Andrey Poleshko, Deepti Abbey, Matthew A. Caporizzo, **Ricardo Linares Saldana**, Julie G. Heffler, Nazish Sayed, Dilip Thomas, Qiaohong Wang, Liam J. Stanton, Kenneth Bedi, Michael P. Morley, Thomas P. Cappola, Anjali T. Owens, Kenneth B. Margulies, David B. Frank, Joseph C. Wu, Daniel J. Rader, Wenli Yang, Benjamin L. Prosser, Kiran Musunuru, Rajan Jain
- 2020 ● **BRD4 (Bromodomain-Containing Protein 4) Interacts with GATA4 (GATA Binding Protein 4) to Govern Mitochondrial Homeostasis in Adult Cardiomyocytes**
[Circulation](#)
- Arun Padmanabhan, Michael Alexanian, **Ricardo Linares Saldana**, Bárbara González Terán, Gaia Andreoletti, Yu Huang, Andrew J. Connolly, Wonho Kim, Austin Hsu, Qiming Duan, Sarah A.B. Winchester, Franco Felix, Juan A. Perez-Bermejo, Qiaohong Wang, Li Li, Parisha P. Shah, Saptarsi M. Haldar, Rajan Jain, Deepak Srivastava

- 2020

●

Identification of a molecular basis for the juvenile sleep state
[eLife](#)
 • Leela Chakravarti Dilley, Milan Szuperak, Naihua N Gong, Charlette E Williams, **Ricardo Linares Saldana**, David S Garbe, Mubarak Hussain Syed, Rajan Jain, Matthew S Kayser
- 2019

●

Targeting cardiac fibrosis with engineered T cells
[Nature](#)
 • Haig Aghajanian, Toru Kimura, Joel G. Rurik, Aidan S. Hancock, Michael S. Leibowitz, Li Li, John Scholler, James Monslow, Albert Lo, Wei Han, Tao Wang, Kenneth Bedi, Michael P. Morley, **Ricardo Linares Saldana**, Nikhita A. Bolar, Kendra McDaid, Charles-Antoine Assenmacher, Cheryl L. Smith, Dagmar Wirth, Carl H. June, Kenneth B. Margulies, Rajan Jain, Ellen Puré, Steven M. Albelda, Jonathan A. Epstein
- 2019

●

Early lineage specification defines alveolar epithelial ontogeny in the murine lung
[Proceedings of the National Academy of Sciences](#)
 • David B. Frank, Ian J. Penkala, Jarod A. Zepp, Aravind Sivakumar, **Ricardo Linares Saldana**, William J. Zacharias, Katharine G. Stolz, Josh Pankin, MinQi Lu, Qiaohong Wang, Apoorva Babu, Li Li, Su Zhou, Michael P. Morley, Rajan Jain, Edward E. Morrissey
- 2017

●

Centromere inheritance through the germline
[Chromosoma](#)
 • Arunika Das, Evan M. Smoak, **Ricardo Linares Saldana**, Michael A. Lampson, Ben E. Black
- 2016

●

BLOC-1 Brings Together the Actin and Microtubule Cytoskeletons to Generate Recycling Endosomes
[Current Biology](#)
 • Cédric Delevoye, Xavier Heiligenstein, Léa Ripoll, Floriane Gilles-Marsens, Megan K. Dennis, **Ricardo Linares Saldana**, Laura Derman, Avanti Gokhale, Etienne Morel, Victor Faundez, Michael S. Marks, Graça Raposo



AWARDS

- 2022
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2019

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NRSA F31 Grant Award
 National Institutes of Health
- 2021
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2017

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Research Fellowship
 The Center for Engineering MechanoBiology at UPenn
- 2018
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2017

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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