

# ALEX RAJEWSKI

Cancer genomics core bioinformatician with extensive experience in single-cell sequencing, spatial transcriptomics, epigenetics, genome assembly, and phylogenetics. Also skilled in pipeline development, include Nextflow, Docker, Singularity, and Git. I am an excellent science communicator to both [public](#) and [professional](#) audiences.



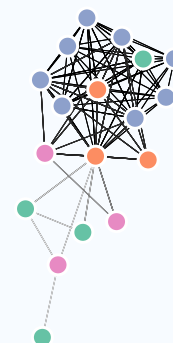
## EDUCATION

- 2020  
|  
2015 • **PhD Plant Biology**  
University of California, Riverside
- 2015  
|  
2013 • **MS Horticulture**  
University of Georgia
- 2010  
|  
2006 • **BS Biochemistry, Cell, and Molecular Biology**  
Drake University



## WORK EXPERIENCE

- current  
|  
2021 • **Research Bioinformatician II**  
Cedars-Sinai Genomics Core
  - Advanced analysis of single-cell RNA-seq, spatial transcriptomics, WES/WGS, CUT&Tag, ATAC-seq
  - Pipeline development with Nextflow, Docker, and Git
- 2012  
|  
2011 • **Congress-Bundestag Fellow & Research Intern**  
Universität Rostock
  - Vaccine production in transgenic plants
  - Developed plant transformation methods in lupine, pea, tobacco, and potato
- 2011  
|  
2010 • **Research Assistant**  
Pioneer Hi-Bred (Corteva)
  - Developed SQL database to integrate phenotypic and genotypic measurements
- Aug  
2009  
|  
May  
2009 • **NSF Research Intern**  
North Carolina State University
  - Validated viral protein production in novel hosts



## CONTACT

- ✉ [AlexCRajewski@gmail.com](mailto:AlexCRajewski@gmail.com)
- 🐙 [github.com/rajewski](https://github.com/rajewski)
- 🔗 [rajewski.github.io](https://rajewski.github.io)
- in [in/alexrajewski](https://www.linkedin.com/in/alexrajewski)
- 🐦 [Rajewski](https://twitter.com/Rajewski)

## LANGUAGE SKILLS

R	
German	
Docker/Singularity	
Shell	
Nextflow	
Python	
SQL	
汉语	



## PEER-REVIEWED PUBLICATIONS

- 2022 ● **Multispecies Transcriptomes Reveal Core Fruit Development Genes**  
Frontiers in Plant Science (Submitted)  
Alex Rajewski, Dinusha Maheepala, Jessica Le, Amy Litt
- 2022 ● **microRNA-16 mediates anti-fibrotic effects of exosomes in rats with heart failure and preserved ejection fraction**  
Journal of Clinical Investigation (Submitted)  
Jae Hyung Cho, Alex Rajewski, Catherine Bresee, Myung Yoon Kim, Thassio Mesquita, Xavier Jones, Isabelle Pellot, Wenxie Liu, Lizbeth Sanchez, Asma Nawaz, Ahmed Ibrahim, Russell Rogers, Eugenio Cingolani, Eduardo Marbán
- 2022 ● **SOX9 switch orchestrates dynamic Wnt niches and kidney myofibroblast activity**  
Nature (Submitted)  
Z. Wang; S. Aggarwal; A. Rajewski; M.K. Bhasin; K. Suresh; M. Yamashita; H. Akiyama; S.A. Karumanchi; S.C. Jordan; P.W. Noble; P.E. Cippà; S. Kumar.
- 2021 ● ***Datura* Genome Reveals Duplications of Psychoactive Alkaloid Biosynthetic Genes and High Mutation Rate Following Tissue Culture**  
BMC Genomics  
Alex Rajewski, Derreck Carter-House, Jason Stajich, and Amy Litt
- 2021 ● **The pulmonary microbiome–angiotensin axis locally reprograms CXCR4hi neutrophils in the lung.**  
Journal of Experimental Medicine (Submitted)  
M. Kim; A.R. Victor; Z. Peng; A. Rajewski; D. Cao; G. Leite; S. Saito; C. Liu; E.A. Bernstein; L.C. Veiras; Z. Khan; J.F. Giani; D.M. Underhill; X. Cui; S. You; K.E. Bernstein; D. Okwan-Duodu.
- 2019 ● ***in Vitro* Plant Regeneration and *Agrobacterium tumefaciens*-mediated Transformation of *Datura stramonium***  
Applications in Plant Science  
Alex Rajewski, Kevan Elkins, Ashley Henry, Joyce Van Eck, and Amy Litt
- 2019 ● **Evolution and Diversification of *FRUITFULL* Genes in Solanaceae**  
Frontiers in Plant Science  
Dinusha Maheepala, Chris Emerling, Alex Rajewski, Jenna Macon, Maya Stahl, Natalia Pabón-Mora, and Amy Litt
- 2018 ● **Classification and phylogenetic analyses of the Arabidopsis and tomato G-type lectin receptor kinases**  
BMC Genomics  
Marcella A. Teixeira, Alex Rajewski, Jiangman He, Olenka G. Castaneda, Amy Litt, and Isgouhi Kaloshian