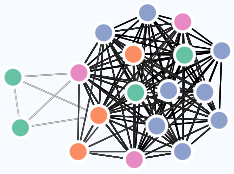
ALEX RAJEWSKI

Experienced bioinformatics data scientist with experience in oncology, drug design, single-cell sequencing, spatial transcriptomics, epigenetics, genome assembly, and phylogenetics. Also skilled in pipeline development, including Nextflow, Docker, Singularity, and Git. I am an excellent science communicator to both public and professional audiences.



EDUCATION

2020 — **PhD Bioinformatics & Plant Biology**
University of California, Riverside

- Genome assembly/annotation, RNA-seq, phylogenetics, high-throughput CRISPR screening
- NGS library prep, PCR, tissue culture, in situ hybridization, microscopy

2015 — **MS Horticulture**
University of Georgia

- Population genetics, Microsatellites/SSR, phylogenetics

2010 — **BS Biochemistry, Cell, and Molecular Biology**
Drake University

WORK EXPERIENCE

current | 2022 — **Bioinformatics Scientist**
SEngine Precision Medicine

- Development of high-throughput drug screening analysis pipelines in R
- Consultation on experimental design and statistical analysis

2022 | 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

CONTACT

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in/alexrajewski
Rajewski

LANGUAGE SKILLS

- R
- German
- Docker/Singularity
- Shell
- Nextflow
- Python
- SQL
- 汉语

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

PEER-REVIEWED PUBLICATIONS

2023

Stacking the odds: Multiple sites for HSV-1 latency

Science Advances.
Shaohui Wang, Xueying Song, **Alex Rajewski**, Chintda Santiskulvong, and Homayon Ghiasi

2022

Multispecies Transcriptomes Reveal Core Fruit Development Genes

Frontiers in Plant Science
Alex Rajewski, Dinusha Maheepala, Jessica Le, Amy Litt

2022

SOX9 switch orchestrates dynamic Wnt niches and kidney myofibroblast activity

Cell (In Review)
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.

2022

Cell therapy attenuates endothelial dysfunction in hypertensive rats with heart failure and preserved ejection fraction

Heart and Circulatory Physiology
G. de Couto, T. Mesquita, X. Wu, **A. Rajewski,** F. Huang, A. Akhmerov, N. Na, D. Wu, Y. Wang, L. Li, M. Tran, P. Kilfoil, E. Cingolani, E. Marbán

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

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