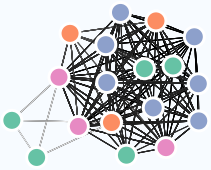
# ALEX RAJEWSKI

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.



## WORK EXPERIENCE

current | 2023

### Senior Computational Biologist

Tempus AI

2023 | 2022

### Bioinformatics Scientist

Tempus AI (fmr. 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

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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in/alexrajewski


## LANGUAGE SKILLS

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

## 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

## SELECTED PUBLICATIONS

2024 **SOX9 switch links regeneration to fibrosis at the single-cell level in mammalian kidneys**
Science
S. Aggarwal; Z. Wang; D Rincon Fernandez Pacheco; A Rinaldi; **A. Rajewski**; J. Callemeyn; E. Van Loon; B. Lamarthée; A. Ester Covarrubias; Jean Hou et al.

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 **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

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