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 — 2022

Bioinformatics Scientist
SEngine Precision Medicine

· Development of high-throughput drug screening analysis pipelines
· 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

CONTACT

- ✉ AlexCRajewski@gmail.com
- ⓖ github.com/rajewski
- 🔗 rajewski.github.io
- in in/alexrajewski
- 🐦 Rajewski

LANGUAGE SKILLS

R

German

Docker/Singularity

Shell

Nextflow

Python

SQL

汉语

Aug 2009 | May 2009

NSF Research Intern

North Carolina State University

· Validated viral protein production in novel hosts

📖 PEER–REVIEWED PUBLICATIONS

2022

Multispecies Transcriptomes Reveal Core Fruit Development Genes

Frontiers in Plant Science (In Review)
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