

Robert Allaway

PRINCIPAL SCIENTIST

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Job History

Principal Scientist	Sage Bionetworks
SCIENTIFIC COORDINATION & COMMUNITY ENGAGEMENT	2022 - Present
Senior Scientist	Seattle, WA
COMPUTATIONAL ONCOLOGY, SAGE BIONETWORKS	2020 - 2022
Research Scientist	Seattle, WA
COMPUTATIONAL ONCOLOGY, SAGE BIONETWORKS	2018 - 2020
Postdoctoral Fellow	Seattle, WA
COMPUTATIONAL ONCOLOGY, SAGE BIONETWORKS	2016 - 2018
Biological Sciences Technician	White Oak, MD
DIVISION OF APPLIED PHARMACOLOGY RESEARCH, CDER, FDA	2010 - 2010
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DIVISION OF APPLIED PHARMACOLOGY RESEARCH, CDER, FDA	2009 - 2009
Biological Sciences Aide	White Oak, MD
DIVISION OF APPLIED PHARMACOLOGY RESEARCH, CDER, FDA	2008 - 2008

Education

Dartmouth College Geisel School of Medicine	Hanover, NH, US
PhD EXPERIMENTAL AND MOLECULAR MEDICINE	2011 - 2016
Dickinson College	Carlisle, PA, US
BS BIOLOGY, BS CHEMISTRY	2007 - 2011

Selected Publications

(*indicates co-first authors, ^indicates co-corresponding authors)

1. Sun* D, Nguyen* T, Allaway* R, et.al. A crowdsourcing approach to develop machine learning models to quantify radiographic joint damage in rheumatoid arthritis. *JAMA Network Open* (in press). Published online 2022. doi:10.1101/2021.10.25.21265495
2. Banerjee J, ..., Allaway^ R, Blakeley^ J. COVID-19 in people with neurofibromatosis 1, neurofibromatosis 2, or schwannomatosis. *medRxiv (preprint server)*. Published online 2022. doi:10.1101/2022.03.31.22273208
3. Clayton* A, DeFelice* M, Zalmanek* B, ..., Goss^ J, Allaway^ R. Centralizing neurofibromatosis experimental tool knowledge with the NF research tools database. *Database*. Published online 2022. doi:10.1093/database/baac045
4. Douglass* E, Allaway* R, Szalai* B, et.al. A community challenge for a pancancer drug mechanism of action inference from perturbational profile data. *Cell Reports Medicine*. Published online 2022:100492. doi:10.1016/j.xcrm.2021.100492
5. Xiong* Z, Jeon* M, Allaway* R, et.al. Crowdsourced identification of multi-target kinase inhibitors for RET- and TAU-based disease: The multi-targeting drug DREAM challenge. *PLOS Computational Biology*. Published online September 2021. doi:10.1371/journal.pcbi.1009302
6. Cichonska* A, Ravikumar* B, Allaway* R, et.al. Crowdsourced mapping of unexplored target space of kinase inhibitors. *Nature Communications*. Published online June 3, 2021. doi:10.1038/s41467-021-23165-1
7. Banerjee* J, Allaway* R, et.al. Integrative analysis identifies candidate tumor microenvironment and intracellular signaling pathways that define tumor heterogeneity in NF1. *Genes*. Published online 2020. doi:10.3390/genes11020226

8. Allaway R, et.al. Engaging a community to enable disease-centric data sharing with the NF data portal. *Scientific Data*. Published online December 2019. doi:10.1038/s41597-019-0317-x
9. Allaway R, et.al. Probing the chemical-biological relationship space with the drug target explorer. *Journal of Cheminformatics*. Published online August 2018. doi:10.1186/s13321-018-0297-4
10. Allaway R, et.al. Cutaneous neurofibromas in the genomics era: Current understanding and open questions. *British Journal of Cancer*. Published online April 2018. doi:10.1038/s41416-018-0073-2
11. Allaway R, et.al. Exploiting mitochondrial and metabolic homeostasis as a vulnerability in NF1 deficient cells. *Oncotarget*. Published online 2018:15860-15875.
12. Allaway* R, Fischer* D, et.al. Genomic characterization of patient-derived xenograft models established from fine needle aspirate biopsies of a primary pancreatic ductal adenocarcinoma and from patient-matched metastatic sites. *Oncotarget*. Published online March 2016. doi:10.18632/oncotarget.7718

Society Membership

Open Bioinformatics Foundation

MEMBER 2021 - Present

Calyx Institute

SUSTAINER 2021 - Present

Puget Sound Mycological Society

MEMBER 2021 - Present

Data Visualization Society

MEMBER 2019 - Present

International Society for Computational Biology

MEMBER 2019 - 2021

American Association for Cancer Research

ACTIVE MEMBER 2018 - Present

American Chemical Society

MEMBER 2013 - 2019

Peer Review and Service

Manuscript Reviewer

BIOINFORMATICS, JOURNAL OF CHEMINFORMATICS, BMC CANCER, JOURNAL OF CELLULAR AND MOLECULAR MEDICINE, PLOS COMPUTATIONAL BIOLOGY

Grant Reviewer

CHILDREN'S TUMOR FOUNDATION, CD2H IDEA COMPETITION

Mentor and Co-Organizer

2019 NEUROFIBROMATOSIS HACKATHON, 2020 NEUROFIBROMATOSIS HACKATHON, 2021 HACK4RARE, 2022 HACK4NF (IN DEVELOPMENT)

Awards

Children's Tumor Foundation

TEAM SCIENCE AWARD 2017

Albert J. Ryan Foundation

RYAN FELLOW 2016

Dartmouth College

GRADUATE STUDIES TRAVEL AWARD 2015

American Association for the Advancement of Science

PROGRAM FOR EXCELLENCE IN SCIENCE 2015

Children's Tumor Foundation

YOUNG INVESTIGATOR AWARD

- 2 years of research and travel funding totaling \$69,000

2014 - 2016

Dickinson College Chemistry Department

JOHN E. BENSON HANDBOOK AWARD

2011

Undergraduate Research Fellowship

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION (ORISE)

2010