

Stanford

Jack Rose

Postdoctoral Scholar, Dermatology

Bio

PROFESSIONAL EDUCATION

- BS, Stanford University , Biological Sciences (2008)
- MPhil, University of Cambridge , Computational Biology (2010)
- PhD, University of Washington , Molecular and Cellular Biology (2017)
- MD, University of Washington (2019)

STANFORD ADVISORS

- Howard Chang, Postdoctoral Research Mentor

Publications

PUBLICATIONS

- **Suppression of unwanted CRISPR-Cas9 editing by co-administration of catalytically inactivating truncated guide RNAs.** *Nature communications*
Rose, J. C., Popp, N. A., Richardson, C. D., Stephany, J. J., Mathieu, J., Wei, C. T., Corn, J. E., Maly, D. J., Fowler, D. M.
2020; 11 (1): 2697
- **Rapidly inducible Cas9 and DSB-ddPCR to probe editing kinetics** *NATURE METHODS*
Rose, J. C., Stephany, J. J., Valente, W. J., Trevillian, B. M., Dang, H. V., Bielas, J. H., Maly, D. J., Fowler, D. M.
2017; 14 (9): 891-+
- **A computationally engineered RAS rheostat reveals RAS-ERK signaling dynamics** *NATURE CHEMICAL BIOLOGY*
Rose, J. C., Huang, P., Camp, N. D., Ye, J., Leidal, A. M., Goreshnik, I., Trevillian, B. M., Dickinson, M. S., Cunningham-Bryant, D., Debnath, J., Baker, D., Wolf-Yadlin, A., Maly, et al
2017; 13 (1): 119-126
- **DIFFERENTIAL LOCALIZATION OF AN ENGINEERED RAS RHEOSTAT REVEALS UNIQUE RAS-ERK SIGNALING DYNAMICS**
Dieter, E. M., Rose, J., Maly, D.
WILEY.2019: 158-59
- **A Chemically Disrupted Proximity System for Controlling Dynamic Cellular Processes** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Cunningham-Bryant, D., Dieter, E. M., Foight, G. W., Rose, J. C., Loutey, D. E., Maly, D. J.
2019; 141 (8): 3352-55
- **"Examining RAS pathway rewiring with a chemically inducible activator of RAS".** *Small GTPases*
Rose, J. C., Dieter, E. M., Cunningham-Bryant, D., Maly, D. J.
2018: 1-8
- **PAZOPANIB-INDUCED RHABDOMYOLYSIS IN THE SETTING OF HYPOTHYROIDISM**
Crooks, C. P., Ghiathi, C., Rose, J. C., Redinger, J.
SPRINGER.2018: S585
- **Rheostatic Control of Cas9-Mediated DNA Double Strand Break (DSB) Generation and Genome Editing** *ACS CHEMICAL BIOLOGY*
Rose, J. C., Stephany, J. J., Wei, C. T., Fowler, D. M., Maly, D. J.

2018; 13 (2): 438–42

- **Principles of Systems Biology, No. 14** *CELL SYSTEMS*

Erez, Z., Sorek, R., Shao, S., Hegde, R. S., Schweppe, D. K., Chavez, J. D., Bruce, J. E., Mizrahi, E., Verbeke, L., de Peer, Y., Marchal, K., Myburg, A. A., Bennett, et al

2017; 4 (2): 140–43

- **Mechanisms of resistance to cabazitaxel.** *Molecular cancer therapeutics*

Duran, G. E., Wang, Y. C., Francisco, E. B., Rose, J. C., Martinez, F. J., Coller, J., Brassard, D., Vrignaud, P., Sikic, B. I.

2015; 14 (1): 193-201

- **HTSanalyzeR: an R/Bioconductor package for integrated network analysis of high-throughput screens** *BIOINFORMATICS*

Wang, X., Terfve, C., Rose, J. C., Markowetz, F.

2011; 27 (6): 879–80

- **The expression of activator protein 2 (AP-2) transcription factors in MDR1(+) and MDR1(-) taxane resistant human breast carcinoma variants.**

Rose, J., Duran, G., Sikic, B.

AMER ASSOC CANCER RESEARCH.2009