

## Kevin Richard Jones Roy

- Postdoctoral Research Fellow, Genetics
- Basic Life Science Research Scientist, Genetics

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, University of California Los Angeles (2009)
- Master of Science, University of California Los Angeles (2009)
- Doctor of Philosophy, University of California Los Angeles (2015)

### Publications

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#### PUBLICATIONS

- **Multiplexed precision genome editing with trackable genomic barcodes in yeast.** *Nature biotechnology*  
Roy, K. R., Smith, J. D., Vonesch, S. C., Lin, G., Tu, C. S., Lederer, A. R., Chu, A., Suresh, S., Nguyen, M., Horecka, J., Tripathi, A., Burnett, W. T., Morgan, et al  
2018
- **Common genomic elements promote transcriptional and DNA replication roadblocks.** *Genome research*  
Roy, K., Gabunilas, J., Gillespie, A., Ngo, D., Chanfreau, G. F.  
2016; 26 (10): 1363–75
- **Stress-Induced Nuclear RNA Degradation Pathways Regulate Yeast Bromodomain Factor 2 to Promote Cell Survival** *PLOS GENETICS*  
Roy, K., Chanfreau, G.  
2014; 10 (9)
- **Engineered Graphene Oxide Nanocomposite Capable of Preventing the Evolution of Antimicrobial Resistance.** *ACS nano*  
Zheng, H., Ji, Z., Roy, K. R., Gao, M., Pan, Y., Cai, X., Wang, L., Li, W., Chang, C. H., Kaweeteerawat, C., Chen, C., Xia, T., Zhao, et al  
2019
- **Robust mapping of polyadenylated and non-polyadenylated RNA 3' ends at nucleotide resolution by 3'-end sequencing.** *Methods (San Diego, Calif.)*  
Roy, K. R., Chanfreau, G. F.  
2019
- **Multiplexed precision genome editing with trackable genomic barcodes in yeast** *NATURE BIOTECHNOLOGY*  
Roy, K. R., Smith, J. D., Vonesch, S. C., Lin, G., Tu, C., Lederer, A. R., Chu, A., Suresh, S., Nguyen, M., Horecka, J., Tripathi, A., Burnett, W. T., Morgan, et al  
2018; 36 (6): 512-+
- **A global function for transcription factors in assisting RNA polymerase II termination.** *Transcription*  
Roy, K., Chanfreau, G. F.  
2018; 9 (1): 41–46
- **A method for high-throughput production of sequence-verified DNA libraries and strain collections.** *Molecular systems biology*  
Smith, J. D., Schlecht, U., Xu, W., Suresh, S., Horecka, J., Proctor, M. J., Aiyar, R. S., Bennett, R. A., Chu, A., Li, Y. F., Roy, K., Davis, R. W., Steinmetz, et al  
2017; 13 (2): 913-?
- **Methylation of yeast ribosomal protein Rpl3 promotes translational elongation fidelity.** *RNA (New York, N.Y.)*  
Al-Hadid, Q., Roy, K., Chanfreau, G., Clarke, S. G.  
2016; 22 (4): 489-498

- **Cu Nanoparticles Have Different Impacts in Escherichia coli and Lactobacillus brevis than Their Microsized and Ionic Analogues** *ACS NANO*  
Kaweeteerawat, C., Chang, C. H., Roy, K. R., Liu, R., Li, R., Toso, D., Fischer, H., Ivask, A., Ji, Z., Zink, J. I., Zhou, Z. H., Chanfreau, G. F., Telesca, et al  
2015; 9 (7): 7215-7225
- **Translational Roles of Elongation Factor 2 Protein Lysine Methylation** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Dzialo, M. C., Travaglini, K. J., Shen, S., Roy, K., Chanfreau, G. F., Loo, J. A., Clarke, S. G.  
2014; 289 (44): 30511-30524
- **Histidine methylation of yeast ribosomal protein Rpl3p is required for proper 60S subunit assembly.** *Molecular and cellular biology*  
Al-Hadid, Q., Roy, K., Munroe, W., Dzialo, M. C., Chanfreau, G. F., Clarke, S. G.  
2014; 34 (15): 2903-16
- **Intrinsic Dynamics of an Extended Hydrophobic Core in the S. cerevisiae RNase III dsRBD Contributes to Recognition of Specific RNA Binding Sites** *JOURNAL OF MOLECULAR BIOLOGY*  
Hartman, E., Wang, Z., Zhang, Q., Roy, K., Chanfreau, G., Feigon, J.  
2013; 425 (3): 546-562
- **The Diverse Functions of Fungal RNase III Enzymes in RNA Metabolism.** *The Enzymes*  
Roy, K., Chanfreau, G. F.  
2012; 31: 213-35
- **Structure of a Yeast RNase III dsRBD Complex with a Noncanonical RNA Substrate Provides New Insights into Binding Specificity of dsRBDs** *STRUCTURE*  
Wang, Z., Hartman, E., Roy, K., Chanfreau, G., Feigon, J.  
2011; 19 (7): 999-1010