

## Charles Limouse

Basic Life Research Scientist, Biochemistry

### Publications

---

#### PUBLICATIONS

- **Mapping Transcriptome-Wide and Genome-Wide RNA-DNA Contacts with Chromatin-Associated RNA Sequencing (ChAR-seq).** *Methods in molecular biology (Clifton, N.J.)*  
Limouse, C., Jukam, D., Smith, O. K., Fryer, K. A., Straight, A. F.  
2020; 2161: 115–42
- **Chromatin-Associated RNA Sequencing (ChAR-seq).** *Current protocols in molecular biology*  
Jukam, D., Limouse, C., Smith, O. K., Risca, V. I., Bell, J. C., Straight, A. F.  
2019; e87
- **Measurement of Mesoscale Conformational Dynamics of Freely Diffusing Molecules with Tracking FCS** *BIOPHYSICAL JOURNAL*  
Limouse, C., Bell, J. C., Fuller, C. J., Straight, A. F., Mabuchi, H.  
2018; 114 (7): 1539–50
- **Dentate gyrus mossy cells control spontaneous convulsive seizures and spatial memory** *Science*  
Bui, A., et al  
2018; 787–90
- **Dentate gyrus mossy cells control spontaneous convulsive seizures and spatial memory.** *Science (New York, N.Y.)*  
Bui, A. D., Nguyen, T. M., Limouse, C. n., Kim, H. K., Szabo, G. G., Felong, S. n., Maroso, M. n., Soltesz, I. n.  
2018; 359 (6377): 787–90
- **Quantitative tests of a reconstitution model for RNA folding thermodynamics and kinetics** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Bisaria, N., Greenfeld, M., Limouse, C., Mabuchi, H., Herschlag, D.  
2017; 114 (37): E7688–E7696
- **Single-Molecule Fluorescence Reveals Commonalities and Distinctions among Natural and in Vitro-Selected RNA Tertiary Motifs in a Multistep Folding Pathway** *Journal of the American Chemical Society*  
Bonilla, S., Limouse, C., Bisaria, N., Gebala, M., Mabuchi, H., Herschlag, D.  
2017; 18576–18589
- **Single-Molecule Fluorescence Reveals Commonalities and Distinctions among Natural and in Vitro-Selected RNA Tertiary Motifs in a Multistep Folding Pathway.** *Journal of the American Chemical Society*  
Bonilla, S. n., Limouse, C. n., Bisaria, N. n., Gebala, M. n., Mabuchi, H. n., Herschlag, D. n.  
2017; 139 (51): 18576–89
- **Xenopus laevis M18BP1 Directly Binds Existing CENP-A Nucleosomes to Promote Centromeric Chromatin Assembly.** *Developmental cell*  
French, B. T., Westhorpe, F. G., Limouse, C. n., Straight, A. F.  
2017; 42 (2): 190–99.e10
- **Kinetic and thermodynamic framework for P4-P6 RNA reveals tertiary motif modularity and modulation of the folding preferred pathway.** *Proceedings of the National Academy of Sciences of the United States of America*  
Bisaria, N., Greenfeld, M., Limouse, C., Pavlichin, D. S., Mabuchi, H., Herschlag, D.  
2016; 113 (34): E4956–65
- **Protein flexibility is required for vesicle tethering at the Golgi.** *eLife*

Cheung, P. P., Limouse, C., Mabuchi, H., Pfeffer, S. R.  
2015; 4