

Stanford

Andrew Watkins

Postdoctoral Research Fellow, Biochemistry

Bio

PROFESSIONAL EDUCATION

- Bachelor of Arts, Harvard University (2011)
- Doctor of Philosophy, New York University (2016)

STANFORD ADVISORS

- Rhiju Das, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **A conserved RNA structural motif for organizing topology within picornaviral internal ribosome entry sites.** *Nature communications*
Koirala, D., Shao, Y., Koldobskaya, Y., Fuller, J. R., Watkins, A. M., Shelke, S. A., Pilipenko, E. V., Das, R., Rice, P. A., Piccirilli, J. A.
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- **Structure and ligand binding of the glutamine-II riboswitch.** *Nucleic acids research*
Huang, L., Wang, J., Watkins, A. M., Das, R., Lilley, D. M.
2019
- **Using Rosetta for RNA homology modeling.** *Methods in enzymology*
Watkins, A. M., Rangan, R., Das, R.
2019; 623: 177–207
- **Blind prediction of noncanonical RNA structure at atomic accuracy.** *Science advances*
Watkins, A. M., Geniesse, C., Kladwang, W., Zakrevsky, P., Jaeger, L., Das, R.
2018; 4 (5): eaar5316
- **Protein-Protein Interactions Mediated by Helical Tertiary Structure Motifs** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Watkins, A. M., Wuo, M. G., Arora, P. S.
2015; 137 (36): 11622-11630
- **Structure-based inhibition of protein-protein interactions** *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*
Watkins, A. M., Arora, P. S.
2015; 94: 480-488
- **Anatomy of beta-Strands at Protein-Protein Interfaces** *ACS CHEMICAL BIOLOGY*
Watkins, A. M., Arora, P. S.
2014; 9 (8): 1747-1754
- **Effects of side chains in helix nucleation differ from helix propagation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Miller, S. E., Watkins, A. M., Kallenbach, N. R., Arora, P. S.
2014; 111 (18): 6636-6641
- **HippDB: a database of readily targeted helical protein-protein interactions** *BIOINFORMATICS*
Bergey, C. M., Watkins, A. M., Arora, P. S.

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● **Adding Diverse Noncanonical Backbones to Rosetta: Enabling Peptidomimetic Design** *PLOS ONE*

Drew, K., Renfrew, P. D., Craven, T. W., Butterfoss, G. L., Chou, F., Lyskov, S., Bullock, B. N., Watkins, A., Labonte, J. W., Pacella, M., Kilambi, K. P., Leaver-Fay, A., Kuhlman, et al

2013; 8 (7)