

## Michael Palo

Ph.D. Student in Structural Biology, admitted Autumn 2019

### Publications

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#### PUBLICATIONS

- **N6-methyladenosine in 5' UTR does not promote translation initiation.** *Molecular cell*  
Guca, E., Alarcon, R., Palo, M. Z., Santos, L., Alonso-Gil, S., Davyt, M., de Lima, L. H., Boissier, F., Das, S., Zagrovic, B., Puglisi, J. D., Hashem, Y., Ignatova, et al  
2024
- **Minimization of the E. coli ribosome, aided and optimized by community science.** *Nucleic acids research*  
Tangpradabkul, T., Palo, M., Townley, J., Hsu, K. B., Participants, E., Smaga, S., Das, R., Schepartz, A.  
2024
- **Snapshots of the second-step self-splicing of Tetrahymena ribozyme revealed by cryo-EM.** *Nature communications*  
Li, S., Palo, M. Z., Zhang, X., Pintilie, G., Zhang, K.  
2023; 14 (1): 1294
- **Snapshots of the first-step self-splicing of Tetrahymena ribozyme revealed by cryo-EM.** *Nucleic acids research*  
Zhang, X., Li, S., Pintilie, G., Palo, M. Z., Zhang, K.  
2023
- **Topological crossing in the misfolded Tetrahymena ribozyme resolved by cryo-EM.** *Proceedings of the National Academy of Sciences of the United States of America*  
Li, S., Palo, M. Z., Pintilie, G., Zhang, X., Su, Z., Kappel, K., Chiu, W., Zhang, K., Das, R.  
2022; 119 (37): e2209146119
- **Conserved Trigger Loop Histidine of RNA Polymerase II Functions as a Positional Catalyst Primarily through Steric Effects.** *Biochemistry*  
Palo, M. Z., Zhu, J., Mishanina, T. V., Landick, R.  
2021
- **Cryo-EM structures of full-length Tetrahymena ribozyme at 3.1 Å resolution.** *Nature*  
Su, Z., Zhang, K., Kappel, K., Li, S., Palo, M. Z., Pintilie, G. D., Rangan, R., Luo, B., Wei, Y., Das, R., Chiu, W.  
2021
- **Cross-Regulation between TDP-43 and Paraspeckles Promotes Pluripotency-Differentiation Transition.** *Molecular cell*  
Modic, M., Grosch, M., Rot, G., Schirge, S., Lepko, T., Yamazaki, T., Lee, F. C., Rusha, E., Shaposhnikov, D., Palo, M., Merl-Pham, J., Cacchiarelli, D., Rogelj, et al  
2019; 74 (5): 951-965.e13
- **Trigger loop of RNA polymerase is a positional, not acid-base, catalyst for both transcription and proofreading.** *Proceedings of the National Academy of Sciences of the United States of America*  
Mishanina, T. V., Palo, M. Z., Nayak, D., Mooney, R. A., Landick, R.  
2017; 114 (26): E5103-E5112