Stanford

Muneaki Nakamura

Basic Life Research Scientist

Bioengineering

Bio

ACADEMIC APPOINTMENTS

- Basic Life Science Research Associate, Bioengineering

Publications

PUBLICATIONS

- **Optical control of fast and processive engineered myosins in vitro and in living cells.** *Nature chemical biology*
  Ruijgrok, P. V., Ghosh, R. P., Zemsky, S. n., Nakamura, M. n., Gong, R. n., Ning, L. n., Chen, R. n., Vachharajani, V. T., Chu, A. E., Anand, N. n., Eguchi, R. R., Huang, P. S., Lin, et al
  2021

- **Engineered miniature CRISPR-Cas system for mammalian genome regulation and editing.** *Molecular cell*
  Xu, X., Chemparathy, A., Zeng, L., Kempton, H. R., Shang, S., Nakamura, M., Qi, L. S.
  2021

- **CRISPR technologies for precise epigenome editing.** *Nature cell biology*
  Nakamura, M., Gao, Y., Dominguez, A. A., Qi, L. S.
  2021; 23 (1): 11–22

- **Anti-CRISPR-mediated control of gene editing and synthetic circuits in eukaryotic cells.** *Nature communications*
  Nakamura, M., Srinivasan, P., Chavez, M., Carter, M. A., Dominguez, A. A., La Russa, M., Lau, M. B., Abbott, T. R., Xu, X., Zhao, D., Gao, Y., Kipniss, N. H., Smolke, et al
  2019; 10 (1): 194

- **CRISPR-mediated live imaging of genome editing and transcription.** *Science (New York, N.Y.)*
  Wang, H. n., Nakamura, M. n., Abbott, T. R., Zhao, D. n., Luo, K. n., Yu, C. n., Nguyen, C. M., Lo, A. n., Daley, T. P., La Russa, M. n., Liu, Y. n., Qi, L. S.
  2019

- **Remote control of myosin and kinesin motors using light-activated gearshifting.** *Nature nanotechnology*
  Nakamura, M., Chen, L., Howes, S. C., Schindler, T. D., Nogales, E., Bryant, Z.
  2014; 9 (9): 693-697

- **Engineering myosins for long-range transport on actin filaments** *NATURE NANOTECHNOLOGY*
  Schindler, T. D., Chen, L., Lebel, P., Nakamura, M., Bryant, Z.
  2014; 9 (1): 33-38

- **Engineering controllable bidirectional molecular motors based on myosin** *NATURE NANOTECHNOLOGY*
  Chen, L., Nakamura, M., Schindler, T. D., Parker, D., Bryant, Z.
  2012; 7 (4): 252-256

- **Real-time observation of RecA filament dynamics with single monomer resolution** *CELL*

Joo, C., McKinney, S. A., Nakamura, M., Rasnik, I., Myong, S., Ha, T.
2006; 126 (3): 515-527