




Youngbin Lim

Postdoctoral Research Fellow, Chemical and Systems Biology

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- National Junior Researcher Fellowship, National Research Foundation of Korea (2010-2015)
- Outstanding Poster & Presentation Award, 108th Korean Chemical Society Meeting (2011)
- National Science & Technology Undergraduate Scholarship, National Research Foundation of Korea (2004)

PROFESSIONAL EDUCATION

- Bachelor of Science, Seoul National University (2009)
- Doctor of Philosophy, Seoul National University (2015)

STANFORD ADVISORS

- Joanna Wysocka, Postdoctoral Research Mentor
- Joanna Wysocka, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease.** *Nature communications*
Lim, Y., Bak, S. Y., Sung, K., Jeong, E., Lee, S. H., Kim, J. S., Bae, S., Kim, S. K.
2016; 7: 13350
- **Recent advancement of light-based single-molecule approaches for studying biomolecules** *WILEY INTERDISCIPLINARY REVIEWS-SYSTEMS BIOLOGY AND MEDICINE*
Croop, B., Zhang, C., Lim, Y., Gelfand, R. M., Han, K.
2019; 11 (4)
- **Incorporation of STED technique into single-molecule spectroscopy to break the concentration limit of diffusing molecules in single-molecule detection** *CHEMICAL COMMUNICATIONS*
Kim, N., Kwon, J., Lim, Y., Kang, J., Bae, S., Kim, S.
2018; 54 (69): 9667–70
- **Noncanonical DNA-binding mode of repressor and its disassembly by antirepressor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Kim, M., Kim, H. J., Son, S. H., Yoon, H. J., Lim, Y., Lee, J. W., Seok, Y., Jin, K. S., Yu, Y. G., Kim, S. K., Ryu, S., Lee, H. H.
2016; 113 (18): E2480-E2488
- **New sub-diffraction-limit microscopy technique: Dual-point illumination AND-gate microscopy on nanodiamonds (DIAMOND)** *OPTICS EXPRESS*
Kwon, J., Lim, Y., Jung, J., Kim, S. K.
2012; 20 (12): 13347-13356

PRESENTATIONS

- Single-molecule study for cooperative translocation motion of nsP13 helicase during duplex DNA unwinding - 108th Korean Chemical Society Meeting
- Real-time Single-Molecule Observation of the Proofreading Process during DNA Replication - 54th Biophysical Society Annual Meeting