

Curriculum Vitae

Mikihiro SHIBATA

WPI Nano Life Science Institute (WPI-NanoLSI), Kanazawa University
High-speed Bio-AFM Research Unit, Institute for Frontier Science Initiative, Kanazawa University
Associate Professor/Unit Leader

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Education

- 2007 Ph.D. Department of Materials Science and Engineering,
Nagoya Institute of Technology, Japan, Ph. D. (Engineering)
- 2005 M.Sc. Department of Materials Science and Engineering,
Nagoya Institute of Technology, Japan
- 2003 B.Sc. Department of Materials Science and Engineering,
Nagoya Institute of Technology, Japan

Employment

- Oct 2017 - Present Associate Professor
WPI Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, Japan
- Sep 2016 - Present Associate Professor/Unit Leader
High-speed Bio-AFM Research Unit, Institute for Frontier Science Initiative,
Kanazawa University, Japan
- Mar 2016 - Aug 2016 Associate Professor
Department of Physics, Kanazawa University, Japan
- Aug 2015 - Feb 2016 Postdoctoral Research Fellow
Kanazawa University, Japan
- Apr 2013 - Jul 2015 Postdoctoral Research Fellow
Max Planck Florida Institute for Neuroscience, USA
- Apr 2011 - Mar 2013 JSPS Postdoctoral Fellow for Research Abroad

Duke University Medical School, USA

Apr 2008 - Mar 2011 Research Fellow of the Japan Society for the Promotion of Science, SPD
Kanazawa University, Japan

Apr 2007 - Mar 2008 Research Fellow of the Japan Society for the Promotion of Science, PD
Nagoya Institute of Technology, Japan

Apr 2005 - Mar 2007 Research Fellow of the Japan Society for the Promotion of Science, DC1
Nagoya Institute of Technology, Japan

Honors and awards

Apr 2018 The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science
and Technology The Young Scientists' Prize

Nov 2009 Young Researchers' Prize of the Biophysical Society of Japan

Research Fields

Biophysics

Representative publications

1. **M. Shibata**⁺, K. Inoue⁺, K. Ikeda, M. Konno, M. Singh, C. Kataoka, R. Abe-Yoshizumi, H. Kandori, and T. Uchihashi, "Oligomeric States of Microbial Rhodopsins Determined by High-speed Atomic Force Microscopy and Circular Dichroic Spectroscopy." *Sci. Rep.* 8, 8262 (2018). (+equal contribution)
2. **M. Shibata**^{*,+}, H. Nishimasu^{*,+}, N. Kodera, S. Hirano, T. Ando, T. Uchihashi, and O. Nureki^{*}, "Real-space and Real-time Dynamics of CRISPR-Cas9 Visualized by High-speed Atomic Force Microscopy." *Nat. Commun.* 8, 1430 (2017). (+equal contribution, *co-corresponding author)
3. **M. Shibata**^{*}, T. Uchihashi, T. Ando and R. Yasuda^{*}, "Long-tip High-speed Atomic Force Microscopy for Nanometer-scale Imaging in Live Cells." *Sci. Rep.* 5, 8724 (2015). (* co-corresponding author)
4. **M. Shibata**, T. Uchihashi, H. Yamashita, H. Kandori and T. Ando, "Structural Changes in Bacteriorhodopsin in Response to Alternate Illumination Observed by High-speed Atomic Force Microscopy." *Angew. Chem. Int. Ed.* 50, 4410-4413 (2011).
5. **M. Shibata**, H. Yamashita, T. Uchihashi, H. Kandori, and T. Ando, "High-speed Atomic Force Microscopy Shows Dynamic Molecular Processes in Photoactivated Bacteriorhodopsin." *Nature Nanotech.* 5, 208-212 (2010).