CURRICULUM VITAE

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Education

2021 – Present	Ph.D. candidate in School of Life Science and Technology, Tokyo Institute of Technology, Japan Supervisor: Prof. Takafumi Ueno
2019 – 2021	M.S. in School of Life Science and Technology, Tokyo Institute of Technology, Japan Supervisor: Prof. Takafumi Ueno
2015 –2019	B.S. in School of Life Science and Technology, Tokyo Institute of Technology, Japan Supervisor: Prof. Takafumi Ueno

Research Interests

Protein Engineering, Protein Self-assembly, Biophysics, Biomaterial engineering, High-speed Atomic Force Microscopy (HS-AFM)

Fellowships

Apr 2022 – Present	Junior Research Fellow (DC2), Japan Society for the Promotion of Science (JSPS)
Apr 2021 – Mar 2022	Life Science and Technology Research Fellow, Tokyo Institute of Technology

Awards

Jan 2022	15th Ohsumi Journal Award Tokyo Institute of Technology [Tokyo Tech News]
Dec 2019	Interim Poster Presentation Award Tokyo Institute of Technology
Nov 2019	CSJ Poster Presentation Award The 9th CSJ Chemistry Festa, Japan (2019) [Tokyo Tech News]
Jun 2019	MRS Best Poster Award The 10th International Conference on Materials for Advanced Technologies, Singapore [Tokyo Tech News]

Publications

1. **Kikuchi, K.**, Fukuyama, T., Uchihashi, T., Furuta, T., Maeda, Y. T., Ueno, T. Protein Needles Designed to Self-Assemble through Needle Tip Engineering. *Small* **18**, e2106401, doi:10.1002/smll.202106401 (2022).

   Appeared in Science Japan, 客觀日本, 科学新聞 (1/28 号) etc.
   [Tokyo Tech News] [Tokyo Tech YouTube]
2. Nguyen, Q. D., **Kikuchi, K.**, Kojima, M. & Ueno, T. Dynamic Behavior of Cargo Proteins Regulated by Linker Peptides on a Protein Needle Scaffold. *Chemistry Letters* **51**, 73-76, doi:10.1246/cl.210599 (2022).
3. Nguyen, Q. D., **Kikuchi, K.**, Maity, B. & Ueno, T. The Versatile Manipulations of Self-Assembled Proteins in Vaccine Design. *Int J Mol Sci* **22**, 1-21, doi:10.3390/ijms22041934 (2021).
4. Ueno, T., Niwase, K., Tsubokawa, D., **Kikuchi, K.**, Takai, N., Furuta, T., Kawano, R. & Uchihashi, T. Dynamic behavior of an artificial protein needle contacting a membrane observed by high-speed atomic force microscopy. *Nanoscale* **12**, 8166-8173, doi:10.1039/d0nr01121e (2020).

Presentations

Mar 2022	The 102nd CSJ Annual Meeting (Online, Japan) “Design of the heteroepitaxial vertical assembly of asymmetric protein needles.”
Sep 2021	The 15th Symposium on Biorelevant Chemistry (Online, Japan) “Controlling the two-dimensional assembly of β-helical protein needles by engineering the distal ends.”
Sep 2021	The 70th Symposium on Macromolecules (Online, Japan) “Modulation of two-dimensional assembly patterns of protein needles by engineering the distal ends.”
Jul 2021	生体機能関連化学部会 若手の会 第 32 回サマースクール (Online, Japan) “タンパク質分子針の末端デザインによる二次元集合パターン構築.”
Jun 2021	第 1 回発動分子科学研究会 (Online, Japan) “タンパク質分子針の末端設計による二次元集合パターン制御.”
Mar 2021	The 101st CSJ Annual Meeting (Online, Japan) “Design of the dynamic assembly behaviors of artificial β-helical protein needles.”
Sep 2020	The 69th Symposium on Macromolecules (Online, Japan) “Design of the two-dimensional protein assembly patterns by β-helical protein needle.”
Mar 2020	The 100th CSJ Annual Meeting (Chiba, Japan) “Design of the Two-dimensional Protein Assembly Patterns by Modifying the Tip of β-helical Protein Needle.”
Oct 2019	The 9th CSJ Chemistry Festa (Tokyo, Japan) “Analysis of the Assembly Structures of Needle-like Protein by High-speed Atomic Force Microscopy.” **(CSJ Poster Presentation Award)**
Sep 2019	The 68th Symposium on Macromolecules (Fukui, Japan) “Direct Observation of the Assembly Structures of Needle-Shaped Proteins by High Speed Atomic Force Microscopy.”
Jun 2019	The 10th International Conference on Materials for Advanced Technologies (Singapore, Singapore) “Assembly Formation of Needle-Like Protein from Bacteriophage T4 Observed by High Speed Atomic Force Microscopy.” **(MRS Best Poster Award)**
Mar 2019	The 99th CSJ Annual Meeting (Hyogo, Japan) “Analysis of the assembly formation of needle-like protein from bacteriophage T4 by using high speed atomic force microscopy.”