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Education

- 2011 Bachelor of Science, Kyushu University, Japan
Advisor: Prof. Daisuke Kohda
- 2017 Ph.D., Kyushu University, Japan
Advisor: Prof. Daisuke Kohda

Positions since final degree

- 2017 Postdoctoral Fellow, Medical Institute of Bioregulation, Kyushu University,
Japan
Advisor: Prof. Daisuke Kohda
- 2019 Postdoctoral Fellow, Department of Chemistry, University of Illinois at Urbana-
Champaign, Illinois
Advisor: Prof. Wilfred A. van der Donk
- 2021 Postdoctoral Fellow, Graduate school of Pharmaceutical Sciences, The University
of Tokyo, Japan
Advisor: Prof. Ikuro Abe
- 2022 Assistant professor, Department of Food Science and Biotechnology, University of
Shizuoka, Japan

Affiliations

The Nuclear Magnetic Resonance Society of Japan

Fellowships and Awards

- Uehara Memorial Foundation postdoctoral fellowship (2020)
Grant for Studying Overseas from The Naito Foundation (2019)

Publications

Kohda D, Hayashi S, Fujinami D. Residue-based quadratic free energy relationship is a

mathematical formulation of the consistency principle of protein folding. bioRxiv
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Fujinami D, Hayashi S, Kohda D. Retrospective study for the universal applicability of the residue-based linear free energy relationship in the two-state exchange of protein molecules. *Sci Rep.* 2022 Oct 7;12(1):16843.

Fujinami D, Hayashi S, Kohda D. Residue-Specific Kinetic Insights into the Transition State in Slow Polypeptide Topological Isomerization by NMR Exchange Spectroscopy. *J Phys Chem Lett.* 2021 Nov 4;12(43):10551-10557.

Fujinami D, Garcia de Gonzalo CV, Biswas S, Hao Y, Wang H, Garg N, Lukk T, Nair SK, van der Donk WA. Structural and mechanistic investigations of protein S-glycosyltransferases. *Cell Chem Biol.* 2021 Dec 16;28(12):1740-1749.e6.

Inoue N, Terabayashi T, Takiguchi-Kawashima Y, Fujinami D, Matsuoka S, Kawano M, Tanaka K, Tsumura H, Ishizaki T, Narahara H, Kohda D, Nishida Y, Hanada K. The benzylisoquinoline alkaloids, berberine and coptisine, act against camptothecin-resistant topoisomerase I mutants. *Sci Rep.* 2021 Apr 8;11(1):7718.

Kawasaki Y, Ariyama H, Motomura H, Fujinami D, Noshiro D, Ando T, Kohda D. Two-State Exchange Dynamics in Membrane-Embedded Oligosaccharyltransferase Observed in Real-Time by High-Speed AFM. *J Mol Biol.* 2020 Nov6;432(22):5951-5965.

Fujinami D, Motomura H, Oshima H, Mahin AA, Elsayed KM, Zendo T, Sugita Y, Sonomoto K, Kohda D. Mosaic Cooperativity in Slow Polypeptide Topological Isomerization Revealed by Residue-Specific NMR Thermodynamic Analysis. *J Phys Chem Lett.* 2020 Mar 5;11(5):1934-1939.

Fujinami D, Mahin AA, Elsayed KM, Islam MR, Nagao JI, Roy U, Momin S, Zendo T, Kohda D, Sonomoto K. The lantibiotic nukacin ISK-1 exists in an equilibrium between active and inactive lipid-II binding states. *Commun Biol.* 2018 Sep 25;1:150.

Fujinami D, Taguchi Y, Kohda D. Asn-linked oligosaccharide chain of a crenarchaeon, *Pyrobaculum calidifontis*, is reminiscent of the eukaryotic high-mannose-type glycan. *Glycobiology*. 2017 Aug 1;27(8):701-712.

Taguchi Y, Fujinami D, Kohda D. Comparative Analysis of Archaeal Lipid-linked Oligosaccharides That Serve as Oligosaccharide Donors for Asn Glycosylation. *J Biol Chem*. 2016 May 20;291(21):11042-54.

Fujinami D, Nyirenda J, Matsumoto S, Kohda D. Structural elucidation of an asparagine-linked oligosaccharide from the hyperthermophilic archaeon, *Archaeoglobus fulgidus*. *Carbohydr Res*. 2015 Sep 2;413:55-62.

Fujinami D, Matsumoto M, Noguchi T, Sonomoto K, Kohda D. Structural elucidation of an asparagine-linked oligosaccharide from the hyperthermophilic archaeon, *Pyrococcus furiosus*. *Carbohydr Res*. 2014 Mar 31;387:30-6.