

## 藤浪 大輔      Daisuke Fujinami, Ph.D.

1989年2月14日生

### 学歴・職歴

- 2011年3月      九州大学理学部生物学科卒業  
神田 大輔 教授
- 2016年3月      九州大学システム生命科学府一貫性博士課程修了  
神田 大輔 教授
- 2016年4月      九州大学生体防御医学研究所 構造生物学分野  
神田 大輔 教授・博士研究員
- 2019年4月      University of Illinois at Urbana-Champaign, Department of Chemistry  
Prof. Wilfred van der Donk・博士研究員
- 2021年7月      東京大学大学院薬学系研究科・博士研究員、現在に至る

### 学術論文リスト

1. **Fujinami, D.**, Garcia de Gonzalo, C. V., Biswas, S., Hao, Y., Wang, H., Garg, N., Lukk, T., Nair, S. K., van der Donk, W. A. “Structural and mechanistic investigations of protein S-glycosyltransferases.” *Cell Chem. Biol.* 28, in press (2021)
2. 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 benzyloquinoline alkaloids, berberine and coptisine, act against camptothecin-resistant topoisomerase I mutants.” *Sci. Rep.* 11, 7718 (2021)
3. 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.* 432, 5951-5965 (2020)
4. **Fujinami, D.**, Motomura, H., Oshima, H., Mahin, A. A., Elsayed, K. M., 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.* 11, 1934-1939 (2020)
5. **Fujinami, D.**, Mahin, A. A., Elsayed, K. M., Islam, M. R., Nagao, J. I., 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.* 1, 150 (2018)
6. **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*. 27, 701-712 (2017)

7. Taguchi, Y., **Fujinami, D.**, Kohda, D. “Comparative analysis of archaeal lipid-linked oligosaccharides that serve as oligosaccharide donors for Asn glycosylation.” *J. Biol. Chem.* 291, 11042-11054 (2016)
8. **Fujinami, D.**, Nyirenda, J., Matsumoto, S., Kohda, D. “Structural elucidation of an asparagine-linked oligosaccharide from the hyperthermophilic archaeon, *Archaeoglobus fulgidus*.” *Carbohydr. Res.* 413, 55-62 (2015)
9. **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.* 387, 30-36 (2014)
10. Taguchi, Y., **Fujinami, D.**, Kohda, D. “Comparative analysis of the oligosaccharide donors (lipid-linked oligosaccharides) for the N-oligosaccharyl transfer reaction.” *Trends in Glycoscience and Glycotechnology* 30, E169-E174 (2018)