

■ Research Achievement

1. Kawsar SMA, Hosen MA, Fujii Y, Ozeki Y. Thermochemical, DFT, Molecular Docking and Pharmacokinetic Studies of Methyl b-D-galactopyranoside Esters. *Journal of Computational Chemistry & Molecular Modelling*, 4, 452-462, 2020
2. Sugawara S, Takayanagi M, Honda S, Tatsuta T, Fujii Y, Ozeki Y, Ito J, Sato M, Hosono M. Catfish egg lectin affects influx and efflux rates of sunitinib in human cervical carcinoma HeLa cells. *Glycobiology*, 30, 802-816, 2020
3. Fujii Y, Gerdol M, Kawsar SMA, Hasan I, Spazzali F, Yoshida T, Ogawa Y, Rajia S, Kamata K, Koide Y, Sugawara S, Hosono M, Tame JRH, Fujita H, Pallavicini A, Ozeki Y. A GM1b/asialo-GM1 oligosaccharide-binding R-type lectin from purplish bifurcate mussels *Mytilisepta virgata* and its effect on MAP kinases. *FEBS J*, 287, 2612-2630, 2019
4. Fujii Y., Gerdol M., Hasan I., Koide Y., Matsuzaki R., Ikeda M., Rajia S., Ogawa Y., Kawsar S.M.A., Ozeki Y. Phylogeny and properties of a novel lectin family with β -trefoil folding in mussels. *Trends Glycotech Glycosci*, 30 177 p. E195-E208, 2018
5. Gerdol M, Fujii Y, Hasan I, Koike T, Shimojo S, Spazzali F, Yamamoto K, Ozeki Y, Pallavicini A, Fujita H The purplish bifurcate mussel *Mytilisepta virgata* gene expression atlas reveals a remarkable tissue functional specialization. *BMC Genomics* 18:590. 2017
6. Sanjida J, Sumi R. Devi, Rahman M, Mariam Islam, Kanaly A. R, Fujii Y, Hayashi N, Ozeki Y, Kawsar SMA. An efficient synthesis and spectroscopic characterization of some uridine derivatives. *J Bangladesh Chem Soci* 29 12-20. 2017
7. Rahman M, Sanjida J, Sumi R. Devi, Rahman M, Mariam Islam, Hossain M. K, Kanaly A. R, Fujii Y, Hayashi N, Ozeki Y, Kawsar SMA. Selective acylation of some carbohydrate derivatives using the direct method *J Bangladesh Chem Soci* 29 21-28. 2017
8. Fujii Y., Fujita H., Yokota S. Synthesis of beta-tubulin occurs within chromatoid body of round spermatids. *Cytoskeleton (Hoboken)* 74, 197-204. 2017
9. Fujii Y*, Fujiwara T, Koide Y, Hasan I, Sugawara S, Rajia S, Kawsar SM, Yamamoto D,

Araki D, Kanaly RA, Ogawa Y, Fujita H, Ozeki Y. *Glycoconj J* 34, 85-94. 2016 (*Corresponding author)

10. Fujii Y., Onohara Y., Fujita H., Yokota S. Argonaute2 protein in rat spermatogenic cells is localized to nuage structures and LAMP2-positive vesicles surrounding chromatoid bodies. *J Histochem Cytochem*, 64, 268-279. 2016

11. Hasan I., Sugawara S., Fujii Y., Koide Y., Terada D., Iimura N., Fujiwara T., Takahashi K.G., Kojima N., Rajia S., Kawsar S.M.A, Kanaly R.A., Uchiyama H., Hosono M., Ogawa Y., Fujita H., Hamako J., Matsui T., Ozeki Y. MytiLec, a mussel R-type lectin, interacts with surface glycan Gb3 on Burkitt's lymphoma cells to trigger apoptosis through multiple pathways. *Marine Drugs* 13, 7377-7389, 2015

12. Kawsar S.M.A., Ara H.A., Uddin S.A., Hossain M.K., Chowdhury S.A., Sanaullah A.F.M, Manchur MA, Hasan I., Ogawa Y., Fujii Y., Koide Y., Ozeki Y. Chemically modified uridine molecules incorporating acyl residues to enhance antibacterial and cytotoxic activities. *International Journal of Organic Chemistry* 5, 232-245, 2015

13. Kawsar S.M.A., Uddin S., Manchur M. A., Fujii Y., Ozeki Y. Acylation of D-glucose derivatives over C₅H₅N: spectral characterization and in vitro antibacterial activities. *Int J Biol Chem* 9, 269-282, 2015

14. Koide Y., Hasan I., Asanuma A., Fujii Y., Ogawa Y., Kobayashi H., Rajia S., Kawsar S.M.A., Kanaly R.A., Ozeki Y. Expression of various types of glycans in the lugworm (*Perinereis nuntia* var. *vallata*) *Annals of Marine Biology and Research* 2, 1005, 2015

15. Hasan I., Watanabe M, Ishizaki N., Sugita-Konishi Y., Kawakami Y, Suzuki J., Dogasaki C., Rajia S., Kawsar S.M.A., Koide Y., Kanaly R.A., Sugawara S., Hosono M., Ogawa Y., Fujii Y., Iriko H., Hamako J., Matsui T., Ozeki Y. A Galactose-Binding Lectin Isolated from *Aplysia kurodai* (Sea Hare) Eggs Inhibits Streptolysin-Induced Hemolysis. *Molecules*, 19, 13990-14003, 2014

16. Fujita H., Menezes J.C., Santos S.M., Yokota S., Kamat S.P., Cavaleiro J.A., Motokawa T., Kato T., Mochizuki M., Fujiwara T., Fujii Y., Tanaka Y. Inulavosin and its benzo-derivatives, melanogenesis inhibitors, target the copper loading mechanism to the active site of tyrosinase. *Pigment Cell Melanoma Res*, 27,376-86, 2014

17. Ogawa Y., Sugawara S., Tatsuta T., Hosono M., Nitta K., Fujii Y., Kobayashi H., Fujimura T.,

Taka H., Koide Y., Hasan I., Matsumoto R., Yasumitsu H., Kanaly R.A., Kawsar S.M.A., Ozeki Y. Sialyl-glycoconjugates in cholesterol-rich microdomains of P388 cells are the triggers for apoptosis induced by *Rana catesbeiana* oocyte ribonuclease. *Glycoconj J*, 31, 171-84, 2014

18. Fujii Y., Kawsar S.M.A., Hasan I., Fujita H., Gerdol M., Ozeki Y. Purification and Functional Characterization of the Effects on Cell Signaling of Mytillectin: A Novel β -Trefoil Lectin from Marine Mussels. In: Hirabayashi J. (eds) *Lectin Purification and Analysis. Methods in Molecular Biology*, vol 2132. Humana, New York, NY (2020)

19. Hasan I, Fujii Y, Rajia S, Kawsar SMA, Sugawara S, Ogawa Y, Hosono M, Koide Y, Kanaly RA, Ozeki Y., "Marine Glycobiology: Principles and Applications" Chapt 33. Structural glycobiology for lectin to promote advanced biomedical research. Taylor & Francis Group, CRC press (2016)

20. Koide Y, Hasan I, Fujii Y, Kawsar SMA, Rajia S, Sugawara S, Ogawa Y, Hosono M, Kanaly RA, Ozeki Y., "Marine Omics, Principles and Applications. Se-Kwon Kim ed" Chapter 21 SUEL/RBL-Lectins and their biomedical applications. Taylor & Francis Group, CRC press (2016)

■ Conference Presentation, Symposium, Lecture Presentation

1. Fujii Y. Cell Function Research of β -trefoil Lectins from Mytilidae, The Award for Young Scientists in The Pharmaceutical Society of Japan, Invited Lecture, Kyusyu-Yamaguchi Branch, Nagasaki, Nov 2019

2. Fujii Y, Gerdol M, Ogawa Y, Yoshida T, Ozeki Y, Fujita H. Glycan binding profile of glycosphingolipid binding lectin SeviL, The Pharmaceutical Society of Japan, Kyusyu-Yamaguchi Branch, Nagasaki, Nov 2019

3. Fujii Y, Gerdol M, Ogawa Y, Matsuzaki R, Fujita H, Ozeki Y. Discovery of Novel R type Lectin from Mytilidae and Cellular Function through the Glycosphingolipid. The Japanese Biochemical Society, Yokohama, Sep 2019

4. Fujii Y, Gerdol M, Ogawa Y, Tame J, Fujita H, Ozeki Y. Discovery of Novel R type Lectin from Mytilidae and Novel Glycosignaling through the asialo GM1. 37th Annual meeting of The Japanese Society of Carbohydrate Research, Sendai, Japan, Aug 2018

■ Awards

1. Yuki Fujii, Nagasaki International University Asunaro Award for young scientist (Research Award) 2020
2. Yuki Fujii, Nagasaki International University (NIU) Best Teacher Award (Best Practice Category : Research Award) 2020
3. Yuki Fujii, The Award for Young Scientists in The Pharmaceutical Society of Japan, Kyusyu-Yamaguchi Branch 2019
4. Yuki Fujii, NIU Best Teacher Award(Best Practice Category : Research Award) 2017