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Education:

2015 - present, Assistant Professor, Bioorganic chemistry lab, Kitasato Institute for Life science and Graduate school of Infection Control Science, Kitasato university.

2012 - 2015, Research associate (March 2015) William R. Roush Group, The Scripps Research Institute, Scripps Florida, USA

2009 - 2012, Ph.D. Life science (March, 2012) Graduate school of Infection Control Science, Kitasato university.

Advisor: Toshiaki Sunazuka

2007 - 2009, M.S. researcher (March, 2009) Nippon chemicals Co.,Ltd.

2005 - 2007, M.S. Life science (March, 2007) Graduate school of Infection Control Science, Kitasato university.

Advisor: Toshiaki Sunazuka

2000 - 2005, B.S. Chemistry (March 2005) Department of Chemistry, School of Science, Kitasato university.

AWARDS:

1) 2016 Taisyo Award in The Society of Synthetic Organic Chemistry, Japan

LECTURE:

“Development of highly selective Casein kinase 1 δ/ϵ inhibitor toward the treatment of breast cancer”

2017 Annual Meeting of The Japan Scripps Society East Division

PUBLICATIONS:

1. Andrii Monastyrskyi, Napon Nilchan, Victor Quereda, **Yoshihiko Noguchi**, Claudia Ruíz, Wayne Grant, Michael Cameron, Derek Duckett, William Roush
“Development of dual casein kinase 1 $\delta/1\epsilon$ (CK1 δ/ϵ) inhibitors for treatment of breast cancer”
Bioorganic & Medicinal Chemistry, 26, 590-602, **2018**.
2. Akihiro Sugawara, Masahiko Kubo, Tomoyasu Hirose, Kyoichi Yahagi, Noriaki, Tsunoda, **Yoshihiko Noguchi**, Takuji Nakajima, Yoko Takahashi, Claudia Welz, Dennis Mueller, Christina Mertens, Johannes Koebberling, Satoshi Ōmura, Toshiaki Sunazuka
“Jietacins, azoxy antibiotics with potent nematocidal activity: Design, synthesis, and biological evaluation against parasitic nematodes”
Eur. J. Med. Chem., 145, 268-272, **2018**.
3. **Yoshihiko Noguchi**, Tomoyasu Hirose, Aki Ishiyama, Masato Iwatsuki, Kazuhiko Otaguro, Toshiaki Sunazuka, Satoshi Ōmura
“Synthesis and stereochemical determination of an antiparasitic *pseudo*-aminal type monoterpene indole alkaloid”
Journal of Natural Medicine, 70, 302-317, **2016**.
4. Jun Oshita, **Yoshihiko Noguchi**, Akito Watanabe, Goh Sennari, Shogo Sato, Tomoyasu Hirose, Daiki Oikawa, Yuki Inahashi, Masato Iwatsuki, Aki Ishiyama, Satoshi Ōmura, and Toshiaki Sunazuka
“Towards the total synthesis of the anti-trypanosomal macrolide, Actioallolides; construction of key linear intermediate”
Tetrahedron Letters, 57 (3), pp357-360, **2016**.
5. Laura H. Rosenberg, Marie Lafitte, Victor Quereda, Wayne Grant, Weimin Chen, Mathieu Bibian, **Yoshihiko Noguchi**, Mohammad Fallahi, Chunying Yang, Jenny C. Chang, William R. Roush, John L. Cleveland and Derek R. Duckett
“Therapeutic targeting of casein kinase 1 δ in breast cancer”

Science Translational Medicine, 7 (318), pp318ra202, **2015**.

6. Homa Ghalei, Franz X. Schaub, Joanne R. Doherty, **Yoshihiko Noguchi**, William R. Roush, John L. Cleveland, M. Elizabeth Stroupe, and Katrin Karbstein
“Hrr25/Ck1 δ -directed release of Ltv1 from pre-40S ribosomes is necessary for ribosome assembly and cell growth”

The Journal of Cell Biology, 208 (6), pp745-759, **2015**.

7. Tomoyasu Hirose, **Yoshihiko Noguchi**, Yujiro Furuya, Aki Ishiyama, Masato Iwatsuki, Kazuhiko Ootoguro, Satoshi Ōmura, and Toshiaki Sunazuka
“Structure determination and total synthesis of (+)-16-hydroxy-16,22-dihydroapparicine”

Chemistry -A European Journal, 19 (32), pp10741-10750, **2013**.

8. Mathieu Bibian, Ronald J. Rahaim, Jun Yong Choi, **Yoshihiko Noguchi**, Stephan Schürer, Weimin Chen, Shima Nakanishi, Konstantin Licht, Laura H. Rosenberg, Lin Li, Yangbo Feng, Michael D. Cameron, Derek R. Duckett, John L. Cleveland, William R. Roush
“Development of highly selective casein kinase 1 δ /1 ϵ (CK1 δ / ϵ) inhibitor with potent antiproliferative properties”

Bioorganic & Medicinal Chemistry Letters, 23 (15), pp4374-4380, **2013**.

9. **Yoshihiko Noguchi**, Tomoyasu Hirose, Yujiro Furuya, Aki Ishiyama, Kazuhiko Ootoguro, Satoshi Ōmura, Toshiaki Sunazuka
“The first total synthesis and reassignment of the relative stereochemistry of 16-hydroxy-16,22-dihydroapparicine”

Tetrahedron Letters, 53 (14), pp1802-1807, **2012**.

10. Hiroaki Gouda; Toshiaki Sunazuka; Tomoyasu Hirose; Kanami Iguchi; Noriyuki Yamaotsu; Akihiro Sugawara; **Yoshihiko Noguchi**; Yoshifumi Saito; Yuichi Yanai; Tsuyoshi Yamamoto; Takeshi Watanabe; Kazuro Shiomi; Satoshi Ōmura; Shuichi Hirono

“NMR spectroscopy and computational analysis of interaction between *Serratia marcescens* chitinase B and a dipeptide derived from natural-product cyclopentapeptide chitinase inhibitor argifin.”

Bioorganic & Medicinal Chemistry, 18 (8), 5835-5844, 2010.

11. Tomoyasu Hirose, Toshiaki Sunazuka, Akihiro Sugawara, **Yoshihiko Noguchi**, Toshiaki Tanaka, Kanami Iguchi, Tsuyoshi Yamamoto, Hiroaki Gouda, Kazuro Shiomi, Satoshi Ōmura

“Solid-phase total synthesis of the Chitinase inhibitor Argadin using a supported acetal resin”

The Journal of Antibiotics, 62, pp495-500, 2009.

12. Hiroaki Gouda, Toshiaki Sunazuka, Kanami Iguchi, Akihiro Sugawara, Tomoyasu Hirose, **Yoshihiko Noguchi**, Yoshifumi Saito, Yuichi Yanai, Tsuyoshi Yamamoto, Takeshi Watanabe, Kazuro Shiomi, Satoshi Ōmura Shuishi, Hirono

“Computer-aided rational molecular design of argifin-derivatives with increased inhibitory activity against chitinase B from *Serratia marcescens*”

Bioorganic & Medicinal Chemistry Letters, 19 (10), pp2630-2633, 2009.

13. Toshiaki Sunazuka, Akihiro Sugawara, Kanami Iguchi, Tomoyasu Hirose, Kenichiro Nagai, **Yoshihiko Noguchi**, Yoshifumi Saito, Tsuyoshi Yamamoto, Hideaki Ui, Hiroaki Gouda, Kazuro Shiomi, Takeshi Watanabe, Satoshi Ōmura

“Argifin; efficient solid phase total synthesis and evaluation analogues of acyclic peptide”

Bioorganic & Medicinal Chemistry, 17 (7), pp2751-2758, 2009.

14. Tomoyasu Hirose, Toshiaki Sunazuka, **Yoshihiko Noguchi**, Yukie Yamaguchi, Hideaki Hanaki, K. Barry Sharpless Satoshi Ōmura

“Rapid 'SAR' via Click Chemistry: An alkyne-bearing spiramycin is fused with diverse azides to yield new triazole-antibacterial candidates”

Heterocycles, 69, pp55-61, 2006.