

Shinya ARIYASU, Ph.D. (Assistant Professor)

Affiliation: Department of Chemistry, Graduate School of Science,
Nagoya University

Address: Furo-cho, Chikusa-ku, Nagoya, 464-8602, Japan

Tel: +81-52-789-2953

E-mail: ariyasu.shinya@j.mbox.nagoya-u.ac.jp

Homepage: <http://bioinorg.chem.nagoya-u.ac.jp/en/index.html>



Professional Carrier

Sep 2019:

Assistant Professor, Graduate School of Science, Nagoya University (Prof. Osami Shoji)

Sep 2016:

Project Assistant Professor, Graduate School of Science, Nagoya University (Prof. Yoshihito Watanabe)

Jun 2014:

Research fellow, Nanyang Technological University, School of Physical and Mathematical Science (Prof. Xing Bengang, Prof. Shunsuke Chiba)

Apr 2010:

Postdoctoral fellow, Center for Technologies against Cancer, Tokyo University of Science (Prof. Shin Aoki)

Education

Mar 2010:

Ph.D. Department of chemistry, Faculty of Science, Tokyo University of Science (Prof. Takeshi Yamamura)

Mar 2006:

M.S. Department of chemistry, Faculty of Science, Tokyo University of Science

Mar 2004:

B.S. Department of chemistry, Faculty of Science, Tokyo University of Science

Awards

Best Poster Prize, 13th Tetrahedron Symposium Asia Edition (Nov 2012)

Encouragement award, Doctoral alliance in Tokyo University of Science (Sep 2011)

Research Interests

Chemical conversion by artificial metalloenzymes

Selected Publications

- 1) Shinya Ariyasu, Yusaku Kodama, Chie Kasai, Zhiqi Cong, Joshua Kyle Stanfield, Yuichiro Aiba, Yoshihito Watanabe, Osami Shoji “Development of a High-Pressure Reactor Based on Liquid-Flow Pressurisation to Facilitate Enzymatic Hydroxylation of Gaseous Alkanes” , *ChemCatChem* **2019**, *11*, 4709-4714–452 (cover picture, cover profile)
- 2) Shinya Ariyasu, Jing Mu, Xiao Zhang, Ying Huang, Edwin Kok Lee Yeow, Hua Zhang, Bengang Xing, “Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS₂-based Nanocomposite” , *Bioconjugate Chemistry*, **2017**, *28*, 1069-1076
- 3) Shinya Ariyasu, Hirohito Hayashi, Bengang Xing, Shunsuke Chiba, “Site-specific Dual Functionalization of Cysteine Residue in Peptides and Proteins with 2-Azidoacrylates” , *Bioconjugate Chemistry*, **2017**, *28*, 897-902
- 4) Shinya Ariyasu, Pei Chui Too, Jing Mu, Chi Ching Goh, Yichen Ding, Ya Lin Tnay, Edwin Kok Lee Yeow, Liang Yang, Lai Guan Ng, Shunsuke Chiba, Bengang Xing, “Glycopeptide Antibiotic Analogs for Selective Inactivation and Two-Photon Imaging of Vancomycin-Resistant Strains” , *Chemical Communications*, **2016**, *52*, 4667-4670
- 5) Shinya Ariyasu, Akiko Sawa, Akinori Morita, Kengo Hanaya, Misato Hoshi, Ipppei Takahashi, Bing Wang and Shin Aoki, “Design and Synthesis of 8-Hydroxyquinoline-based Radioprotective Agents” *Bioorg. Med. Chem.*, **2014**, *22*, 3891–3905
- 6) Shinya Ariyasu, Kengo Hanaya, Eita Watanabe, Toshihiro Suzuki, Kazutaka Horie, Masanori Hayase, Ryo Abe, and Shin Aoki, “The Selective Capture and Collection of Live Target Cells Using a Silicon Wafer Device Modified with Antibodies via a Photocleavable Linker” *Langmuir*, **2012**, *28* (36), 13118–13126
- 7) Shinya Ariyasu, Kengo Hanaya, Megumi Tsunoda, Masanori Kitamura, Masanori Hayase, Ryo Abe, and Shin Aoki “Photochemical Cleavage Reaction of 8-Quinolinylnyl Sulfonates That Are Halogenated and Nitrated at the 7-Position” *Chemical and Pharmaceutical Bulletin*, **2011**, *59*, 1355–1362. (Front Cover)
- 8) Shinya Ariyasu, Akira Onoda, Ryota Sakamoto, and Takeshi Yamamura “Alignment of Gold Clusters on DNA via a DNA-recognizing Zinc Finger-Metallothionein Fusion Protein.” *Bioconjugate Chemistry*, **2009**, *20*, 2278–2285
- 9) Shinya Ariyasu, Akira Onoda, Ryota Sakamoto, and Takeshi Yamamura “Conjugation of Au11 Cluster with Cys-rich Peptides Containing the α -Domain of Metallothionein.” *Dalton Transactions*, **2009**, *38*, 3742–3747