**Name**

Institution

Address

Telephone

Photo

Fax

E-mail

**Education**

19xx B.S.

19xx Ph.D.

**Academic Background**

19xx-20xx

20xx-20xx

20xx-present

**Award**

Optional. If you don’t write, please remove this part.

**Selected Publications**

Please write 3-5 publications.

**Atsushi Shimoyama**

Institution Osaka University, Graduate School of Science

Address 1-1 Machikaneyama, Toyonaka, Osaka 560-0043, Japan

Telephone +81-6-6850-5391

Fax +81-6-6850-5419

E-mail ashimo@chem.sci.osaka-u.ac.jp

**Education**

2005 B.S. Osaka University, Faculty of Science

2010 Ph.D. Osaka University, Graduate School of Science

**Academic Background**

2010-2011 Postdoctral Fellow (Osaka University)

2011-2014 Assistant Professor (Tokyo Institute of Technology)

2014-present Assistant Professor (Osaka University)

**Award**

Inoue Research Award for Young Scientists (2013.02)

**Selected Publications**

1. A. Shimoyama, F. D. Lorenzo, H. Yamaura, K. Mizote, A. Palmigiano, M. D. Pither, I. Speciale, T. Uto, S. Masui, L. Sturiale, D. Garozzo, K. Hosomi, N. Shibata, K. Kabayama, Y. Fujimoto, A. Silipo, J. Kunisawa, H. Kiyono, A. Molinaro, K. Fukase, Lipopolysaccharide from Gut-Associated Lymphoid Tissue-Resident *Alcaligenes faecalis*: Complete Structure Determination and Chemical Synthesis of its Lipid A, *Angew. Chem. Int. Ed.* *Engl.* **2021**, *60(18)*, 10023-10031.
2. K. Hosomi, N. Shibata, A. Shimoyama, T. Uto, T. Nagatake, Y. Tojima, T. Nishino, H. Takeyama, K. Fukase, H. Kiyono, J. Kunisawa, Lymphoid tissue–resident Alcaligenes establish an intracellular symbiotic environment by creating a unique energy shift in dendritic cells, *Frontiers in Microbiology* **2020**, 11, 561005.
3. N. Shibata, J. Kunisawa, K. Hosomi, Y. Fujimoto, K. Mizote, N. Kitayama, A. Shimoyama, H. Mimuro, S. Sato, N. Kishishita, K. J. Ishii, K. Fukase, and H. Kiyono, Lymphoid tissue-resident Alcaligenes LPS induces IgA production without excessive inflammatory responses via weak TLR4 agonist activity, *Mucosal Immunology* **2018**, *11*, 693-702.
4. A. Shimoyama, H. Watase, Y. Liu, S. Ogura, Y. Hagiya, K. Takahashi, K. Inoue, T. Tanaka, Y. Murayama, E. Otsuji, A. Ohkubo, H. Yuasa, Access to a Novel Near-Infrared Photodynamic Therapy by the Combined Use of 5-Aminolevulinic Acid and Lanthanide Nanoparticles, *Photodiagnosis and Photodynamic Therapy* **2013**, *10*, 607-614*.*
5. A. Shimoyama, A. Saeki, N. Tanimura, H. Tsutsui, K. Miyake, Y. Suda, Y. Fujimoto, K. Fukase, Chemical synthesis of *Helicobacter pylori* lipopolysaccharide partial structures and their selective proinflammatory response, *Chem.* *Eur. J.* **2011**, *17*, 14464-14474.