

## CURRICULUM VITAE

**Name:** Masaki Miyake

**Position:** Assistant Professor

**Affiliation:** Laboratory of Microbiology and Immunology,  
School of Pharmaceutical Sciences,  
University of Shizuoka

**Office address:** 52-1 Yada, Suruga-ku, Shizuoka-shi, Shizuoka 422-8526, Japan

**Phone:** +81-54-264-5711

**Fax:** +81-54-264-5715

**E-mail:** miyake (add@here) u-shizuoka-ken.ac.jp

### Education:

- 1990 B.S., School of Pharmacy, Tokyo University of Pharmacy and Life Sciences
- 1993 M.S., School of Pharmacy, Tokyo University of Pharmacy and Life Sciences
- 1997 Ph.D., Gifu University School of Medicine

### Research and professional experience:

- 1996-1997 Cooperative researcher, National Institute of Health, Japan  
(present: National Institute of Infectious Diseases)
- 1997-2000 Research Associate, School of Pharmaceutical Sciences,  
University of Shizuoka
- 1999.6-1999.8 Visiting Researcher of Prof., Yousef Abu Kwaik's Lab.,  
Department of Microbiology and Immunology, University of Kentucky
- 2000-2001 Postdoctoral fellow of Prof. Howard A. Shuman's Lab.,  
Department of Microbiology and Immunology, Columbia University
- 2000-present Assistant Professor, School of Pharmaceutical Sciences,  
University of Shizuoka

### Membership of academic societies:

- The Japanese Society for Bacteriology
- The American Society for Microbiology
- The Pharmaceutical Society of Japan
- The Japanese Association for Infectious Diseases
- Japanese Society for Molecular Cell Biology of Macrophages

### Award:

Award for Young Scientists in Tokai Branch of Pharmaceutical Society of Japan (2007)

### Research interest:

Molecular pathogenesis of bacterial infection

### **Selected publications:**

Shoji K., Takahashi T., Kurohane K., Iwata K., Matsuoka T., Tsuruta S., Sugino S., Miyake M., Suzuki T., Imai Y. Recombinant IgA specific for influenza A virus hemagglutinin: production, functional analysis and formation of secretory IgA. *Viral Immunol.*, 28, 170–178 (2015)

Yamaguchi M., Matsui M., Higa R., Yamazaki Y., Ikari A., Miyake M., Miwa M., Ishii S., Sugatani J., Shimizu T. A platelet-activating factor (PAF) receptor deficiency exacerbates diet-induced obesity but PAF/PAF receptor signaling does not contribute to the development of obesity-induced chronic inflammation. *Biochem. Pharmacol.* **15**, 482–495 (2015)

Kurohane K., Nagano K., Nakanishi K., Iwata K., Miyake M., Imai Y.. Shiga toxin-induced apoptosis is more efficiently inhibited by dimeric recombinant hybrid-IgG/IgA immunoglobulins than by the parental IgG monoclonal antibodies. *Virulence* **5**, 819-824 (2014)

Iwata K., Kurohane K., Nakanishi K., Miyake M., Imai Y. Stable expression and characterization of monomeric and dimeric recombinant hybrid-IgG/IgA immunoglobulins specific for Shiga toxin. *Biol. Pharm. Bull.* **37**, 1510–1515 (2014)

Harada T., Tanikawa T., Iwasaki Y., Imai Y., Miyake M. Phagocytic entry of *Legionella pneumophila* into macrophages through phosphatidylinositol 3, 4, 5-trisphosphate-independent pathway. *Biol. Pharm. Bull.* **35**, 1460-1468 (2012)

Hojo F., Saito D., Matsuo J., Miyake M., Nakamura S., Kunichika M., Hayashi Y., Yoshida M., Takahashi K., Takemura H., Kamiya S., Yamaguchi H. Ciliates expel environmental *Legionella*-laden pellets to stockpile food. *Appl Environ Microbiol.* **78**, 5247-5257 (2012)

Hayashi T., Masahiro Nakamichi M., Naitou H., Ohashi N., Imai Y., Miyake M. Proteomic analysis of growth phase-dependent expression of *Legionella pneumophila* proteins which involves regulation of bacterial virulence traits. *PLoS One*, **5**, e11718 (2010)

Miyake M. Intracellular survival and replication of *Legionella pneumophila* within host cells. *Yakugaku Zasshi.* **123**, 1763-1770 (2008)

Taniguchi T., Harada T., Hayashi T., Tanikawa T., Kurohane K., Miyake M., Imai Y. Elevated production of *Legionella*-specific immunoglobulin A in A/J mice is

accompanied by T-helper 1-type polarization. *Immunology Letters*, **121**, 123–126 (2008)

Hayashi T., Miyake M., Fukui T., Sugaya N., Daimon T., Itoh S., Oku T., Tsuji T., Toyoshima S., Imai Y. Exclusion of actin-binding protein p57/coronin-1 from bacteria-containing phagosomes in macrophages infected with *Legionella*. *Biol. Pharm. Bull.* **31**, 861–865 (2008)

Harada T., Miyake M., Imai Y. Evasion of *Legionella pneumophila* from the bactericidal system by reactive oxygen species (ROS) in macrophages. *Microbiol. Immunol.* **51**(12), 1161-1170 (2007)

Miyake M., Fukui T., Imai Y. Differences in protein synthesis between wild type and intracellular growth-deficient strains of *Legionella pneumophila* in U937 and *Acanthamoeba polyphaga*. *Microb Pathog.* **40**(4), 61-170 (2006)

Miyake M., Watanabe T., Koike H., Molmeret M., Imai Y., Abu Kwaik Y. Characterization of *Legionella pneumophila pmiA*, a gene essential for infectivity of protozoa and macrophages. *Infect. Immun.* **71**(2), 6272-6282 (2005)