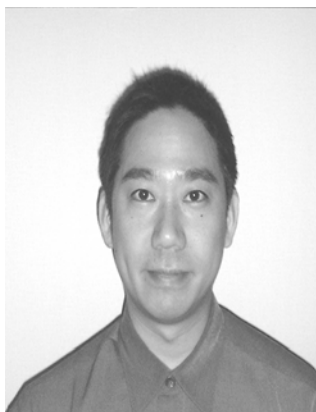


## CURRICULUM VITAE



Name: Jiro Nakayama

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Date of Birth: 14 Feb. 1965

Place of Birth: Hiroshima, JAPAN

### **Education:**

- 1983.4-1987.3 Faculty of Agriculture, University of Tokyo.  
Awarded the degree of BSc in Agricultural Chemistry.
- 1987.4-1989.3 Graduate School of Agriculture, University of Tokyo.  
Awarded the degree of MSc in Agricultural Chemistry.
- 1994.5 Awarded the degree of Ph.D(Agriculture) for a thesis entitled "Studies on pheromone responsive conjugative plasmid in *Enterococcus faecalis*".

### **Professional experience:**

- 1989.4-1994.3 Assistant Professor at Department of Agricultural Chemistry, Faculty of Agriculture, University of Tokyo.
- 1994.4-2001.9 Assistant Professor at Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, University of Tokyo.
- 1998.4-1999.9 Laboratory of Microbiology, Wageningen University, The Netherlands
- 2001.10-present Associate Professor at Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University.

### **Awards:**

- 1999.3. The Japan Bioscience, Biotechnology, and Agrochemistry Society Awards for the encouragement of young scientists

### **Research topics:**

- (1) Peptide-mediated cell-cell communication of Gram-positive bacteria
- (2) Biochemistry and molecular biology of bacteriocins
- (3) Gastro-intestinal microbiota of human infant
- (4) Microbiota of fermented rice bran bed
- (5) Molecular chaperones of halophilic lactic acid bacteria

### Publication List of J. Nakayama (Latest 5 years)

1. T. Zendo, S. Koga, Y. Shigeri, J. Nakayama & K. Sonomoto "Lactococcin Q, a novel two-peptide bacteriocin produced by *Lactococcus lactis* QU 4." Appl. Environ. Microbiol. 72(5), 3383-3389 (2006).
2. Reconstitution and function of Tetragenococcus halophia chaperonin 60 tetradecamer. Amonlaya Tosukhowong, Jiro Nakayama, Yoshimizu Mizunoe, Shinya Sugimoto, Daisuke Fukuda & Kenji Sonomoto, J. Biosci. Bioeng., 99(1), 30-37 (2005)
3. Discription of complete DNA sequence of two plasmids from the nukacin ISK-1 producer, Staphylococcus warneri ISK-1. Yuji Aso, Hanako Koga, Toshihiro Sashihara, Jun-ichi Nagao, Youhei Kanemasa, Jiro Nakayama & Kenji Sonomoto, Plasmid, 53(2), 164-178 (2005)
4. Molecular monitoring of developmental bacterial community in the gastrointestinal tract of Japanese infants. Prapa Songjinda, Jiro Nakayama, Yumiko Kuroki, Shigemitsu Tanaka, Sanae, Fukuda, Chikako Kiyohara Tetsuro Yamamoto, Kunio Izuchi, Taro Shirakawa & Kenji Sonomoto, Biosci. Biotechnol. Biochem., 69(3), 638-641 (2005)
5. Localization and interaction of the biosynthetic proteins for the lantibiotic, nukacin ISK-1. Jun-ichi Nagao, Yuji Aso, Toshihiro Sashihara, Kouki Shioya, Asaho, Adachi, Jiro Nakayama & Kenji Sonomoto, Biosci. Biotechnol. Biochem., 69(7), 1341-1347 (2005)
6. A novel type of immunity protein, NukH, for the lantibiotic nukacin ISK-1 produced by Staphylococcus warneri ISK-1. Yuji Aso, Ken-ichi Okuda, Jun-ichi Nagao, Youhei Kanemasa, Nguyen Thi, Bich Phuong, Hanako Koga, Kouki Shioya, Toshihiro Sashihara, Jiro Nakayama & Kenji Sonomoto, Biosci. Biotechnol. Biochem., 69(7), 1403-1410 (2005)
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8. Identification and production of a bacteriocin from *Enterococcus mundtii* QU 2 isolated from soybean. Takeshi Zendo, Nattima Eungruttanagorn, Sumie Fujioka, Yukihiko Tashiro, Kumi Nomura, Yoshiko Sera, Genta Kobayashi, Jiro Nakayama, Ayaaki Ishizaki & Kenji Sonomoto, J. Appl. Microbiol., 99(5), 1181-1190 (2005)
9. Lanthionine introduction into nukacin ISK-1 prepeptide by co-expression with modification enzyme NukM in Escherichia coli. Jun-ichi Nagao, Yoshitaka Harada, Kouki Shioya, Yuji Aso, Takeshi Zendo, Jiro Nakayama & Kenji Sonomoto, Biochem. Biophys. Res. Commun., 336(2), 507-513 (2005)
10. An agr-like two component regulatory system in *Lactobacillus plantarum* is involved in production of a novel cyclic peptide and regulation of adherence. Mark H. J. Sturme, Jiro

- Nakayama, Douwe Molenaar, Yoshiki Murakami, Ryoko Kunugi, Toshio Fujii, Elaine E. Vaughan, Michiel Kleerebezem & Willem M. de Vos, *J. Bacteriol.*, 187(15), 5224-5235 (2005)
11. Aso, Y., T. Sashihara, J. Nagao, Y. Kanemasa, H. Koga, T. Hashimoto, T. Higuchi, A. Adachi, H. Nomiyama, A. Ishizaki, J. Nakayama, K. Sonomoto "Characterization of a gene cluster of *Staphylococcus warneri* ISK-1 encoding the biosynthesis of and immunity to the lantibiotic, nukacin ISK-1". *Biosci. Biotechnol. Biochem.*, 68(8), 1663-1671 (2004).
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  13. Wilaipun, P., Zendo, T., Sangjindavong, M., Nitisinprasert, S., Leelawatcharamas, V., Nakayama, J. and Sonomoto, K. 2004. The two-synergistic peptide bacteriocin produced by *Enterococcus faecium* NKR-5-3 isolated from Thai fermented fish (Plara). *ScienceAsia*. 30, 115-122 (2004).
  14. Zenodo, T., M. Fukao, K. Ueda, T. Higuchi, J. Nakayama, and K. Sonomoto, "Identification of the lantibiotic nisin Q, a new natural nisin variant produced by *Lactococcus lactis* 61-14 isolated from a river in Japan" *Biosci. Biotechnol. Biochem.* 67(7), 1616-1619 (2003).
  15. Sugimoto, S., J. Nakayama, D. Fukuda, S. Sonezaki, M. Watanabe, A. Tosukhowong, and K. Sonomoto, "Effect of heterologous expression of molecular chaperone DnaK from *Tetragenococcus halophilus* on salinity adaptation of *Escherichia coli*" *J. Biosci. Biotechnol.* 96(2), 129-133 (2003).
  16. Nakayama, J. A. D. L. Akkermans, W. M. de Vos, "High-throughput PCR screening of genes for three-component regulatory system putatively involved in quorum sensing from low G+C gram-positive bacteria" *Biosci. Biotechnol. Biochem.* 67(3), 480-489 (2003).
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23. Nakayama, J., Y. Cao, T. Horii, S. Sakuda and H. Nagasawa "Chemical synthesis and biological activity of gelatinase biosynthesis-activating pheromone of *Enterococcus faecalis* and its analogs" *Biosci. Biotechnol. Biochem.* 65(10), 2322-2325 (2001).