Ryosuke Ohniwa, Ph.D.

Date of Birth: January 21, 1977
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Academic History:

1996 – 2000	Undergraduate at Kyoto University, Faculty of Integrated Human Studies
2000 – 2006	Graduate student at Kyoto University, Graduate School of Biostudies (Master and Doctoral Courses), Ph.D. (Life Sciences)(1/2007)
2002 – 2004	JT Biohistory Research Hall Trainee (Prof. Keiko Nakamura and Ms. Mitsuko Kudo)

Professional Experience:

4/2006 – 1/2007	Research Fellow at Kyoto University in Japan, Graduate School of Biostudies
2/2007 – 9/2007	Specially appointed Assistant Professor at Kyoto University, Graduate School of Biostudies
10/2007 – 10/2011	Assistant Professor at University of Tsukuba in Japan, Graduate School of Comprehensive Human Sciences, Institute of Basic Medical Sciences
10/2011 – 12/2014	Assistant Professor at University of Tsukuba in Japan, Faculty of Medicine,
12/2014 – present	Associate Professor at University of Tsukuba in Japan, Faculty of Medicine,
1/2015 – present	Director for University of Tsukuba Taiwan Office,
4/2015 – present	Associate Researcher at National Taiwan University,Center for Biotechnology
7/2012 – 12/2012	Researcher at Institut Pasteur in France (Dr. Msadek Tarek Lab)

Academic/ Professional Societies:

The Molecular Biology Society of Japan

Research Area/ Interests:

Molecular Biology, Molecular Genetics, Microbiology, Bioinformatics / Adaptation mechanisms of pathogenic and symbiotic bacteria
Incubation Studies for Entrepreneurship / Prototyping foodstuffs to assess social acceptance

Selected Publications (10):

1. Mori K, Murano K, **Ohniwa RL**, Kawaguchi A, and Nagata K. “Tamiflu Expands Quasispecies of Influenza Virus through Cell-to-cell Transmission.” ***Scientific Report***, 2015 Mar 16;5:9163. doi: 10.1038/srep09163..
2. Ushijima Y, **Ohniwa RL**, Maruyama A, Saito S, Tanaka Y and Morikawa K. “Nucleoid compaction by MrgA$^{Asp56Ala/Glu60Ala}$ does not contribute to staphylococcal cell survival against oxidative stress and phagocytic killing by macrophage.” ***FEMS Microbiol Lett***. doi: 10.1111/1574-6968.12598, 360(2):144-51, (2014)Nov
3. **Ohniwa RL**, Muchaku H, Saito S, Wada C and Morikawa K. “Atomic force microscopy analysis of the role of major DNA-binding proteins in organization of the nucleoid in *Escherichia coli*.” ***PLoS ONE***. 8(8), e72954 (2013)
4. **Ohniwa RL**, Kitabayashi K, Morikawa K. Alternative cardiolipin synthase Cls1 compensates for stalled Cls2 function in *Staphylococcus aureus* under conditions of acute acid stress. ***FEMS Microbiol Lett***. 338:141-6, 2013, doi: 10.1111/1574-6968.12037. Epub 2012 Nov 22.
5. **Ohniwa RL**, Ushijima Y, Saito S and Morikawa K, “Proteomic Analyses of Nucleoid-Associated Proteins

in *Escherichia coli*, *Pseudomonas aeruginosa*, *Bacillus subtilis*, and *Staphylococcus aureus.*" ***PLoS ONE***, 6(4), e19172 (2011)

6. Tsai M*, **Ohniwa RL***, Kato Y, Takeshita SL, Ohta T, Saito S, Hayashi H and Morikawa K "*Staphylococcus aureus* requires cardiolipin for survival under high salinity conditions."(*equal contribution) ***BMC Microbiology***, **11**:13 (2011)
7. **Ohniwa RL**, Hibino A and Takeyasu K. "Trends in research foci in life science fields over the last 30 years monitored by emerging topics." ***Scientometrics***, 85, 111-127 (2010)
8. **Ohniwa RL**, Morikawa K, Takeshita SL, Kim J, Ohta T, Wada C and Takeyasu K "Transcription-coupled Nucleoid Architecture in Bacteria." ***Genes Cells***, **12**, 1141-52 (2007)
9. **Ohniwa RL**, Morikawa K, Kim J, Kobori T, Hizume K, Matsumi R, Atomi H, Imanaka T, Ohta T, Yoshimura SH, Wada C, and Takeyasu K. "Atomic Force Microscopy Dissects the Hierarchy of Genome Architectures in Eukaryote, Prokaryote and Chloroplast." ***Microscopy & Microanalysis* , 13,** 3-12 (2007)
10. **Ohniwa RL**, Morikawa K, Kim J, Ohta T, Ishihama A, Wada C and Takeyasu K. "Dynamic state of DNA topology is essential for genome condensation in bacteria." ***EMBO J***, **25**, 5591-5602 (2006)