



Isao Oishi, Ph.D. (Research Group Leader)

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Short Biography (150-250 words)

Isao Oishi received a B.Eng. in 1992 from Department of Engineering Science, Osaka University, Japan. After graduation, he majored physiological science and received his M.S. in 1994, and Ph.D. in 1997 from Graduate School of Science, Osaka University. From 1997 to 2003 he worked at Kobe University, Japan and studied protein phosphorylation and developmental signal transduction using various model organisms including fly, nematode, and mouse. During this period, he cloned novel receptor tyrosine kinase family, Ror RTKs, and revealed their function as co-receptor for Wnt signaling. From 2004-2007 he joined JCI Belmonte Lab at the Salk Institute in US as a post-doctoral research fellow, and studied the molecular mechanisms for developmental left-right patterning pathways using zebrafish. From 2007 he has worked at AIST, Japan and studied genetic modification of chicken. In 2016, he succeeded to generate *ovomuroid* null chicken, using genome editing technology. As ovomucoid protein is the most severe egg white allergen, the eggs from null chickens are expected to show the reduced allergenicity.

Research Interest:

What I am focusing on is generation of industrial technology using developmental biology. My research goal is development of “golden hen”, which produce “golden egg” containing valuable recombinant protein in the egg white.