

CURRICULUM VITAE

Hokto Kazama, Ph.D.

Laboratory Head

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Research Experience

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| 2006/04-05 | Postdoctoral research fellow, Department of Physics, The University of Tokyo, Tokyo, Japan |
| 2006/05-2010/05 | Research Fellow in Neurobiology, Department of Neurobiology, Harvard Medical School |
| 2010/06-present | Laboratory Head, Laboratory for Circuit Mechanisms of Sensory Perception, RIKEN Brain Science Institute |
| 2011/04-present | Visiting associate professor, Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo |

Education

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| 2001 B.S. | Department of Physics, School of Science, The University of Tokyo, Tokyo, Japan |
| 2003 M.S. | Department of Physics, Graduate School of Science, The University of Tokyo, Tokyo, Japan |
| 2006 Ph.D. | Department of Physics, Graduate School of Science, The University of Tokyo, Tokyo, Japan |

Awards and Funding

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| 2003-2006 | Research Fellowship of the Japan Society for the Promotion of Science for Young Scientists (DC1) |
| 2006-2007 | Research fellow of the Uehara Memorial Foundation |
| 2008-2010 | National Research Service Award (NIH, F32DC009538) |
| 2009 | Keystone Symposia Education Fund Scholarship |
| 2011-2013 | Grant-in-Aid from the Ministry of Education (23680044) |
| 2013-2014 | Grant-in-Aid from the Ministry of Education (25115732) |
| 2015-2016 | Grant-in-Aid for Foreign JSPS fellow (15F15384) |

Teaching and Community service

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| 2003-2004 | Teaching assistant, The University of Tokyo, Biophysics |
| 2009 | Lecture on English presentation at the National Institute of Genetics |
| 2010-present | Lecture on introductory brain science at the University of Tokyo |
| 2011 | Lecture on neural circuit at ASCONE |
| 2011-present | Lecture on learning and memory at RIKEN BSI |
| 2014 | Lecture on brain science in the World Brain Week program |
| 2014 | Lecture on globalization in MEXT super global high school program |
| 2015 | Lecture at meeting for Society for young researchers in neuroscience |
| 2015-present | Lecture on biology at the University of Chiba |
| 2015 | Lecture at RIKEN Brain Science Institute Summer School |
| 2016 | Lecture at Hibiya High School |
| 2016 | Lecture at International Brain Bee local competition (<i>forthcoming</i>) |

Publications

Badel, L., Ohta, K., Tsuchimoto, Y., **Kazama, H.** (2016). Decoding of context-dependent olfactory behavior in *Drosophila*. *Neuron* 91, 155-167.

Kazama, H. (2015). Systems neuroscience in *Drosophila*: Conceptual and technical advantages. *Neuroscience* 296, 3-14.

Oizumi, M., Satoh, R., **Kazama, H.**, Okada, M. (2012). Functional differences between global pre- and postsynaptic inhibition in the *Drosophila* olfactory circuit. *Frontiers in Computational Neuroscience* 6:14.

Kazama, H., Yaksi, E., Wilson, R.I. (2011). Cell death triggers olfactory circuit plasticity via glial signaling in *Drosophila*. *The Journal of Neuroscience* 31, 7619-7630.

Satoh, R., Oizumi, M., **Kazama, H.**, Okada, M. (2010). Mechanisms of maximum information preservation in the *Drosophila* antennal lobe. *PLoS One* 5 (5), e10644.

Kazama, H. and Wilson, R.I. (2009). Origins of correlated activity in an olfactory circuit. *Nature Neuroscience* 12, 1136-1144.

Kazama, H. and Wilson, R.I. (2008). Homeostatic matching and nonlinear amplification at identified central synapses. *Neuron* 58, 401-413.

Kazama, H., Ichikawa, A., Kohsaka, H., Morimoto-Tanifuji, T., and Nose, A. (2008). Innervation and activity dependent dynamics of postsynaptic oxidative metabolism. *Neuroscience* 152, 40-49.

Kazama, H., Nose, A., and Morimoto-Tanifuji, T. (2007). Synaptic components necessary for retrograde signaling triggered by calcium/calmodulin-dependent protein kinase II during synaptogenesis. *Neuroscience* 145, 1007-1015.

Nakayama, H., **Kazama, H.**, Nose, A., and Morimoto-Tanifuji, T. (2006). Activity-dependent regulation of synaptic size in *Drosophila* neuromuscular junctions. *The Journal of Neurobiology* 66, 929-939.

Morimoto-Tanifuji, T., **Kazama, H.**, and Nose, A. (2004). Developmental stage-dependent modulation of synapses by postsynaptic expression of activated calcium/calmodulin-dependent protein kinase II. *Neuroscience* 128, 797-806.

Kazama, H., Morimoto-Tanifuji, T., and Nose, A. (2003). Postsynaptic activation of calcium/calmodulin-dependent protein kinase II promotes coordinated pre- and postsynaptic maturation of *Drosophila* neuromuscular junctions. *Neuroscience* 117, 615-625.

Invited Talks

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| 2016 | University of Washington, Seattle, WA (<i>forthcoming</i>) |
| 2016 | Salk Institute, La Jolla, CA (<i>forthcoming</i>) |
| 2016 | Interdisciplinary Theoretical Science Colloquium, RIKEN, Wako (<i>forthcoming</i>) |
| 2016 | International symposium on olfaction and taste (ISOT), satellite, Tokyo |
| 2015 | Annual meeting of the Japan neuroscience society, Kobe |
| 2015 | Chiba University, Chiba |
| 2015 | Meeting for Society for young researchers on neuroscience, Kanagawa |
| 2014 | National Institute of Neuroscience, Tokyo |
| 2013 | Tokyo Metropolitan Institute of Medical Science, Tokyo |
| 2013 | Mesoscopic neurocircuitry, Atami |
| 2013 | Mechanisms of Brain and Mind Workshop, Rusutsu |
| 2012 | Annual meeting of the Japan neuroscience society, Nagoya |
| 2012 | Comprehensive Brain Science Network Workshop on olfaction, Tokyo |
| 2011 | Osaka University, Osaka |
| 2011 | Toyama University, Toyama |
| 2011 | Autumn School for Computational Neuroscience, Suwa |
| 2011 | Annual meeting of the Zoological Society of Japan, Asahikawa |
| 2011 | Comprehensive Brain Science Network workshop, Kobe |
| 2011 | Synapse meeting at National Institute for Physiological Sciences, Okazaki |
| 2010 | International Symposium on Taste and Olfactory Perception, Fukuoka |
| 2010 | The University of Tokyo, Tokyo |
| 2010 | Annual meeting of the Japan neuroscience society, Kobe |
| 2010 | University of Massachusetts Medical School, Worcester, MA |
| 2009 | Harvard University, Cambridge, MA |
| 2009 | National Institute of Genetics, Mishima |
| 2009 | RIKEN Brain Science Institute, Wako |
| 2009 | Tokyo University of Pharmacy and Life Sciences, Hachioji |
| 2008 | National Institute of Genetics, Mishima |
| 2008 | The University of Tokyo, Tokyo |