CURRICULUM VITAE

Hokto Kazama, Ph.D.

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Appointments

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
2010/06-2018/03	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
2018/04-present	Laboratory Head, Laboratory for Circuit Mechanisms of Sensory Perception, RIKEN Center for Brain Science
Education	
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	
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
2017	Ando Momofuku Award
External Grants	
2011-2013	Grants-in-Aid for Scientific Research (23680044)
2013-2014	Grants-in-Aid for Scientific Research (25115732)
2015-2017	Grants-in-Aid for Foreign JSPS fellow (15F15384)
2018-2019	Grants-in-Aid for Scientific Research (18K19502)
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Teaching and Community service

2003-2004 2009 2010-present 2011 2011-present 2014 2014 2015 2015-present 2015 2016 2016 2016 2016 2016 2017	Teaching assistant, The University of Tokyo, Biophysics Lecture on English presentation at the National Institute of Genetics Lecture on introductory brain science at the University of Tokyo Lecture on neural circuit at ASCONE Lecture on learning and memory at RIKEN BSI Lecture on brain science in the World Brain Week program Lecture on globalization in MEXT super global high school program Lecture at meeting for Society for young researchers in neuroscience Lecture on biology at the University of Chiba Lecture at RIKEN Brain Science Institute Summer School Lecture at Hibiya High School Lecture at International Brain Bee local competition Terumo Foundation Web Material on the neurobiology of smell Lecture at RIKEN corporate seminar Lecture at Tokyo University of Pharmacy and Life Sciences
2017	Lecture at Tsukuba High School

Publications

- Ando T, Sekine S, Inagaki S, Misaki K, Badel L, Moriya H, Sami MM, Chihara T, Kazama H, Yonemura S, Hayashi S. (2019) Nanopore formation in the cuticle of the insect olfactory sensillum. Current Biology 29, 1512-1520.
- Fujisawa S and Kazama H. (2019). Circuits and neural dynamics underlying behavior. **Neuroscience Research** 140, 1-2.
- Mercier D, Tsuchimoto Y, Ohta K, Kazama H. (2018). Olfactory landmark-based communication in interacting *Drosophila*. **Current Biology** 28, 2624-2631.
- Takagi S, Cocanougher BT, Niki S, Miyamoto D, Kohsaka H, Kazama H, Fetter RD, Truman JW, Zlatic M, Cardona A, Nose A (2017). Divergent connectivity of homologous command-like neurons mediates segment-specific touch responses in *Drosophila*. **Neuron** 96, 1373-1387.
- Shiozaki HM and Kazama H. (2017). Parallel encoding of recent visual experience and self-motion during navigation in *Drosophila*. **Nature Neuroscience** 20, 1395-1403.
- Inada K, Tsuchimoto Y, Kazama H. (2017). Origins of cell-type-specific olfactory processing in the *Drosophila* mushroom body circuit. **Neuron** 95, 357-367.
- 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 RI. (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 RI. (2009). Origins of correlated activity in an olfactory circuit. **Nature Neuroscience** 12, 1136-1144.
- Kazama H and Wilson RI. (2008). Homeostatic matching and nonlinear amplification at identified central synapses. **Neuron** 58, 401-413.
- Kazama H, Ichikawa A, Kohsaka H, Morimoto-Tanifuji T, Nose A. (2008). Innervation and activity dependent dynamics of postsynaptic oxidative metabolism. **Neuroscience** 152, 40-49.
- Kazama H, Nose A, 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, 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, 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, Nose A. (2003). Postsynaptic activation of calcium/calmodulindependent protein kinase II promotes coordinated pre- and postsynaptic maturation of *Drosophila* neuromuscular junctions. **Neuroscience** 117, 615-625.

Invited Talks

2019	Annual meeting of the Molecular Biology Society of Japan, Fukuoka (forthcoming)
2019	Naito Conference on Integrated Sensory Sciences, Sapporo (forthcoming)
2019	Annual meeting of the Japan neuroscience society, Niigata (forthcoming)
2019	The University of Tokyo Medical School, Tokyo
2019	Annual meeting of the Japanese society of developmental biologists, Osaka
2018	UCSF, San Francisco, CA
2018	Annual meeting of the Japan neuroscience society, Kobe (organizer)
2018	International Workshop on olfaction, OIST, Okinawa, (organizer)
2018	MIT Colloquium, Cambridge, MA
2018	New York University, NY
2018	Columbia Workshop on Brain Circuits, Columbia University, NY
2018	The Japan Society of Applied Physics, Tokyo
2018	Tokyo Medical and Dental University Symposium, Tokyo
2017	Hokkaido University, Sapporo
2017	Consortium of Biological Sciences, Kobe
2017	International Symposium on whole-brain/organ imaging, Saitama Univ, Saitama
2017	International Symposium on Taste and Olfactory Perception, Kyushu Univ, Fukuoka
2017	Research Meeting on Emotion, NIPS, Okazaki
2017	International Workshop on Neuroscience, Nagoya University, Nagoya

- 2017 Kao Corporation Research Institute, Tochigi
- 2017 Tokyo University of Pharmacy and Life Sciences, Hachioji
- 2017 NICT-NSF Workshop on Computational Neuroscience, CiNet, Osaka
- 2016 University of Washington, Seattle, WA
- 2016 Salk Institute, La Jolla, CA
- 2016 Interdisciplinary Theoretical Science Colloquium, RIKEN, Wako
- 2016 International symposium on olfaction and taste (ISOT), satellite, Tokyo
- 2015 Annual meeting of the Japan neuroscience society, Kobe (organizer)
- 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 Zoolological 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