

Masahiro Akiyama, Ph.D.

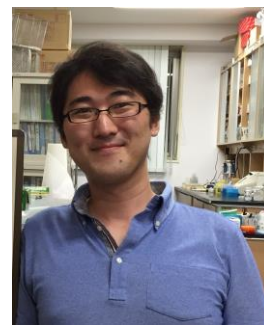
Date of Birth: July 20, 1983

Affiliation:

Environmental Biology Laboratory,
Faculty of Medicine, University of Tsukuba

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Academic career

- 2008 BS in Applied Bioscience, Department of Applied Biology and Chemistry, Tokyo University of Agriculture, Japan
- 2010 MS in Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba
- 2014 PhD in Medicine, Doctoral Program in Biomedical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan

Professional/ Scientific Career

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| 2014–2015 | Assistant Professor | Leading Graduate School Doctoral Program,
Ph.D. Program in Human Biology, University
of Tsukuba, Japan |
| 2015, April– | Assistant Professor | Faculty of Medicine, University of Tsukuba,
Japan |

Awards

- 2012 Young Scientist Award, 7th Tsukuba Medical Science Research Meeting, Tsukuba, Japan
- 2015 Outstanding Doctoral Research Awards, University of Tsukuba, Japan
- 2015 Young Investigation Award, Methylmercury Meeting 2015, Tokyo, Japan
- 2016 Sakurai Award, The 35rd Annual Meeting on Environmental Pollutants; Chalk Talk 2016 meeting, Sendai, Japan
- 2016 Young Investigation Award, Methylmercury Meeting 2016, Tokyo, Japan

Research interests

Humans are exposed, on a daily basis, to a variety of highly reactive chemical substances through food, drinking water and the atmosphere. My research interests focus on the effects of environmental chemicals on the body and response mechanisms.

Selected publications

1. Yasuhiro Shinkai, Akira Masuda, Masahiro Akiyama, Ming Xian, Yoshito Kumagai: Cadmium-Mediated Activation of the HSP90/HSF1 Pathway Regulated by Reactive Persulfides/Polysulfides. *Toxicological Sciences*, Vol.156, 412-421, 2017
2. Masahiro Akiyama & Yasunori Kanaho: Physiological functions of the small GTPase Arf6 in the nervous system. *Small GTPases*, Vol.6, 160-164, 2015
3. Masahiro Akiyama, Hiroshi Hasegawa, Tsunaki Hongu, Michael A. Frohman, Akihiro Harada, Hiroyuki Sakagami, Yasunori Kanaho: Trans-regulation of oligodendrocyte myelination by neurons through small GTPase Arf6-regulated secretion of fibroblast growth factor-2. *Nature Communications*, Vol.5, 4744, 2014
4. Katsuyasu Sakurai, Masahiro Akiyama, Bin Cai, Alexandra Scott, Bao-Xia Han, Jun Takatoh, Markus Sigrist, Silvia Arber, and Fan Wang: The organization of submodality-specific touch afferent inputs in the vibrissa column. *Cell Reports*, Vol.5, 87–98, 2013
5. Masahiro Akiyama, Miao Zhou, Rika Sugimoto, Tsunaki Hongu, Momoko Furuya, Yuji Funakoshi, Mitsuyasu Kato, Hiroshi Hasegawa, and Yasunori Kanaho: Tissue and Development Dependent Expression of the Small GTPase Arf6 in Mice. *Developmental Dynamics*, Vol.239, 3416–3435, 2010