Curriculum Vitae

Atsuki HIRAMOTO Ph.D.

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POSITIONS

***January 2021-current***

**Postdoctoral research fellow**

Institute of Molecular and Clinical Ophthalmology Basel

Laboratory of Prof. Botond Roska

***April***–***December 2020***

**Postdoctoral research fellow**

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Laboratory of Prof. Akinao Nose

***October***–***December 2016***

**HHMI Janelia Research Campus Visiting Student Researcher**

Laboratory of Dr. Albert Cardona

EDUCATION

***March 2020***

**Doctor of Philosophy**

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Laboratory of Prof. Akinao Nose

***March 2017***

**Master of Science**

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Laboratory of Prof. Akinao Nose

***March 2015***

**Bachelor of Engineering**

Undergraduate Course Program of Environmental Engineering, Faculty of Engineering, Kyoto University

Laboratory of Prof. Yuzuru Matsuoka

RESEARCH EXPERIENCE

***April 2015****–****December 2020***

**Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo**

Prof. Akinao Nose, Principal Investigator

Research Project: A behavior specific neural circuit that regulate and generate muscular relaxation pattern in *Drosophila* larvae

During my Ph.D., I have found that pattern of muscular relaxation in *Drosophila* larval backward escape locomotion is regulated and generated by segmentally repeated ascending cholinergic interneurons that is input from command neurons and output inhibitory pre-motor neurons.

Techniques included: optogenetics, calcium imaging, behavior assay, EM circuit mapping, signal analysis, image analysis

***October***–***December 2016***

**HHMI Janelia Research Campus**

Dr. Albert Cardona, Group Leader

Research Project: Characterizing neural circuits that induce backward locomotion

Techniques included: EM circuit mapping

***April 2014***–***March 2015***

**Undergraduate Course Program of Environmental Engineering, Faculty of Engineering, Kyoto University**

Prof. Yuzuru Matsuoka, Principal Investigator

Research Project: A comparison of air pollutant from a global chemical transport model and satellite date

Techniques included: computer simulation

TEACHING EXPERIENCE

***September 2019***–***February 2020***

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Teaching assistant

***April***–***July 2019***

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Teaching assistant

***June***–***August 2018***

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Tutor

***April***–***July 2018***

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Teaching assistant

***September 2017***–***April 2018***

Department of Complexity Science and Engineering, Graduate School of Frontier Sciences, The University of Tokyo

Tutor

FELLOWSHIP

***June***–***November 2019***

Academic Research Grant for GSFS Doctor Course Students

***June***–***November 2018***

Academic Research Grant for GSFS Doctor Course Students

***June***–***November 2017***

Academic Research Grant for GSFS Doctor Course Students

AWARDS

***2020***

Repayment Exemption for Students with Excellent Grades, Japan Student Services Organization (JASSO) Type I (interest-free) scholarship.

***2019***

Travel award to attend The 42nd Annual Meeting of the Japan Neuroscience Society

***2017***

Repayment Exemption for Students with Excellent Grades, Japan Student Services Organization (JASSO) Type I (interest-free) scholarship.

PUBLICATIONS

Atsuki Hiramoto, Julius Jonaitis, Sawako Niki, Richard D. Fetter, Albert Cardona, Stefan R. Pulver, Akinao Nose. Regulation of coordinated muscular relaxation in *Drosophila* larvae by a pattern-regulating intersegmental circuit. Nature Communications 12, 2943 (2021)

DOI: [10.1038/s41467-021-23273-y](https://www.nature.com/articles/s41467-021-23273-y) [**selected as Featured articles**](https://www.nature.com/collections/mjkksldswr)

PRESENTATION

Oral presentation

***July 25th, 2019, Niigata (Japan)***

**The 42nd Annual Meeting of the Japan Neuroscience Society**

Atsuki Hiramoto, Julius Jonaitis, Sawako Niki, Richard Fetter, Albert Cardona, Stefan Pulver, Akinao Nose

“A neural circuit that orchestrates muscle relaxation in an escape behavior”

Poster presentation

***July 26th***–***29th, 2018, Kobe (Japan)***

**The 41st Annual Meeting of the Japan Neuroscience Society**

Atsuki Hiramoto, Julius Jonaitis, Sawako Niki, Richard Fetter, Albert Cardona, Stefan Pulver, Akinao Nose

“Identification of a neuronal circuit that can elicit backward locomotion in Drosophila larvae”

***July 20th***–***23rd, 2017, Makuhari (Japan)***

**The 40th Annual Meeting of the Japan Neuroscience Society**

Atsuki Hiramoto, Julius Jonaitis, Sawako Niki, Richard Fetter, Albert Cardona, Stefan Pulver, Akinao Nose

“Identification of neuronal circuitry that regulate backward escape behavior in Drosophila larvae”

***October 23rd***–***26th, 2016, HHMI Janelia Research Campus (USA)***

**Janelia conference: “Behavioral Neurogenetics of Drosophila Larva”**

Atsuki Hiramoto, Sawako Niki, Dohjin Miyamoto, Akinao Nose

“Identification of interneurons that induce backward escape behavior in Drosophila larvae”

***July 20th***–***22nd, 2016, Yokohama (Japan)***

**The 39th Annual Meeting of the Japan Neuroscience Society**

Atsuki Hiramoto, Sawako Niki, Dohjin Miyamoto, Akinao Nose

“Identification of interneurons that induce backward escape behavior in Drosophila larvae”