

Atsuki HIRAMOTO Ph.D.

Klybeckstrasse 141, WKL 420, 4057 Basel, Switzerland | +41 76 274 67 82 | atsuki.hiramoto@job.ch | ahiram.info

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 data

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://doi.org/10.1038/s41467-021-23273-y) **selected as Featured articles**

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”