



Kazuki Tanaka-Shin'ya

PHD STUDENT AT DOSHISHA UNIVERSITY

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"Only to do my best in any case."

Summary

I am a PhD student at Doshisha University, supervised by Prof. Kohta I. Kobayasi. My research focuses on exploring the physiological functions of the MAP2, one of the microtubule-associated proteins. This exploration involves studying the effects of MAP2 loss for signal processing in hearing and balance employing range methods including electrophysiological, cell biological and histological observations. Additionally, I have a keen interest in the mechanisms of mother-infant communication via vocalization and behavior.

KEYWORDS: Microtubule-associated protein, MAP2, Genetic hearing loss, Inner ear, Cochlea hair cell, Neuroscience, Hearing physiology

Education

Graduate School of Life and Medical Sciences(Doctoral Course), Doshisha University

PHD ENGINEERING

- Supervisor: Prof. Kohta I. Kobayasi

Kyoto, Japan

Apr. 2022 - present

Master of Science in Engineering

GRADUATE SCHOOL OF LIFE AND MEDICAL SCIENCES(MASTER COURSE), DOSHISHA UNIVERSITY

- Supervisor: Prof. Kohta I. Kobayasi

Kyoto, Japan

Apr. 2020 - Mar. 2022

Bachelor of Engineering

FACULTY OF LIFE AND MEDICAL SCIENCES, DOSHISHA UNIVERSITY

- Supervisor: Assoc. Prof. Kohta I. Kobayasi

Kyoto, Japan

Apr. 2016 - Mar. 2020

Teaching Experience

Learning Assistant

DOSHISHA UNIVERSITY

- Provide advice and consultation to undergraduates on out-of-class learning based on the expertise.

Kyoto, Japan

Apr. 2021 - May 2022, Apr. 2024 - present

Teaching Assistant

DOSHISHA UNIVERSITY

- Medical Information Laboratory, Sensory Information Systems, Bachelor Thesis

Kyoto, Japan

Apr. 2020 - Mar. 2022

Supervision of Thesis Research

DOSHISHA UNIVERSITY

- Supervision of 4 Master Students and 3 Bachelor Students

Kyoto, Japan

Apr. 2020 - present

Part-time tutoring

KYOSIN Co., LTD.

- Teaching of mathematics, biology, chemistry, and English for elementary through high school students, and research and development of teaching materials

Kyoto, Japan

Jun. 2016 - Apr. 2021

Teaching practice

KYOTO BOARD OF EDUCATION

- Teaching biology, chemistry, and physics to junior high school students, as well as research and development of teaching materials

Kyoto, Japan

Jun. 2020

Skills

Programming

- MATLAB, R, Python, Neurobs Presentation

Languages

- Japanese, English

- Junior high school teaching license (Science)
- High school teaching license (Science)

Publications

PUBLISHED

- Ryo Nishibori, Harutaka Nakagawa, **Kazuki Shin'ya**, Yuta Tamai, Yuki Ito, Kohya I Kobayasi, "Effects of maternal separation on adult vocal communication: a Mongolian gerbil (*Meriones unguiculatus*) study", Acoustical Science and Technology, J-stage. (DOI: <https://doi.org/10.1250/ast.e24.03>)

Fellowships and Grants

Japan Society for the Promotion of Science (JSPS) Doctoral Course (DC) Research Fellowships

Apr. 2023 - Mar. 2025

The Japan Science Society, Sasagawa Scientific Research Grant, Department of Biology

Apr. 2022 - Feb. 2023

Presentations (International Conference)

- **Kazuki Tanaka**, Tomohiro Miyasaka, Akihiro Harada, Kohta I Kobayasi., "The effect of MAP2 gene deficiency on hearing", Society for neuroscience Global Connectome: A Virtual Event, Chicago, USA, January 12-14, 2021.
- Emi Fukuzawa, **Kazuki Shin'ya**, Misaki Takaoka, Yuki Ito, Tomohiro Miyasaka, Nobuto Kakuda, Akihiro Harada, Kohta I Kobayasi., "Does loss of MAP2 function affect sound perception? - Measuring auditory characteristics using operant conditioning -", XXVIII International Bioacoustics Congress, Japan, October 27-31, 2023.
- Ryo Nishibori, Yume Kinoshita, Harutaka Nakagawa, **Kazuki Shin'ya**, Yuta Tamai, Yuki Ito, and Kohta I. Kobayasi., "Maternal separation affects social communication in juvenile and adult Mongolian gerbils (*Meriones unguiculatus*)", XXVIII International Bioacoustics Congress, Japan, October 27-31, 2023.
- Harutaka Nakagawa, Ryo Nishibori, **Kazuki Shin'ya**, Kohta I. Kobayasi., "Effects of early life stress experience on vocalization and behavior changes during aggressive encounters in Mongolian gerbils (*Meriones unguiculatus*).", XXVIII International Bioacoustics Congress, Japan, October 27-31, 2023.
- Mizuki Katayama, **Kazuki Tanaka**, Yuki Ito, Kohta I Kobayasi., "Importance of mother-infant vocal communication: maternal separation causes prolonged developmental delay and inhibits USVs production in the Mongolian gerbil", The 44th Annual Meeting of the Japan Neuroscience Society The 1st CJK International Meeting, Japan, July 29-31, 2021.

Reference

Prof. Kohta I. Kobayasi, Ph.D.

- University: Doshisha University
- Institute: Department of Biomedical Information
- Email: kkobayas@mail.doshisha.ac.jp

Prof. Shizuko Hiryu, Ph.D.

- University: Doshisha University
- Institute: Department of Biomedical Information
- Email: shiryu@mail.doshisha.ac.jp

Prof. Tomohiro Miyasaka, Ph.D.

- University: Nihon University
- Institute: Department of Pharmacy
- Email: miyasaka.tomohiro@nihon-u.ac.jp