

Ikko Kimura, M.D., Ph. D.

Postdoctoral Researcher

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EDUCATION

Ph. D. in Science (Apr 2020 – Mar 2023), *Graduate School of Frontier Biosciences, Osaka University*
Advisor: Prof. Kaoru Amano

MD Researcher Training Program (Apr 2014 – Mar 2018), *Faculty of Medicine, Osaka University*
Advisor: Prof. Shigeru Kitazawa

B. in Medicine (Apr 2012 – Mar 2018), *Faculty of Medicine, Osaka University*

RESEARCH APPOINTMENTS

Postdoctoral Researcher, *Danish Research Centre for Magnetic Resonance* 2024 – now
Advisor: Prof. Axel Thielscher

Special Postdoctoral Researcher, *RIKEN Center for Biosystems Dynamics Research* 2023 – 2024
Advisor: Dr. Takuya Hayashi and Dr. Joonas A. Autio

Research Assistant, *Center for Information and Neural Network* 2022 – 2023
Advisor: Prof. Masamichi J. Hayashi

Research Assistant, *Department of Neurology, Osaka University* 2021 – 2023
Advisor: Prof. Hideki Mochizuki and Prof. Yuta Kajiyama

Internship, *McConnell Brain Imaging Centre, Montreal Neurological Institute* 2015
Advisor: Prof. Richard Hoge

CLINICAL EXPERIENCE

Junior Resident, *Osaka University Hospital* 2019 – 2020

Junior Resident, *Minoh City Hospital* 2018 – 2019

FUNDING

RIKEN's program for Special Postdoctoral Researchers (JPY 3000K) 2023 – 2024

Kishimoto International Exchange Scholarship, Osaka University (JPY 200K) 2015

Scholarship of MD Researcher Training Program, Osaka University (JPY 1920K) 2013 – 2016

AWARDS

Japan Neuroscience Society-Society for Neuroscience Travel Award, Neuroscience 2022, 2022

Young Encouragement Award, The 23rd Congress of Japan Human Brain Mapping, 2021

Encouragement Award, The 2nd Project Meeting of Chronogenesis, 2021

PEER-REVIEWED ARTICLES

(* = co-first authors)

- [1] **Kimura I.**, Hayashi M.J., Amano K., Immediate effect of quadri-pulse stimulation on human brain microstructures and functions. *Imaging Neuroscience*, 2, pp 1-15, 2024
- [2] **Kimura I.***, Noyama H.*, Onagawa R., Takemi M., Osu R., Kawahara J., Efficacy of neurofeedback training for improving attentional performance in healthy adults: A systematic review and meta-analysis. *Imaging Neuroscience*, 2, pp 1-23, 2024
- [3] **Kimura I.**, Revankar G.S., Ogawa S., Amano K., Kajiyama Y., Mochizuki H., Neural correlates of impulsive compulsive behaviors in Parkinson's disease: A Japanese retrospective study. *Neuroimage: Clinical*, 3(1), pp 1-10, 2023
- [4] **Kimura I.**, Ugawa Y., Hayashi M.J., Amano K., Quadripulse Stimulation: A Replication Study with A Newly Developed Stimulator. *Brain Stimulation*, 15(3), pp. 579-81, 2022
- [5] **Kimura I.**, Oishi H., Hayashi M.J., Amano K., Microstructural properties of human brain revealed by fractional anisotropy can predict the after-effect of intermittent theta burst stimulation. *Cerebral Cortex Communications*, 3(1), pp 1-11, 2022
- [6] Wadayama T.*, Shimizu M.*, **Kimura I.***, et al., Erdheim-Chester Disease Involving the Central Nervous System with Latent Toxoplasmosis. *Internal Medicine*, 61 (17), pp. 2661-2666, 2022

SUBMITTED

- [1] Autio A.J., **Kimura I.**, Ose T. et al., (under review), Mapping vascular network architecture in primate brain using ferumoxytol-weighted laminar MRI.

CONFERENCE PRESENTATIONS (SELECTED)

- [1] **Kimura, I.**, Bijsterbosch J.D., Glasser M.F., Hayashi T. (June 2024) Dynamics of functional modes represent behavior during task fMRI, Organization for Human Brain Mapping 2024 (Seoul, Korea)
- [2] **Kimura, I.**, Bijsterbosch J.D., Glasser M.F., Hayashi T. (February 2024) Dynamics of functional modes represent behavior during task fMRI, The 26th Congress of Japan Human Brain Mapping Society (Utsunomiya, Japan)
- [3] **Kimura, I.**, Hayashi M.J., Amano, K. (July 2023) Immediate effect of quadri-pulse stimulation on human brain microstructures, Organization for Human Brain Mapping 2023 (Montreal, Canada)
- [4] **Kimura, I.**, Kajiyama, Y., Revankar, G.S., Ogawa, K., Amano, K., Mochizuki, H. (November 2022) Neuroimaging characteristics of impulse control disorders and dopamine dysregulation syndrome in Parkinson's Disease. Neuroscience 2022 (San Diego, USA)
- [5] **Kimura, I.**, Kajiyama, Y., Revankar, G.S., Ogawa, K., Amano, K., Mochizuki, H. (June 2022) Neural bases on impulsive-compulsive behaviours in patients with Parkinson's Disease - A Japanese retrospective study. NEURO 2022 (Okinawa, Japan)
- [6] **Kimura, I.**, Kajiyama, Y., Revankar, G.S., Ogawa, K., Amano, K., Mochizuki, H. (February 2022) Functional connectivity on impulsive-compulsive behaviours in patients with Parkinson's Disease - A Japanese retrospective study. The 24th Congress of Japan Human Brain Mapping Society (Online)
- [7] **Kimura, I.**, Oishi, H., Hayashi M.J., Amano, K. (December 2021) Predicting the response to intermittent theta burst stimulation (iTBS) from the microstructural properties of the white matter, The 51st Annual Meeting of the Japanese Society of Clinical Neurophysiology (Sendai, Japan)

[8] **Kimura, I.**, Oishi, H., Hayashi M.J., Amano, K. (September 2021) The microstructural changes in human brain induced by intermittent theta burst stimulation, Brain Box Initiative Conference 2021 (Online)

[9] **Kimura, I.**, Oishi, H., Hayashi M.J., Amano, K., (March 2021) Predicting the response to intermittent theta burst stimulation (iTBS) from the microstructural properties of the white matter, Cognitive Neuroscience Society 2021 Virtual Meeting (Online)

[10] **Kimura, I.**, Oishi, H., Hayashi M.J., Amano, K. (March 2021) Relationship between the change in motor-evoked potential induced by intermittent theta burst stimulation and the microstructural property in the human brain white matter, The 23rd Congress of Japan Human Brain Mapping Society (Online)

[11] **Kimura, I.**, Oishi, H., Hayashi M.J., Amano, K. (January 2021) Relationship between the change in motor-evoked potential induced by intermittent theta burst stimulation and the microstructural property in the human brain, The 2nd Project Meeting of Chronogenesis (Online)

INVITED TALK

[1] **Kimura, I.** (July 2024) Transcranial Magnetic Stimulation: basics and its application, Miyuki Giken Brain Science Seminar (Invited by Prof. Shigeru Kitazawa)

[2] **Kimura, I.** (September 2023) Relationship between repetitive transcranial magnetic stimulation and microstructural property in the human brain & Vessel distributions in the white matter of primates, Institute of Neuroscience and Psychology, University of Glasgow (Invited by Prof. Cassandra Sampaio-Baptista)

[3] **Kimura, I.** (January 2023) Relationship between repetitive transcranial magnetic stimulation and microstructural property in the human brain, Human Brain Research Center Seminar (Invited by Prof. Satoko Koganemaru)

[4] **Kimura, I.** (November 2022) Predicting the after-effect of rTMS from the microstructures in the human brain, The 52nd Annual Meeting of the Japanese Society of Clinical Neurophysiology (Invited by Prof. Yasuo Terao)

RELEVANT SKILLS

Transcranial magnetic stimulation - operating stimulator (Magstim, MagVenture, DeyMed), designing experiments, analysing data, writing manuscripts.

Functional, diffusion, and structural magnetic resonance imaging - designing experiments, analysing data, writing manuscripts.

Programming - Matlab, Python, R, and Bash

Software - FSL, SPM, Freesurfer, Connectome Workbench, MRtrix3, Psychtoolbox etc.

PROFESSIONAL MEMBERSHIP

Organisation for Human Brain Mapping	2023 – now
Society for Neuroscience	2022 – now
The Japan Neuroscience Society	2022 – now
Japanese Society of Clinical Neurophysiology	2021 – now
Japan Human Brain Mapping Society	2020 – now

REFERENCES

Available on request