Ryu (Ryusei) Kawajiri

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EDUCATION

University of Toronto
Department of Pharmacology and Toxicology
Honors BSc in Pharmacology
09/2021 – 06/2026

RELEVANT COURSEWORK

Systems Pharmacology
Drug Development Pipeline
Advanced Topics in Pharmacology and Toxicology
Pharmacology and Toxicology in Drug Development
Pharmacodynamic Principles

SKILLS

Flow Cytometry
Biomaterial/ECM Synthesis
LNP and Polymer Nanoparticle Synthesis
Dynamic Light Scattering
3D Cell Culture Maintenance
Mouse Tissue Isolations
Imaging (Confocal, TEM, Slide Scanner)
Manuscript Writing
Figure Creation and Design

SOFTWARE

FlowJo, GraphPad, Fiji, MS Excel, R
MS Powerpoint, Adobe Photoshop
WordPress, HTML, CSS, Javascript

LANGUAGES

English
Japanese

EXPERIENCE

University of Toronto – Edgar Lab
Research Practicum Student • 09/25 – Current
• Developed and established protocol for specialized antibody-arm RNA-LNPs

Harvard Medical School – Oren Levy Lab
Full-Time Research Intern • 05/24 – 07/25
• Developed and established lab protocols for intestinal organoid isolation/culture and specialized nanoparticle synthesis
• Presented and engaged in discussions with industry and healthcare professionals in over 100 meetings

Centre for Addiction and Mental Health – Galea Lab
Research Practicum Student • 01/24 – 04/24
• Sectioned, stained, and analyzed 200+ brain tissue samples
• Independently adapted MATLAB script for image quantification
• Acknowledged on manuscript, *Parity and APOEε4 genotype contribute distinct changes to functional connectivity across the middle-aged brain*

Keio University – Dr. Haruo Suzuki
Research Intern • 05/22 – 09/23
• Sampled walkways of urban areas (>100,000 people daily) to create geospatial metagenomic and forensic genetic maps
• Worked with MetaSUB organization and Weill Cornell Medicine

PUBLICATIONS AND PRESENTATIONS

R. Kawajiri, H. Kim, Y.S. Choi, and O. Levy. Reaching the full potential of MSC therapy for osteoarthritis. In preparation.

H. Kim, **R. Kawajiri**, Y.S. Choi, E. Stylianou, J.M. Karp, and O. Levy. Transformative Models for Advancing Salivary Gland Research. In submission.

R. Kawajiri, Y.S. Choi, H. Kim, J.M. Karp, and O. Levy. In-situ stem cell activation as a strategy to accelerate burn wound healing. Abstract accepted for 2024 Brigham Research Institute Fall Poster Session. Boston, MA, United States. November 11, 2024.

H. Kim, **R. Kawajiri**, Y.S. Choi, J.M. Karp, and O. Levy. AI-Guided Discovery and Delivery of Novel Treatments for Salivary Gland Dysfunction. In submission.

A. Sanui, J. Chae, A. Watanabe, **R. Kawajiri**, M. Tomita, D.R. Dewi, Y. Shiwa, K. Ryon, B. Tierney, C. Mason, T. Matsumoto, H. Suzuki. Analyzing Shotgun Metagenome Sequence Data Using Web-Based Applications to Infer Taxonomic and Environmental Topic Compositions of Urban Microbiomes in Built Environments. Under review.