

Keio University Human Biology-Microbiome-Quantum Research Center

FY2027 Bio2Q Research Internship Program

Application Guidelines

KEY FACTS

PROGRAM PERIOD

8 - 12 weeks

(between May 10 – August 10, 2027)

ELIGIBILITY

► **Graduate School of Medicine**

Prospective Master's / PhD students

► **Graduate School of Science and**

Technology / Pharmaceutical Sciences

Prospective PhD students

FINANCIAL SUPPORT

Accommodation expenses +

Travel expenses (capped by conditions)

LOCATION

Keio University

(Yagami / Shinanomachi / Shiba-Kyoritsu Campus)

DISCOVER THE FUTURE WITH US!

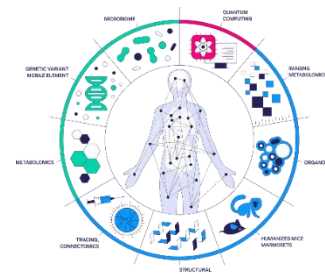
WPI-Bio2Q is Japan's first international research center dedicated to the microbiome—a complex system of nearly 1,000 bacterial species that functions as our body's "second organ."

To unlock this biological complexity at the molecular level, we harness cutting-edge science and venture into next-generation technologies like AI and quantum computing. We are driven to create novel therapies for diseases that remain difficult to cure today.

We warmly welcome curious, ambitious students eager to join us on the global stage!

Learn more:

<https://bio2q.keio.ac.jp/>



ABOUT THE PROGRAM

As part of the Bio2Q STaMP program—a joint cross-disciplinary graduate English program between Medicine, Science and Technology, and Pharmaceutical Sciences—we are currently seeking candidates for research internships.

This unique program allows students to work with multiple mentors and conduct research beyond traditional school boundaries.

If you are eager to collaborate in a dynamic 'place of resonance' with faculty and researchers across these fields, we encourage you to apply!

APPLICATION DEADLINE
December 1, 2026 (23:59 JST)

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1. Eligibility Details

Applicants must meet one of the following criteria:

Graduate School of Medicine

- Current students or recent graduates of a Bachelor's or Master's program
- Wishing to pursue a Master's or PhD program in a field related to WPI-Bio2Q

Graduate School of Science and Technology / Graduate School of Pharmaceutical Sciences

- Current students or graduates of a Master's program
- Wishing to pursue a PhD program in a field related to WPI-Bio2Q

2. Laboratories

Bio-1 Core: Multidimensional data analysis

Name	Field
<u>*Airi Jo-Watanabe</u> Affiliated PI	Vascular biology
<u>Daisuke Takahashi</u> Affiliated PI	Molecular Life Chemistry
<u>Jumpei Sasabe</u> Affiliated PI	Chiral Medical Biology
<u>Juntaro Matsuzaki</u> Affiliated PI	Cancer Biology, microRNA, Extracellular Vesicles
<u>Kazuno Negishi</u> Affiliated PI	Ophthalmology
<u>Kazunori Miyamoto</u> Affiliated PI	Organic Synthesis, Main Group Organic Chemistry, Reactive Intermediate
<u>Kazuyoshi Ishigaki</u> PI	Human immunology, Human genetics, Bioinformatics
<u>Kenjiro Hanaoka</u> Affiliated PI	Analytical Chemistry for Drug Discovery
<u>Leonie Brockmann</u> Jr. PI	Mucosal Immunology, T cell biology, Tolerogenic Immunity, Immune-Microbiota Interactions
<u>Makoto Arita</u> PI	Lipidome Atlas, Lipoquality, Regulation of inflammation, Bioactive molecules, Lipid biochemistry, Metabolomics
<u>Naoya Kumagai</u> Affiliated PI	Molecular Design
<u>Shohei Kojima</u> Jr. PI	Genetics, Virology, Bioinformatics
<u>Yukari Fujimoto</u> Affiliated PI	Organic chemistry, Biomolecular chemistry, Immunomodulation
<u>Yuki Kagoya</u> Affiliated PI	Tumor Immunology, Institute for Advanced Medical Research-Division of Tumor Immunology

*Available only from May to June.

Bio-2 Core: Homeodynamics mechanistic analysis

Name	Field
<u>Hiroaki Onoe</u> Affiliated PI	Microfluidics Organ on a Chip
<u>Keiko Matsuda</u> Jr. PI	Neuroscience
<u>Kenji Tanaka</u> Affiliated PI	Brain Sciences
<u>Kunimichi Suzuki</u> PI	Neuroscience & Structural Biology
<u>Michisuke Yuzaki</u> PI	Learning, Memory, Synapse formation, Synaptic plasticity
<u>Nadinath B. Nillegoda</u> PI	Primate Proteostasis, Cell Repair, Protein Disaggregation, Primate gut repair after dysbiosis
<u>Naoko Irie</u> Affiliated PI	Human early development, germ cell biology, and epigenetics
<u>Toshiro Sato</u> PI	Gastroenterology, Cancer biology, Regenerative medicine
<u>Wataru Shihoya</u> Jr. PI	Structural Biology

Q Core: Quantum computing

Name	Field
<u>Shu Tanaka</u> PI	Quantum annealing, Quantum computing, Ising machine, Statistical physics, Computational physics

3. Required Documents

All documents must be submitted in English.

(1) Curriculum Vitae (CV)

(2) Statement of Purpose (1-2 pages)

(3) Academic Transcripts

- Official transcripts from all universities and graduate schools attended.

(4) Certificate of Enrollment

- Current students: Certificate of Enrollment
- Graduates: Certificate of Graduation from your last school attended

(5) Letter of Recommendation

4. Submission Method & Deadline

Application Procedure

Documents (1) - (4)

The applicant must submit via the [Keio Web Entry System](#).

Acquire My Page:

If you do not have a login ID, register your Email address.

My Page login:

Scroll down under "Recruitment options" and select "WPI-Bio2Q Research Internship Program 2027".

*For overseas applicants:

If the system asks for "Chinese characters" or "furigana", simply copy and paste "漢字" or "フリガナ".

Document (5)

The applicant's academic supervisor (or equivalent) must submit directly via Email.

- Submission Email: bio2q@info.keio.ac.jp

- Subject Line: [Recommendation Letter] Applicant Name_Supervisor Name

- File Format: PDF (with sign and date)

Deadline

December 1, 2026 (23:59 JST)

5. Financial & Visa Support

Accommodation Expenses

- Covered only for housing designated by Keio University WPI-Bio2Q: [Tokyo Student-House MUSASHI-KOSUGI](#)
- WPI-Bio2Q will pay directly to the housing provider on behalf of the participant.

Travel Expenses

- Actual travel expenses will be reimbursed up to a designated cap (range: 30,000 JPY to 100,000 JPY).*

*The exact maximum reimbursement depends on your housing contract plan.

Visa Assistance

- Support for issuing necessary documentation if you reside in a country without a visa exemption agreement with Japan.

*Check the [MOFA Visa Exemption List](#) for details.

6. Selection Schedule

Application Deadline	December 1, 2026 (23:59 JST)
Document Screening Results	Late December 2026 – Early January 2027
Online Interviews	Mid-to-late January 2027
Final Results Announcement	Around February 2027

*Timeline may vary depending on the selection process.

| 7. Insurance & Program Requirements

Insurance Coverage

- **Students at Japanese institutions:** Must be enrolled in both **Gakkensai** (Personal Accident Insurance) and **Gakkenbai** (Liability Insurance).
- **Overseas participants:** Must purchase their own **health insurance** and **travel insurance** covering the entire internship period.

Non-Disclosure Agreement (NDA)

- All participants must sign and submit an NDA regarding intellectual property prior to joining the program.

Contact:

Keio University Human Biology-Microbiome-Quantum Research Center (Bio2Q)

Research Internship Coordinator

Email: bio2q@info.keio.ac.jp