

RIMD

Research Institute for
Microbial Diseases

大阪大学微生物病研究所

2025-2026



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大阪大学微生物病研究所

The Research Institute for Microbial Diseases (RIMD) was established in 1934 to advance the study of microbial and infectious diseases, the immune system, and cancer. Over the years, RIMD has made significant contributions to fundamental medical sciences, including microbiology, immunology, and oncology.



Join us!



We welcome motivated graduate students and researchers to join our various departments.
The Orientation and Lab Tour is held annually in May.
Please check our website for details.

Message from International Researchers at RIMD

01

FAYA NURALDA SITOMPUL
(Department of Signal Transduction D3)



02

Arthur Millius
(Department of Genome Informatics Postdoc)



Other Researchers

RIMD's
Curious People@RIMD



Information in The University of Osaka website

Study at The University of Osaka
The University of Osaka website for Global Affairs
<https://www.osaka-u.ac.jp/en/international>



Study Abroad at The University of Osaka
<https://www.osaka-u.ac.jp/sp/whyou/>



Student Support
Center for International Education and Exchange(CIEE)
<https://ciee.osaka-u.ac.jp/en/>



Student Organization
(OUISA, B.S.P., International Student Associations at The University of Osaka)
https://ciee.osaka-u.ac.jp/en/international_exchange/student_organization/



Work at The University of Osaka
IFReC Website for Overseas Researchers
<https://www.ifrec.osaka-u.ac.jp/en/liaison/>



Scholarship

Japan Student Services Organization (JASSO)
<https://www.studyinJapan.go.jp/en/>



Japanese Government (MEXT) Scholarship Students
<https://www.studyinJapan.go.jp/en/planning/scholarship/>



Municipal Groups for International Exchange

Suita International Friendship Association
<https://suita-sifa.org/en/>



Minoh Association For Global Awareness
<https://mafga.or.jp/en/>



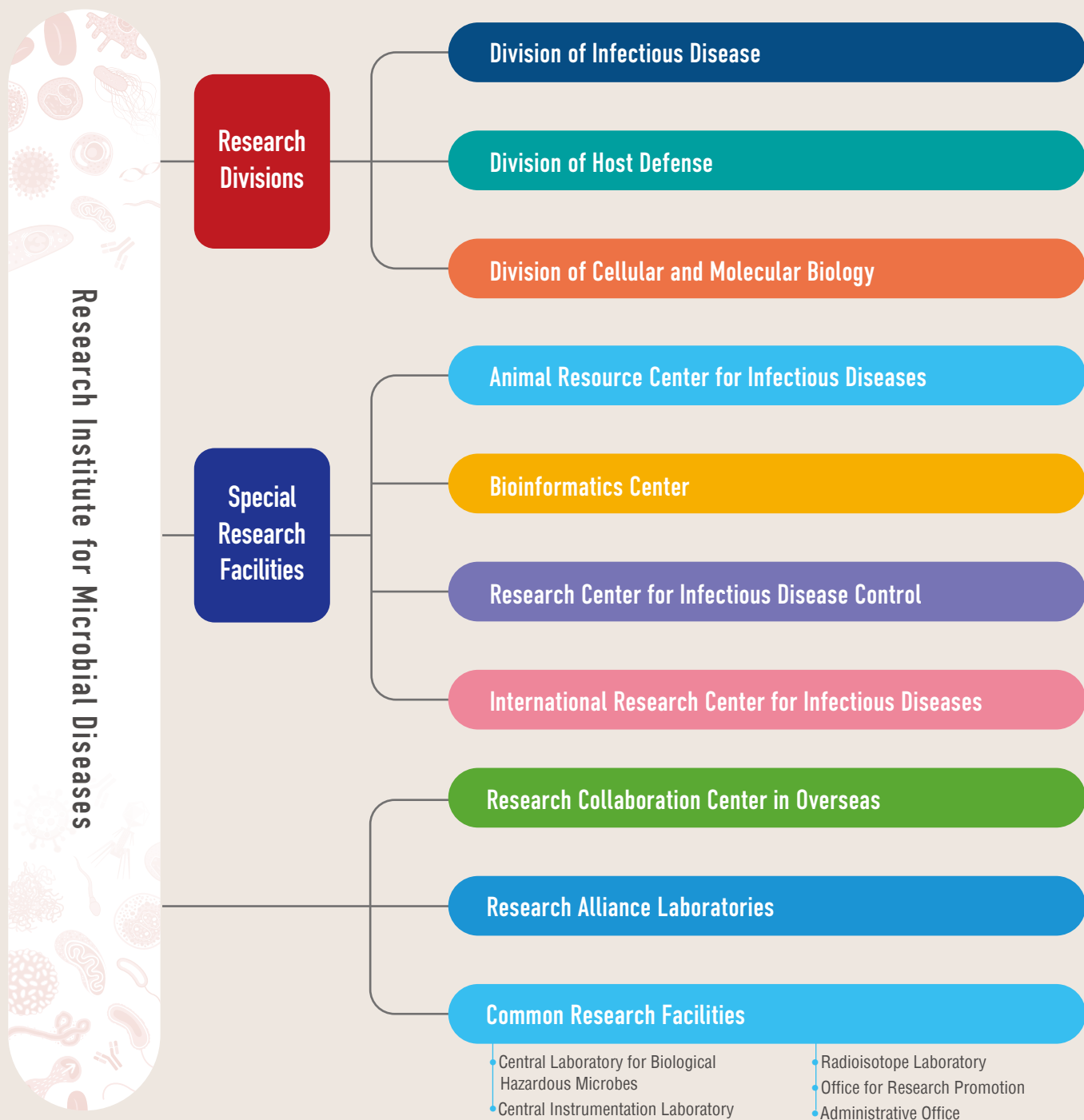
Association for Toyonaka Multicultural Symbiosis
<https://www.a-atoms.info/information-for-foreigners/>



Osaka Foundation of International Exchange,
Planning and Promotion Group
<https://www.ofix.or.jp/english/>



Organization



About RIMD



➤ RIMD-AT-A-GLANCE



➤ RIMD Virtual Tour



Research Divisions

Division of Infectious Disease

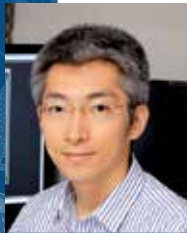


Prof.
Tokiko Watanabe



Department of Molecular Virology

- Ebola virus
- Influenza virus



Prof.
Masahiro Yamamoto



Department of Immunoparasitology

- Toxoplasma
- Parasite immunity
- Tumor immunity

Division of Host Defense



Prof.
Sho Yamasaki



Department of Molecular Immunology

- Immune receptors
- T cells



SA Prof.
Shizuo Akira



Department of Host Defense

- RNA-binding protein



Prof.
Hisashi Arase



Department of Immunochemistry

- Immune tolerance
- Immune evasion



Prof.
Kazuhiro Suzuki



Department of Immune Response Dynamics

- Lymphocyte trafficking
- Neuroimmunology

Laboratory of Immunoglobulobiology

- GPI deficiency (PNH, IGD)



Laboratory of Immunometabolism

- Metabolism
- Immune system



Division of Cellular and Molecular Biology



Prof.
Eiji Hara



Department of Molecular Biology

- Cell senescence



Prof.
Nobuyuki Takakura



Department of Signal Transduction

- Cancers and blood vessels



Prof.
Tohru Ishitani



Department of Homeostatic Regulation

- Cell competition
- Systemic aging



Prof.
Ai Kotani



Department of Regulation of Infectious Cancer

- EB Virus
- Viral cancers

MEXT Joint Usage / Research Center

In 2008, MEXT established a system called "Joint Usage / Research Center" which allows researchers across the country to jointly utilize research facilities and data beyond individual university frameworks for collaborative research. RIMD was designated as Joint Usage / Research Center in 2009.



Next Generation Sequencers



Animal Facility

Special Research Facilities

Bioinformatics Center



Prof.
Masahito Ikawa



Department of Experimental Genome Research

- Reproductive biology
- Genome editing



Prof.
Daron Standley



Department of Genome Informatics

- Bioinformatics

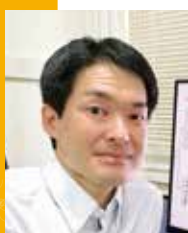


Assoc. Prof.
Shota Nakamura



Department of Infection Metagenomics

- Genomics
- Metagenomics
- Structural biology

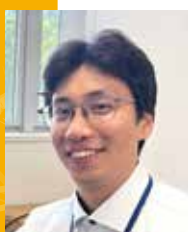


Prof.
Yoichiro Nakatani



Department of Biological Informatics Laboratory
of Medical and Evolutionary Genomics

- Genome evolution
- Cancer genome analysis



Assoc. Prof.
Shotaro Yamasaki



Department of Biological Informatics
Laboratory of RNA Informatics

- Regulatory element analysis
- Sequence optimization



Prof.
Kenji Kamimoto



Department of Biological Informatics
Laboratory of Systems Biology

- Gene regulation system
- AI for biology research

NGS core facility



Network Administrator's Office



Research Center for Infectious Disease Control



Prof.
Tetsuya Iida



Department of Bacterial Infections

- *Vibrio parahaemolyticus*



Prof.
Shiroh Iwanaga



Department of Molecular Protozoology

- Malaria



Prof.
Takeshi Kobayashi



Department of Virology

- Reovirus
- Rotavirus
- Norovirus



SA Prof.
Yoshiharu Matsuura



Laboratory of Virus Control

- RNA Viruses

Laboratory of Malaria Vaccine Development

- Malaria vaccine
- Clinical development



Animal Resource Center for Infectious Diseases



The Center has facilities for conducting infectious animal experiments safely and developing research support for genetically modified animal production technology.



International Research Center for Infectious Diseases



SA Assoc. Prof.
Masaharu Iwasaki



Laboratory of Emerging Viral Diseases

- Arenavirus



SA Assoc. Prof.
Kentaro Tsukamoto



Laboratory of Bacterial Zoonoses

- *Bartonella*



SA Assoc. Prof.
Ryuichiro Abe



Laboratory of Bacterial Pathogenesis

- Antimicrobial resistance
- Bloodstream infection

Pathogenic Microbes Repository Unit



Common Research Facilities



- Central Laboratory for Biological Hazardous Microbes
- Central Instrumentation Laboratory
- Radioisotope Laboratory
- Office for Research Promotion
- Administrative Office

Research Alliance Laboratories

BIKEN-RIMD NGS Laboratory

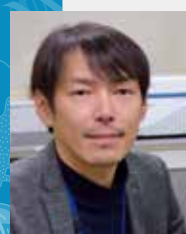


BIKEN Innovative Vaccine Research Alliance Laboratories



Vaccine Creation Group

- Vaccinology



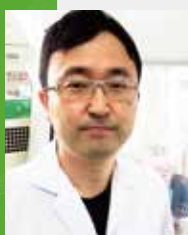
SA Prof.
Hirotaka Ebina



Virus Vaccine Group

- Virus vaccines

Research Collaboration Center in Overseas



Research Collaboration Center on Emerging and Re-emerging Infections (RCC-ERI)
Head of Center
SA Assoc. Prof.
Kazuhisa Okada



Section of Bacterial Infections

Section of Viral Infections

Section of Bacterial Drug Resistance Research

Section of Antiviral Research

Mahidol-Osaka Center for Infectious Diseases

Global Activities

We engage in international research activities and personnel development initiatives, including the Japan-Thailand Infectious Disease Research Center, which is open for widespread use and functions as a collaborative frontline base for global infectious disease control.

- Clinical Training Course on Tropical Infectious Diseases in Thailand
- Taniguchi Scholarship: International Students Scholarship Program



BIKEN

The Research Foundation for Microbial Diseases of Osaka University (BIKEN Foundation)

Established simultaneously with the RIMD in 1934, BIKEN foundation has contributed to the prevention of infectious diseases through the Vaccine development.

ACCESSMAP

► The University of Osaka Suita Campus



Support RIMD

Be part of the quest to find our more in science



The University of Osaka Foundation for the Future

Research Institute for Microbial Diseases

Your support will enable us to fuel innovative
research and education in RIMD.

[How to donate]

Please make your donation for our projects at the following website
<https://www.biken.osaka-u.ac.jp/en/donate/>



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