



**ANNUAL REPORT 2024–2025**  
Research Institute for Biomedical Sciences  
Tokyo University of Science

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# Director's Introduction

The Research Institute for Biological Sciences was established in 1989 at the Tokyo University of Science to facilitate research and education in biomedical sciences. Unique and innovative projects, especially in the field of biomaterial science, have been conducted at our institute.

In 1995, the institute developed into a well-known international research center in immunology under the leadership of its second director, Professor Tomio Tada, the founder of immunology in Japan. Rapid progress in biomedical sciences, genetics of higher animals, analytical methods, and molecular biology has facilitated cross-border research in various fields.

The institute's research fields have expanded to medical and translational sciences, as reflected in its new name, the Research Institute for Biomedical Sciences (RIBS), adopted in 2012, and in the establishment of the Center for Animal Disease Models in 2013. In addition to research in immunology, we have aimed to promote basic research, including embryology, neurology, and inflammation, and to conduct a wide range of medical research on cancer and intractable diseases. Thus, our collaborations have expanded with other faculties both within and outside the university through a cross-appointment system.

To enhance our research activities with government and private funding, we invited a research group with significant achievements in translational research to work with us in April 2018. Furthermore, to promote interdisciplinary collaborative research, a large laboratory space was established and began operation in October 2020.

Since then, to integrate and utilize large amounts of data from omics analyses—including genomics, epigenomics, transcriptomics, proteomics, and metabolomics—together with clinical information from clinical trials on hematological cancer treatment at the National Cancer Center, a new research approach in mathematical biology was introduced in the Division of Integrated Research in 2022. This approach aims to elucidate carcinogenesis pathways and drug-resistant systems using mathematical models.

In 2023 and 2024, four distinguished researchers (Prof. Iwakura, Prof. Kubo, Prof. Goizuka, and Associate Prof. Kozono) retired, while new researchers (Prof. Nitta, Associate Prof. Motomura, and two additional researchers scheduled to join in 2026) joined the institute and initiated new research challenges.

Through these efforts, we published a total of 51 high-quality research papers in 2024, including 11 international collaborative studies (22% of published papers). The RIBS plays a central role as a life-science research core for high-quality research both within and beyond the Tokyo University of Science. We must continue to evolve and develop as a hub for biomedical research at our university and beyond.

Atsushi Ochiai, M.D., Ph.D.





## Members (2024-2025)

### Director

OCHIAI, Atsushi, M.D., Ph.D.

### Faculty members

#### Professors

GOITSUKA, Ryo, Ph.D., D.V.M.  
HAYASE, Masanori, Ph.D.  
IKAWA, Tomokatsu, Ph.D.  
KITAMURA, Daisuke, M.D., D.M.S.  
MATSUSHIMA, Kouji, M.D., Ph.D.  
NAKAMURA, Takeshi, D.Sc.  
NITTA, Takeshi, Ph.D.  
SOGA, Kohei, Ph.D.  
TAKEMURA, Hiroshi, Ph.D.  
YASUMORI, Atsuo, Ph.D.  
YOSHIMURA, Akihiko, Ph.D.

#### Associate Professors

HAENO, Hiroshi, Ph.D.  
KON, Shunsuke, Ph.D.  
MOTOMURA, Yasutaka, Ph.D.  
SAKURAI, Masayuki, Ph.D.  
TERASHIMA, Yuya, Ph.D.  
UEHA, Satoshi, Ph.D.

#### Junior Associate Professors

OGAWA, Shuhei, Ph.D.  
SHICHINO, Shigeyuki, Ph.D.

#### Assistant Professors

BALACHANDRAN, Chandrasekar, Ph.D.  
HIRAKAWA, Mayumi, Ph.D.  
IIZUKA, Mana, Ph.D.  
KOINUMA, Shingo, Ph.D.  
MISE, Setsuko, Ph.D.  
MURO, Ryunosuke, Ph.D.  
SAEKI, Koichi, Ph.D.  
SAKAE, Yuta, Ph.D.  
SHIGEHIRO, Tsukasa, Ph.D.  
TENNO, Mari, Ph.D.  
YANG, Yuxi, Ph.D.

#### Postdoctoral Fellows

OFEJIRO BLESSING, Pereye, Ph.D.  
OHYAGI, Masaki, Ph.D.

#### Project Fellow

OGIWARA, Haru, Ph.D.

### Visiting Professor

MIZUTA, Ryushin, M.D., Ph.D.

### Visiting Associate Professor

NAKANO, Naoko, Ph.D.

### Administrative Office

HARA, Yasushi  
HIRAYAMA, Michiko  
IDEGUCHI, Saeko  
MASHIMO, Yukio  
MORI, Tomoharu  
SHINANO, Chikako  
SUZUKI, Kenjiro