





The Institute of Medical Science, The University of Tokyo

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Serving Global Welfare with Knowledge

The Institute of Medical Science, The University of Tokyo (IMSUT) was established by Dr. Shibasaburo Kitasato in 1892 as the Institute of Infectious Diseases (IID). In 1967 it was then reorganized and underwent a name change from IID to IMSUT. With a 128-year history beginning in Meiji, spanning the Taisho, Showa, Heisei and Reiwa eras, at IMSUT, we explore the universal truth of biological phenomena and the principles of diseases. Through this exploration, we aim to contribute to all of human society by offering development of innovative disease prevention and treatment strategies and their social implementation. To that end, we emphasize the free and interdisciplinary research environment in which various disciplines such as computer science, the natural sciences, engineering, agriculture, pharmacy, medicine, ethics, public policy studies, etc. can mutually inspire and build off each other with "medical science" as a keyword. Individual researchers and healthcare professionals promote creative research, technology development and advanced medical treatment driven by their intellectual curiosity. Specifically, aiming at controlling infectious diseases, cancer, and other intractable diseases such as immune disorders or neuromuscular diseases, we will develop project-type research on genomic medicine, regenerative medicine, and disease model animals. Also we are promoting advanced medical approaches such as gene/virus therapy, cell therapy, pioneering vaccine development and AI medical care. In order to achieve the above tasks, IMSUT has three core research departments promoting basic and translational research based on the free pursuit of ideas: Department of Basic Medical Science, Department of Cancer Biology, and Department of Microbiology and Immunology. To address the most important issues necessary for social implementation of diverse research results, we have established seven research centers and five research facilities. Examples include the Human Genome Center, which houses a supercomputer (SHIROKANE) with the highest computing performance in Japan specializing in the life sciences, and the Advanced Clinical Research Center. Moreover, IMSUT hospital, which is the only national university institute-affiliated hospital in Japan, is conducting clinical trials and advanced medical treatments based on world-leading research results. On top of that, in 2018, among the national university-affiliated research institutes of Japan serving the life science field, IMSUT was officially authorized by the Minister of Education, Culture, Sports, Science and Technology, Japan, as the only International Joint Usage/Research Center. The mission of IMSUT as the center is to accelerate basic and clinical research in a global framework. Currently, in addition to the main unit Shirokanedai Campus, we dispatch faculty members to the Research Center for Asian Infectious Diseases (Beijing) and Amami Laboratory of Injurious Animals (Amami Oshima), etc. A total of more than 1,000 academic, administrative, technical, and hospital staff and researchers, etc., play active roles, including over 200 students belonging to 8 graduate schools of our university.



Dean Yuji Yamanashi, Ph.D.



THE INSTITUTE OF MEDICAL SCIENCE THE UNIVERSITY OF TOKYO

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	Dean's Office	
	Administration Office	
1-20	General Manager Shoic Administrative Affairs D Research Support Div Hospital Divisior	Division Manager Ryuta Takemoto vision Manager Takaaki Fukuoka
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IMSUT historia

Institute for Infectious Diseases

1892

Foundation of the Institute for Foundation of the institute to: Infectious Diseases (IID), as a private institute by Dr. Shibasaburo Kitasato

1894

Relocation to Atagocho, Shiba-ku and opening of the affiliated hospital



1914 Reorganization

under the Ministry of Education

1905 Relocation of the institute to Shirokanedai, Minato-ku

1899

Reorganization as a national institute under the control of the Ministry of Internal Affairs

1897

Discovery of *Shigell* by Dr. Kiyoshi Shiga





Completion of the First

1947

Transfer of about half of IID personnel to the newly founded "National Institute of Health", under control of the Ministry of Public Health and Welfare

Name changed from Tokyo Imperial University to the University of Tokyo

lucidation of Mosqui to-borne Japanese Encephalitis by Dr.Tokushiro Mitamura Discovery of the Pathogen of Lympho-

granuloma Urethritis (Chlamydia) by Dr. Yoneji Miyagawa

1930

Determination of the Etiology of Tsutsugamushi Disease (Rickettsia) by Dr. Mataro Nagayo





Institute for Infectious Diseases in Meiji Period









Isolation of Multidrug-resist tant *Shigella* by Dr. Osamu Kitamoto

1965

Center

Establishment of

Animal Research

1966

Establishment of the Amami

Injurious Ánimals

Laboratory of

the Laboratory

1954

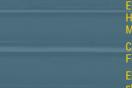
1952

1953

iscovery of the lood Group lycolipids by r. Tamio amakawa

Discovery of Interferon by Dr. Yasuichi Nagano

Discovery of Trichomycin by Dr. Seigo Hosoya



Elucidation of Hereditary Hemolytic Anemia by Dr. Shiro Miwa Contribution to the Eradication of Filariasis by Dr. Manabu Sassa

Landmark Achievements

Elucidation of Synaptic Ultra-structure by Dr. Kiyoshi Hama Elucidation of the Function of GTP-binding Proteins by Dr. Yoshito Kajiro

Institute of Medical Science

1980

Building

Genetics

1967 Completion of the Third

Completion of the Second Building



Establishment of the

Laboratory of Molecular

the Human Genome Center

1998

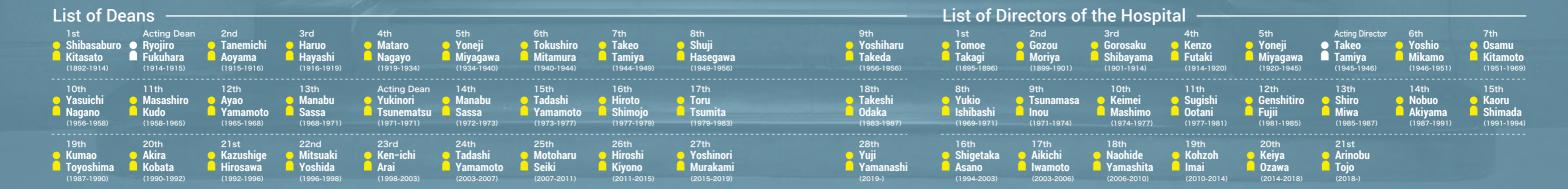
Establishment of the Center for Experimental Medicine (now "Center for **Experimental Medicine**

1995 Completion of the Fourth Building

FIGHT A BURNER AND

Discovery of the Src-family Oncogenes by Dr. Kumao Toyoshima Start of Bone Marrow and Umbilical Cord Blood Transplantation Medicine by Dr. Shigetaka Asano Start of HIV/AIDS Treatment in Japan by Dr. Kaoru Shimada

Determination of the Structure and Function of N-linked Oligosaccharides by Dr. Akira Kobata Elucidation of the Genetic Information of HTLV Virus by Dr. Mitsuaki Yoshida Elucidation of Protease-dependent Virus Pathogenicity by Dr. Yoshiyuki Nagai Determination of the DNA Sequence of Human Chromosome 21 by Dr. Yoshiyuki Sakaki



Reorganization of the University of Tokyo as a national university corporation



2000

Establishment of

the Advanced

2001

Medical Science

Center











Reorganization of 23 departments into 3 big departments; Microbiology and Immunology, Cancer Biology and Basic Medical Sciences

Clinical Research Opening of the

2005

Establishment of the International Research Center for Infectious Diseases

2006

Establishment of the Research Center for Asian Infectious Diseases with collaborating sites in Beijing and Harbin

Establishment of the Medical Proteomics Laboratory

2008

Establishment of the Center for Stem Cell Biology and Regenerative Medicine

2009

Official recognition as a Joint Usage/Research Center

2018

Official recognition as an International Joint Usage/ **Research Center**

2003

Completion of new research facilities, the General Research Building and Hospital Building



125th Founding Anniversary and 50th Reorganization Anniversary of the Institute

0000 2020

Integration of the Health Intelligence Center into the Human Genome Center

2015

Establishment of the Health Intelligence Center

Product Parts

2014

Establishment of the Center for Gene & Cell Therapy

2011

Establishment of the International Research and Development Center for Mucosal Vaccines

Department of Microbiology and Immunology

The growing concern in emerging and re-emerging infections increases demand for understanding and controlling these infectious diseases. Our department focuses on: the

of microbial products by the immune system; and molecular mechanisms controlling host

defense systems. The department is composed of 5 divisions. Our department particularly

studies the pathogens such as Influenza virus, Ebola virus, Herpes Simplex Virus, and

malaria. We are closely working together to understand molecular mechanisms underlying

host-pathogen interactions and develop novel vaccines or small chemicals to control

infectious diseases and related immune disorders. Our research activities go beyond our

institute and have been successfully running joint research projects in the area of infection

and immunity with other research groups in Europe, USA, and Asia, as well as in Japan.

The department is also promoting collaborative projects with the Research Hospital in our

institute and pharmaceutical companies for the development of drugs and vaccines.

independent investigators in the fields of microbiology and immunology.

Division of Virology

Professor	Yoshihiro Kawaoka, D.V.M., Ph.D
Visiting Professor	Takeshi Noda, D.V.M., Ph.D
Visiting Professor	Tokiko Watanabe, D.V.M., Ph.D
Associate Professor	Masaki Imai, D.V.M., Ph.D
Project Associate Professor	Seiya Yamayoshi, D.V.M., Ph.D

Division of Infectious Genetics Professor

Kensuke Miyake, M.D., Ph.D. Associate Professor Shin-Ichiroh Saitoh, Ph.D.

Division of Molecular Virology

Professor Yasushi Kawaguchi, D.V.M., Ph.D. Visiting Associate Professor Jun Arii, Ph.D.

Project Senior Assistant Professor Hideo Neaishi. Ph.D. Division of Malaria Immunology

Division of Vaccine Science

Associate Professor

Professor

Chair : Kensuke Miyake

Ken Ishii, M.D., Ph.D.

Kouii Kobiyama, Ph.D.

Cevayir Coban, M.D.

elucidation of molecular interactions between pathogens and hosts; molecular recognition Another important mission of our department is to promote development of young

This figure shows 5 divisions in the Department of Microbiology unology. Three divisions mainly focus on pathogen such as Influenza virus, Ebola virus, Herpes Simplex Virus, and malaria, whereas two divisions focus on host imm against pathogens. These divisions work together to understand the molecular bases underlying host-pathogen interaction and to develop novel vaccines or novel therapy for infectious diseases or related immune disorders.

Chair : Yoshinori Murakami

Department of Cancer Biology

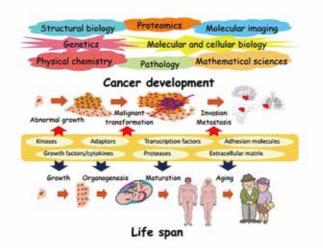
Division of Molecular Pathol	ogy	Div
Professor	Yoshinori Murakami, M.D., Ph.D.	Pro
Project Professor	Takayuki Morisaki, M.D., Ph.D.	Div
Visiting Professor	Naohiko Koshikawa, Ph.D.	Pro
Visiting Associate Professor	Daisuke Matsubara, M.D., Ph.D.	FIC

vision of Genetics

Yuii Yamanashi, Ph D rofessor vision of Cancer Cell Biology rofessor Makoto Nakanishi, M.D., Ph.D. Atsuya Nishiyama, Ph.D. Associate Professor

Development and progression of cancer is a multi-step process that involves alteration of structure and function of various genes, including those involved in regulation of cell growth, differentiation, and cell-cell and cell-extracellular matrix interaction. In the Department of Cancer Biology, we aim to clarify the entire picture of tumor development and progression based on these gene products. To do so, we apply various multidisciplinary approaches in addition to molecular and cellular biological techniques and mouse genetics, such as proteomics, molecular imaging, structural biology, physical chemistry, and mathematical sciences. Our goal is to understand the molecular bases of cell growth and

differentiation, malignant transformation, tumor invasion, metastasis, angiogenesis, and drug resistance, with regard to pathogenic mechanisms in human cancer. The findings of our research will provide innovative targets for translational research. Ongoing research investigations are as follows. Division of Molecular Pathology: 1) Molecular analysis of cancer progression by aberrant cell adhesion and its application to diagnosis and treatment of cancer. 2) Genomic, epigenomic, and molecular pathological analyses of lung, breast, bile-duct, and other solid tumors and adult T-cell leukemia. Division of Genetics: 1) Studies on molecular signals that regulate a variety of cellular activities, aiming to address how deregulated cellular signals cause neoplastic, neuromuscular or other intractable disorders. 2) Pathophysiological analyses of animal models for the above-mentioned diseases, aiming to develop new therapeutic approaches. Division of Cancer Cell Biology: 1) Elucidation of in vivo anticancer mechanisms and development of innovative cancer therapies. 2) Studies on regulatory mechanisms of in vivo aging. 3) Molecular basis underlying DNA methylation abnormalities in early stages of carcinogenesis.



Department of Basic Medical Sciences

Division of Neuronal Network

Professor Toshiya Manabe, M.D., Ph.D. Division of Cell Signaling and Molecular Medicine Professor Mutsuhiro Takekawa, M.D., Ph.D.

The Department of Basic Medical Sciences is established to explore new fields in basic life science with the common aim of understanding the life processes at ever deeper levels. In other words, the goal of this department is to develop fundamental bases for clinically-oriented translational research without regards to specific diseases or research fields. This department is currently composed of the following two groups: the Division of Neuronal Network and the Division of Cell Signaling and Molecular Medicine. A brief summary of each division is described below. I) Division of Neuronal Network is interested in the molecular mechanisms of higher brain functions in mammals such as emotion and learning/memory and in etiology of psychiatrical and neurological disorders. This Division focuses especially on the roles of functional molecules localized in synapses, for instance, neurotransmitter receptors, signal transduction molecules and adhesion molecules, in neuronal information processing, using electrophysiological, biochemical, molecular biological and behavioral approaches. 2) Division of Cell Signaling and Molecular Medicine aims to elucidate the regulatory mechanisms of intracellular signal transduction systems that are responsible for cell fate decisions, such as MAP kinase cascades and stress granules. This Division also aims to develop new diagnostic or therapeutic tools for currently intractable disorders in which these pathways are involved (e.g., cancer, auto-immune diseases, and neurodegenerative diseases).





Fig.1 A hippocampal slice prepared from the mouse brain

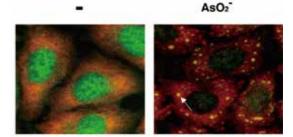


Fig.2 Arsenite induces formation of cytoplasmic stress granules

Human Genome Center

Laboratory of Ge	nome Databa	se	Laboratory of Sequence	e Analysis
Professor		Kenta Nakai, Ph.D.	Professor	Seiya Imoto, Ph.I
Laboratory of Mo	olecular Medi	cine	Laboratory of Function	al Analysis in Silico
Professor	Tatsu	hiro Shibata, M.D., Ph.D.	Professor	Kenta Nakai, Ph.[
Senior Assistant F	Professor	Atsushi Niida, Ph.D.	Associate Professor	Sung-Joon Park, Ph.[
Laboratory of Ge	nome Techno	logy	Department of Public F	Policy
Professor	Tatsu	hiro Shibata, M.D., Ph.D.	Professor	Kaori Muto, Ph.I
Professor	Yoshino	ri Murakami, M.D., Ph.D.	Associate Professor	Yusuke Inoue, Ph.I

.D. D. D D.

Division of Medical Data Informatics Professor Division of Health Medical Intelligence Professor Project Associate Professor Division of Metagenome Medicine Project Professor D.

The implementation of genomic medicine has started. By promoting personalized genomic medicine based on genomic and medical information, Human Genome Center is to contribute to our society through development of diagnostic methods, novel treatment, and prevention for diseases. With the technology of artificial intelligence and the supercomputer system SHIROKANE specialized for biomedical research and data science, our center is pursuing the following items.

I) Biomedical research for new dimension genomic medicine

With the advanced technologies symbolized as ultra-speed sequencer, etc., we conduct cutting-edge researches to analyze the relationships among differences of individual genome, epigenome, transcriptome, proteome, metabolome and microbiome, diseases such as cancer and lifestyle-related ones, personal drug effects, and environmental factors. We will translate the results of those researches for the establishment of new dimension genomic medicine including diagnosis, prevention and treatment. Especially, we develop and implement cancer clinical sequence based on whole genome sequencing.

2) Medical informatics and AI for personalized genomic medicine

We develop medical informatics that organizes health-medical knowledge/information, analyzes and translates personal genomic information and their health-medical data for personalized genomic medicine. By taking advantage of the artificial intelligence and the supercomputer, we develop big data analysis technologies by integrating large-scale human genome-related databases, drug adverse reaction database, etc., and establish large-scale computational software that accelerates personalized genomic medicine.

3) Public policy science for ethical, legal and social issues (ELSI)

We study various issues that arise at the point of contact with society in advancing life science and medical research. In order to promote personalized genomic medicine and advanced medical care, public understanding and social consensus building on the use of personal genomes are essential. Therefore, by empirical methods or comparative policy studies, we conduct various researches such as prevention of the misuse and abuse of personal genetic information, disease notification, sharing decision-making process between medical care providers and patients, access right to their clinical/genomic information, and affordable health care service. We propose policy statements based on these studies.

Center for Experimental Medicine and Systems Biology

Division of Stem Cell Pathology Professor Yasuhiro Yamada, M.D., Ph.D. Laboratory of Innate Immunity Kensuke Miyake, M.D., Ph.D. Professor

Laboratory of Reproductive Systems Biology Proiect Professor Masahito Ikawa, Ph.D. Associate Professor Manabu Ozawa, Ph.D. Laboratory of Genetically Engineered Mouse Research Invited Professor Kimi Araki, Ph D

Division of Genome Engine

Director : Yasuhiro Yamada

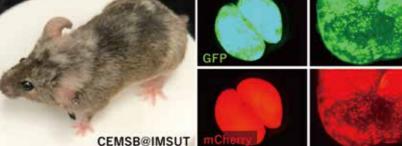
Liver

Professor Tomoii Mashimo. Ph.D. Kazuto Yoshimi, Ph D Senior Assistant Professor

The Center for Experimental Medicine and Systems Biology was established in 2007, renewed from The Center for Experimental Medicine organized in 1998. The center consists of five laboratories, Division of Stem Cell Pathology, Division of Genome Engineering, Laboratory of Innate Immunity, Laboratory of Reproductive Systems Biology, and Laboratory of Genetically Engineered Mouse Research. Although an accurate and complete genome sequence of various organisms have been made available, the function of genes, the epigenetic mechanisms that control gene expressions, the role of genomic elements, including non-coding elements, are not fully understood, especially at an organismal level. The purposes of the center are to establish in vivo experimental platforms for various research fields and develop animal models for investigating human diseases. Genetically-engineered mice have offered the opportunities of not only analyzing the complex gene function in vivo, but also providing various human disease models, where new therapeutic approaches can be explored. Moreover, application of CRISPR/Cas system enables efficient and rapid genome editing in rodents. We take advantage of the embryo engineering technologies as well as genome editing technologies to devise the in vivo experimental systems that link the basic science and medicine. Our center has a mission to provide scientists at IMSUT and other academic institutes with genetically-engineered animal models for studying various aspects of biology as well as human diseases. Our center is also developing

Inducible transgenic mouse

novel technologies for establishing advanced animal models for biomedical research. We hope that our effort promotes the interdisciplinary research that connects a wide range of research fields, including stem cell biology, immunology, and cancer biology, which eventually contributes to the establishment of novel therapies for human diseases.



Kidney

A chimeric mouse with an inducible transgenic system

Advanced Clinical Research Center

Division of Molecular Therapy

Professor Arinobu Tojo, M.D., D.M.Sc. Associate Professor Satoshi Takahashi, M.D., D.M.Sc. Visiting Associate Professor Hiroaki Taniguchi, M.D., D.M.Sc.

Division of Cellular Therapy Professor Toshio Kitamura, M.D., D.M.Sc.

Division of Infectious Diseases Professor

Hiroshi Yotsuyanagi, M.D., D.M.Sc. Associate Professor Takeya Tsutsumi, M.D., D.M.Sc.

Advanced Clinical Research Center (ACRC) collaborates with basic research groups in IMSUT to translate the research outcomes into medical practice at IMSUT Hospital. ACRC also performs clinical sciences targeting malignancies (including leukemia), infectious and immunological diseases. ACRC aims to translate its own research outcomes into early-phase clinical trials and to undertake the feed-back experiments from its own clinical experiences. For this purpose, ACRC is developing novel therapeutics utilizing various resources including tissue stem cells, molecular targeted agents, recombinant viruses and medical informatics. Each division of ACRC performs peculiar medical research based on the concept of bench to bed, and proposes the ideas elucidating clinical problems from bed to bench. Therefore, each division has a close contact with basic scientists inside and outside IMSUT.

Professor

Professor

Associate Professor

Senior Assistant Professor

Project Associate Professor

Currently, ACRC consists of 8 divisions: namely, Division of Molecular Therapy and Division of Cellular Therapy in which hematological oncologists are working, Division of Infectious Diseases in which professionals for HIV/AIDS, viral hepatitis and other infectious disorders are working, Division of Clinical Genome Research in which surgical oncologists are working, Division of Innovative Cancer Therapy in which professionals for brain tumor surgery are developing oncolytic virotherapy, Division of Advanced Medicine Promotion which contributes to regulatory sciences in medicine, Division of Advanced Genome Medicine involved in training biomedical graduate students, and Division of Bioethics which handles ethical issues in life science. All are the group of physician scientists.

Center for Stem Cell Biology and Regenerative Medicine

Division of Regenerative Medicine Professor

Associate Professor

Hideki Taniguchi, M.D., Ph.D. Project Associate Professor Tomoyuki Yamaguchi, Ph.D. Division of Stem Cell and Molecular Medicine Professor Atsushi Iwama, M.D., Ph.D. Division of Stem Cell Transplantation Arinob u Toio, M.D., Ph.D. Professor

Satoshi Takahashi, M.D., Ph.D.

Division of Stem Cell Signaling Professor Division of Stem Cell Processing Professor Division of Experimental Pathology Professor

Stem cell research has been a focus of attention as medicine of the 21st century replacing artificial organs and organ transplantation therapy, and also has a strong impact on the research field of cancer and other diseases. Center for Stem Cell and Regenerative Medicine was launched as a core research center for stem cell-based medicine. The center has 7 divisions, Division of Regenerative Medicine, Division of Stem Cell and Molecular Medicine, Division of Stem Cell Transplantation, Division of Stem Cell Signaling, Division of Stem Cell Processing, Division of Stem Cell Pathology and Division of Stem Cell Biology. The Center aims to translate research outcomes of stem cell biology into pre-clinical and clinical studies, and also to innovation of therapeutic approaches to cancer stem cells and various diseases. It also serves to clarify various clinical problems using cutting-edge research tools such as patient-derived iPS cells. To support our research, we have FACS Core Laboratory and Stem Cell Bank and a service to generate patient-derived iPS cells.



Director : Yuii Yamanash

Tetsuo Shibuya, Ph.D.

Seiva Imoto, Ph.D.

Yaozhong Zhang, Ph.D.

Satoshi Uematsu, M.D., Ph.D.





Archive Disk (~100PB) Human Genome Center Supercomputer System SHIROKANE

Director : Toshio Kitamura

Division of Clinical Genome Research

Yoichi Furukawa, M.D., Ph.D. Tsuneo Ikenoue, M.D., Ph.D. Kiyoshi Yamaguchi, Ph.D.

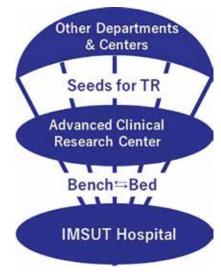
Division of Innovative Cancer Therapy

Tomoki Todo, M.D., Ph.D Minoru Tanaka, M.D., Ph.D.

- Division of Advanced Medicine Promotion Fumitaka Nagamura, M.D., D.M.Sc. Professor Associate Professor
- Division of Advanced Genome Medicine Associate Professor
- Senior Assistant Professor Division of Bioethics
- Associate Professor
- Masanori Nojima, M.D., Ph.D., M.P.H. Yoshihiro Hirata M.D. Ph.D.

Yasuo Matsubara, M.D., Ph.D.

Ayako Kamisato, Ph.D.



Position of ACRC in IMSUT

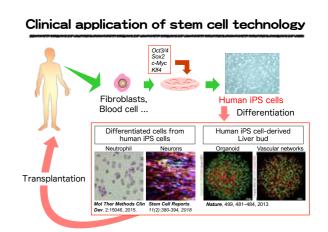
- Toshio Kitamura, M.D., D.M.Sc.
- Hideki Taniguchi, M.D., Ph.D.
- Yasuhiro Yamada, M.D., Ph.D.
- Division of Stem Cell Biolog
- Project Associate Professor EACS Core Laboratory
- Professor Stem Cell Bank
- Professor

Director : Hideki Taniguchi

Satoshi Yamazaki, Ph.D.

Atsushi Iwama, M.D., Ph.D.

Hideki Taniguchi, M.D., Ph.D.



International Research Center for Infectious Diseases

Department of Special Pathogen Professor Yoshihiro Kawaoka, D.V.M., Ph.D. Department of Infectious Disease Control Professor Yasushi Kawaguchi, D.V.M., Ph.D. (Division of Viral Infection) Associate Professor (Division of Systems Virology) Associate Professor Kei Sato, Ph.D.

Professor Takeshi Ichinohe, Ph.D.

Director : Yoshihiro Kawaoka

Pathogenic Microbes Repository Unit Yasushi Kawaguchi, D.V.M., Ph.D.

Division of Mucosal Symbiosis

Invited Professor

cine Design Team will create an ult

Ken Ishii. M.D., Ph.D.

Jun Kunisawa. Ph.D.

Tomonori Nochi, Ph D

Rika Nakahashi, Ph.D.

Project Associate Professor Yoshivuki Goto. Ph.D.

Outbreaks of emerging viruses such as influenza A(H1N1)pdmo9 virus and SARS-CoV-2 have made us aware that the emergence of infectious diseases overseas can be a major threat to us living in Japan. To control such diseases, we need to develop methods for diagnosis, prevention, and treatment, including isolation and identification of the pathogen. For this purpose, basic research is essential to discovering the nature of the causative pathogen. Research institutions at universities must actively conduct basic research on such emerging infectious diseases and share their findings so that infectious control experts can respond promptly to emerging or re-emerging infectious diseases. Against this background, the International Research Center for Infectious Diseases was established in 2005 at the Institute of Medical Science, the University of Tokyo, and the Institute for Microbial Diseases, Osaka University. The joint research system serves as a base for advanced medical and biological research on emerging and re-emerging infectious diseases and for training infectious disease researchers. The center consists of two research departments and the "Pathogen Microbes Repository Unit".

International Research and Development Center for Mucosal Vaccines

Division of Mucosal Barriology

Cevavir Cohan, M.D. Professor Visiting Professor Koii Hase. Ph.D. Project Associate Professor Takako Negishi-Koga, Ph.D.

Division of Innate Immune Regulation Satoshi Uematsu, M.D., Ph.D. Project Professor

Division of Clinical Vaccino Kohtaro Fujihashi, D.D.S., Ph.D. Project Professor Project Associate Professor Yosuke Kurashima. Ph.D. Division of Mucosal Vaccines Professor Visiting Professor Visiting Associate Professor Project Associate Professor

International Research and Development Center for Mucosal Vaccines (IMV) was established 2011 to conduct research and development of next-generation of vaccine focusing/targeting the mucosal immune system. IMV aims to contribute to develop novel vaccines, diagnostics and therapeutics that will enable us to control of emerging/reemerging infectious diseases including tuberculosis, malaria, AIDS, AMR and other infectious diseases as well as non-communicable diseases such as cancer, allergy, diabetes, atherosclerosis. We are conducting basic research for molecular and cellular understanding of the mucosal immune system towards more effective and safer vaccine development. In addition to long term collaborations within researchers at IMSUT and between national and international relevant researchers, IMV promotes public private partnership between academia, industries and government to facilitate further collaboration and funding.

Center for Gene & Cell Therapy

Division of Molecular and Medical Genetics Professor Takashi Okada, M.D., Ph.D. Center for Gene and Cell Therapy Professor

Professor

Professor

Professor

Arinobu Tojo, M.D., D.M.Sc. Tomoki Todo, M.D., Ph.D. Toshio Kitamura, M.D., D.M.Sc. Fumitaka Nagamura, M.D., D.M.Sc. Invited Professo Koji Tamada, M.D., Ph.D.

IMSUT hospital has been leading the field of gene therapy and hematopoietic stem cell transplantation in Japan. In order to promote this clinical development even further, IMSUT established the Center for Gene & Cell Therapy (CGCT) in 2014. CGCT particularly focuses on the development of gene therapy / cell therapy for intractable cancer and chronic diseases, e.g. oncolytic virotherapy, engineered T cell therapy, gene therapy for neuromuscular disorders and hemophilia using AAV vectors, T cell therapy for post-transplant viral infections, and cell therapy using mesenchymal stromal cells.

Director : Takashi Okada

Hideaki Tahara, M.D., Ph.D. Project Professo Visiting Professor Shin-ichi Muramatsu, M.D., Ph.D. Associate Professor Satoshi Takahashi, M.D., D.M.Sc. Associate Professor Tokiko Nagamura-Inoue M.D. Ph.D. Project Associate Professor Hiroaki Uchida, M.D., Ph.D.





Promote Science-Based Medicine
Conquer Intractable Dis

Laboratory Animal Research Center

Division of Animal Genetics Professor Tomoji Mashimo, Ph.D. Senior Assistant Professor Kazuto Yoshimi, Ph.D. Animal Cente Professor Tomoji Mashimo, Ph.D.

The Laboratory Animal Research Center (LARC) was founded in 1965 as the first modern animal facility in Japan. Mice and rats are strictly maintained in the SPF condition for many scientific experiments. We also provide several service for mouse

embryo manipulation and generating genetically modified animals with genome editing technologies. In addition to such supports, we are developing useful genome editing tools such as CRISPR-Cas3 and knock-in strategies in mice and rats. We are now focusing on generating "humanized animals" or "immunodeficient animals". These valuable animals can be used for xenotransplantation of human cells/tissues including human iPS cells.



Research Cen

Amami Laboratory of Injurious Animals

Professor Tomoji Mashimo, Ph.D.

This laboratory is the southernmost facility of the University of Tokyo, and has long history nearly 120 years in Amami Oshima. We have made great achevements in filariasis eradication from this island and also prevention of Habu bites. From 2005, the experimental environment that can handle BSL-2 and BSL-3 pathogens has been established as a primate experimental base of the International Center for Infectious Diseases, and became international joint usage and research center capable of infection experiment in non-human primates. Currently, we keep colonies of New World Monkeys adapted to the climate of Amami Oshima, and are conducting research in collaboration with various institutions in Japan and overseas.

Laboratory of Molecular Genetics

(Frontier Research Unit) Associate Professor Kazuo Tatebayashi, Ph.D. Associate Professor

The faculty members of the Frontier Research Unit advance cutting edge medical research based on their independent ideas.

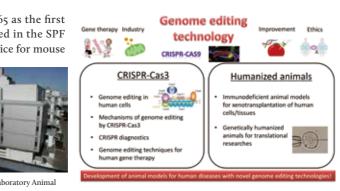


Figure, Electron micrograph of SARS-CoV-2 taken by Dr. Masaki Imai and Ms. Michiko Uije

Director : Ken Ishii

Tetsuro Matano, M.D., D.M.Sc

11 THE INSTITUTE OF MEDICAL SCIENCE. THE UNIVERSITY OF TOKYO



Director : Tomoji Mashimo



Fig.1. (a) Main gate of facility, nent room for monkeys (ABSL3)

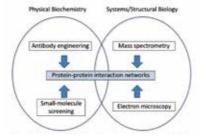
Director : Yuji Yamanashi

Misako Yoneda, D.V.M., Ph.D.

Medical Proteomics Laboratory

Professor	Kouhei Tsumoto, Ph.D.	Associate Professor	Masaaki Oyama, Ph.D.
Project Professor	Koichi Tanaka		

Proteins play important roles in regulating complex biological events and their functional disorders often lead to a variety of diseases such as cancer and infection. The mission of our laboratory is to develop advanced technologies for antibody engineering, small-molecule screening, mass spectrometry and electron microscopy to perform an integrative proteomic analysis of disease-related protein-protein interaction networks not only from a physicochemical, structural biology point of view but also from a bioinformatical, systems biology point of view. We are also widely involved in many collaborative research projects to facilitate the utilization of these medical proteomics technologies inside and outside the institute.



Director : Yuii Yamanashi

Fig I. Protein interaction network analysis in medical proteomics

Director : Yasushi Kawaguchi

Research Center for Asian Infectious Diseases

Professor	Yasushi Kawaguchi, D.V.M., Ph.D.	Project Associate Professor	Seiya Yamayoshi, D.V.M., Ph.D.
Professor	Yoshihiro Kawaoka, D.V.M., Ph.D.	Project Associate Professor	Jin Gohda, Ph.D.
Project Profe	essor Mitsue Hayashi, Ph.D.	Project Senior Assistant Professor	Mizuki Yamamoto, Ph.D.

IMSUT's Research Center for Asian Infectious Diseases is conducting collaborative research with three institutes, supported by the Japan Agency of Medical Research and Development (AMED). Collaborating institutes are: the Institute of Microbiology of Chinese Academy of Sciences (Beijing); the Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences; the National Institute of Infectious Diseases (Tokyo). Center's research focuses on basic and translational studies, targeting SARS-CoV-2, MERS-CoV, Dengue virus, HIV-1, avian and human influenza viruses, and drug-resistant bacteria. In Beijing, IMSUT scientists are working with Chinese scientists mainly on HIV-1 infection and latency

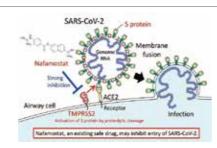


Fig. Identification of an existing Japanese pancreatitis drug, nafamostat which is expected to prevent the transmission of new coronavirus infection (COVID-19). Nafamostat prevents viral entry of SARS-CoV-2 by inhibiting a serine protease, TMPRSS2, which is critical for m ion of SARS-CoV-2

IMSUT Distinguished Professor Unit

Division of Stem Cell Therapy

IMSUT Distinguished Professor Hiromitsu Nakauchi, M.D., Ph.D.

Division of Mucosal Immunology

IMSUT Distinguished Professor Project Associate Professor Project Senior Assistant Professor

Hiroshi Kiyono, D.D.S., Ph.D. Yosuke Kurashima, Ph.D. Rika Nakahashi, Ph.D.

Division of Stem Cell Therapy

Our goal is to "Establish a New Frontier of Stem Cell Therapy by Connecting the Basic Science and Clinical Medicine." We are working to uncover new diseases, elucidating the causes of disease and developing therapeutic modalities by connecting the knowledge and methodology of basic science such as immunology, molecular biology, cell biology and developmental engineering with clinical medicine.

We are also actively collaborating with international institutes including Stanford University in the US and MRC Cambridge Stem Cell Institute in UK.

Division of Mucosal Immunology

The mucosal immune system not only senses pathogenic antigens such as microbial pathogens and allergens, but also establishes tolerance that does not react excessively to beneficial antigens such as food-derived proteins and commensal microorganisms. Our laboratory's mission is to elucidate and understand the uniqueness of the mucosal immune system which controls the immunological balancing act between the elimination and commensalism with harmful and beneficial antigens, respectively, and aim to develop the basic platform for creating the novel strategies of prevention and treatment of various infectious and immunological diseases by the fusion science with mucosal immunology, agriculture science, engineering and plant biology.

The mucosal immune system not only senses pathogenic antigens such as microbial pathogens and allergens, but also establishes tolerance that does not react excessively to beneficial antigens such as food-derived proteins and commensal microorganisms. Our laboratory's mission is to elucidate and understand the uniqueness of the mucosal immune system which controls the immunological balancing act between the elimination and commensalism with harmful and beneficial antigens, respectively, and aim to develop the basic platform for creating the novel strategies of prevention and treatment of various infectious and immunological diseases by the fusion science with mucosal immunology, agriculture science, engineering and plant biology.

Fig.I. Mouse pancreas generated in rat by interspecies Shown below is a mouse (iPS cell donor) and its pancreas.

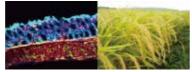


Fig.2. The uniqueness of mucosal immune system for the development of mucosal vaccine (e.g., MucoRice)

IMSUT Hospital

Department of Surgery Director Arinobu Tojo, M.D., D.M.Sc. Professor Deputy Director Project Professo Hiroshi Yotsuyanagi, M.D., D.M.Sc. Associate Professor Tomoki Todo, M.D., Ph.D. Department of Hematology/Oncology Senior Assistant Professor Arinobu Tojo, M.D., D.M.Sc. Professor Associate Professor Satoshi Takahashi, M.D., D.M.Sc. Department of Anesthesia Yoichi Imai, M.D., Ph.D. Associate Professor Associate Professor Associate Professor Tokiko Nagamura-Inoue, M.D., D.M.Sc. Department of Joint Surgery Project Associate Professor Hiroshi Yasui M.D. D.M.Sc. Department of Infectious Diseases and Applied Immunology Department of Surgical Neuro-Oncology Professor Hiroshi Yotsuyanagi, M.D., D.M.Sc. Professor Associate Professor Takeya Tsutsumi, M.D., D.M.Sc. Project Associate Professor Department of Rheumatology and Allergy Department of Urology Hirotoshi Tanaka, M.D., D.M.Sc. Professor Project Associate Professor Motohisa Yamamoto, M.D., D.M.Sc. Professor Senior Assistant Professor Noritada Yoshikawa, M.D., D.M.Sc. Project Senior Assistant Professor Department of General Medicine Department of Medical Informatics Hiroshi Yotsuyanagi, M.D., D.M.Sc. Professor Associate Professor Project Professor Takayuki Morisaki, M.D., Ph.D. Senior Assistant Professor Visiting Professor Hideaki Kagami, D.D.S., Ph.D. Department of Radiological Technology Yoshihiro Hirata, M.D., Ph.D. Associate Professor Associate Professor Associate Professor Takeya Tsutsumi, M.D., D.M.Sc. Department of Cell Processing and Transfusion Senior Assistant Professor Yasuo Matsubara, M.D., Ph.D. Clinical Professor Department of Applied Genomics Surgical Center Yoichi Furukawa, M.D., Ph.D. Professor Professor Associate Professor Tsuneo Ikenoue, M.D., Ph.D. Project Associate Professor Department of Radiology Department of Medical Supply Center Associate Professor Akira Kunimatsu, M.D., Ph.D. Professor Senior Assistant Professor Hirovuki Akai, M.D., Ph.D. Department of Palliative Medicine Project Associate Professor Arinobu Tojo, M.D., D.M.Sc. Professor Department of Laboratory Medicine Visiting Professor Mieko Chinzei, M.D., D.M.Sc. Clinical Professor Project Senior Assistant Professor Yasuki Hijikata, M.D., Ph.D. Department of Pathology Department of Diagnostic Pathology Professor Project Associate Professor Yasunori Ota, M.D., Ph.D.

Project Associate Professor Department of Clinical Genomics Professor

Since 2004, the hospital affiliated with IMSUT (IMSUT Hospital) has been the only one affiliated with a national university research institute in Japan. The 8-storied hospital building has 122 beds including a ward organized for translational research and early clinical trials such as a F-I-M study, an outpatient clinic, and operating rooms. Currently, IMSUT Hospital mainly targets diseases such as hematological malignancies, solid tumors, infectious diseases, and autoimmune disorders. IMSUT Hospital, together with Advanced Clinical Research Center, is conducting research on disease pathophysiology and promoting translational research (TR), such as gene, viral, and cell therapy of cancers, as well as novel vaccine treatment. The organization of IMSUT Hospital consists of 4 units; (I) medical care unit, (2) care support unit, (3) clinical safety and infection control unit, and (4) clinical research support unit, and clinical activity of these units are supported by departments of nursing, pharmacy and administration office, respectively.

IMSUT Hospital aims to be a core facility for clinical application of excellent outcomes by domestic and international collaborative research, especially in tight association with 3 major research departments and 6 research centers in IMSUT. Since activities and mission of IMSUT Hospital cannot be covered by its fixed operational expenses, IMSUT Hospital has been supported by a series of external funding such as grants from Japan Agency for Medical Research and Development (AMED), those from public sectors such as MEXT & MHLW as well as pharmaceutical companies. In recent years, IMSUT Hospital is still expanding its organization. In 2011 Department of Surgical Neuro-Oncology was established for promoting oncolytic virotherapy of cancers. Center for Antibody and Vaccine Therapy and Department of Palliative Medicine was open in 2012, and Center for Gene & Cell Therapy was founded in 2014. More recently, Department of Urology is open in 2020 for clinical practice of robotic surgery, resulting a total of 13 clinical departments in IMSUT Hospital.

ArinobuTojo, M.D., D.M.Sc. Hideaki Tahara, M.D., Ph.D. Masaru Shinozaki, M.D., Ph.D. Giichiro Tsurita, M.D., Ph.D. Clinical Senior Assistant Professor Kentaro Yazawa, M.D., Ph.D.

Rvo Orii, M.D., Ph.D.

- Senior Assistant Professor Hideyuki Takedani, M.D., D.M.Sc.
 - Tomoki Todo, M.D., Ph.D. Minoru Tanaka, M.D., Ph.D.
 - Haruki Kume, M.D., Ph.D. Sayuri Takahashi, M.D., Ph.D.
 - Akira Kunimatsu, M.D., Ph.D. Hiroyuki Akai, M.D., Ph.D.
 - Akira Kunimatsu, M.D., Ph.D.
 - Tokiko Nagamura-Inoue, M.D., D.M.Sc
 - Tomoki Todo, M.D., Ph.D. Minoru Tanaka, M.D., Ph.D.
 - Tomoki Todo, M.D., Ph.D. Minoru Tanaka, M.D., Ph.D.
 - Tokiko Nagamura-Inoue, M.D., D.M.Sc.
 - Arinobu Tojo, M.D., D.M.Sc Yasunori Ota, M.D., Ph.D.
 - Yoichi Furukawa, M.D., Ph.D.
- Senior Assistant Professor Yasuo Matsubara, M.D., Ph.D. Radiation Control Office Akira Kunimatsu, M.D., Ph.D. Associate Professor Regional Medical Liaison Office Hiroshi Yotsuyanagi, M.D., D.M.Sc. Professor Center for Clinical Safety and Infection Control Professor Hiroshi Yotsuvanagi, M.D., D.M.Sc. (Department of Clinical Trial Safety Management) Associate Professor Yoichi Imai, M.D., Ph.D. Associate Professor Avako Kamisato Ph D (Department of Infection Prevention and Control) Professor Hiroshi Yotsuyanagi, M.D., D.M.Sc. Center for Translational Research Fumitaka Nagamura, M.D., D.M.Sc. Professor Associate Professor Masanori Noiima, M.D., Ph.D. Project Associate Professor Hiroshi Yasui, M.D., D.M.Sc. Center for Antibody and Vaccine Therapy Professor Hirotoshi Tanaka, M.D., D.M.Sc Professor Kouhei Tsumoto. Ph.D. Project Professor Yataro Daigo, M.D., D.M.Sc Satoru Nagatoishi, Ph.D. Project Associate Professor Project Associate Professor Motohisa Yamamoto, M.D., D.M.Sc. Senior Assistant Professor Noritada Yoshikawa, M.D., D.M.Sc. Project Senior Assistant Professor Atsushi Takano, M.D., Ph.D. Therapeutic Vector Development Center Professor Tomoki Todo, M.D., Ph.D. Project Associate Professor Minoru Tanaka, M.D., Ph.D. IMSUT CORD Clinical Professor Tokiko Nagamura-Inoue, M.D., D.M.Sc. Department of Nursing Eiko Yoshii, RN,CNA Director
- Department of Pharmacy Director

Department of Clinical Nutrition

- Seiichiro Kuroda Department of AIDS Vaccine Development Invited Professor Tetsuro Matano, M.D., D.M.Sc.
- Visiting Associate Professor Ai Tachikawa, D.M.Sc.



Corporate Sponsored Research Programs/Social Cooperation Research Programs

Project Division of Molecular and Developmental Biology

Sumiko Watanabe, Ph.D. Project Professor Project Division of RNA Medical Science Project Associate Professor Masaki Takahashi, Ph.D. Project Division of International Advanced Medical Research

- Project Associate Professor Koichiro Yuji, M.D., Ph.D. Project Division of Fundamental Study on Cutting Edge of Genome Medicine
- Project Associate Professor Hiroshi Yasui, M.D., D.M.Sc.

Project Division of Advanced Biopharmaceutical Science Project Associate Professor Satoru Nagatojshi, Ph D Project Division of Cancer Biomolecular Therapy Hideaki Tahara, M.D., Ph.D. Project Professor

Project Associate Professor Hiroaki Uchida, M.D., Ph.D. Project Division of Genomic Medicine and Disease Prevention

> Yoshinori Murakami M D Ph D Takayuki Morisaki, M.D., Ph.D.

In addition to the three core departments and aliated centers, IMSUT has set up corporate sponsored research programs, of which the costs are paid by donations from supporting companies to extend educational and research activities. Social cooperation research programs have also been set up, aimed at collaborative research initiatives with private organizations through their funding of shared interest that can contribute to social benefit. The corporate sponsored research programs and social cooperation research programs are led by IMSUT project professors and contribute to evolving the educational and research activities of IMSUT, and to the expansion of the institute's diverse research.

Professor

Proiect Professo

Common Research Facilities

Kensuke Mivake

Fumitaka Nagamura

Toichi Takenaka

Makoto Nakanishi

Jun-ichiro Inoue

Makoto Nakanishi

Yuji Yamanashi

Office of Support for Platforms for Advanced Technologies and Research Resources

Culture Media Section	
Head	Yuji Yamanashi

- Library Makoto Nakanishi Head Radioisotope Cente
- Head
- IT Service Room
- Head
- Makoto Nakanishi Photographic Laborator
- Head Makoto Nakanishi
- Genetically Modified Microorganism Support Office
- Yasushi Kawaguchi Head
- Office of Research Ethics

Technical Office

Dean's Office

Dean's Advisor Office Visiting Professor

Head

Head

Head

BioBank Japan Head

Project Coordination Office

International Affairs Office

Head Kaori Muto Associate Professo Ayako Kamisato

- Office of Health and Safety Head Shin-Ichiroh Saitoh Office of Intellectual Property Head Mutsuhiro Takekawa
- Advisory Room for Conflict of Interest
- Yoichi Furukawa Head
- Pathology Core Laboratory Laboratory I Head Yoshinori Murakami
- Laboratory II Head Yasunori Ota
- Gene Manipulated Mouse Section Professor Yasuhiro Yamada
- Imaging Core Laboratory Head Mutsuhiro Takekawa
- IMSUT Clinical Flow Cytometry Laboratory
- Head Arinobu Tojo



IMSUT Clinical Flow Cytometry Laborate



Imaging Core Laboratory



Education Activities

The Institute of Medical Science, The University of Tokyo (IMSUT), IMSUT Hospital. The graduate seminar series consists of weekly is prominent as an institution for graduate education. It provides an seminars, provided by first-class researchers from around Japan, on a ideal environment for young people interested in pursuing a career theme freshly chosen each year. Those courses are deemed to be in scientific research. Drawing upon a wide range of graduate credits for the graduate school of medicine. Our Institute's affiliated schools such as medicine, science, agricultural and life sciences, hospital provides clinical courses for non-physician graduate pharmaceutical sciences, engineering, information science and students, which include in-depth consideration of ethical issues and technology, frontier sciences and interdisciplinary information translational research. studies, the faculties of the various divisions teach a wide range of IMSUT also has a rich educational environment for information courses to a similarly diverse array of elite graduate students. In science. At the Human Genome Center, there are faculty members order to pursue transdisciplinary approaches within the Graduate with deep computing expertise, and workshops are frequently held School of Frontier Sciences, the University of Tokyo has now there. Lectures offered by the Department of Computational Biology established the new Department of Computational Biology and and Medical Science, Graduate School of Frontier Sciences, are open Medical Science. Through IMSUT's strenuous efforts, this departto IMSUT students outside this research area. Further, many other ment was established in fiscal year 2015, with the Shirokanedai seminars are given by researchers from inside and outside Japan, campus housing many participating laboratories as well as some providing a window onto the latest research progress. courses that make up the department's core curriculum. Thus, Our library is available 24 hours a day including weekends and through strong links to IMSUT, cross-disciplinary education and holidays. research are expanding. The distinguishing features of our educa-IMSUT encourages students to conduct research enthusiastically, tional program are that it targets mainly graduate students aiming to and works to motivate them. We honor exceptional graduate become researchers, and that the professors and staff members can students every year with our Outstanding Student Publication concentrate on guiding students in their laboratory research. The Awards. departments and divisions frequently collaborate and interact closely with each other, making interdisciplinary research yet one more of our distinguishing features.

The programs provided by the institute include a graduate seminar series and clinical courses for non-physician graduate students at

Medical Science Museum

The Medical Science Museum preserves and introduces to the public the valuable historical materials of the Institute of Medical Science (IMS), the University of Tokyo. Founded by Dr. Shibasaburo Kitasato in 1892 as the Institute of Infectious Diseases (IID), for more than half a century following its inception the institute served as a key player in infectious disease research in Japan. The IID at the time not only acted as the largest manufacturer of bacteriological products such as vaccines and antiserums, but also became involved in all aspects of research and medical care related to infectious disease: educating doctors and public sanitation officials on matters related to infectious disease, evaluating/approving bacteriological products, and so on. With the ongoing development of antibiotics and improvements in public sanitation, the importance of infectious disease research receded, and the IID was reborn as the Institute of



Dr. Shibasaburo Kitasato Founding Dean of the Institute for Infectious Diseases September, 1910 (Meiji period) Preserved in the Medical Science Museum of the Institute of Medical Science, The University of Tokyo

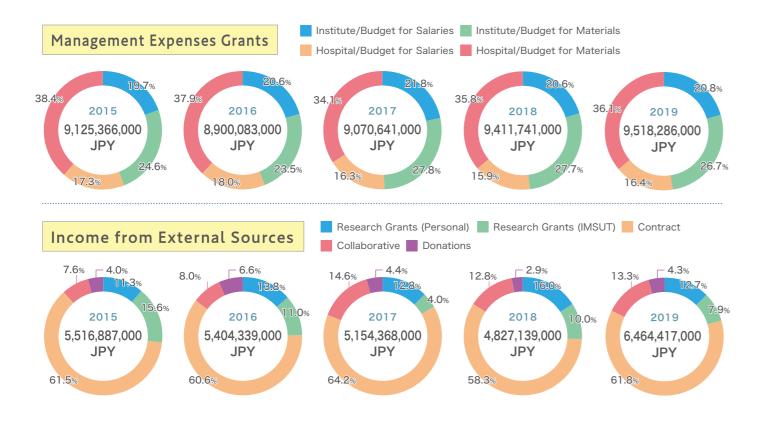


Medical Science with its focus reset to cutting-edge research into medical science in 1967. And today, with the aim of clarifying the principles of infectious diseases, cancer and other specified diseases, and establishing practical treatments based on such insights, the institute carries out research and development in the most advanced areas of medicine such as genomic medicine and gene and cell therapies.

Surrounded by greenery, the museum beckons with its contrasting facets: a brick-style wing evoking a stable from the era of the IID and a glass-paneled wing heralding the future. Please contemplate the past and future of medical science during your visit.



Budget



FY 2016-2020

FY 2016-2021

FY 2016-2021

Projects

Research and Education Projects by External Funds

Translational Research Network Program "Strategic Promotion and Expansion of a Translational Research to Establish a Global Base for Knowledge Collaboration"

Project Head in IMSUT IMSUT Hospital Director/ Professor Arinobu Tojo

Japan Program for Infectious Diseases Research and Infrastructure "Studies to Control Emerging, Re-emerging and Imported Infectious Diseases to Be Conducted in International Collaboration Sites in China"

Project Head

Professor Yasushi Kawaguchi

BioBank Japan Project for Genomic and Clinical Research "Management of BioBank Japan (BBJ) for utilization of the human materials and medical information"

Dean Yuji Yamanashi

Project Head

Members

	Institute	Hospital	Total	
Professor	26	1	27	
Associate Professor	18	5	23	
Senior Assistant Professor	3	5	8	
Assistant Professor	33	14	47	
Research Associate	1	0	1	
Official	39	11	50	
Technical Official	33	112	145	
Institute Hospital + 1 = 301 153 148				

Fixed-term Project Staff

Institute	Hospital	Total
5	0	5
11	1	12
3	3	6
12	2	14
33	1	34
38	10	48
25	7	32
2	2	4
0	19	19
0	15	15
lospital	= 1	89
	5 11 3 12 33 38 25 2 2 0 0	5 0 11 1 3 3 12 2 33 1 38 10 25 7 2 2 0 19 0 15

Graduate School Students

Graduate School	Master's	Doctoral	Total	
Graduate School of Medicine	2	59	61	
Graduate School of Science	9	7	16	
Graduate School of Pharmaceutical Sciences	0	1	1	
Graduate School of Information Science and Technology	4	3	7	
Graduate School of Frontier Sciences	62	53	115	
Graduate School of Interdisciplinary Information Studies	2	1	3	
Graduate School of Engineering	13	13	26	
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \text{Master's} \\ \hline \\ 92 \end{array} \begin{array}{c} \text{Doctoral} \\ \hline \\ 137 \end{array} \end{array} \end{array} = 229 $				

FY 2020-2024 Core Research for Creating New Dimension Genomic Medicine by Integrating Human Intelligence and AI

Research and Education Projects by Management Expenses Grants

Mucosal Vaccines

Global Promotion of Strategic

Research and Development for

Joint Research Project on Promotion of

Establishment of a Collaborative Platform

for Research and Human Resources for the

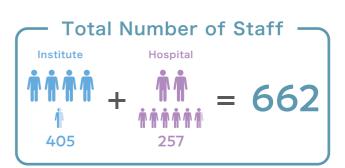
Basic and Applied Medical Sciences

Control of Infectious Diseases

(Data:2020.07.01)

Fixed-term Part-time (Project) Staff

	Institute	Hospital	Total	
Project Professor	5	1	6	
Project Associate Professor	3	1	4	
Project Senior Assistant Professor	0	0	0	
Project Assistant Professor	2	1	3	
Project Reseacher	18	1	19	
Project Academic Support Specialist	19	2	21	
Project Academic Support Staff	31	6	37	
Project Senior Specialist	0	2	2	
Project Specialist	8	0	8	
Assistant Clerk	14	8	22	
Technical Assistant	20	2	22	
Part-time Academic Affairs Staff	1	0	1	
Skilled Assistant	1	11	12	
Member of the Medical Staff	0	9	9	
Special Medical Intern	0	2	2	
Assistant Medical Technician	1	2	3	
Assistant Nurse	0	1	1	
Institute Hospital				



49

JSPS Research Fellow

123

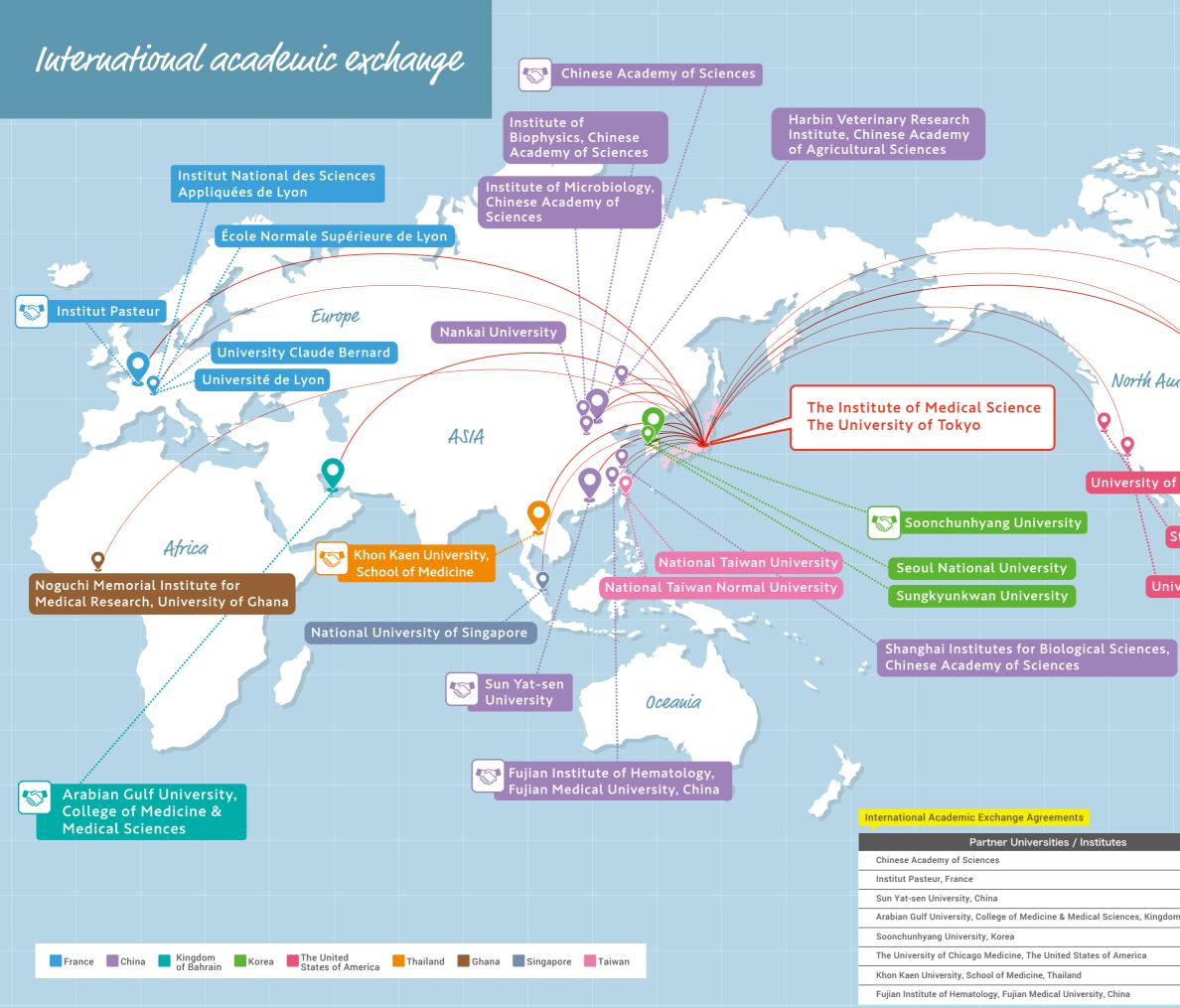
	Total
JSPS Research Fellow(SPD)	1
JSPS Research Fellow(PD)	2
JSPS Research Fellow(DC)	15
JSPS Foreign Research Fellow	0



Research Students

	Total
Graduate Research Student	16
Graduate International Research Student	2
IMSUT Research Student	5

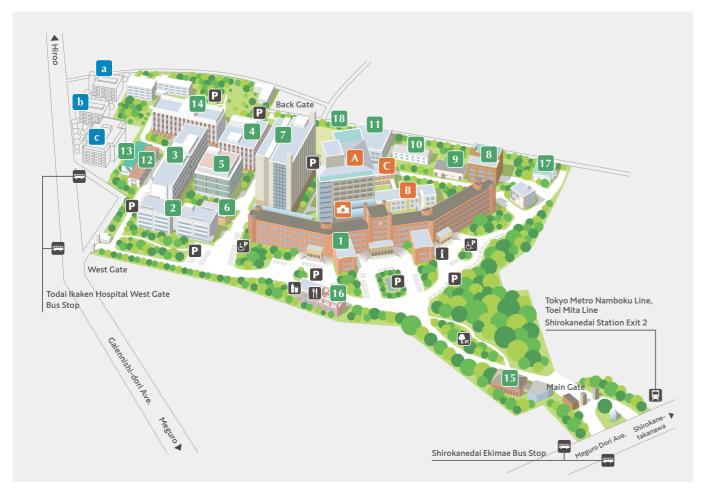




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	Departmental	2020	0.0.3	

Campus Map

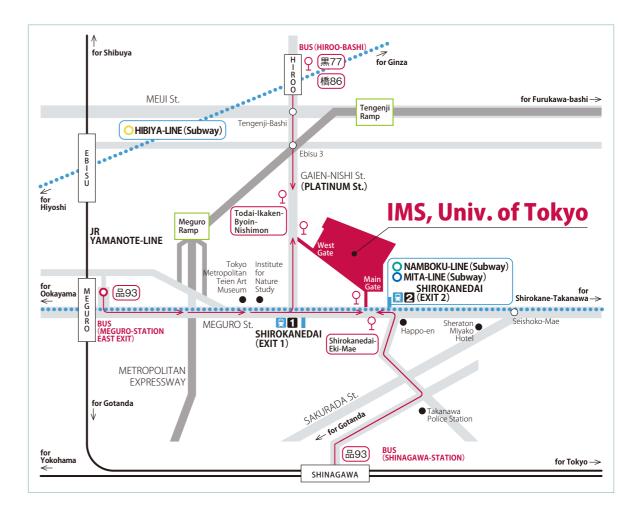
Access Map



IMSUT Hospital	University Facilities		
Hospital Reception for Outpatients	1 Bldg. 1	7 General Research Bldg.	13 Crest Hall
A Hospital Bldg. A	2 Bldg. 2	8 Clinical Research Bldg. A	14 Human Genome Center
B Hospital Bldg. B	3 Bldg. 3	9 Core Facility for Therapeutic Vectors	15 Medical Science Museum
C Hospital Bldg. C	4 Bldg. 4	10 Research Bldg. Annex	16 Shirokane Hall
	5 Animal Center	11 Open Laboratory Bldg.	17 BioBank
	6 Amgen Hall	12 Human Genome Center Annex	18 Tennis Courts

International Lodge	
a Shirokanedai Lodge A	Hospital Information Station
	Rest Area 🛛 📟 Bus Stop
b Shirokanedai Lodge B	Restaurant P Parking
c Shirokanedai Lodge C	B Barking for
	Shop Patients

Grounds/				(Unit:m
Buildings		Land Space	Buildings Floor Space Total Space	
Shirokanedai	Institute		11,548	54,126
	i Hospital		3,305	23,259
	Subtotal	68,907	14,853	77,385
Amami		8,834 805		805
T	otal	77,741	15,658 78,19	
Locations: A	ISUT mami Laboratory o jurious Animals	4-6-1 Shirokanedai, Minato-ku, Tokyo f 802 Tean-sude, Setouchi-cho, Oshima-gun, Kagoshima		

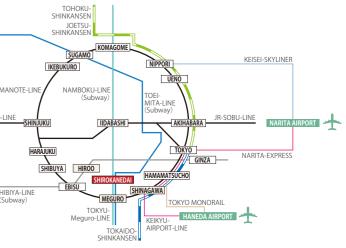


Î S	HIROKANEDAI	SHIROKANEDAI-STATION on the Metro NAMBOKU or MITA LINE (EXIT 2)	
By WAL FROM STATIO	к)	15 min. walk from JR-MEGURO-STATION EAST EXIT	
	MEGURO	From JR-MEGURO-STATION EAST EXIT (MEGRO-EKI-MAE bus stop) *take (#93) metropolitan bus bound for OHI-KEIBAJO	JR-YAM
By BUS FROM STATION)	>> get off at SHIROKANEDAI-EKI-MAE *take (黑77) metropolitan bus bound for SENDAGAYA-EKI-MAE (or take (播86) metropolitan bus bound for SHINBASHI-EKI-MAE or TOKYO TOWER) >> get off at TODAI-IKAKENBYOIN-NISHIMON	JR-CHUO-LI
	SHINAGAWA	From JR-SHINAGAWA-STATION (SHINAGAWA-EKI-MAE bus stop) *take (ఊ93) metropolitan bus bound for MEGRO-EKI-MAE >> get off at SHIROKANEDAI-EKI-MAE	HIE (Su
	HIROO	From HIROO-STATION on the Metro HIBIYA LINE (HIROO-BASHI bus stop) *take (#77) or (#86) metropolitan bus bound for MEGRO-EKI-MAE >> get off at TODAI-IKAKENBYOIN-NISHIMON	

https://www.ims.u-tokyo.ac.jp/imsut/en/access/access/

https://www.ims.u-tokyo.ac.jp/imsut/en/

4-6-1, Shirokanedai, Minato-ku, Tokyo, 108-8639, Japan TEL/(+81)-3-3443-8111



THE UNIVERSITY OF TOKYO The Institute of Medical Science The University of Tokyo