Tokyo Medical and Dental University (TMDU)
Medical Postgraduate Programs

Cultivating Professionals with Knowledge and Humanity,
thereby Contributing to People’s Well-being
www.tmd.ac.jp/english/
Message from the Dean

Masanobu KITAGAWA M.D., Ph.D.,
Vice Dean, Graduate School of Medical and Dental Sciences
Dean, Faculty of Medicine

Cultivating professionals with knowledge and humanity, thereby contributing to people’s well-being

Tokyo Medical and Dental University (TMDU) have three divisions dedicated to graduate education and research: Medical and Dental Sciences, Health Care Sciences, and Biomedical Sciences (Education and Research). TMDU is composed of four undergraduate faculties (Medicine, Dentistry, Health Care Sciences and Oral Health Care Sciences), an undergraduate College of Liberal Arts and Sciences, two research institutes (the Institute of Biomaterials and Bioengineering and the Medical Research Institute), a university hospital attached to the Faculty of Medicine, and a university hospital attached to the Faculty of Dentistry.

At TMDU we strive to produce scientists who expend every possible effort in seeking the truth, and who have the courage and ability to explore new areas, the tolerance and humility to respect diversity and accept new ideas, and the intellectual curiosity born of a broad education. These qualities are necessary for successfully engaging in clinical practice or research, and, indeed, are required for ensuring the future of mankind. With the above goals in mind, we determined “Cultivating Professionals with Knowledge and Humanity, thereby contributing to people’s well-being” to be a statement of our mission. “Knowledge” consists of learning and techniques, and “Humanity” encompasses education and sensitivity.

In the Medical areas of TMDU Graduate School of Medical and Dental Sciences, we propose the message “from the leaders of the medical fields in Japan to the world leaders of the fields” and strive for realizing that.

We were selected as the representative universities for the “Super Global Universities of Japan, Top type” by Japanese government. Our goal will be to cultivate the leaders of medical researchers, clinicians, medical-education professionals who have the global mind for searching various issues in future and for developing the significant ways of solution. We encourage foreign students to enter the Graduate School of Medicine and are looking forward to meet with many foreign students from many areas of the world. We are preparing many types of attractive programs for foreign students. We would like to welcome highly sophisticated individuals who want to participate in our programs.

Institute of Global Affairs

Mission Statement

By strengthening international aspects of the TMDU and, in particular, promoting university-wide globalization in the fields of education, research, and medical treatment, the Institute of Global Affairs aims to assist in achieving TMDU’s goal, as a world-leading integrated medical university, of “cultivating professionals with knowledge and humanity.”
Doctoral Program: Medical Sciences Track

Admissions Policy
Applicants are required to have broad perspectives, creativity, autonomy, and a sense of ethics, to be able to logically and precisely express their ideas, and to possess the English language ability to carry out their research. They should also have a high degree of scholastic or practical capabilities in a field such as medicine, life sciences and technology, or bioengineering, and should possess additional interest and strong enthusiasm for research in these majors.

Curriculum Policy
This course involves coordination among disciplines and with other sectors in pursuit of a high degree of research, educational, and medical care expertise in the fields of medicine, ensures an ability to sufficiently cope with the ethical and social aspects required in life sciences, and provides education that emphasizes balance and organic links between course work and research training.

Diploma Policy
Degrees are conferred on students who complete the courses and acquire the credits required for course completion within the prescribed enrollment period, pass their thesis review and the final examination, and fulfill the following conditions:

- Have produced excellent research results and possess the research abilities to contribute to human health and well being.
- Have strong expertise and moral values and possess the capabilities to direct trail-blazing, original research.
- Possess a combination of multifaceted, specialized expertise related to medical education and the ability to take leadership roles in the worlds of medicine.
- Possess the ability to contribute to advances in pioneering medical care through clinical research as medical care professionals with high levels of expertise.

Admissions, curriculum and diploma policies will be reexamined in AY2018.

Doctoral Program: Life Science and Technology Track

Admissions Policy
Those who choose to pursue this program must meet all the following conditions:

- Possess the English capabilities related to the scholarship required for studies after admission and the ability to communicate in English regarding life sciences and technology.
- Have the desire to systematically, intensively acquire wide ranging life sciences and technology expertise.
- Be eager to make future contributions to society as teachers or researchers with a high level of specialization in life sciences and technology disciplines.
- Possess profound learning and superior abilities to perform research in life sciences and technology disciplines.
- Have a deep interest in life sciences and bio-engineering, as well as the wide-ranging perspectives to lead the way in integrated disciplines, and possess creativity and independence.
- Work very well with colleagues and possess the ability to logically, precisely express their ideas.

Curriculum Policy
The education provided in this course emphasizes international perspectives and the potential of the fields of disease research and bio-industry, as well as the pursuit of a high level of expertise in life sciences and technology disciplines. Furthermore, it will also take into consideration the ethical and social characteristics required in the fields of medicine.

Diploma Policy
Degrees are conferred on students who complete the courses and obtain the credits required for course completion within the prescribed enrollment period; pass their thesis review and the final examination; and fulfill one of the following conditions:

1. Have produced excellent research results and possess the research abilities to contribute to advances in the innovative and interdisciplinary fields of life sciences and technology
2. Have strong expertise and moral values and possess the ability to contribute to the cultivation of the next generation of professionals in the fields of life sciences and technology.
3. Possess considerable expertise and skills related to life sciences and bio-engineering and the ability to contribute to the advancement of medical and bio-industries through cutting-edge technological innovations

Admissions, curriculum and diploma policies will be reexamined in AY2018.
**Health Sciences Leadership Program (G-HSLP)**

**Program Mission**
To create a community of future world leaders who will advance health sciences and raise the level of health all around the world through innovation in bioscience research, global health/hospitality policy and healthcare industries.

**G-HSLP Courses/ Workshops; Attainable Skills**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Workshops</th>
<th>Attainable Skills</th>
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<tbody>
<tr>
<td>Leadership</td>
<td>Critical Thinking</td>
<td>Creative Thinking</td>
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<td>Design Thinking</td>
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<td>Academic Writing</td>
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<td>Team Building</td>
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<td>Industry Knowledge and Career Path</td>
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**Skills Key:**
- Main skill covered in course
- Subskill

**Description of Skills:**
- Analyzing and problem solving
- Effective delegation and problem solving
- Argument construction and persuasive speech
- Delicate and negotiation
- Conference presentations, abstract writing, Q&A sessions
- Publishing, argument organization, grant writing, peer review activities
- Collaborative communication and problem solving
- Professionalism, health policy and governance, leadership, ethics, entrepreneurship, job applications

**Career Path:**
- Research scientist
- Science and Technology Policy Officer
- Development and Technology Officer
- Science and Technology Consultant
- Science and Technology Advisor
- Science and Technology Manager
- Science and Technology Director
- Science and Technology President
- Science and Technology CEO
- Science and Technology Board Member

**Master of Public Health in Global Health (MPH) Course**

*About Harvard/Johns Hopkins Lecture Series (HJLS)*
Tokyo Medical and Dental University (TMDU) collaborates with renowned professors from Harvard T.H. Chan School of Public Health (HSPH) and Johns Hopkins Bloomberg School of Public Health (JHSPH), the two world’s top school of public health, and offers the MPH students the world’s top class public health education in Tokyo.

The TMDU-MPH program was designed to advance your knowledge and skills in the core public health disciplines while preparing you to generate/translate/disseminate public-health-related knowledge in real-world contexts.

**Program components:**
- **First year:** In-class course work at our Tokyo campus
  - Internship at an international organization (optional)
  - Completion of a master’s thesis (required)
- **Second year:** Practicum year (original public health research about the country of your choice)
- **Field Training**
- **Active Learning**
- **All in English**

**Education plan**

**Memories are timeless treasures of the heart**

AT THE BEGINNING of spring 2006, a direct JAL flight from Bangkok, Thailand brought me to the whole new world of Japan. This was my first journey abroad. Sakura cherry blooming around the town welcomed me warmly even though the weather was so cold. Even now, every time I see the cherry blossom, it always recalls me to my first day in Japan, where my life was changed forever.

I came to TMDU on a Japanese Government (Monbukagakusho: MEXT) scholarship. I elected to study here because my professor, who graduated from a Japanese university himself, advised me that TMDU was the top-rank medical school in Japan. I would be able to conduct cancer research as I wished. Professor Yasuhito Yuasa kindly accepted as a graduate student in the Department of Molecular Oncology at the Graduate School of Medical and Dental Sciences.

Everyone in the laboratory was so nice and friendly. They always helped me, not only with educational issues, but also in my everyday life. Although I could not understand the Japanese documents many times, they never refused to lend a hand.

One time, I felt severely homesick and depressed. At that time, going back to see my family in Thailand was the only thing on my brain, but something good happened. Everyone in my laboratory tried to cheer me up in several ways. I suddenly realized that my family, which I had thought was only in Thailand, was actually in Japan as well. If you are reading this story, please accept my appreciation and thanks.

For scientific experience, my own research involved carcinogenesis and diagnosis of gastric cancer, which gave me a strong background in biomedical research. I improved my communication skills by writing a scientific article in the International Journal and having opportunities to present my works in many international conferences. I also had an extracurricular experience as a Research Assistant (RA) and Teaching Assistant (TA) in my department. My responsibilities were to perform experiments related to research projects, including planning, testing and data analysis, and preparing teaching materials for laboratory classes. There is no doubt in my mind that my entire experience at TMDU prepared me rather well to be a good scientist in the future.

Time has gone so fast. The six years spent completing Master’s and Doctor’s degrees in Japan matured me; now I am ready to follow my next dream. After coming back to Thailand, I am working as a lecturer in the Division of Biochemistry of the Department of Preclinical Science in the Faculty of Medicine at Thammasat University. I love teaching and feel very happy every time I participate in class with my students. I always keep in mind how well I used to be taught by my teachers. Therefore, my promise to my students is the same.

I will train them the best way I can. Learning to be a professional with happiness is the goal. The serious shortage of medical practitioners in Thailand is an urgent issue, so producing qualified staff is necessary. Being a teacher has changed my attitude. Once I used to think that the feeling on my graduation day was the greatest moment, but I was wrong. I have discovered that the pride I feel for my students’ successes on their graduation day is more truly touching.

Finally, let me say that Japan is my second home. I never feel any regret to be there. If life is a work of art, living and studying in Japan is my masterpiece. Memories are timeless treasures of the heart. You will be in my heart forever, TMDU.
The TMDU Journey so far…

As a young biomedical research scientist at NMIMR, I was involved in a few research projects on infectious diseases with protozoan causes such as malaria, trypanosomiasis, leishmaniasis and toxoplasmosis. I developed a particular interest in issues concerning infectious diseases affecting Africa and the world at large. At NMIMR, which is a major collaborator with TMDU, I received mentorship and acquired skills and values while working with expert Ghanaian and Japanese researchers. Among those researchers was my current PhD supervisor, Prof. Nobuo Ohta, who has inspired and encouraged me. My desire to pursue a PhD degree at TMDU was stimulated by my admiration of the manner in which my immediate supervisors, Dr. Mitsuko Ohashi and Dr. Irene Ayi (alumnus of TMDU), conducted their research, paying attention to every detail in their quest for excellence.

It was a dream come true when I finally arrived in Japan in October 2015. I had become a student at TMDU. My feelings were a mixture of exhilaration and anxiety. My first impressions of TMDU fulfilled my high expectations, virtually confirming the positive standpoint I always had concerning TMDU. Despite the generally cold weather, the love shown me by staff and students in my department keeps me warm. My initial anxiety has been dissipated by the excitement and passion with which both students and staff in my department conduct their research. One thing I have noticed is the slight difference in studies being conducted in Ghana and in Japan, whereas most studies in Ghana focus on disease epidemiology, those in Japan tend to focus on basic research. TMDU’s commitment to cultivating professionals with knowledge and humanity is vividly seen in the contents of our weekly Global Leadership Program (GLP) lecture series. These lectures are opportunities to meet experts in different fields related to global disease prevention using a multifaceted approach. I look forward to acquiring important skills and ideas in these areas and hope to effectively combine them in combating the menace of infectious diseases in Africa and elsewhere through high-quality research.

Life outside the laboratory gets better with every passing day. The language barrier was initially one of the hurdles I had to clear, but the Japanese language kenshu course has helped me appreciate everyday Japanese culture, and also equipped me with a few Japanese phrases to enable me to get around. I have also been able to make a lot of good friends. I believe these associations will provide a strong foundation for future international research collaboration.

Finally, when I look to the future, I am confident that after four years at TMDU I will be a better person than I was when I arrived here. To everyone who is helping me make up who I am today, I say Arigatou gozaimashita!!
Medical Sciences

Maxillofacial and Neck Reconstruction

- Plastic and Reconstructive Surgery
  - OZAWA/Hitomi
    - Clinical study concerning sensory recovery and change of shape in reconstructed face
    - Development of functional and aesthetic reconstruction following cancer ablation in head and neck
    - Basic research on regeneration of the oral cavity
    - Evaluation of orthodontically treated maxillofacial and aesthetic reconstruction for facial paralysis

- Head and Neck Surgery
  - ASAGAI Takehiro
    - Analysis of skull base
    - Reconstructive surgery of UVFP and head and neck cancer
    - Standardization of neck dissection
    - Development of closure suture
    - Endoscopic diagnosis and transoral surgery for oral pharyngeal cancer

- Radiation Therapy and Oncology
  - YOSHIBA/Ritsu
    - Clinical research and development of IMRT and SRT
    - Development of radionuclide in multidisciplinary treatment for cancer

Bio-Matrix

- Cell Biology
  - NAKATA Takamasa
    - Functional control of cellular regulators
    - Cell biological approach using transgenes to understand the mechanisms of cellular signaling
  - Applications of optogenetics to regenerative medicine

- Medical Biochemistry
  - NAKATA Takamasa
    - Study on the tumor suppressor MIF and the development of new therapeutic medicines
    - Study on the tumor suppressor MIF and the development of drugs against cancer
    - Study on the stress granule in mammals

- Joint Surgery and Sports Medicine
  - KOEA Yoshiko
    - Mechanisms of cartilage damage and joint pain as seen in osteoarthritic joints
    - Mechanism and treatment of joint disorders
    - Sensitivity analysis of patients with repetitive stress
    - Analysis of mechanisms for bone- and joint-related pain and development of its treatment
    - Analysis of sports injury mechanism and development of its treatment

Public Health

- Global Health Promotion
  - FUJIMURA Takashi
    - Social epidemiology of impact of social inequality, social norms and mental health, and social support on health
    - Life-course epidemiology of impact of child poverty and adverse childhood experiences on health and international comparison study

- Environmental Parasitology
  - IWANAGA Shiro
    - Development of new antiparasitic drugs and development of new methods for early detection of parasites
    - Development of new techniques for the diagnosis of parasitic diseases

- Forensic Medicine
  - UEHORA Kichi
    - Studies on the mechanisms of self-harm and murder
    - Forensic toxicology / Alcohol medicine
    - Drug analysis

- Health Care Management and Planning
  - KASHIWARA Kazuhiro
    - Development and management of Health Information Planning, for Challenges, and Strategies for Healthcare Systems
    - Strategic analysis and policy choices concerning national healthcare services

- Research Development
  - TAKASE Kazuhiro
    - Management of technology for comprehensive clinical administration
    - Development and procurement of hospital information system
    - Electronic medical record and clinical pathway

- Health Policy and Planning
  - FUJIMURA Yoichiro
    - Health policy: implementation of healthcare system reforms and development of EHR case management and EMR system development
    - Implementation of healthcare system reforms and development of doctor's order system
    - Methods for hospital profiling and assessment of hospital function
    - Development of an electronic health data of health and hospital

- Medical Care Management
  - MAZUM
    - Development of strategies for efficient medical care system and research for improving medical care
    - Studies on management and support for healthcare chiefs for medical services fees of insurance medical institutions
    - Studies on affairs of medical insurance system and provision of medical services

- Medical Entrepreneurship
  - MAZUM
    - International development of trade and workforces for health services
    - Development of social business models for expat delivery of healthcare
    - Lessons for healthcare entrepreneurs from the Healthy City Program
    - Evaluation of health impact of climate change
    - Development of health measures for aging society

Gerontology and Gerodontology

- Laboratory Medicine
  - TOSHIYA Miyako
    - Molecular diagnostic tools for cancer and infectious diseases
    - Molecular pathogenesis of brain stem cells and their application for drug sensitivity testing
    - Search for markers to regulate ischemia reperfusion injury following drug-induced arterial disease

- Department of Interventional Care Medicine
  - TAKAHASHI Hideto
    - System analysis concerning the risk factors for patient safety in the wards of Japanese hospitals and the relationship with Rapid Response System
    - Comprehensive nursing-care including the risk factors for patient safety in wards of Japanese hospitals and the relationship with Rapid Response System
    - Development and assessment of a novel-preventing system for the staff who are involved in the patient safety

- Cancer Psychosocial and Palliative Medicine
  - MATSUSHIMA Shigeo
    - Clinical and psychological studies on anxiety and depression associated with physical illness
    - Clinical and psychological studies on anxiety and depression associated with physical illness
    - Studies in cancer psychology and related topics

- Medical Education Research and Development
  - TANAKA Yutaka
    - Planning and assessment of undergraduate medical education
    - Development and assessment of postgraduate medical education
    - Underlying medical education and for the highly specialized medical education

- Acute Critical Care and Disaster Medicine
  - OTSUKA Yasuhiro
    - Development and assessment of a novel-preventing system for the staff who are involved in the patient safety

- Clinical Oncology
  - IMAYA Satoshi
    - Palliative care for cancer patients and their family, theory and practice
    - Medical oncology for cancer care
    - Research on cancer genetics and development of new therapeutic strategy
    - Development and assessment of a novel-preventing system for the staff who are involved in the patient safety

- Professional Development in Health Sciences
  - TAKADA Kazuhiro
    - Needs assessment in health care
    - Needs assessment in professional development in health sciences
    - Needs assessment in professional development in health sciences

Cognitive and Behavioral Medicine

- Neuroanatomy and Cerebral Functional Imaging
  - TANADA Shunji
    - Research on the mechanisms of cognitive impairment in Alzheimer’s disease
    - Research on the mechanisms of cognitive impairment in Alzheimer’s disease

- Systems Neurophysiology
  - SUZUKA Tatsuru
    - Development and functional significance of the compartmentalization in the brain
    - Functional connectivity in mesiotemporal lobe, structural and cognitive connectivity in mesiotemporal lobe

- Pharmacology and Neurology
  - TAKADA Tatsuru
    - Development and functional significance of the compartmentalization in the brain
    - Functional connectivity in mesiotemporal lobe, structural and cognitive connectivity in mesiotemporal lobe

- Ophthalmology and Vision Science
  - OHNO Kyoko
    - Study on the mechanisms of retinal disease
    - Study on the mechanisms of retinal disease

- Dentistry
  - TSURUKI Takeko
    - Study on the mechanisms of retinal disease
    - Study on the mechanisms of retinal disease

- Dental Hygiene and Public Health
  - TAKASHI Taro
    - Development of new diagnostic tools in dentistry
    - Development of new diagnostic tools in dentistry

- Psychology and Neuropsychology
  - YAMADA Takahiko
    - Genetic therapy for neurodegenerative diseases with new therapeutic approaches
    - Development of technologies for the prevention of neurodegenerative diseases

- Nuclear Medicine and Radiology
  - NAKAGISHI Toru
    - Development of new diagnostic tools in dentistry
    - Development of new diagnostic tools in dentistry

- Psychiatry and Behavioral Sciences
  - NAKAGISHI Toru
    - Development of new diagnostic tools in dentistry
    - Development of new diagnostic tools in dentistry

- Forensic Mental Health
  - OZAWA Takashi
    - Forensic psychological studies on anxiety and depression associated with physical illness
    - Forensic psychological studies on anxiety and depression associated with physical illness
## Profile of Faculty

### Bio-Environmental Response

<table>
<thead>
<tr>
<th>Department</th>
<th>Chief</th>
<th>Research Theme</th>
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</table>
| Neurosurgery                | MAMATA Takahiro                            | 1. Development of novel treatment for brain tumors using neuropeptide and molecular imaging  
2. Establishment of therapeutic intervention for cerebrovascular disease, based on clinical pathophysiologic analysis.  
3. Investigation on the mechanism of secondary neurodegeneration and higher brain function by brainstem and its mechanism for its prevention.  
5. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
6. Research for less invasive surgical approach for vascular disease. |
| Endovascular Surgery        | NIMI Hideki                                 | 1. Simulation of molecular mechanisms underlying chronic allergic inflammation by using engineered mouse models  
2. Molecular mechanisms of immune system reprogramming and molecular imaging.  
3. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Molecular Pathology         | TAKAHASHI Tatsuo                            | 1. Molecular mechanisms of aging by using engineered mouse models  
2. Molecular mechanisms of immune system reprogramming and molecular imaging.  
3. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Immune Regulation           | KAMBAKI Makiko                             | 1. Identification of lymphocytes and pathological significance.  
2. Primary immune defense and development of novel gene therapy for the disorder.  
3. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Immunohematopathology       | KITAGAWA Masanobu                          | 1. Development of pediatric treatment for leukemia and lymphoma  
2. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
2. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Rheumatology                | KOHSAKA Hiroshi                            | 1. Clinical research on rheumatoid arthritis  
2. Clinical research on collagen and hematopoietic diseases in adulthood and transitional period.  
3. Clinical research on collagen and hematopoietic diseases in adulthood and transitional period.  
4. Genetic analysis and development of new therapy for skin disease.  
5. Gene analysis and development of new therapy for skin disease. |
| Dermatology                 | YASUDA Hiroshi                             | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |

## Systemic Organ Regulation

<table>
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<tr>
<th>Department</th>
<th>Chief</th>
<th>Research Theme</th>
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</table>
| Human Pathology             | NOSHIRO Yutaka                             | 1. Investigation and research for the social needs identification of minimally invasive medical treatment in the next generation of medical and dental care  
2. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
4. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
5. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients. |
| Nephrology                  | KOBAYASHI Hiroshi                          | 1. Study of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Cardiovascular Surgery      | ARAI Hiroshi                               | 1. Investigation and research for the social needs identification of minimally invasive medical treatment in the next generation of medical and dental care  
2. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
4. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
5. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients. |

## Advanced Therapeutics Sciences

<table>
<thead>
<tr>
<th>Department</th>
<th>Chief</th>
<th>Research Theme</th>
</tr>
</thead>
</table>
| Clinical Oncology           | AOKI Katsuyuki                             | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Systems Biology             | ASAKURA Hiroyuki                           | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Comprehensive Pathology     | KOTAGAWA Masanobu                          | 1. Molecular analysis of the molecular mechanisms underlying the development and progression of diseases.  
2. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
4. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
5. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients. |
| Molecular Oncology          | TANABE Shigeki                            | 1. Molecular analysis of the molecular mechanisms underlying the development and progression of diseases.  
2. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
4. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients.  
5. Development and improvement of minimally invasive medical treatment for thoracic surgery in ESRD patients. |
| Neurology                   | OKAWA Atsushi                              | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Gastroenterology            | KAMARU Masashige                           | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Biomedical Engineering      | OKAMOTO Kenji                              | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Comprehensive Gastroenterology | MIZUGUCHI Hidemasa                      | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Hematology                  | MIYAZAKI Naoyuki                           | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Biotherapy                  | TANABE Minoru                             | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Molecular Endocrinology and Metabolism | UEDA Ichiro (concurrently assigned) | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Endocrinology and Metabolism | UEDA Ichiro (concurrently assigned) | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Endocrinology and Metabolism | UEDA Ichiro (concurrently assigned) | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
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4. Research for less invasive surgical approach for vascular disease. |
| Endocrinology and Metabolism | UEDA Ichiro (concurrently assigned) | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
| Endocrinology and Metabolism | UEDA Ichiro (concurrently assigned) | 1. Analysis of the mechanisms of secondary neurodegeneration in various neurodegenerative disorders.  
4. Research for less invasive surgical approach for vascular disease. |
Profile of Faculty

Life Science and Technology

<table>
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<tr>
<th>Department</th>
<th>Chief</th>
<th>Research Focus</th>
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<tbody>
<tr>
<td>Epigenetic Epidemiology</td>
<td>未定</td>
<td>1. Molecular mechanisms underpinning EGR1 expression in cancerogenesis 2. The molecular mechanisms underpinning EGR1 expression in cancerogenesis 3. The molecular mechanisms underpinning EGR1 expression in cancerogenesis 4. The molecular mechanisms underpinning EGR1 expression in cancerogenesis 5. The molecular mechanisms underpinning EGR1 expression in cancerogenesis 6. The molecular mechanisms underpinning EGR1 expression in cancerogenesis</td>
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Enrollment information, Scholarships, and Student Support for PhD Students (Medical)

- **Tuition Fee**
  - (Annual) 535,800 yen
  - (for 6 months) 267,900 yen

- **Admission Fee** 282,000 yen
- **Examination Fee** 36,000 yen

For the Japanese Government Scholarship students, fees for the entrance examination, matriculation, and tuition will be exempted.

**Tutor System**

Incoming International Students:

You will be assigned a tutor, who is another TMDU student, for your first year in Japan. Your tutor can answer questions, explain procedures, help you fill out documents and provide support during your first year of life and study in Japan.

**Language Program**

IGA Language Program

The Language Program offers courses to help students who need assistance in improving their communication skills in Japanese and English. The aim of our program is to ensure their smooth transition to life abroad, and ultimately, to support their progress toward achieving success in academic, personal, and social areas.

**Scholarships**

- Home government scholarship
- Disease Prevention Global Leadership Program:DP-GLP
- Biomedical Science and Technology (BST) track
- Public Health Medicine (PHM) track
- Tokyo Medical and Dental University Scholarship (Supported by Sony Corporation)
- Japanese Government (MEXT) Scholarship
- University Recommendation
- Embasy Recommendation
- Monbukagakusho Honors Scholarship for Privately Financed International Students
- Private organization scholarships

**Housing**

- International House, Tokyo Medical and Dental University
- Ichikawa International House
- Minamigotoku International House
- International Student House, Tokyo Medical and Dental University (Female students only)
- Student Dormitories (Male students only)
- Tokyo International Exchange Center Odaiba (Odaiba)

Cross-cultural Event

- Spring Cherry-Blossom Viewing
- Tanabata
- Sombus