

OVERVIEW 2011

TOKYO MEDICAL AND DENTAL UNIVERSITY



*Cultivating Professionals
with Knowledge and Humanity*



Mission

Cultivating Professionals with Knowledge and Humanity

Our daily work is dedicated to a word of gratitude and a smile of contentment from our patients and their family members.

In order to win the trust of people we serve we affirm that:

- We will do our utmost to gain advanced knowledge and skills in medicine.
- We will cultivate empathy for the suffering and sorrow that accompany disease, and will always maintain a strong sense of ethics.
- We will support all those who are engaged in education, research and medical service as they continue their journey to become true professionals with knowledge and humanity.

The above is the mission of TMDU, which we declare with humility and strive to achieve.

TMDU’s Educational Philosophies

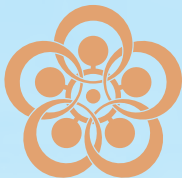
To provide students with a broad education and a rich sensibility

To educate creative people capable of diagnosing and solving problems independently

To train medical professionals with a rich international quality

Symbol of Tokyo Medical and Dental University

The symbol of Tokyo Ikashika Daigaku (Tokyo Medical and Dental University) has the following meaning:



1. This symbol was designed to show the history of the development of Tokyo Medical and Dental University. Its shape represents the plum blossom, which is also the symbol of the neighboring shrine Yushima Tenmangu. Yushima Tenmangu is also known as Yushima Tenjin; Tenjin is the Shinto god of knowledge.

2. The center circle of this symbol, the core of the flower, was the emblem of the former Tokyo Koto Shikaigakko (Tokyo National School of Dentistry) and the five petals around the core show the present university which has developed from that school.

3. The five petals express the Faculty of Medicine, Faculty of Dentistry, College of Liberal Arts and Sciences, Institute of Biomaterials and Bioengineering, and Medical Research Institute, and these five petals, which join together to make the flower bloom, represent the activity of the university.

4. The bold outline of these petals suggests further development and progress in the future.

Logo mark of Tokyo Medical and Dental University



Our university logo mark was designed based on the initial letters of Tokyo Medical and Dental University. It has following meanings :



1. By connecting the letters M and D, the logo mark implies fusion of Medicine and Dentistry.
2. Bold lines express confidence and strength which are the heritage of our university.

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Message from the President

President | Takashi OHYAMA, DDS, PhD



“Cultivating Professionals with Knowledge and Humanity”

Tokyo Medical and Dental University is unique among medical and dental universities in Japan in that we have three divisions dedicated to graduate education and research: Medical and Dental Sciences, Health Care Sciences, and Biomedical Sciences (Education and Research). In all, 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 in-

tellectual 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. Meeting the challenging standards expected of a TMDU student will lead you to a satisfying and fulfilling scientific career, one that will completely reward the hard work you will invest in your studies.

With the above goals in mind, we determined “Cultivating Professionals with Knowledge and Humanity” to be a statement of our mission. “Knowledge” consists of learning and techniques, and “Humanity” encompasses education and sensitivity. Medicine is driven by knowledge, and humanity smoothes its implementation. The proper combination of these factors thus leads the way to becoming a professional. In fact, medical care is an art woven by knowledge and humanity acting as weft and warp threads.

TMDU manifests the three following educational philosophies:

1 To provide students with a broad education and a rich sensibility

In the Discourses of Confucius we can find the statement, “A scholar is not a vessel.” In this context a “vessel” is a device with a single or specific purpose. In other words, a scholar, or sage, is not merely a specialist who has been trained for one purpose. Instead, a scholar is one who has broad knowledge, wide experience, and rich sensibility. Health care providers should not impose artificial limits on themselves.

In one of the dialogues recounted in the Discourses, one of Confucius’s disciples asked, “Is there any single word which can be a guide to conduct throughout one’s life?” To this the great thinker replied, “Thoughtfulness. Do to others as you would have them do to you.” Confucius meant that one had to be true to oneself

while, at the same time, having the intellectual sympathy to be considerate of other people. The concept of “intellectual sympathy” is very important here, as it means that the sympathy is not merely composed of kindness or pity, but is rather a refined sympathy that is based on a broad education.

The ability to provide intellectual sympathy is the mark of a true health care professional. Certainly, as health care providers, we treat our patients to the utmost of our abilities. However, if in our treatment we were simply expressing our determination to do our best to the end, our actions would only result in a feeling of contented self-satisfaction. The true sense of accomplishment as a medical professional can only be achieved when we see the joy of life re-

stored to a patient or a family member of a patient. In order to attain such a worthy accomplishment, we have to understand the pain a patient has, and have sympathy for the patient’s surrounding situation, family circumstances, occupation, viewpoints, and other factors.

To become an ideal professional, we need to obtain a broad range of knowledge and diverse ways of thinking, and we must also cultivate a rich education, deep insight into human nature, high ethical standards and a solid ability to explain what we do. A broad education rooted in liberal arts is thus necessary.

2 To educate creative people capable of diagnosing and solving problems independently

Practitioners of traditional Chinese medicine use a chest with many drawers, which is called a hundred-drawers chest or a hundred-herbs chest. Medical students must make such a chest of drawers of their own, storing knowledge and techniques as they are learned. In actual clinical and research situations these drawers can be opened in various combinations. As you continue to practice, you will learn techniques through your knowledge and obtain new knowledge through the techniques you perfect. This positive feedback loop system will continue throughout your life.

Concretely, the acquisition of a sufficient level of knowledge and a multitude of techniques will make it possible for you to correctly identify problems and solve them appropriately. To attain the requisite knowledge and techniques for becoming

a true professional, patience and effort are indispensable. Moreover, mental and physical discipline is essential.

The Master said, in the Discourses of Confucius, “If one learns from others but does not think, one will be bewildered. If, on the other hand, one thinks but does not learn from others, one will be in peril.” When you pursue academic training, try to learn as many things as possible. Endeavor to thoroughly digest what you have learned, and then make efforts to apply what you have learned to solve problems around you. If you can do all these things, you will be able to understand the spirit of the Discourses. In short, as a person who pursues science, you must build your character to the point where you will be able to identify and solve problems independently.

Regardless of how much knowledge

and information you acquire, unless you think about how it can be utilized in your life, that hard-won knowledge and information may turn out to be useless. At the other extreme, if you base your judgment only on cold reasoning, you may become self-righteous and make mistakes due to hubris or narrow mindedness. The teachings of Confucius are echoed in the critical philosophy of Kant, who said that knowledge can start with experience, but without the use of thoughtful reflection, knowledge may become blind.

Thus expect you to appreciate the utility of each subject presented to you in class, to learn to identify problems and ask questions, and to then formulate your own thought processes to discover and evaluate solutions to the problems. A university is the best place to pursue these goals and gain autonomy.

3 To train medical professionals with a rich international quality

Our aim as a university is to nurture medical professionals who can take international leadership roles in both clinical and research fields. To this end we are funding 10 special scholarships to allow our most outstanding students to pursue study and research abroad, a program that complements our present overseas initiatives.

In the Faculty of Medicine, for example, we have sent 8 students to Harvard University this year for a 3-month clinical clerkship. We also exchanged 4 students with Imperial College of London, a program in which the

participating students spend 4 months at a department in the partner university. Since these programs have received high evaluations in regard to their educational and research aspects, we have created a new curriculum entitled “Medico-Dental Integrated Education.”

In addition, during the past year we have sent 10 students to our international collaborative centers, namely the Noguchi Memorial Institute for Medical Research in Ghana and the Latin American Collaborative Research Center in Chile.

Furthermore, we encourage and support our graduate students to pursue research abroad by offering scholarships for graduate students and a sabbatical system for teaching staff and researchers. The Medical Research Institute and the Institute for Biomaterials and Bioengineering are promoting the new International Researcher Overseas Assignment Program and the International Research Institute Program, respectively.

Self Improvement

How wonderful it is that the more you review what you have learned, the deeper you understand it! Also, how joyful it is to discuss what you have been doing with friends who visit from afar! Even so, if other people do not understand you, do not get upset. It is natural for a scholar to not always be understood at first.

By learning received wisdom from books and those who have mastered their arts, and constantly repeating what you have learned, naturally you’ll be ready to learn from your experiences. This may lead you to having confidence in what you can do, being able to challenge accepted wisdom and to embrace new findings. This is, as it must be, the joy of learning. If you succeed in training yourself in this manner, friends and followers will come to visit you from afar. It would be incredibly wonderful to be in such a position, wouldn’t it? From your discussions with your visitors, from every-

one present sharing their truths, you will wake to a completely new understanding of the world. How tremendous! It is not until you reach this point that you can really understand the true meaning of Confucius’s statement, “Even though others may not understand you, do not get upset about it.”

That is, once you reach a confident level of knowledge, you will not easily get upset with others or blame them for not understanding you. Instead, you will behave accordingly and appropriately, despite a lack of recognition for what you have attained. Doesn’t this behavior describe a true medical professional? We can thank Confucius for making clear the importance of adhering to one’s knowledge-based beliefs, regardless of what other people might think of you.

Brief History

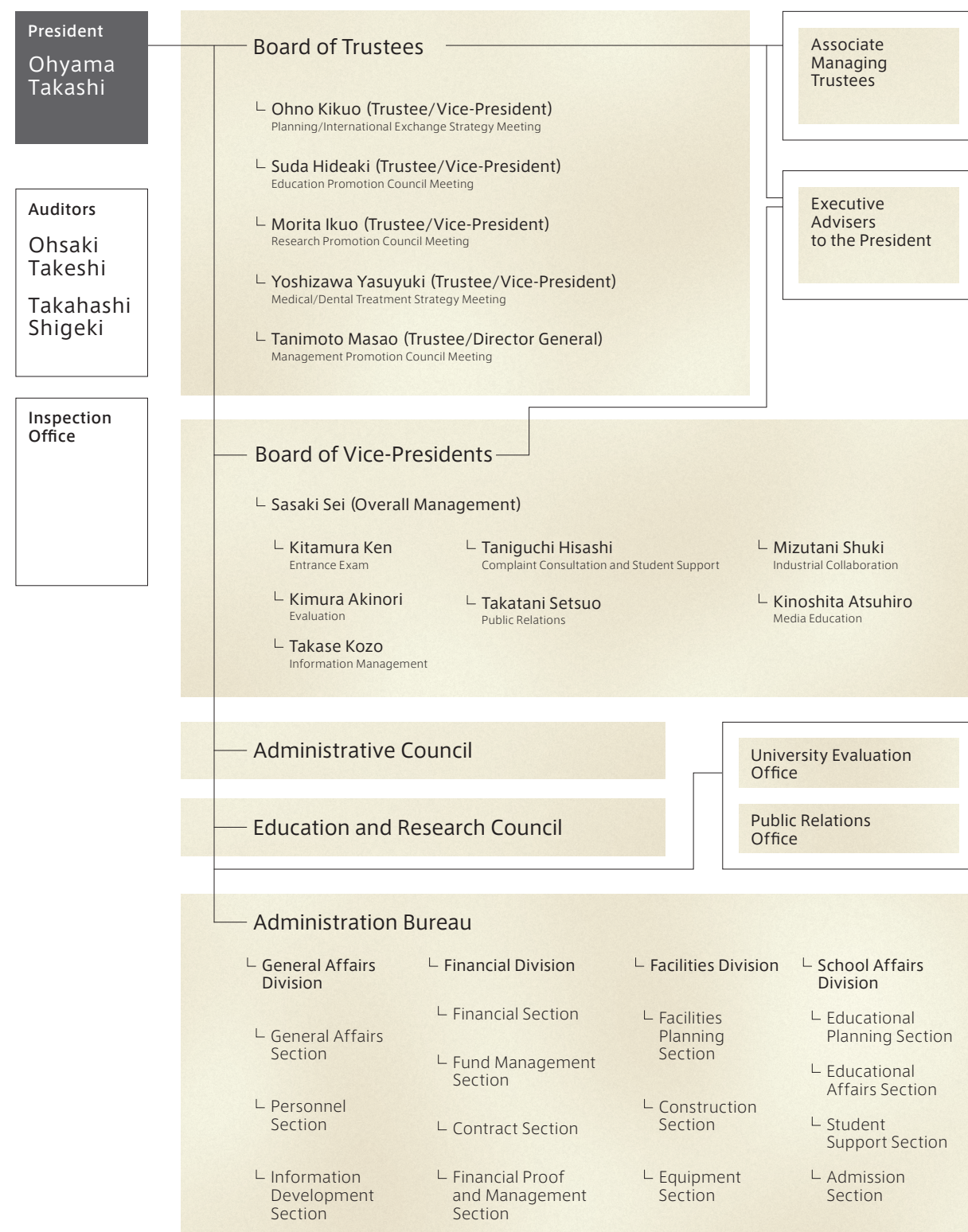
Oct. 12,1928	Tokyo National School of Dentistry was founded.	Apr. 1970	Health Service Center was established.	Apr. 2002	Center for Education Research in Medicine and Dentistry was established.
Apr. 1944	Tokyo Medical and Dental College was established.	Apr. 1972	Animal Research Center was established. (closed in May.1991)	Apr. 2003	School of Biomedical Science was established. Biomedical Science PhD Program was established. Research Center for Frontier Life Science was established.(reorganized in Apr.2010)
Aug. 1946	Tokyo Medical and Dental College was established. Tokyo Medical and Dental University (The Former System) was established.	Sep. 1973	Medical Research Institute was established.	Sep. 2003	Intellectual Property Division was established. (reorganized in Apr.2011)
Jun. 1949	University Hospital, Faculty of Medicine and Faculty of Dentistry were established.	Apr. 1989	School of Allied Health Sciences was established.	Apr. 2004	In accordance with the National University Corporation Law, National University Corporation Tokyo Medical and Dental University was established. School of Oral Health Care Sciences was established.
Apr. 1951	Tokyo Medical and Dental University (The New system), Faculty of Medicine and Faculty of Dentistry were established. Research Institute for Dental Materials was established. School of Nursing was established. (closed in Mar.1991) School for Dental Hygienists was established. (closed in May. 2005)	May. 1989	Laboratory for Biomedical Analysis was established. (closed in May.1996)	Apr. 2007	Center for Brain Integration Research was established.
Apr. 1952	School for Dental Technicians was established.	Apr. 1993	Medical Research Division (Health Care Sciences) was established. Human Gene Sciences Center was established. (reorganized in Apr.2010)	Apr. 2009	International Exchange Center was established.
Apr. 1955	Medical Research Division was established. Dental Research Division was established. Premedical and Predental Course was established. in Faculty of Humanities and Sciences, University of Chiba. (closed in Mar.1958)	Jan. 1995	Information Center for Medical Sciences was established.(reorganized in Apr.2010)	Dec. 2009	Student Center was established.
Apr. 1958	Premedical and Predental Course was established at Kounodai Annex	May. 1996	Instrumental Analysis Research Center for Life Science was established.(reorganized in Apr.2003)	Apr. 2010	Institute for Library and Media Information Technology was established. Research Center for Medical and Dental Sciences was established. Center for Experimental Animal was established. Center for Interprofessional Education was established. The Life Science and Bioethics Research Center became a permanent institution.
Apr. 1962	School of Medical Technology was established. (closed in Mar.1973)	Apr. 1998	General Isotope Center was established. (reorganized in Apr.2003)	Apr. 2011	School of Oral Health Care Sciences (Oral Health Care Sciences, Oral Health Engineering) was established. Organization for Research and Industry Liaison Promotion was established.
Apr. 1965	College of Liberal Arts and Sciences was established.	Apr. 1999	Graduate School was established. Institute of Biomaterials and Bioengineering was established.		
Apr. 1966	Research Institute for Dental Materials renamed Institute for Medical and Dental Engineering.	Apr. 2000	Graduate School of Medical and Dental Sciences was established. Graduate School of Allied Health Sciences was established. International Student Center was established. (reorganized in Mar.2009)		
		Apr. 2001	Graduate School of Health Care Sciences was established.		

Principals and Presidents

Tokyo National School of Dentistry	Shimamine Toru	Oct.13,1928 - Mar.31,1944
Tokyo Medical and Dental College	Shimamine Toru	Apr.1,1944 - Feb.9,1945
Tokyo Medical and Dental College	Nagao Masaru	Feb.10,1945 - Feb.19,1945 -
Tokyo Medical and Dental College	Nagao Masaru	Feb.20,1945 - Mar.31,1950
Tokyo Medical and Dental University	Nagao Masaru	Aug.27,1946 - Oct.4,1946
Tokyo Medical and Dental University (The Former System)	Nagao Masaru	Oct.5,1946 - Mar.31,1951
Tokyo Medical and Dental University (The New System)	Nagao Masaru	Apr.1,1951 - Jun.30,1961
	Okada Masahiro	Jul.1,1961 - Feb.29,1968
Tokyo Medical and Dental University	Ota Keizo	Mar.1,1968 - Mar.15,1968
Tokyo Medical and Dental University	Ota Keizo	Mar.16,1968 - Oct.8,1969
Tokyo Medical and Dental University	Shimizu Fumihiko	Oct.9,1969 - Sep.17,1970
Tokyo Medical and Dental University	Shimizu Fumihiko	Sep.18,1970 - Sep.17,1974
	Katsuki Yasuji	Sep.18,1974 - Jul.31,1977
	Yoshida Hisashi	Aug.1,1977 - Jul.31,1985
	Kano Rokuro	Aug.1,1985 - Jul.31,1991
	Yamamoto Hajime	Aug.1,1991 - Jul.31,1995
	Suzuki Akio	Aug.1,1995 - Mar.31,2004
National University Corporation Tokyo Medical and Dental University	Suzuki Akio	Apr.1,2004 - Mar.31,2008
	Ohyama Takashi	Apr.1,2008 -

Organization

Management Structure



Associate Managing Trustees

Planning/International Exchange	Karasuyama Hajime
General Affairs/Finance	Kondo Hiroshi
Education	Chiba Tsukasa
Research	Kitajima Shigetaka
Research	Mizusawa Hidehiro
Medical Treatment	Miyasaka Nobuyuki
Dental Treatment	Shimada Masahiko

Executive Advisers to the President

Planning/International Exchange	Kawaguchi Yoko
Education	Tanaka Yujiro
Education	Omura Ken
Research	Inazawa Johji
Entrance Exam	Azuma Miyuki
Entrance Exam	Morio Tomohiro
Evaluation	Sugihara Izumi
Evaluation	Iseki Sachiko
Complaint Consultation and Student Support	Matsuura Masato
Complaint Consultation and Student Support	Eishi Yoshinobu
Public Relations	Takakuda Kazuo

Administrative Council

Deliberate on management issues

【 Internal Committee 】

President	Ohyama Takashi
Trustee (Planning/International Exchange)	Ohno Kikuo
Trustee (General Affairs/Finance/Facilities)	Tanimoto Masao
Trustee (Education)	Suda Hideaki
Trustee (Research)	Morita Ikuo
Trustee (Medical and Dental Treatments)	Yoshizawa Yasuyuki

【 External Committee 】

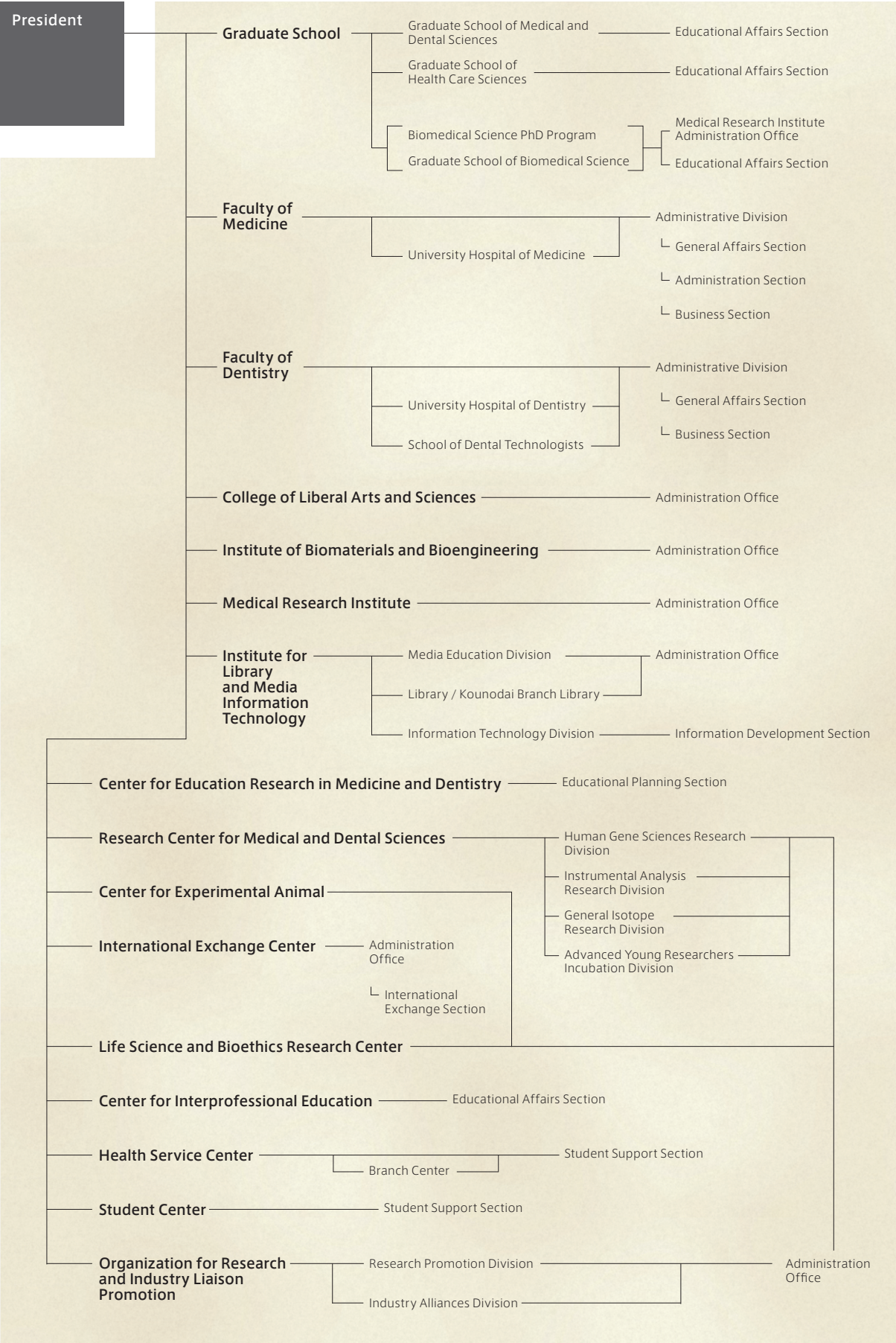
Founder & CEO, Representative Director Quantum Leaps Corporation Idei Nobuyuki
Chairperson, Society for the Promotion of the University of the Air Inoue Takayoshi
Dean, Faculty of Health Science Technology Bunkyo Gakuin University, Professor Emeritus Koike Morio
Aioi Nissay Dowa Insurance Co., Ltd, Special Adviser Seshimo Akira
Director, Takahashi Orthodontic Office, Professor Emeritus Miura Fujio
Chairman, Board of Trustees, Editor-in-Chief, The Yomiuri Shimbun Holdings Watanabe Tsuneo

Education and Research Council

Deliberate on educational and research issues

President	Ohyama Takashi	Director, Institute of Biomaterials and Bioengineering Hanawa Takao
Trustee (Planning/International Exchange)	Ohno Kikuo	Director, Medical Research Institute Kitajima Shigetaka
Trustee (General Affairs/Finance/Facilities)	Tanimoto Masao	Director General, Institute for Library and Media Information Technology Kinoshita Atsuhiko
Trustee (Education)	Suda Hideaki	Director, University Hospital of Medicine Miyasaka Nobuyuki
Trustee (Research)	Morita Ikuo	Director, University Hospital of Dentistry Shimada Masahiko
Trustee (Medical and Dental Treatments)	Yoshizawa Yasuyuki	Professor, Graduate School of Medical and Dental Sciences (Medical Division) Mizusawa Hidehiro
Vice-President (Overall Management)	Sasaki Sei	Professor, Graduate School of Medical and Dental Sciences (Dental Division) Yamaguchi Akira
Dean, Graduate School of Medical and Dental Sciences, Dean, Faculty of Dentistry	Tagami Junji	Professor, Graduate School of Health Care Sciences Matsuura Masato
Dean, Graduate School of Health Care Sciences	Inoue Tomoko	Professor, College of Liberal Arts and Sciences Nara Masayuki
Dean, Biomedical Science PhD Program	Kagechika Hiroyuki	Professor, Institute of Biomaterials and Bioengineering Kishida Akio
Dean, Graduate School of Biomedical Science	Kagechika Hiroyuki	Professor, Medical Research Institute Ishino Fumitoshi
Dean, Faculty of Medicine	Yuasa Yasuhito	
Dean, College of Liberal Arts and Sciences	Chiba Tsukasa	

Education and Research Structure



Graduate School

Dean, Graduate School of Medical and Dental Sciences
Tagami Junji

Vice Dean, Graduate School of Medical and Dental Sciences
Yuasa Yasuhito

Dean, Graduate School of Health Care Sciences
Inoue Tomoko

Dean, Biomedical Science PhD Program
Kagechika Hiroyuki

Dean, Graduate School of Biomedical Science
Kagechika Hiroyuki

Faculty of Medicine

Dean, Faculty of Medicine
Yuasa Yasuhito

Director, School of Medicine
Mizusawa Hidehiro

Director, School of Health Care Sciences
Matsuura Masato

Director, University Hospital of Medicine
Miyasaka Nobuyuki

Faculty of Dentistry

Dean, Faculty of Dentistry
Tagami Junji

Director, School of Dentistry
Moriyama Keiji

Director, School of Oral Health Care Sciences
Shinada Kayoko

Director, University Hospital of Dentistry
Shimada Masahiko

Principal, School of Dental Technologists
Igarashi Yoshimasa

College of Liberal Arts and Sciences

Dean, College of Liberal Arts and Sciences
Chiba Tsukasa

Institute of Biomaterials and Bioengineering

Director
Hanawa Takao

Medical Research Institute

Director
Kitajima Shigetaka

Institute for Library and Media Information Technology

Director General, Institute for Library and Media Information Technology
Kinoshita Atsuhiko

Director, Media Education Division
Kinoshita Atsuhiko

Director, Library
Kinoshita Atsuhiko

Director, Kounodai Branch Library
Kuroyanagi Kazuyo

Director, Information Technology Division
Takase Kozo

Center for Education Research in Medicine and Dentistry

Director
Nara Nobuo

Research Center for Medical and Dental Sciences

Director
Nakamura Masataka

Center for Experimental Animal

Director
Kanai Masami

International Exchange Center

Director
Morio Ikuko

Life Science and Bioethics Research Center

Director
Yoshida Masayuki

Center for Interprofessional Education

Director
Tanaka Yujiro

Health Service Center

Director
Miyake Shuji

Student Center

Director
Taniguchi Hisashi

Organization for Research and Industry Liaison Promotion

Officer, Organization for Research and Industry Liaison Promotion
Morita Ikuo

Senior Director, Research Promotion Division
Morita Ikuo

Senior Director, Industry Alliances Division
Mizutani Shuki

Graduate Schools

Graduate School of Medical and Dental Sciences

Mission Statement

In response to the needs of patients, professionals and the international community, we strive to become a global center of education and research in medicine and dentistry and to nurture world class researchers and research-oriented healthcare professionals.

In our master's programs, we foster the development of professionals with an advanced knowledge of basic research in medical and dental fields. Our students gain expertise as they apply the fundamental knowledge and skills they gained in their undergraduate education to new areas, and are exposed to a wide range of knowledge and practice in medicine and dentistry.

In the PhD course, we cultivate next-generation researchers in advanced biomedical science, clinically-minded researchers who integrate basic and clinical approaches to medical and dental science, interdisciplinary researchers in medicine and dentistry, and healthcare professionals who, based on a wide spectrum of knowledge, contribute to the advancement of comprehensive patient care.

Master's Program

- Medical and Dental Sciences
- Medical and Dental Sciences, Master of Medical Administration Course

Doctoral Programs

Oral Health Science	Masticatory Function Rehabilitation	Diagnostic Radiology and Oncology
	Removable Partial Prosthodontics	
Oral Restitution	Oral Implantology and Regenerative Dental Medicine	Bio-Matrix
Oral Pathology	Complete Denture Prosthodontics	
Bacterial Pathogenesis		Hard Tissue Engineering
Molecular Immunology	Maxillofacial/Neck Reconstruction	Biostructural Science
Oral Radiation Oncology		Pharmacology
Oral and Maxillofacial Surgery	Maxillofacial Biology	Tissue Regeneration
Oral and Maxillofacial Radiology	Maxillofacial Anatomy	Biochemistry
Anesthesiology and Clinical Physiology	Cognitive Neurobiology	Cell Signaling
Orofacial Pain Management	Molecular Craniofacial Embryology	Periodontology
Diagnostic Oral Pathology	Cellular Physiological Chemistry	Bioceramics
	Molecular Neurobiology	
Orofacial Development and Function	Maxillofacial Reconstruction and Function	Molecular Regulation of Supportive Tissue
Pediatric Dentistry	Maxillofacial Surgery	Cell Biology
Orthodontic Science	Maxillofacial Orthognathics	Medical Biochemistry
	Maxillofacial Prosthetics	Orthopedic Surgery
Restorative Sciences	Dentistry for Persons with Disabilities	
Cariology and Operative Dentistry	Metallic Biomaterials	Public Health
Fixed Prosthodontics	Biomechanics	
Pulp Biology and Endodontics		International Health Development
Advanced Biomaterials	Head and Neck Reconstruction	Health Promotion
Organic Biomaterials	Clinical Anatomy	Environmental Parasitology
Functional Biomaterials	Plastic, Reconstructive and Cosmetic Surgery	Forensic Medicine
	Head and Neck Surgery	International Health
		Oral Health Promotion

- Sports Medicine/Dentistry
- Forensic Dentistry
- Stem Cell Biology
- Molecular Epidemiology
- Life Sciences and Bioethics

Health Science Policies

- Health Care Management and Planning
- Health Care Economics
- Dental Education Development
- Research Development
- Health Care Informatics
- Health Policy and Management in Dentistry
- Educational System in Dentistry
- Educational Media Development

Gerontology and Gerodontology

- Gerodontology
- Gerodontology

Aging Control Medicine

- Comprehensive Pathology
- Integrated Pulmonology
- Geriatrics and Vascular Medicine
- Esophageal and General Surgery
- Thoracic Surgery
- Rehabilitation Medicine

Comprehensive Patient Care

- Comprehensive Oral Health Care
- General Dentistry
- Psychosomatic Dentistry
- Behavioral Dentistry
- Temporomandibular Joint and Occlusion

Comprehensive Diagnosis and Therapeutics

- Laboratory Medicine
- Critical Care Medicine
- Liaison Psychiatry and Palliative Medicine
- Pharmacokinetics and Pharmacodynamics
- Medical Education Research and Development
- Acute Critical Care and Disaster Medicine

Cognitive and Behavioral Medicine

Systems Neuroscience

- Neuroanatomy and Cellular Neurobiology
- Systems Neurophysiology
- Ophthalmology and Visual Science
- Otolaryngology
- Molecular and Cognitive Neuroscience
- Biosystem Regulation

Brain Medical Science

- Neurobiology and Cell Pharmacology
- Neurology and Neurological Science
- Psychiatry and Behavioral Sciences
- Neurosurgery
- Endovascular Surgery
- Neuropathology

Bio-Environmental Response

Infection and Bioresponse

- Immune Regulation
- Molecular Virology
- Immunotherapeutics
- Biodefense Research
- Pathological Cell Biology

Bioregulation

- Pediatrics and Developmental Biology
- Medicine and Rheumatology
- Dermatology
- Pathological Biochemistry
- Immunology
- Cellular and Environmental Biology

Systemic Organ Regulation

Digestive and Metabolic Disease

- Human Pathology
- Gastroenterology and Hepatology
- Surgical Oncology

Cardio-Pulmonary Diseases

- Physiology and Cell Biology
- Cardiovascular Medicine
- Anesthesiology
- Cardiovascular Surgery
- Bio-informational Pharmacology
- Molecular Medicine and Metabolism

Regulation of Internal Environment and Reproduction

- Nephrology
- Comprehensive Reproductive Medicine
- Urology
- Stem Cell Regulation
- Molecular Pharmacology
- Molecular Cell Biology
- Functional Genomics
- Epigenetics
- Developmental and Regenerative Biology

(Continued on the next page)

Graduate Schools

Graduate School of Medical and Dental Sciences (Continued)

Advanced Therapeutical Sciences

Gene and Molecular Medicine

- Molecular Oncology
- Hematology
- Clinical and Molecular Endocrinology
- Signal Gene Regulation
- Drug Design Chemistry
- Medicinal-Chemical Biology
- Genetic Regulation
- Bio-informatics
- Applied Genetics
- Molecular Cytogenetics
- Biochemical Genetics
- Experimental Animal Model for Human Disease

Advanced Surgical Therapeutics

- Hepato-Biliary-Pancreatic Surgery
- Thoracic Organ Replacement
- Orthopaedic and Spinal Surgery
- Investigative Radiology and Endoscopy
- Surgical Pathology
- Medical Technology
- Medical Instruments
- Artificial Organ Engineering

Endowed Departments

- Department of Pharmacovigilance
- Department of Nanomedicine
- Department of Translational Oncology
- Department for Hepatitis Control
- Department of Advanced Therapeutics for GI Diseases
- Development Division of Advanced Orthopaedic Therapeutics
- Department of Cartilage Regeneration
- Department of Sleep Modulatory Medicine
- Department of Pediatrics, Perinatal and Maternal Medicine
- Department of Community Pediatric Health Science
- Department of Chronic Kidney Disease
- Section of Joint Reconstruction

Graduate School of Health Care Sciences

Mission Statement

The Graduate School of Health Care Sciences was established in April 2001 as the first national graduate school of nursing and laboratory sciences in Japan. The school comprises the Division of Comprehensive Health Nursing Sciences and the Division of Biomedical Laboratory Sciences, to manage many complex issues in health care science area in this century. In order to respond to these challenges and to assume international and multidisciplinary leadership roles, it is the primary philosophy of this school to prepare advanced professionals and leading international scholars through the development of an advanced educational research system and the promotion of clinical-oriented research activities in graduate school.

As our basic philosophy, we aim for each student to be a scholar as well as an international leader and a leading advanced professional in clinical-oriented research. Students become advanced professionals who can take a leadership role in clinical fields and at the same time, international leading scholars who can solve problems in diverse clinical settings including communities.

Clinical competency in nursing includes skills in such professional areas as prevention of health and related living problems, recovery of good health, rehabilitation, palliative care, advanced nursing techniques, and establishment of care systems. Clinical competency in laboratory science includes accurate clinical laboratory analysis in response to advances in health care. By repeating a developmental cycle from clarifying clinical problems, exploring research for problem-solving, applying research outcome to practice, confirming its validity, to clarifying new research questions, focus and methods, students can acquire the foundation for international research leadership with clinical competency.

Features of Our Graduate School

The educational research divisions in the graduate school have been organized to respond to the present and future needs of society for developing nursing and laboratory sciences. There are three departments and eleven educational research divisions in comprehensive health nursing sciences. There are two departments and ten educational research divisions in biomedical laboratory sciences. The educational research divisions are composed of advanced professional programs.

Health and related living problems are diverse and complicated. The program of the Division of Comprehensive Health Nursing Sciences is designed to prepare professional nurses with organizational problem-solving skills to engage in a variety of advanced nursing practices. The goal of this advanced nursing practice is to achieve individual health, greater independence of living and quality of life for clients of all ages and families from a holistic view of disease prevention, health recovery, rehabilitation, and terminal care.

Medicine and health care techniques have become increasingly advanced, influenced by the rapid progress of molecular biology in particular. Laboratory science is no exception. The program of the Division of Biomedical Laboratory Sciences prepares students to develop accurate and highly functional clinical laboratory methodologies and biomedical support systems, including home clinical laboratory system and rehabilitation tools. The course of study is based on analysis of biomedical information from molecular and cell levels to organ and individual levels, and exploration of etiology and pathophysiological analysis.

Doctoral Program (Master's Course-Doctor's Course)

Comprehensive Health Nursing Sciences

Community Health and Home Care Nursing

- Community Health Nursing
- Home Care Nursing
- Reproductive Health Nursing
- Mental Health and Psychiatric Nursing

Nursing Function and Care Management

- Fundamental Nursing and Life Support
- Child and Family Nursing
- Critical and Invasive-palliated Care Nursing
- Gerontological Nursing and Health Care System
- System Management in Nursing

Health Education

- Analytical Health Science

- Occupational Health Education
- International Nursing Development

Biomedical Laboratory Sciences

Life Sciences and Bio-informatics

- Biochemistry and Biophysics
- Anatomy and Physiological Science
- Biofunctional Informatics
- Biophysical System Engineering

Moleculo-genetic Sciences

- Analytical Laboratory Chemistry
- Microbiology and Immunology
- Molecular Pathophysiology
- Laboratory Molecular Genetics
- Advanced Analytical Chemistry

Graduate Schools

Biomedical Science PhD Program

Graduate School of Biomedical Science

Mission Statement

As Japan is growing into a unique country with a low birthrate and a large elderly population, post-genome research stemming from decoded genomic information and a better understanding of phenomena such as molecular structures, together with the development of the technology to control them, is expected to have many benefits. For example, the financial burden of healthcare will be lessened, the evolution of a healthy elderly society devoid of diseases, in which revolutionary therapies and medicines are developed, will occur, and our burden on the environment will be reduced. To be sure, the 21st century is becoming a century of life science. Now that academic fields and social and industrial structures are changing, it is necessary to promote practical research in fusing the interdisciplinary fields related to complex disease research with leading-edge life science and to foster individuals who have the managerial ability to realize innovations based on life science analysis and the ability to resolve practical problems. The aim of this PhD program is to nurture such a generation of world-changing leaders.

In order to conduct graduate school education that correctly meets the needs of society as well as trends in scientific research and progress, this Graduate School promotes cooperation with various national and private research institutes staffed with superior researchers in the field of life science. Unlike an orthodox degree program education in which a student is mentored by a single instructor in an area of expertise, our program allows students to be mentored by multiple instructors in various areas of research. Students are required to write a thesis (in English, for doctoral students) that is to be openly reviewed for approval. Such unorthodox education will cultivate our graduates to be true PhDs who are holders of global standards.

Since the academic year 2005, we have been making many attempts to globalize our educational program. We prepared courses taught in English, which is the international language in the world of science, enabling students from overseas to receive one of the highest levels of graduate school education and obtain a PhD degree in Japan without the knowledge of Japanese language. Upon achieving our goal of globalization, we will then move on to adopting our high-level performance internationally, strengthening cooperation and relations with global business and industry, and encouraging our students to form their career paths worldwide. Furthermore, we aim to form a global alliance of higher education institutes in Europe, the United States, and Asia, with the aim of sharing the philosophy of interdisciplinary disease science upon which we will reconstruct our educational systems, and developing international cooperation education through the Double-degree Program so as to maintain the quality of our education with global standards.

Biomedical Science PhD Program

Doctoral Programs (Master's Course-Doctor's Course)

Bioinformatics

Functional Biology

Graduate School of Biomedical Science

Medical Bioinformatics

Genome Diversity

Computational Biology

Proteome Informatics

Disease Information Management

Genome Informatics

Applied Structural Biology

Structural Biology

Organic and Medicinal Chemistry

Medicinal Chemistry

Functional Biology

Gene Expression

Molecular Neuroscience

Immunology

Biosystem Modeling

Cell Biology

Immune Recognition

Development and Regenerative Medicine

Faculties

Faculty of Medicine

School of Medicine

School of Health Care Sciences

Mission Statement

The Faculty of Medicine was established in 1951 and now consists of the School of Medicine and the School of Health Care Sciences. Subjects taught at the School of Medicine include Functional Morphology, Physiology and Pharmacology, Molecular Genetics, Infectious Immunology, Pathology, Environmental Social Medicine, Comprehensive Diagnostics, Internal Medicine, Pediatric Medicine, Neurology and Psychiatry, Surgery, Sensory Organ Sciences, Dermatology and Plastic Surgery, Female Medicine and Urology and Reproductive Medicine. School of Health Care Sciences includes two courses of Nursing Science and Medical Technology. Subjects of the former are Fundamental and Clinical Nursing and Community Health Nursing. Subjects of the latter are Laboratory Science and Laboratory Technology.

The School of Medicine and the School of Health Care Sciences welcome talented students who will become leaders in medical science and treatment not only in the future Japan but also in the future world. Furthermore, we seek students of lively imagination, with deep consideration for others and with strong spirit for contribution to people's welfare.

Based on the three fundamentals of educational philosophy in Tokyo Medical and Dental University (TMDU), all staff in the School of Medicine concentrate on training students to obtain academic and medical knowledge, high professional skills in clinical medicine, a researcher's mind, a heart full of humanity, and excellent insights. We hope that many of our students will

contribute to our and international societies.

The School of Medicine has been improving its educational curriculum in recent years, introducing a tutor system in problem-based medicine, the MD-PhD course, the TMDU-Imperial College (London) Student Exchange Program and other international exchange programs, the Harvard Medical School Externship program for 8-11 selected students every year, the project semester program for learning basic research for the 4th-year students, and clinical clerkship for the 5th- and 6th year students.

The philosophy of the School of Health Care Sciences is based on sound knowledge and a high moral and ethical standard. We aspire to the development and personal training of health care professionals who possess originality and creativity in their ideas. The school offers professional education in nursing science and laboratory science based on an interdisciplinary approach.

Currently running projects in the Faculty of Medicine include "Human Resource Development Plan for Cancer," which is a training program for specialists in cancer in collaboration with Graduate School, "Program to Create an Infectious Diseases Research Center" which involves extensive research of emerging and re-emerging infectious diseases at the research center (Noguchi Memorial Institute for Medical Research) in Ghana, West Africa, and "Special Funds for Education and Research" which offers students medical education that meets the highest global standards.

Faculties

Faculty of Dentistry

School of Dentistry

Mission Statement

The educational philosophy of the School of Dentistry is primarily to foster dentists who can promote and maintain health by faithfully providing comprehensive dental care and contributing to the development of dental medicine and service from a global perspective. We deem it our mission to educate dental students who have attained the following goals at the time of graduation:

- 1. Acquire a broad range of general knowledge and have wide experience, so as to become a dentist with a rich sense of humanity.
- 2. Understand scientific principles and concepts and acquire knowledge in bioscience.
- 3. Have an inquiring mind to enable the independent discovery of problems and the solutions thereto.
- 4. Acquire knowledge and basic skills necessary for the prevention, diagnosis and treatment of diseases in the oral and maxillofacial regions, based on a deep understanding of normal and pathologic general conditions.
- 5. Fully understand the importance of the role of dental medicine and dental care in society.

School of Oral Health Care Sciences

Mission Statement

The educational philosophy of the School of Oral Health Care Sciences is to promote professional leaders with kind and well-rounded humanity, based on knowledge and technology of oral health and welfare, who can contribute to society for people's healthy and happy lives. The following goals are to be met by graduation:

- 1. Understand the dignity of life as well as scientific principles and concepts, and acquire knowledge in bioscience.
- 2. Respect fundamental human rights and acquire the ability to associate with people who understand the way other people feel and behave.
- 3. Understand the role and importance of oral health and welfare in society.
- 4. Understand various conditions of mind and body acquire, knowledge and utilize technology to promote oral health.
- 5. Acquire an inquiring mind and problem-solution ability and have the will to pursue lifelong learning.
- 6. Acquire the ability to act as a specialist of health, medical treatment or welfare.
- 7. Learn the ability to contribute internationally from the point of view of oral health.
- 8. Acquire high ethics as a medical professional with deep understanding of people and rich sensibilities.
- 9. Acquire the desire to contribute to society with advanced knowledge and the technical ability to be a "Manufacturing Specialist" who promotes QOL.

Oral Health Care Sciences

Fundamental Oral Health Care Sciences

- Oral and Maxillofacial Biology
- Fundamental Oral Health Care Science

Oral Health Care Promotion

- Oral Health Care Education

Preventive Oral Health Care Science

Lifetime Oral Health Care Sciences

- Pediatric Oral Health Care Science
- Adult Oral Health Care Science
- Geriatric Oral Health Care Science

Community Oral Health Care Science

- Community Oral Health Care Science

Oral Health Engineering

Fundamental Oral Health Engineering

- Basic Oral Health Science
- Comprehensive Oral Health Engineering
- Oral Clinical Science

Oral Materials Science and Technology

- Oral Health Information Technology

Oral Biomaterials Engineering

Oral Prosthetic Sciences

- Oral Prosthetic Engineering
- Fixed Prosthetic Engineering

College of Liberal Arts and Sciences

Mission Statement

To become health professionals and citizens who can contribute to a global society, students need to develop the intellectual capacity to appreciate diverse cultures and values, and the emotional capacity to understand and empathize with others. In addition, these students need to learn about ethical standards and improve their ability to communicate with others.

To develop such students is the responsibility of the College of Liberal Arts at TMDU, the only national university in Japan with a faculty of liberal arts. To serve our institution's mission as a graduate university, we have the following aims for students in the College:

- 1. To develop as civic-minded professionals who can participate in a global society.
- 2. To develop the scientific and analytic mindset needed both to identify and solve problems.
- 3. To acquire the communication skills required to contribute to the global health-care profession.
- 4. To acquire the strong foundation needed to support future study.

Human Sciences

Humanities and Social Sciences

- Philosophy
- Literature
- Sociology

Health Sciences and Physical Education

Natural Sciences

- Mathematics
- Physics
- Chemistry
- Biology

Foreign Languages

- English
- Additional Foreign Languages
- German
- French

Affiliated Educational and Research Facilities

School of Dental Technologists

Provide high level technology to Dental Technologists

Hippocrates Hall



Champ de Causerie



Institute of Biomaterials and Bioengineering

Mission Statement

The Institute of Biomaterials and Bioengineering (IBB) was originally established as the Research Institute of Dental Materials with the aim of developing innovative dental devices and materials in 1951. Through the reorganization into the Institute for Medical and Dental Engineering in 1966, the Institute expanded into the present IBB with 3 large divisions consisting of 13 departments in 1999. Since its establishment, the IBB has been contributing to the development of biomaterials and medical devices as an international forerunner through the harmonizing of engineering and technological science with medical and dental sciences.

The IBB has put forward the following 3 objectives in order to expand and deepen the basic science for biomaterials and bioengineering since April in 2004, when Tokyo Medical and Dental University was reorganized into a national university cooperative, leading to the development of applied science and technologies for the advanced medicine and dentistry.

- (A) An inquiry into the Nano-Bioscience for Advanced Medicine and Dentistry
- (B) The creation of Bio-Inspired Biomaterials for New Clinical Applications
- (C) The development of Bio-System Engineering for Advanced Medical and Dental Devices

Despite the drastically changing circumstances around universities in Japan, the IBB has been continuously forwarding the roles for an international center of excellence of biomaterials and bioengineering.

Biofunctional Molecules

- Medicinal Chemistry
- Molecular Design
- Applied Functional Molecules
- Biosensors

Division of Biomaterials

- Metals
- Inorganic Materials
- Organic Materials
- Biomaterials Mechanics

Division of Biosystems

- Biodesign
- Biomedical Information
- Biomedical Devices and Instrumentation
- Biosystem Regulation
- Artificial Organs

Medical Research Institute

Mission Statement

Our research focus is to tackle issues in medical science with the hope of contributing to the development of measures for patients who are suffering from intractable diseases. These disorders include metabolic, neurological, psychiatric, cardiovascular, loco-motor, immunological, genetic, infectious and neoplastic diseases. The patho-physiological bases of these diseases should be understood on the bases of molecular analyses of the mal-function and impaired regulation of homeostasis.

State-of-the-art science into the cellular and molecular mechanisms operating in the life of basic organisms as well as humans has been sought vigorously in our institute and this activity has been continuously expanding in recent years. This is reflected in our record of recent publications as well as the amounts of major grants obtained in the field of medical science including the participation of many staff members of our institute in the 21st Century COE program of our university. The strength of the Medical Research Institute also lies in its close ties with the newly commenced graduate school system. The number of young investigators in our institute has increased significantly and the new educational system has been attracting attention of the medical science society.

The activity of our institute has been international. We have established scientific ties with a number of overseas universities and institutions such as Harvard University in addition to the various international collaborations in our research activities, we have been accepting many visitors worldwide including scientists from major institutes. International symposiums and seminars have been constantly held to provide cutting edge knowledge in medical science but also opportunities to establish relationship among young scientists and world top class investigators.

As the Medical Research Institute is growing in a number of respects as a young institution in the field of molecular medical science, we are welcoming everyone who is interested in joining us in our endeavor to seek for the clues to cure patients with intractable diseases in the future by unraveling the great mystery of nature.

Advanced Molecular Medicine

- Molecular Medicine and Metabolism
- Molecular Pharmacology
- Molecular Cell Biology
- Molecular Neuroscience
- Biodefense Research
- Bio-informational Pharmacology
- Stem Cell Regulation
- Oxygen Biology
- Project Research Unit

Pathophysiology

- Neuropathology
- Pathological Cell Biology
- Developmental and Regenerative Biology
- Stem Cell Biology
- Immunology
- Molecular Pathogenesis
- Frontier Research Unit
Virus Research Unit
- Cellular Physiology and Immunology
- Project Research Unit

Medical Genomics

- Molecular Cytogenetics
- Molecular Genetics
- Molecular Epidemiology
- Biochemical Genomics
- Epigenetics
- Bioinformatics
- Frontier Research Unit.
Redox Response Cell Biology
- Project Research Unit

Division of Integrative Research

- Division of Biosystem Generation
- Division of Pathogenetic Regulation

Advanced Technology Laboratory

- Genome Laboratory
- Laboratory of Cytometry and Proteome Research
- Laboratory of Recombinant Animals
- Laboratory of Anatomy and Cell Function
- Bioresource Laboratory
- Laboratory for Structure Analysis
- Stem Cell Laboratory

Endowed Departments

- Department of Organ Network and Metabolism

Institute of Biomaterials and Bioengineering



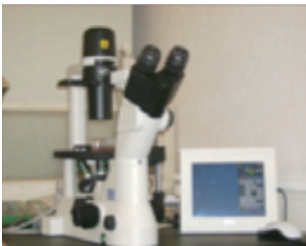
Genome Laboratory



Laboratory of Anatomy and Cell Function



Laboratory of Cytometry and Proteome Research



Bioresource Laboratory

Institute for Library and Media Information Technology

Department of Educational Media Development

Media Education Division

Coordinating divisions related to e-learning and multimedia education

Library / Kounodai Branch Library

Collection and storage of academic documents/materials
Utilization of academic information/the library facility

Mission Statement

A new role is being demanded of university libraries as academic information is becoming increasingly computerized, modes of information distribution are undergoing unprecedented transformation, and the information utilization behavior of the users is changing greatly.

In particular, the following 4 functions need to be improved at future university libraries: 1) collection and storage of strategic paper documents representative of the special characteristics of the university, 2) establishment and improvement of collection and storage systems for various kinds of academic documents, 3) measures for space reduction, etc., through computerization, and 4) maintenance of basic facilities in university libraries.

In accordance with these requirements, the library of this university focuses on 3 points: (1) expansion of information use services, (2) integration and systematization of on-campus information resources, and (3) a strategy for quantitative and qualitative expansion of users; and developed the following concepts:

- (1) Expansion of information use services
 - a) Computerization of library catalogs
 - b) Enhancement and reexamination of electronic media
 - c) Establishment of information outlets
 - d) Large-scale increase in the number and versatility of reading seats
 - e) Increase in the number of users of the medical and dental media center, and enhancement of installed equipment
- (2) Integration and systematization of on-campus information resources
 - a) Research-related materials stored in each field as research related information
 - b) Application of e-learning systems based on automatic lecture recording systems to learning content, etc.
- (3) A strategy for expanding the services offered to patrons, quantitatively and qualitatively
 - a) Expansion of information literacy education
 - b) Response to multi-purpose needs of users
 - c) Creation of comfortable reading spaces

Library Holdings

Classification	Japanese Books (including periodicals)	Foreign Books (including periodicals)	Total
Library	97,656	116,092	213,748
Kounodai Branch Library	71,055	17,532	88,587
Total	168,711	133,624	302,335

(Fiscal Year 2010)

Facilities

Classification	Floor Space	Seats	Stack Room	Office and Other	Total
Library	2,222 m ²	343	388 m ²	2,034 m ²	4,644 m ²
Kounodai Branch Library	280 m ²	125	468 m ²	285 m ²	1,033 m ²

Utilization

Classification	Total Days Open	Visitors	Books and Journals Checked Out	
Library	313	91,623	Weekdays 8:30~22:00	Students 9,372
			Holidays 8:30~17:00	Teaching Staff 2,562
Kounodai Branch Library	242	44,106	Weekdays 9:00~20:00	Students 2,662
			Holidays —	Teaching Staff 250

(Fiscal Year 2010)

Information Technology Division

TMDU Intranet; Management and maintenance of the university's shared servers; Implementation of a new information security policy; Management and maintenance of the official university website and support of each division/section's website; Research Information Database.



Lobby of the TMDU Library (M&D Tower, 3F)

Nationwide Joint Institute

Center for Education Research in Medicine and Dentistry

Research on the Model Core Curricula in Medicine and Dentistry, educational evaluation methods, and other matters regarding the improvement of the Japanese educational system for physicians and dentists.

Joint Institutes for Education and Research

Research Center for Medical and Dental Sciences

Human Gene Sciences Research Division
Research and education of disease related genes

Instrumental Analysis Research Division
Development, research and education of the technology for advanced measurement and analysis. Promotion of individual utilization of shared analytical equipments and analysis service offer.

General Isotope Research Division
Education and research on radiology and radioisotope medicine

Advanced Young Researchers Incubation Division
Promoting independent research opportunities for young researchers

Center for Experimental Animal

Analysis of diseases and studies of animal care for medical use

International Exchange Center

To integrate affairs related to the international exchange area, and to support the school's promotion of international exchange.

Life Science and Bioethics Research Center

Implementing bioethics education and supporting clinical research planning

Center for Interprofessional Education

Promoting comprehensive education for health professionals in an aging society by utilizing educational resources in the university. Compiling new undergraduate curricula in medicine and dentistry with an emphasis on a tighter integration between medicine and dentistry, and establishing a system for their effective and efficient management.

Health Service Center

Health Service Center

Improving healthcare management at the university and promoting the health of students, faculty, and staff.

Student Center

Student Center

Supporting students in terms of daily life needs, education, job hunting, mental health problems and the taking of measures against various kinds of harassment.

Organization for Research and Industry Liaison Promotion

Organization for Research and Industry Liaison Promotion

Supporting the promotion research activity, the planning of research activity and the creation/ protection/ management/ exploitation of intellectual property.

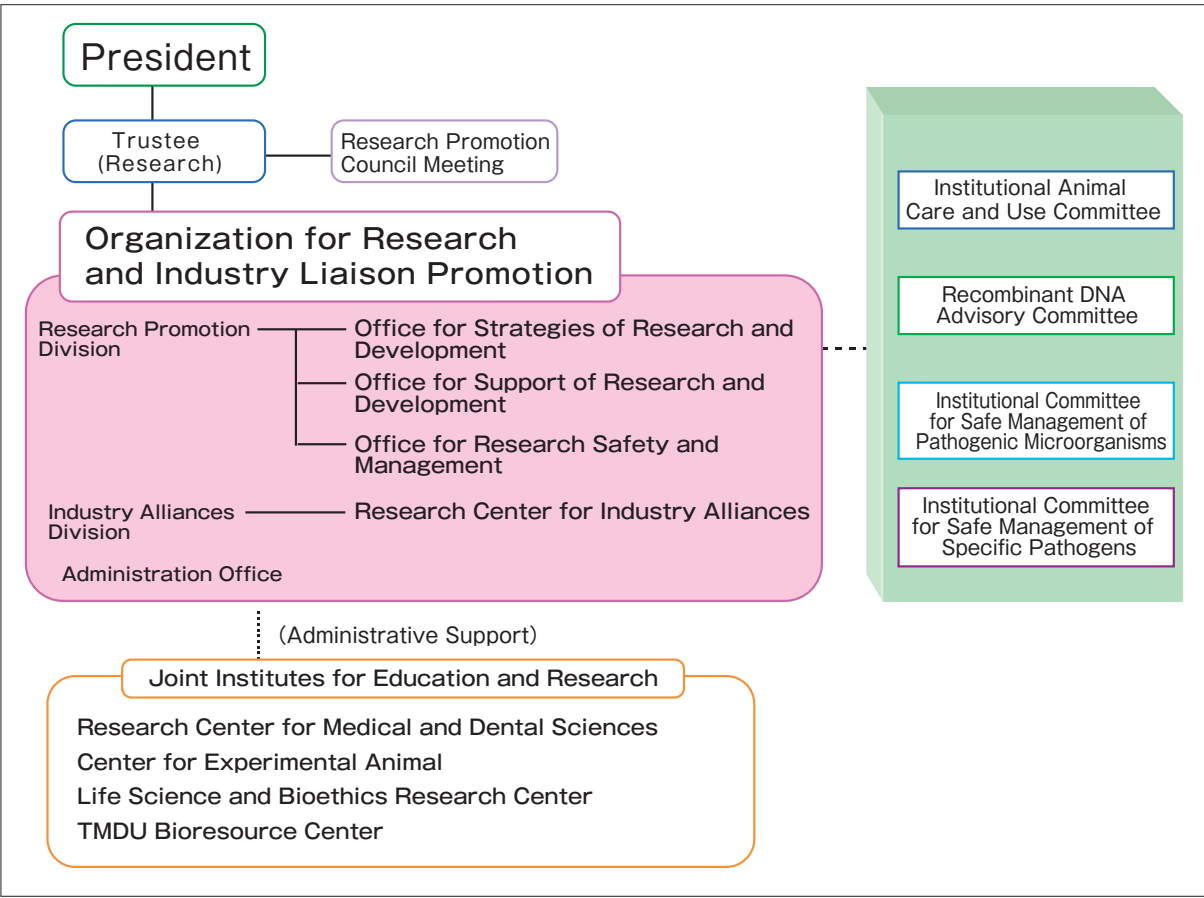
Research Promotion Division

Supporting the promotion of research activity and the planning of research strategy.

Industry Alliances Division

Supporting research activity through the promotion of intra-/ international alliances and contributing to society through the planning of research strategy and the creation/ protection/ management/ exploitation of intellectual property.

Organization Chart



University Hospitals

University Hospital of Medicine

University Hospital of Dentistry

Mission Statement

The University Hospital of Medicine is committed to providing excellent patient care as well as advanced medical technology to the community. The mission of the University Hospital of Dentistry includes developing world-class staff as well as providing excellent dental care tailored to individual patient's needs. The success of these missions requires (1) the practical training of faculty, staff, students, and trainees and (2) innovative scientific research and breakthrough discoveries. Each member of Tokyo Medical and Dental University is devoted to accomplishing our missions by delivering high quality patient care, education, and research while respecting the human spirit.

Our ultimate goal is to provide the highest quality medical care and scientific knowledge in the future, which includes:

1. To provide patients with the best possible medical care and enable them to enjoy their daily life and health to the utmost extent.
2. To reduce the likelihood of illness with the application of new findings in preventive medicine and clinical studies.
3. To improve the cure rate of illness with the swift application of new findings from clinical trials.
4. To educate medical professionals who are sensitive to society's needs.
5. To train medical professionals who can offer clinical training for students in their internship in the TMDU teaching hospitals and other affiliated hospitals.
6. To develop medical educators and researchers who have vision for the future, and who can advance medical education and practice for coming generations.

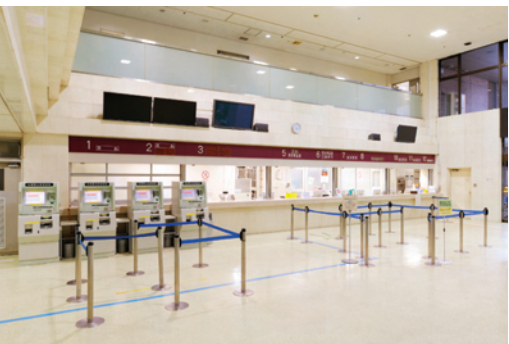
In line with these general purposes, we have the following specific aims:

1. To provide a well-organized learning environment with multiple attending teaching staff and a variety of clinical experiences for undergraduate and postgraduate education.
2. To provide patients with safe and high quality medical care.
3. To develop cooperative relations with central hospitals in the Tokyo area, as well as establishing a support system for providing significant medical contributions to the global community.
4. To conduct collaborative studies including clinical trials with other affiliated hospitals, and widen the coverage of high quality medical care.
5. To promote an effective intercollegiate research environment and bring our intellectual resources in cutting-edge medical science to society.
6. To establish efficient and economical management of the hospitals and help bring medical security to the nation.

University Hospital of Medicine (Medical Building A)



University Hospital of Dentistry (Dental Building South)



Clinics

Department of Internal Medicine	Vascular Surgery	Pediatrics
Hematology	Cardiovascular Surgery	Maternal and Women's Clinic
Rheumatology	Thoracic Surgery	Clinical Genetics Division
Endocrine, Metabolic, Diabetes	Urology	Department of Neurology, Neurosurgery and Neuropsychiatry
Nephrology	Head and Neck Surgery	Neurosurgery
Geriatrics	Department of Sensory, Motor System Medicine and Dermatology	Neurology
Gastroenterology and Hepatology	Ophthalmology	Endovascular Surgery
Cardiovascular Medicine	Oto-Rhino-Laryngology	Neuropsychiatry
Pulmonary Medicine	Dermatology	Anesthesiology and Pain Clinic
Department of Surgery	Plastic and Aesthetic Surgery	Psychosomatic and Palliative Medicine
Esophageal and Gastric Surgery	Orthopedic Surgery	Department of Radiology
Colorectal Surgery	Department of Pediatrics, Maternal and Women's Clinic	Diagnostic Radiology and Oncology
Hepato-Biliary-Pancreatic Surgery		
Breast Surgery		

Trauma and Acute Crtical Care Medical Center

Department of Internal Medicine

Department of Pharmacy	Supply Unit	Outpatient Chemotherapy Center	Medical Engineering Center
Clinical Laboratory	Maternal Fetal Medicine Division	Positron Emission Tomography Center	Center for Cell Therapy
Operating Center	Department of Pathology	Cancer Treatment Center	Center for Minimally Invasive Surgery
Radiological Center	Department of Endoscopic Diagnosis and Therapy	Center for Medical Welfare and Support	Heart Rhythm Center
Hospital Blood Transfusion Center	Department of Medical Informatics	Clinical Research Center	Department of Medical Records
Physical Medicine Center	Department of Blood Purification	Center for Postgraduate Medical Education	Quality Management Section
Intensive Care Unit	Department of General Medicine	Hyperbaric Medical Center	Infection Control Section

Nursing Department

Hospital Depertrments

Clinics for Dentofacial Growth and Development	Clinics for Oral and Maxillofacial Rehabilitation	Dental Sleep Clinic
Orthodontics	Oral Surgery	General Dentistry I
Pediatric Dentistry	Maxillofacial Surgery	General Dentistry II
Clinics for Conservation of Oral and Maxillofacial Function	Prosthodontics	General Dentistry III
Operative Dentistry and Endodontics	Maxillofacial Prosthetics	Ambulatory Anesthesia Service
Periodontics	Sports Dentistry	Oral and Maxillofacial Radiology
Orofacial Pain Clinic	Speech Clinic	Special Care Clinic
Psychosomatic Dentistry Clinic	Dental Implant Clinic	Dysphagia Rehabilitation
Temporomandibular Joint Clinic	Clinics for General Dentistry	Fresh Breath Clinic
	Oral Diagnosis and General Dentistry	Cleanroom
		Oral Health Care
		Dental Allergy

Central Clinical Facilities

Clinical Laboratory	Section of Clinical Information Management	Center for Development of Instruments and Drugs in Dentistry
Dental Laboratory	Center for Advanced Dental Clinical Education	Division of Surgical Operation
Section of Clinical Safety Management	Center for Clinical Cooperation	Dental Ward
Unit for Infection Control	Center for Dental Information	Section of Central Supplies

Department of Pharmacy

Department of Nursing

Department of Dental Hygiene

Global COE Program

International Research Center for Molecular Science in Tooth and Bone Diseases

Program Leader: Masaki NODA, MD, PhD (Professor, Medical Research Institute)

Tokyo Medical and Dental University is a distinguished institute and known as a world center for the study of "tooth" and "bone" diseases. The purpose of this Global COE (GCOE) program is to form a world-top class research center in the field of tooth and bone diseases. This program is a new development as well as succession of previous 21st century COE (21COE) program. We will promote our cutting-edge studies on tooth and bone diseases and form a unique international educational research center. Our GCOE program will nurture young researchers of the next generation who will work globally on molecular science in "tooth" and "bone" diseases. This is critical for the future welfare of all human beings and is of particular importance in Japan, the world's most rapidly aging society.

In modern developed countries, maintenance of not only life expectancy, but also "healthy life expectancy" is an important issue, and "tooth" and "bone" diseases are major problems that need to be urgently addressed in this regard. In the 21st century COE program, this center has made a remarkable accomplishment in clarification of the mechanism of loss of tooth and bone and in discovery of novel methods for tooth and bone reconstruction by finding "key elements" of the regulatory systems in the function of osteoclasts and osteoblasts and those in initiation for clinical medicine. However, identification of individual discoveries and accomplishments alone is not enough to understand the mechanisms of the comprehensive pathology

and onset of the diseases. Thus, in the Global COE program, such achievements of basic studies and those of clinical research established in the previous 21st Century COE program will be integrated and developed into three areas including (1) elucidation of basic molecular mechanisms in pathology of the diseases leading to loss of tooth and bone, (2) fundamental clinical research for diagnosis and therapeutic treatments and also (3) advancement of functional genomic studies on tooth and bone diseases based on genomic and epigenetic science. Through the research concentrated into these three areas, this center will aim to become the highest standard organization in the world in terms of integrated research on molecular science for tooth and bone diseases. Moreover, we will further develop an international research network. Through these efforts, we will establish an intelligence hub that will create innovative science and lead the research in this field to provide cutting edge information worldwide.

<http://www.tmd.ac.jp/cmn/gcoe/en/>



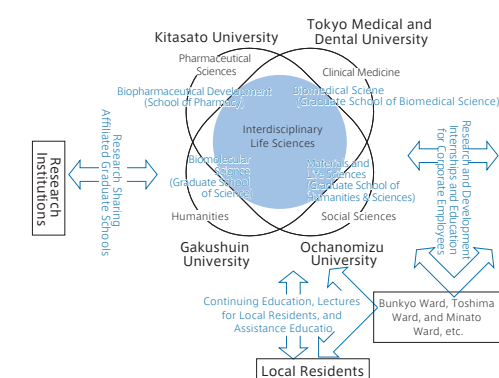
The "Strategic University Collaboration and Assistance Program for the Enrichment of University Education"

Establishment of a Hub for Cultivating Well-Rounded Graduate Talent via the Tokyo Interdisciplinary Life Sciences Consortium

Principal Investigator: Hiroyuki KAGECHIKA, PhD (Dean, Graduate School of Biomedical Science)

The field of interdisciplinary life sciences is at the core of efforts by Tokyo Medical and Dental University, Ochanomizu University, Gakushuin University and Kitasato University to establish a network linking industry, government, academia, and relevant communities. To this end, the partner universities will expand the connections among research institutions, corporations, and governmental entities in the Tokyo metropolitan area. In addition, by continuing to form links with community networks, the consortium partners will create an interdisciplinary environment for research and education, one which transcends the public/private framework and which is based on collaboration

with communities. The consortium partners will also produce wide-ranging scholarship in order to cultivate talented leaders capable of understanding and addressing real-world societal needs.



Program for Promoting University Education and Student Support

Theme A: Program for Promoting University Education Reform

Progress of the Computer Assisted Simulation for Medical and Dental Practice Training.

Principal Investigator: Atsuhiko KINOSHITA, DDS, PhD (Director General, Institute for Library and Media Information Technology)

The aim of this program is to develop the education system to a more common system which will be useful and effective for students in any school in a health professional field, and which can be utilized from anywhere at any time. We will also develop common materials that will be useful and effective in all fields of health professional education, such as first aid cases, emergency medical care, hygiene management, and so on. Moreover, we are also developing simulation materials which expose the students to other health professionals' way of clinical inference, decision-making, and problem solving.



Students are exposed to cases which must be experienced by all health professionals.



Towards the Construction of a Professional Development System for Nurses

Development of The IKASHIKA Career Path for Nurses based on Mentorship and Problem-based Learning

Principal Investigator: Tomoko KOMUTA (Director of Nursing, University Hospital of Medicine)

This project aims to develop and execute the original program, the IKASHIKA Career Path for Nurses, which incorporates the educational methods of mentorship and problem-based learning (PBL), thereby helping nurses and nursing students get through their career systematically and effectively.

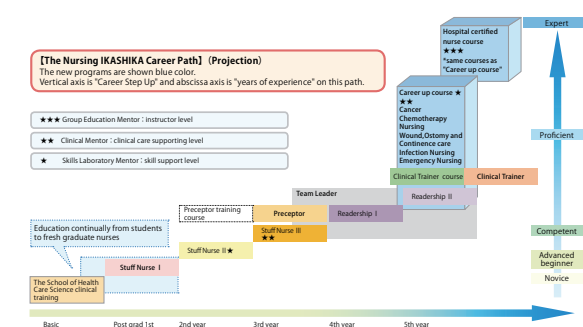
This program is designed to support nurses at all stages of their professional development, from nursing students to trained professionals, and specific behavioral objectives are set properly at each stage as part of the program.

Specifically, as shown in the figure below, participants are expected to develop as a professional in a step-by-step fashion, from the novice level to the expert level, in the program which adopts mentorship in its education and training.

This project also focuses upon the exchange of personnel between the Department of Nursing, the University Hospital of Medicine, and the School of Health Care Sci-

ences. In particular, the following are set forward: (1) a training program by nurses for nursing students, (2) an advanced seminar by faculty members for nurses, (3) a special health care section for outpatients in the University Hospital, which is jointly operated by staff from both sides, and (4) the "Nursing Arts Room," where both nurses and nursing students can learn nursing skills at their convenience.

Though these plans, we aim to train nurses who have a high ability in nursing practice and in nursing education.



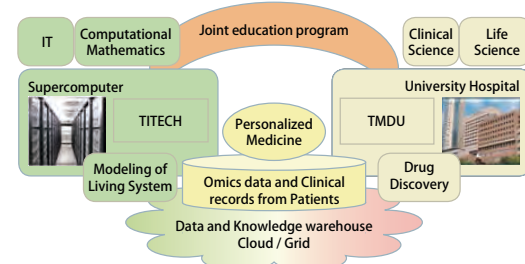
Program for Enhancing Systematic Education in Graduate Schools

TITECH-TMDU Joint Education Program for Biomedical Bioinformatics

Leader: Hiroshi TANAKA, PhD (Professor, Biomedical Science PhD Program)

Tokyo Institute of Technology (TITECH) and TMDU have jointly started an education program aiming for production of individuals with double-major minds and skills who can solve up-to-date biomedical issues with leading-edge computational technologies in this personal genomics era. This program succeeds to the achievements of university alliances among TMDU, TITECH, Hitotsubashi University, and Tokyo University of Foreign Studies since 2001. This program provides an opportunity for diverse faculties and students studying different fields to work together in order to develop advanced biomedical technologies that enable a healthy society without diseases. TMDU students shall learn by TITECH faculties

about computational theory and skills to analyze and interpret the next generation sequence data by themselves. The faculties of both TMDU and TITECH together shall educate TMDU students so they can become new leaders who promote personalized medicine based on massive genomics information.



Human Resource Development Plan for Cancer

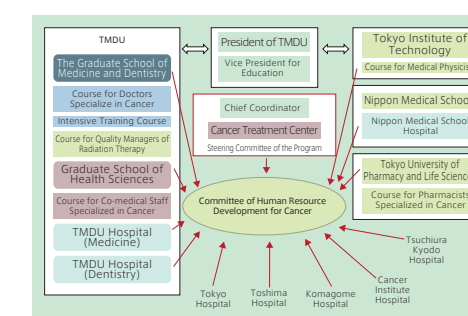
Training Program for Specialists in Cancer

Principal Investigator: Yasuhito YUASA, MD, PhD (Dean, Faculty of Medicine)

The unique aspect of this program is a network where various medical and educational institutions work together with the Cancer Treatment Center, which coordinates the whole program. The Graduate School of Medicine and Dentistry, Graduate School of Health Sciences, TMDU Hospitals, Nippon Medical School, Tokyo Institute of Technology, Tokyo University of Pharmacy and Life Sciences, Tokyo Metropolitan Komagome Hospital, the Cancer Institute Hospital, Tokyo Metropolitan Toshima Hospital, Tokyo Hospital, and Tsuchiura Kyodo Hospital are taking part in this program.

This training program has three courses. The first one is a training course for doctors, which is divided into three specializations: radiation therapy, chemotherapy, and palliative therapy. The second course is designed for co-

medical staff. This course offers two educational programs: one is aimed at nurses who are specialized in nursing care for cancer patients, and the other is for medical physicists and quality managers of radiation therapy. The third is an intensive training course for specialists who are already engaged in cancer treatment.



Training of Distinguished Specialists by Mutual Cooperation between University Hospitals

Development of Advanced Medical Specialists through the Province-Urban University Hospital Network

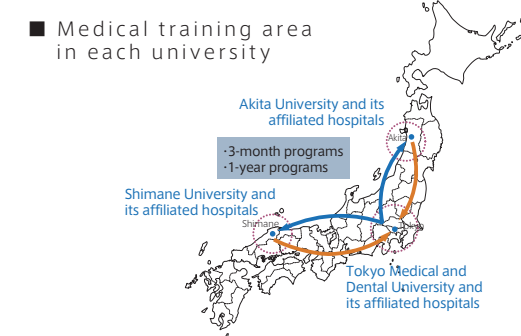
Principal Investigator: Nobuyuki MIYASAKA, MD, PhD (Director, University Hospital of Medicine)

Faculties of medicine of TMDU, Akita University, and Shimane University have produced numerous medical doctors who assume leading roles in community healthcare. This has been achieved through full coordination among a university hospital as an advanced medical institution and its affiliated hospitals in each region.

These three university hospitals already started an interuniversity training program for post-graduate clinicians in 2007. We have recently extended this program, implementing new training programs for medical specialists and general practitioners.

The participants in these programs can choose (i) a three-month program or (ii) a one-year program to acquire extra merit as a specialist or a general practitioner. All three

universities have graduate schools and admit working people as well. If participants wish to follow their academic interest in the fields they experience during their intern training, they can go to the appropriate graduate school to pursue their interest and get a degree.



Special Coordination Funds for Promoting Science and Technology

International Collaboration for Development of a New Drug Against Avian Influenza (JST)

Principal Investigator: Takamitsu HOSOYA, PhD (Professor, Graduate School of Biomedical Science)

Avian influenza virus is an influenza A virus of H5N1 subtype that occurs mainly in birds, is highly contagious among birds, and can be deadly to them. H5N1 virus does not usually infect people, but infections with these viruses have occurred in humans. More than 100 people died in Vietnam from H5N1 infection, and Vietnam and Indonesia are the most infected areas of H5N1 in the world. A TMDU research group recently identified a protein kinase which is required for RNA virus proliferation, and furthermore found that synthetic chemical inhibitors of the kinase can suppress proliferation of several RNA viruses including the influenza virus. Therefore, we will develop a new anti-virus drug for patients who suffer avian influenza in cooperation of Vietnam and

Japanese scientists. Through international cooperation, we will accelerate the drug development, transfer the knowledge and technology required for pharmaceutical industries from Japan to Vietnam, and produce scientists who can develop new drugs with original ideas and technology in Vietnam.



Hanoi Medical University

Science and Technology Research Partnership for Sustainable Development (SATREPS)

Studies of Anti-viral and Anti-parasitic Compounds from Selected Ghanaian Medicinal Plants

Principal Investigator: Shoji YAMAOKA, Professor of Department of Virology, Graduate School, Tokyo Medical and Dental University

In 2008, TMDU established the Research Center for Infectious Diseases at the Noguchi Memorial Institute for Medical Research (NMIMR) in Ghana, West Africa, dispatched two researchers to NMIMR, and implemented research collaborations on virology and parasitology. In 2010 we began a new research project, supported by Japan Science and Technology Agency (JST) and Japan International Cooperation Agency (JICA), on Ghanaian medicinal plants whose components are effective in the control of viral or parasitic infections. Based on a request from the Ghanaian side, the research collaborations have been planned by the groups of Prof.

Yamaoka (Virology, TMDU), Prof. Kannagi (Virology, TMDU), Prof. Ohta (Parasitology, TMDU), Prof. Shoyama (Pharmacology, Nagasaki International University), Prof. Nyarko (Toxicology, NMIMR) and Prof. Okine (Biochemistry, Centre for Scientific Research into Plant Medicine).



A meeting at NMIMR

JSPS A3 Foresight Program

Epigenetic Signatures in Gastric Carcinogenesis

Principal Investigator: Yasuhito YUASA, Professor, Graduate School of Medical and Dental Sciences
Deng Dajun, Professor and Director, Department of Aetiology, Peking University School of Oncology, China
Kim Woo Ho, Professor, Department of Pathology, Seoul National University College of Medicine, Korea

Based on an agreement among Japan Society for the Promotion of Science (JSPS), Korea National Research Foundation (KNRF) and the National Natural Science Foundation of China (NSFC), this program supports joint research conducted by researchers of Japan, China and Korea. The three countries (A3) work as consortium in advancing leading-edge research with an aim to establishing a top-level research hub in Asia.

The objectives of the present project are to explore the role of epigenetic pathway in gastric carcinogenesis

and its application in molecular sub-typing of GC through the collaboration of researchers of the three countries. The other important objective is to educate young researchers in the three countries.



Kickoff meeting held at TMDU in August, 2009

Project for Developing Innovation Systems (Program for Promoting Self-Sustaining Management of Industry –Academia – Government Collaboration in Universities)

Promoting International Industry-University-Government (I-U-G) Collaborative Activities

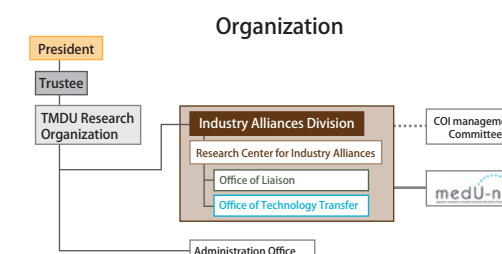
Principal Investigator: Kaori IIDA (Associate Professor, Industry Alliances Division)

TMDU Industry Alliance Division (IAD), which implements this project, was established in April 2011 as the incoming organization of TMDU Intellectual Property Division. IAD's mission is to make strong relationships with industry and government and to manage the intellectual property of TMDU in an effort to promote TMDU's research activities and contribute for global society. We believe the medical industry-government-academia collaboration will play a potent role for global health and longevity and create a more affluent society. Accordingly, IAD set up Research Center for Industry Alliances to promote research and provide education. This Center has Office of Industry Alliances as contract department or liaison and Office of Technology Transfer with intellectual property strategy.

As regards international I-U-G collaboration strategies, the organization is committed to the improvement of the quality of patent applications and to efficient technology licensing activities, as well as to the expansion of technology licensing through activities with TLOs in

and out of Japan, in addition to the technology licensing activities revolving around our collaborative associates.

With the support of this project, TMDU established Japanese Association of Medical University for Technology Transfer ("MedU-net") in 2010. MedU-net has 140 registered members as of July 19th 2011, and includes not only medical universities but also many partners in industry, including pharmaceutical companies, and government units. I-U-G has a close partnership and dialogue with "MedU-net" as they work together toward successful medical innovation through the improvement and vitalization of technology transfer.



Funding Program for Next Generation World - Leading Researchers (NEXT Program)

This program provides a research-support system for researchers who have the potential to be world leaders in their respective fields of science and technology. The Japanese government's "New Growth Strategy (Basic Policies) Toward a Radiant Japan" (Cabinet decision on December 30, 2009) calls for advancing a wide spectrum of research, from basic research that generates new sciences and technologies to current R&D that has near-future applications. By supporting the kind of cutting-edge research mandated by the New Growth Strategy, the program seeks to spur mid-to long-term S&T advancement, while contributing to the continued growth of Japan as a nation and the solution of policy-focused and societal issues.

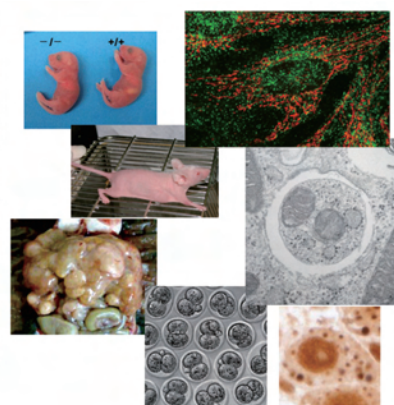
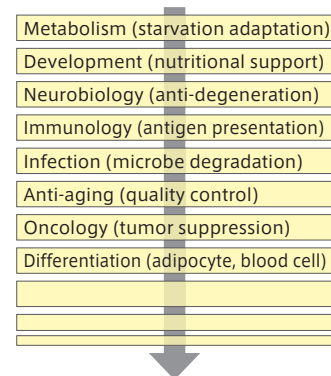
Trans-disciplinary study on the molecular mechanism and physiological role of autophagy

Principal Investigator: Noboru MIZUSHIMA, Professor of Department of Physiology and Cell Biology (Graduate School of Medical and Dental Sciences)

While all components of our bodies are constitutively synthesized, they are also constitutively degraded or eliminated. Whole organisms and even individual cells can maintain their function and freshness through recycling their own constituents (e.g. proteins and organ-

elles) and can adapt to various internal and external changes. The aim of this research is to reveal the biological significance and molecular mechanism of autophagic degradation by trans-disciplinary studies, and to provide novel concepts and therapeutic targets.

Trans-disciplinary study of autophagy

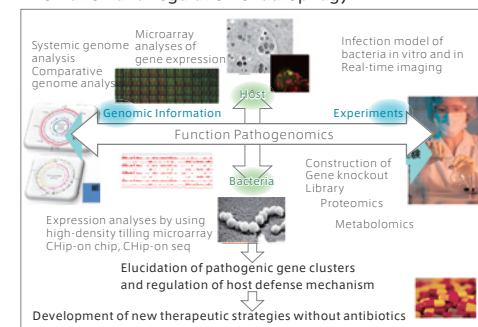


Development of a new therapeutic strategy against pathogenic bacterial infection by using genome information and regulation of autophagy

Principal Investigator: Ichiro NAKAGAWA (Medical Research Institute, Department of Stem Cell Biology)

The evolution of pathogenic bacteria is constantly occurring as they spread their habitat and adapt to new environments. In response to such environmental changes, bacterial genes have been evolving to acquire new phenotypes such as pathogenicity. Therefore, we try to clarify the evolution of pathogenic bacteria and to determine strain-specific pathogenic gene clusters by using comparative genome analysis and bioinformatics techniques. In addition, we also try to analyze the anti-bacterial effect and regulation of autophagic degradation mechanism. Our goal is to elucidate new therapeutic methods for efficient elimination of specific bacteria.

Development of new therapeutic strategies against pathogenic bacterial infection by using genome information and regulation of autophagy



Development of Postgraduate Educational Program for Mid-Level Providers (Advanced Practice Nurses) and the Innovation of a Healthcare Delivery Model

Project Director: Dr. Tomoko INOUE at Graduate School of Health Care Sciences

Healthcare in Japan has urgent issues such as the increasing incidence of lifestyle-related diseases and the lack of or uneven distribution of medical providers. Mid-level providers are the healthcare providers who are able to provide medical care independent from physicians. In other countries, advanced practice nurses (APNs) and nurse practitioners (NPs) are examples of such providers who have received graduate-level nursing education. In this project, we aim to develop APNs in our country and to propose a new healthcare system. By having ongoing discussions with related institutions,

we will identify the role and function of the APNs suitable for our country and create an educational program for developing APNs. Then, with the cooperation of partner universities overseas, we will implement an APN education program composed of on-demand lectures and small group lab sessions using the "Train-the-Trainers Approach", with current certified nurse specialists (CNSs) as prospective students. Through this project, we hope to pursue a new interdisciplinary approach and to propose the creation of a new healthcare industry.



Clinical laboratory with a high-performance simulator



With the dean and a lecturer at a partner overseas university

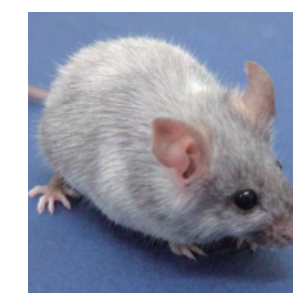
Elucidation of the mechanisms of hair follicle ageing by focusing on stem cells

Principal Investigator: Emi NISHIMURA (Medical Research Institute, Department of Stem Cell Biology)

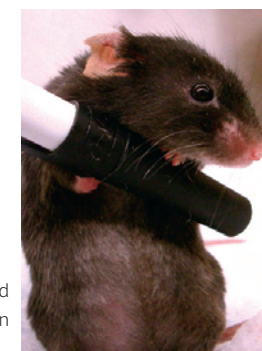
In this ageing society, treatment and prevention of ageing-related diseases such as cancer has become a serious and important issue. However, the underlying mechanisms leading to ageing-associated tissue changes and the contribution of those changes to the diseases are still largely unknown. We previously identified melanocyte stem cells in mammalian hair follicles as a reservoir for melanocytes which produce melanin pigment for hair pigmentation. Then we found that incomplete maintenance of this cell population causes hair graying, the most obvious sign of ageing in human.

To understand the cellular and molecular mechanisms of hair graying and hair loss, we will focus on ageing-associated changes in melanocyte stem cells and hair follicle stem cells in mice to determine the underlying mechanisms of age-associated tissue changes and the mechanisms of stem cell maintenance which

sustain young tissue homeostasis. Our approach will reveal the precise regulatory mechanisms of tissue stem cells that are essential for regenerative medicine and also give some clues to develop new therapeutic strategies for the prevention of cancer and other age-associated diseases.



Hair graying induced by ionizing irradiation



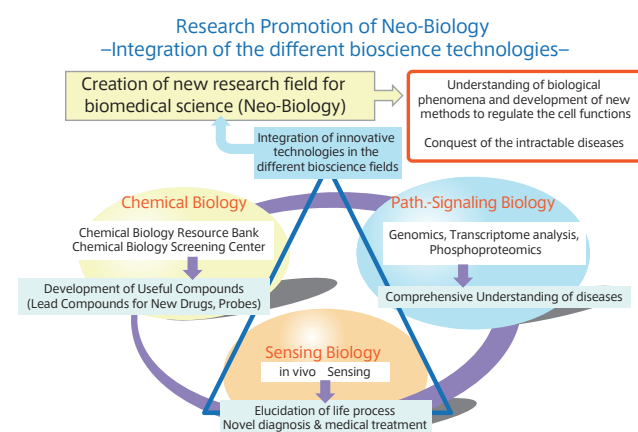
Hair graying and hair loss in an aged mouse

Special Funds for Education and Research

Research Promotion of Neo-biology –Integration of different bioscience technologies–

Principal Investigator: Yoshio MIKI, MD, PhD (Professor, Medical Research Institute)

It is necessary to investigate life sciences by innovative technology from a wide viewpoint covering “a biological molecule”, “a cell”, and “an individual” for the understanding of various biomedical phenomena and the development of novel medical treatments for diseases. Three precedent projects (Path.-Signaling Biology Research Program, Research Promotion of Chemical Biology and Research Project of Sensing Biology) were integrated into the project “Research Promotion of Neo-Biology” to enable cooperation between different bioscience fields. We are promoting the research of the new life science field of neo-biology and aim at the elucidation of cell functions and the development of methods to regulate these functions in “Research Promotion of Neo-Biology.”



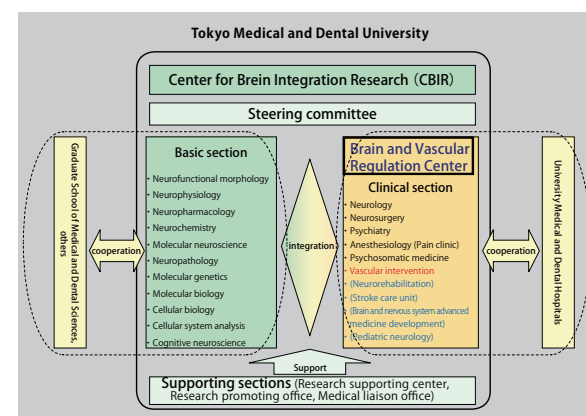
Development of the Brain and Vascular Regulation Center

Principal Investigator: Hidehiro MIZUSAWA, MD, PhD (Director, Center for Brain Integration Research)

At TDMU, there has long been a tradition of brain and nervous system science as shown by the awarding of a five year grant under the the 21st century COE (Center of Excellence) program "Brain Integration and its Disorders" (2003-2007). TMDU established the Center for Brain Integration Research (CBIR) in 2007 to follow the great success of the COE program. The mission of CBIR is to overcome diseases of the brain and nervous system by integrating basic and clinical neurosciences.

In 2008, upon application by TMDU, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) approved the establishment of a new Department of Vascular Intervention and the formation of the Brain and Vascular Regulation Center as the clinical section of

CBIR, to which Department of Neurology, Department of Neurosurgery, Department of Psychiatry, Department of Anesthesiology (Pain Clinic) as well as Department of Vascular Intervention belong.



SRPBS (Strategic Research Program for Brain Science) Field E “Understanding molecular and environmental bases for brain health”

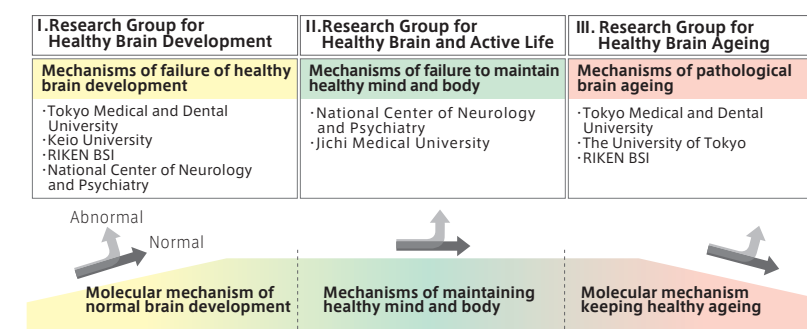
Elucidation of molecular bases, environmental factors and their organization in the brain, enabling lifelong mental and physical health

Field leader: Hidehiro Mizusawa, MD, PhD, Department of Neurology and Neurological Science Graduate School of Medical and Dental Science Tokyo Medical and Dental University

There is growing expectation from society for brain science to overcome the various problems that our modern aging, diversifying, and complicated society faces. Therefore, the Ministry of Education, Culture, Sports, Science and Technology, Japan decided to promote the Strategic Research Program for Brain Science (SRPBS) for the benefit of society. Field E works on molecular bases and environmental factors to enable the brain to maintain lifelong mental and physical health.

In order to make this magnificent project succeed, 3 research groups were formed. The healthy development group investigates the organization of the cerebral cortex, hippocampus, amygdala,

thalamus and hypothalamus, which are related to developmental disorders, by studying phenotypes, molecular pathology and environmental effects on mouse models. The active life group handles depression, sleep disorders, eating disorders and so on in order to elucidate molecular bases for environmental stresses that destroy the homeostasis of the mind and body. The healthy aging group investigates the molecular bases and environmental factors of normal and pathological aging, including dementia and cerebellar ataxia. Overall, and in detail, influences from lifestyle-related diseases to normal and pathological aging of the cerebrum and cerebellum are studied precisely.



Other Current Projects

Strategic Basic Research Programs JST (CREST)

Analysis of Molecular and Cellular Basis of Synapse-Glia-D-Serine System Dysfunction in Schizophrenia toward the Development of Novel Strategies for its Diagnosis and Treatment

Toru Nishikawa, M.D., Ph.D. (Professor, Graduate School of Medical and Dental Sciences)

Novel mechanisms of allergy and its regulation

Hajime Karasuyama, M.D., Ph.D. (Professor, Graduate School of Medical and Dental Sciences)

Research on developing diagnosis and therapy of Purkinje cell degeneration based on its molecular pathogenesis

Hidehiro Mizusawa, M.D., Ph.D. (Professor, Graduate School of Medical and Dental Sciences)

Strategic Basic Research Programs JST (ERATO)

Takayanagi Osteonetwork

Principal Investigator: Hiroshi Takayanagi, M.D., Ph.D. (Professor, Graduate School of Medical and Dental Sciences)

International Exchange

In April 2009, the TMDU International Student Center (ISC) was reorganized, given many new responsibilities, and rechristened as the "International Exchange Center", or IEC. One of the newly assumed tasks of the IEC is to facilitate and coordinate the international activities of the various divisions of the university. While each division of TMDU has been actively engaged in international exchange in the past decade, it was decided that it was now necessary to set up unified procedures and promote coordination for the most effective implementation of our international endeavors. The IEC is thus expected to set up a system which will enable the leadership of the university to readily use and refer to necessary information on international activities as part of their decision-making.

Our international student alumni are very important to TMDU for this project, since they have a very good understanding of TMDU and now play a key role in the development of medical services in their home country. Unfortunately we lose contact with some of our alumni, so

the IEC has begun to form an international alumni database. This informational infrastructure will also be conducive to helping set up or support TMDU Alumni organizations around the world.

Encouraging promising students and young researchers to attend TMDU is another important activity of the IEC. We organized our first International Summer Program (ISP) in September 2009, and, at this writing, are just about to host the third one, ISP2011. We will continue to organize future ISPs so as to support TMDU's efforts to appeal to young people around the world. The IEC will also continue its effort to establish a comprehensive support system for international students: more detailed information before coming to Japan; counseling and guidance during the period of study in Japan; and follow-up after going back to their own country.

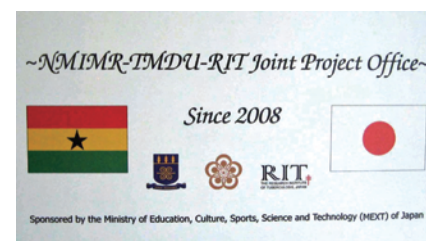
We are now located in Building No.1 West 4F and as always greatly appreciate the support that the related divisions of the university have given us as we strive to accomplish our new mission.

Research Collaboration of Tokyo Medical and Dental University and Noguchi Memorial Institute for Medical Research for Infectious Diseases in Ghana

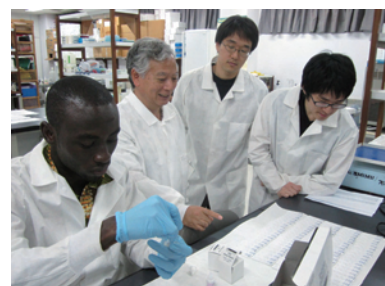
A Stage for "Hideyo Noguchis" in the 21st Century

Three years has passed since the launch of the Ghana-Tokyo Medical and Dental University (TMDU) Research Collaboration Program at the Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana. The aims of this project are not only the implementation of research collaboration, but also the development of individuals through the mutual exchange of researchers. Our project in Ghana is now one of the core international exchange activities of TMDU. TMDU has dispatched two researchers to NMIMR; one for virology and other for parasitology. Virology research activities include the monitoring of

drug efficacy in Ghana after the WHO's recommendation as well as research on the molecular evolution of HIV. Regarding parasitology research, analysis of new drug targets of African trypanosomiasis and construction of an epidemiological platform of parasitic infections in West Africa are the main subjects. In 2010, a new program enabled the dispatch of medical students to NMIMR for their Project Semester. Although they can stay only a short time, it is expected that they will make great strides in the achievement of one of the missions of TMDU, namely, to train medical professionals with a rich international quality.



Door sign of the joint project office at NMIMR



Project semester of 4th-year TMDU medical students in Ghana



At a dinner hosted by President Ohyama (from left): Moriguchi, Deputy Education; N. Kusi, Chief Director, Ministry of Finance; Katayama, Ghana Ambassador; C.N.B. Tagoe, Vice Chancellor, University of Ghana, and President Ohyama

Latin American Collaborative Research Center (LACRC), Santiago, Chile

Support for a Chilean National Public Health Program of Colorectal Cancer Screening

TMDU and Clinica Las Condes (CLC), a renowned clinic in Chile that has been tackling the public health problem of an increasing mortality rate of colorectal cancer in the country, agreed in 2009 to establish clinical, scientific and academic collaboration between the two institutions. On July 15, 2009, TMDU, CLC and the Ministry of Health of Chile concluded a Memorandum of Understanding (MOU) relating to the said collaboration.

In accordance with the agreement, TMDU and CLC established the "Latin American Collaborative Research Center (LACRC)" in April 2010. LACRC will promote education, research and medical training in Latin American countries.

LACRC's activities will have the following specific purposes:

1) Achieve a reduction of colorectal cancer mortality both in Chile and other Latin American countries. Over a period of 15 years, TMDU held a training course for doctors in the region on the early detection, diagnosis and treatment of colorectal cancer in Latin America. Building on this experience, TMDU will support the holding of lectures, the provision of education and the accomplishment of research in CLC's "National Screening Program for Colorectal Tumors," a program which will be carried out in the coming five years.

2) Develop clinical and scientific cancer research through interdisciplinary collaboration, using materials and databases obtained from community-based projects. The collaborative research activities will include basic medical research in the use of genetic precursors in diagnostic work as well as clinical research in the pathological anatomy of malignant and pre-malignant colon lesions.



At the signing ceremony, Dr. Takashi Ohyama [TMDU President], Sr. Alfredo Schonerr [CLC CEO] and Dr. Julio Montt Vidal [Vice Minister of Health, Chile]

Opening of the "CU-TMDU Research and Education Collaboration Center" in Thailand

On November 23, 2010, the opening ceremony of the "CU-TMDU Research and Education Collaboration Center" took place. Nearly 100 delegates and honorary guests attended the ceremony. After the introduction of the background and expected roles of CU-TMDU center, Prof. Pirom Kamolratanakul (President of CU) and Prof. Takashi Ohyama (President of TMDU) delivered a memorial opening speech. Mr. Seiji Kojima (Ambassador Extraordinary and Plenipotentiary of Japan to the Kingdom of Thailand) and Mr. Torajiro Ohashi (President of the Thai Japanese Association) also made speeches of celebration and expectation for the center on behalf of Japanese nationals who live in Thailand. The last speaker was Dr. Sucont Chareonvit, a representative of TMDU alumni. Distinguished guests, such as deans of other Thai dental universities, representatives of governmental, academic and private institutes attended the ceremony. More than 20 TMDU alumni, who are currently academic staff members at CU, also participated in the ceremony. Both presidents performed a ribbon-cutting ceremony together in front of the entrance, following which all the participants entered the room and observed the facilities of the center.

CU-TMDU Research and Education Center is the first overseas office in Southeast Asian Region. We hope this center will contribute to the establishment of medical and dental health care networks as well as an international research and education hub in Southeast Asia.



Ribbon-cutting ceremony by Prof. Pirom Kamolratanakul (President of CU) and Prof. Takashi Ohyama (President of TMDU)



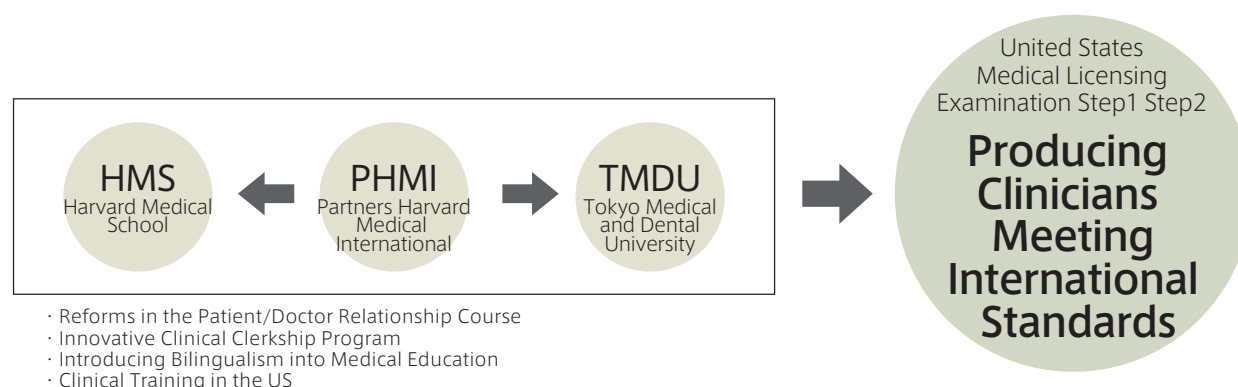
TMDU alumni who are currently academic staff members at CU

Tokyo Medical and Dental University and Partners Harvard Medical International, Inc. Alliance for Medical Education

Since 2002, TMDU has cooperated with Harvard Medical International, Inc. (Partners Harvard Medical International, Inc. since 2008) and implemented wide-ranging reforms into our medical education. One of the chief aims of this alliance is to create a new model of medical education in Japan in order to meet various challenges we face in the 21st century. Partnering with PHMI, closely related to Harvard Medical School, TMDU has introduced new ideas and approaches into its curriculum, including patient-doctor relationship courses, hybrid programs integrating basic science and clinical studies, and innovative clinical clerkship programs.

The alliance with PHMI also provides TMDU students with a chance to take part in a clinical clerkship at Harvard Medical School. As a part of a recent curriculum reform, TMDU introduced the Harvard Medical School Externship program in 2004. The students who pass the selection process go through nine months of preparatory training then take part in clinical clerkships at Harvard Medical

School. They stay in Boston for three months and take three, four-week elective clerkship rotations. Harvard Medical School provides exchange students from all over the world with a chance to experience the same clinical training as Harvard students at HMS affiliated teaching hospitals. Working hard with talented and enthusiastic students of HMS and other elite medical schools, TMDU students can develop their clinical skills and get a better understanding of the American healthcare system as well as acquire an international way of thinking.



Student exchange programme between Faculty of Medicine, Graduate School, Tokyo Medical and Dental University and Faculty of Medicine, Imperial College of Science, Technology and Medicine

Imperial College

Imperial College London is a science-based university founded in 1907, and its main campus is located in South Kensington in London. It has Faculties of Engineering, Medicine, and Natural Sciences, as well as a School of Business. Imperial has long enjoyed a high reputation and is consistently rated among the world's top universities, placing 3rd in university rankings in the United Kingdom, and 5th in rankings of universities worldwide.

Exchange Program

The exchange program between TMDU and Imperial College London was launched in 2004. This program provides students with a chance to gain firsthand experience doing world-class research. Credits attained by students at the host institution can be transferred to their home institution. Participants are provided with accommodations and are exempt from tuition fees at the host institution. Participants can enjoy strong and warm support during their stay. The past six years have proved that students can gain valuable experience through this exchange program, which has led this program to become very popular and competitive.

From Tokyo to London

TMDU students passing the selection process spend the second semester of their fourth year at Imperial College. About four students a year are accepted; twenty-four students have taken part in the program over the last five years. The students undertake research topics under the supervision of a faculty member. New opportunities are being introduced: the participants will have a chance to visit affiliated hospitals with Imperial and be admitted to up to ten lectures related to their research topics.

From London to Tokyo

As partial fulfillment of the BSc degree at Imperial College, each student undertakes a three-month research project. About four Imperial students, selected by their school, undertake research at TMDU every year; 26 Imperial students have participated in this program by 2011. They stay in Tokyo from February to May and are offered a very wide range of research topics. Each of the twenty departments of the Graduate School of Medicine at TMDU suggest one to three projects, from which Imperial students can choose a topic they are most interested in.



President Ohyama and TMDU-Imperial College exchange students



Imperial College students, their TMDU mentors, and the then-Dean of the Faculty of Medicine, Kikuo Ohno.

Tokyo Medical and Dental University and
Partners Harvard Medical International, Inc. Alliance for Medical Education

Nations /Area	Universities
United States of America	Partners Harvard Medical International

Overseas Affiliated Universities/Inter-Faculty Agreements

Graduate School of Medical and Dental Sciences (Medical Division) / Graduate School of Health Care Sciences / Faculty of Medicine

Nation / Area	University	Nation / Area	University
Republic of Finland	Seinajoki University of Applied Sciences University of Tampere Department of Nursing Science	Kingdom of Thailand	Faculty of Medicine, Chulalongkorn University
United States of America	University of Washington School of Nursing University of Colorado Denver College of Nursing	Republic of Ghana	Noguchi Memorial Institute for Medical Research
United Kingdom of Great Britain and Northern Ireland	Imperial College London Faculty of Medicine The University of Sheffield School of Nursing and Midwifery	Taiwan	National Yang Ming University
		People's Republic of China	Tianjin Medical University

Graduate School of Medical and Dental Sciences (Dental Division) / Faculty of Dentistry

Nation / Area	University	Nation / Area	University
Republic of Korea	College of Dentistry, Seoul National University School of Dentistry, Kyungpook National University School of Dentistry, Chonnam National University	Union of Myanmar	Institute of Dental Medicine, Yangon
Kingdom of Thailand	Faculty of Dentistry, Chulalongkorn University Faculty of Dentistry, Mahidol University Faculty of Dentistry, Chiang Mai University Faculty of Dentistry, Prince of Songkla University Faculty of Dentistry, Khon Kaen University Faculty of Dentistry, Naresuan University Faculty of Dentistry, Srinakharinwirot University	Socialist Republic of Vietnam	Faculty of Odonto-Stomatology, The University of Medicine & Pharmacy at Ho Chi Minh City University of Odonto-Stomatology, Hanoi
People's Republic of China	College of Stomatolgy, Jilin University Stomatology College of Dalian Medical University School of Stomatology, Peking University School of Stomatology, Capital Medical University Tongji University, School of Stomatology, Inner Mongolia Medical College	Mongolia	School of Dentistry, Health Sciences University of Mongolia
Taiwan	College of Oral Medicine, Taipei Medical University School of Dentistry, College of Medicine, National Taiwan University, College of Dental Medicine, Kaohsiung Medical University	Democratic Socialist Republic of Sri Lanka	Faculty of Dental Sciences, University of Peradeniya
Republic of Indonesia	Faculty of Dentistry, University of Indonesia	Kingdom of Cambodia	Faculty of Odonto-Stomatology, University of Health Sciences, Phnom Penh Cambodia
Republic of Singapore	Faculty of Dentistry, National University of Singapore	Lao People's Democratic Republic	Faculty of Medical Sciences, National University of Laos
Malaysia	Faculty of Dentistry, University of Malaya	Republic of the Philippines	College of Dentistry, University of the Philippines Manila
Kingdom of Denmark	School of Dentistry, Faculty of Health Sciences, University of Copenhagen	United Kingdom of Great Britain and Northern Ireland	King's College London Dental Institute
		Federal Republic of Germany	Charité-University Medicine Berlin
		Czech Republic	Masaryk University, Faculty of Medicine
		United States of America	School of Dental Medicine, University of Pennsylvania Harvard School of Dental Medicine School of Dentistry, University of North Carolina at Chapel Hill School of Dentistry, University of California San Francisco
		Canada	Faculty of Dentistry, McGill University
		Australia	School of Dental Science, Faculty of Medicine, Dentistry and Health Sciences, The University of Melbourne

Institute of Biomaterials and Bioengineering

Nation / Area	University
United Kingdom of Great Britain and Northern Ireland	Bioengineering Unit, University of Strathclyde Interdisciplinary Research Centre in Biomedical Materials and Science, Queen Mary and Westfield College, University of London
Kingdom of Sweden	Department of Biomedical Engineering, Linköping University

Medical Research Institute

Nation / Area	University
Republic of Singapore	Oncology Research Institute, National University of Singapore
United States of America	Massachusetts General Hospital
Kingdom of Thailand	Faculty of Dentistry, Chulalongkorn University
French Republic	École Normale Supérieure de Lyon

Biomedical Science PhD Program / Graduate School of Biomedical Science / Medical Research Institute

Nation / Area	University
Republic of Poland	Medical University of Gdansk
Federal Republic of Germany	Deutsches Rheuma-Forschungszentrum Berlin Humboldt-Universität zu Berlin
People's Republic of China	School of Basic Medical Sciences, Peking University Health Science Center China Medical University
Socialist Republic of Vietnam	University of Hanoi Medical University, Hanoi

Number of International Students

(as of May1, 2011)

Classification		Graduate Students						Undergraduate Students				Research Students								Japanese Language Course Students	Subtotal		Total
		Graduate School of Medical and Dental Sciences		Graduate School of Health Care Sciences		Biomedical Science PhD Program		Faculty of Medicine		Faculty of Dentistry		Faculty of Medicine		Faculty of Dentistry		Institute of Biomaterials and Bioengineering		Medical Research Institute		International Exchange Center	National Expense	Private Expense	
Country/Area																							
Asia	Korea		2				1							1							0	4	4
	China	5	59				5	11		3		2		3		2			2		10	82	92
	Mongolia		2				1						1								0	4	4
	Philippines	2																	1		3	0	3
	Indonesia	5																	1		6	0	6
	Singapore					1															1	0	1
	Vietnam	3					1														3	1	4
	Laos	1																			1	0	1
	Cambodia	2																	1		3	0	3
	Malaysia		1			1															1	1	2
	Thailand	16	2					1						1					1	18	3		21
	Myanmar		4				1												1		1	5	6
	Nepal		1				2														0	3	3
	Bangladesh	9	7																		9	7	16
	India	3	6																		3	6	9
	Sri Lanka	4	1																		4	1	5
	Pakistan					1															1	0	1
	Iran	1	2			1															2	2	4
	Iraq	1	1																		1	1	2
	Jordan	4																			4	0	4
	Saudi Arabia		3																		0	3	3
Afghanistan	1																			1	0	1	
Taiwan		2																		0	2	2	
Europe	Slovakia	1																			1	0	1
Africa	Egypt	2	1																		2	1	3
	Tanzania	2																			2	0	2
	Ghana	2																			2	0	2
The Americas	Canada					1															1	0	1
	Brazil																1				1	0	1
	Paraguay	1																			1	0	1
	Honduras	1																			1	0	1
	Venezuela	1																			1	0	1
Oceania	Fiji	1																			1	0	1
Subtotal		68	94	0	0	10	17	1	3	0	2	0	4	0	4	0	0	1	2	5	85	126	211
Grand Total		<div><div>National Expense 78</div><div>Private Expense 111</div></div>						<div><div>National Expense 1</div><div>Private Expense 5</div></div>				<div><div>National Expense 1</div><div>Private Expense 10</div></div>						<div>National Expense 5</div>	211				
		189						6				11						5					

Statistics

Number of Staff Members

(as of May 1, 2011)

Classification	Director	Academic Staff					Other Staff				Total
		Professor	Associate Professor	Junior Associate Professor	Assistant Professor	Subtotal	Clerk	Co-medical	Nurse	Subtotal	
President	1										1
Trustee	5										5
Auditor	2(1)										2(1)
Inspection Office							2			2	2
Administration Bureau							156			156	156
Graduate School of Medical and Dental Sciences		78	51	38	151	318					318
Graduate School of Health Care Sciences		16	9	2	14	41					41
Graduate School of Biomedical Science		6	5		1	12					12
Faculty of Medicine							67	7		74	74
University Hospital of Medicine		1	7	33	99	140	4	107	689	800	940
Faculty of Dentistry		8	2	8	2	20	25	4		29	49
University Hospital of Dentistry			4	13	22	39		55	56	111	150
College of Liberal Arts and Sciences		9	8	1	2	20	5			5	25
Institute of Biomaterials and Bioengineering		10	7	1	15	33	6			6	39
Medical Research Institute		16	22	2	20	60	11			11	71
Institute for Library and Media Information Technology		1			1	2	11			11	13
Center for Education Research in Medicine and Dentistry		2	1	1		4					4
Research Center for Medical and Dental Sciences		1	2	1	2	6	2			2	8
Center for Experimental Animal		1			2	3					3
International Exchange Center			4			4	4			4	8
Life Science and Bioethics Research Center		1		2	1	4					4
Center for Interprofessional Education			1	1		2					2
Health Service Center		1	1			2			1	1	3
TMDU Research Organization			1			1	8			8	9
Center for Brain Integration Research			2			2					2
Number of Staff Members	8(1)	151	127	103	332	713	301	173	746	1,220	1,941(1)

* Note: The numbers in parentheses () indicate part-time directors.

Number of Graduate Students

(as of May 1, 2011)

Graduate School of Medical and Dental Sciences

Specialized Courses	Capacity of Admission	Total Capacity	Master's Program			Doctoral Program					Total
			1st year	2nd year	Subtotal	1st year	2nd year	3rd year	4th year	Subtotal	
Medical and Dental Sciences	50	100	52 25	53 30	105 55						105 55
Medical and Dental Sciences(MMA Course)	15	25	17 6	12 7	29 13						29 13
Oral Health Sciences	45	171				51 <3>	28 <7>	62 <5>	30 <24>	219 <108>	219 108
Maxillofacial/Neck Reconstruction	26	116				19 <1>	9 <0>	27 <1>	6 <13>	114 <37>	114 37
Bio-Matrix	15	69				12 <2>	4 <0>	16 <2>	7 <7>	62 <26>	62 26
Public Health	19	79				31 [5]	12 <20>	9 <5>	6 <16>	108 [20]	108 43
Gerontology and Gerodontology	16	46				19 9	13 5	16 6	24 6	72 26	72 26
Comprehensive Patient Care	9	33				13 9	9 6	1 1	14 7	37 23	37 23
Cognitive and Behavioral Medicine	17	74				12 5	15 5	13 5	21 4	61 19	61 19
Bio-Environmental Response	15	66				12 6	16 6	11 6	11 6	50 24	50 24
Systemic Organ Regulation	29	116				39 12	36 9	31 3	50 14	156 38	156 38
Advanced Therapeutical Sciences	23	86				11 4	14 5	23 7	41 15	89 31	89 31
Subtotal	279	981	69 31	65 37	134 68	219 98	228 88	216 77	305 112	968 375	1,102 443

Graduate School of Health Care Sciences

Specialized Courses	Capacity of Admission	Total Capacity	Master's Program			Doctoral Program					Total
			1st year	2nd year	Subtotal	1st year	2nd year	3rd year	4th year	Subtotal	
Comprehensive Health Nursing Sciences	17 8	34 24	20 16	24 21	44 37	11 9	12 11	34 33		57 53	101 90
Biomedical Laboratory Sciences	12 6	24 18	13 11	13 5	26 16	6 4	5 3	8 6		19 13	45 29
Subtotal	29 14	58 42	33 27	37 26	70 53	17 13	17 14	42 39		76 66	146 119

Biomedical Science PhD Program

Specialized Courses	Capacity of Admission	Total Capacity	Master's Program			Doctoral Program					Total
			1st year	2nd year	Subtotal	1st year	2nd year	3rd year	4th year	Subtotal	
Bioinformatics	21 8	42 23	22 (2)	10 8 (4)	43 (6)	12 (4)	6 (2)	4 (0)	2 (5)	29 (6)	72 (12)
Functional Biology	24 7	48 20	28 (2)	14 28 (1)	9 56 (3)	7 (0)	0 (0)	16 (8)	10 (2)	33 (2)	89 (5)
Subtotal	45 15	90 43	50 24	49 17	99 41	19 6	20 10	23 11		62 27	161 68

Grand total (Master's Program / Doctor's Program)	Capacity of Admission	Total Capacity	Master's Program			Doctoral Program					Total
			1st year	2nd year	Subtotal	1st year	2nd year	3rd year	4th year	Subtotal	
	279	981	69 31	65 37	134 68	219 <6>[5]	98 <7>[5]	228 <8>[5]	216 <26>[5]	77 <20>	1,102 <26>[20]
Grand total (Master's Program / Doctor's Program)	103	233	83 (4)	51 86 (5)	43 169 (9)	36 (4)	19 37 (2)	24 65 (2)	50	138 (8)	307 (17)

* Note 1: The numbers in red indicate female graduate students.
* Note 2: The numbers in angle brackets < > indicate Advanced Oral Science International Program Students.
* Note 3: The numbers in brackets [] indicate International students in the Graduate Public Health Leader Course.
* Note 4: The numbers in parentheses () indicate Biomedical Science International Education Program students.

Grand Total 1,409 <26> [20] (17) 630

Number of Undergraduate Students

(as of May 1, 2011)

		Capacity of Admission	Total Capacity	1st year	2nd year	3rd year	4th year	5th year	6th year	Total
School of Medicine		100 <5>	525	103 31	97 33	94 29 [5] [1]	80 28 [6] [1]	93 16 [7] [0]	86 24 [5] [3]	553 161 [23] [5]
School of Health Care Sciences	Nursing Science	55	220	60 57	54 50	55 54	55 53			224 214
	Medical Technology	35	140	38 27	35 30	35 28	33 28			141 113
	Subtotal	90	360	98 84	89 80	90 82	88 81			365 327

		Capacity of Admission	Total Capacity	1st year	2nd year	3rd year	4th year	5th year	6th year	Total
School of Dentistry		53	358	53 25	61 22	56 23 [1] [1]	57 28 [7] [4]	70 30 [8] [6]	63 33 [11] [10]	360 161 [27] [21]
School of Oral Health Care Sciences	Oral Health Care Sciences	22 <6>	115	23 23	28 27	34 34 [6] [6]	31 29 [6] [6]			116 113 [12] [12]
	Oral Health Engineering	10 (5)	10	11 4	0 0	0 0	0 0			11 4
	Subtotal	32	125	34 27	28 27	34 34	31 29			127 117

	Capacity of Admission	Total Capacity	1st year	2nd year	3rd year	4th year	5th year	6th year	Total
Grand total	275	1,368	288 167	275 162	274 168 [12] [8]	256 166 [19] [11]	163 46 [15] [6]	149 57 [16] [13]	1,405 766 [62] [38]

* Note 1: The numbers in red indicate female students.
* Note 2: The numbers in angle brackets < > indicate the maximum number of students who can transfer into the third-year program from other institutions. They are not included in the numbers above them.
* Note 3: The numbers in brackets [] indicate the students transferring into the third-year program from other institutions.

Research Students

Classification		Male	Female	Total
Faculty of Medicine	School of Medicine	6	12	18
	School of Health Care Sciences	2	10	12
Faculty of Dentistry	School of Dentistry	102	96	198
	School of Oral Health Care Sciences	1	3	4
Institute of Biomaterials and Bioengineering		4	0	4
Medical Research Institute		4	2	6
Total		119	123	242

Degrees Conferred

(as of May 1, 2011)

		Doctor				
Classification	Doctor	Philosophy in Medical Science	Philosophy in Dental Science	Philosophy	Nursing Science	Medical Laboratory Science
Fiscal year 2010		94	46	14	4	0
Total		1,726	1,953	129	78	44
		Philosophy in Bioinformatics	Philosophy in Functional Biology	Philosophy in Biomedical Science	Philosophy in Science	Philosophy in Engineering
		0	1	1	15	1
		1	1	1	57	1

Granted by Merit of Thesis

Classification	Doctor				
	Philosophy in Medical Science	Philosophy in Dental Science	Philosophy	Nursing Science	Medical Laboratory Science
Fiscal year 2010	36	23	1	1	1
Total	1,749	507	22	11	13

Master's Programs

Classification	Master					
	Medical Science	Dental Science	Medical Administration	Medical Administration	Nursing Science	Medical Laboratory Science
Fiscal year 2010	45	2	7	9	18	15
Total	318	9	60	60	258	220
		Bioinformatics	Functional Biology	Biomedical Science	Science	Engineering
		4	1	1	35	2
		7	2	6	213	2

Educational Facilities

(as of May 1, 2011)

Enrollment

School			Total	
	1st year	2nd year		
School of Dental Technologists	0 0	20 9	20	9
Special Training Course of School of Dental Technologists	9 4	10 6	19	10
Total	9 4	30 15	39	19

* Note 1: The numbers in red indicate female students.

Grants-in-Aid for Scientific Research (Fiscal Year 2011) (as of May 1, 2011)

Categories for Research	Number	Amount (in thousands of yen)
Grant-in-Aid for Scientific Research on Priority Areas	9	43,000
Grant-in-Aid for Challenging Exploratory Research	64	120,770
Grant-in-Aid for Young Scientists (A)	9	89,050
Grant-in-Aid for Young Scientists (B)	162	275,210
Grant-in-Aid for JSPS Fellows	41	34,100
Grant-in-Aid for Scientific Research (S)	2	115,050
Grant-in-Aid for Scientific Research (A)	16	191,620
Grant-in-Aid for Scientific Research (B)	52	296,530
Grant-in-Aid for Scientific Research (C)	156	240,500
Grant-in-Aid for Research Activity Start-up	13	18,928
Grant-in-Aid for Scientific Research on Innovative Areas	35	411,970
Grant-in-Aid for Encouragement of Scientists	3	1,800
Total	562	1,838,528

The number of grants and their budgets are listed as of 28 April.

Entrusted Research Funds (Fiscal Year 2010)

Categories for Research Funds	Number of Projects	Amount (in thousands of yen)
Entrusted Research	121 (36)	1,489,334 (395,308)
Cooperative Research	139 (75)	354,582 (104,949)
Donation for Promotion of Learning	813	1,290,589
Total	1,073	3,134,505

* A multi-year contract means the research was conducted for more than two years including the fiscal year 2009.
The "Amount" is the sum of all the money entrusted to the projects in the fiscal year 2009.
* Figures in parentheses indicate values related to multi-year projects.

Grants-in-Aid for Scientific Research from Ministry of Health, Labour and Welfare (as of May 1, 2011)

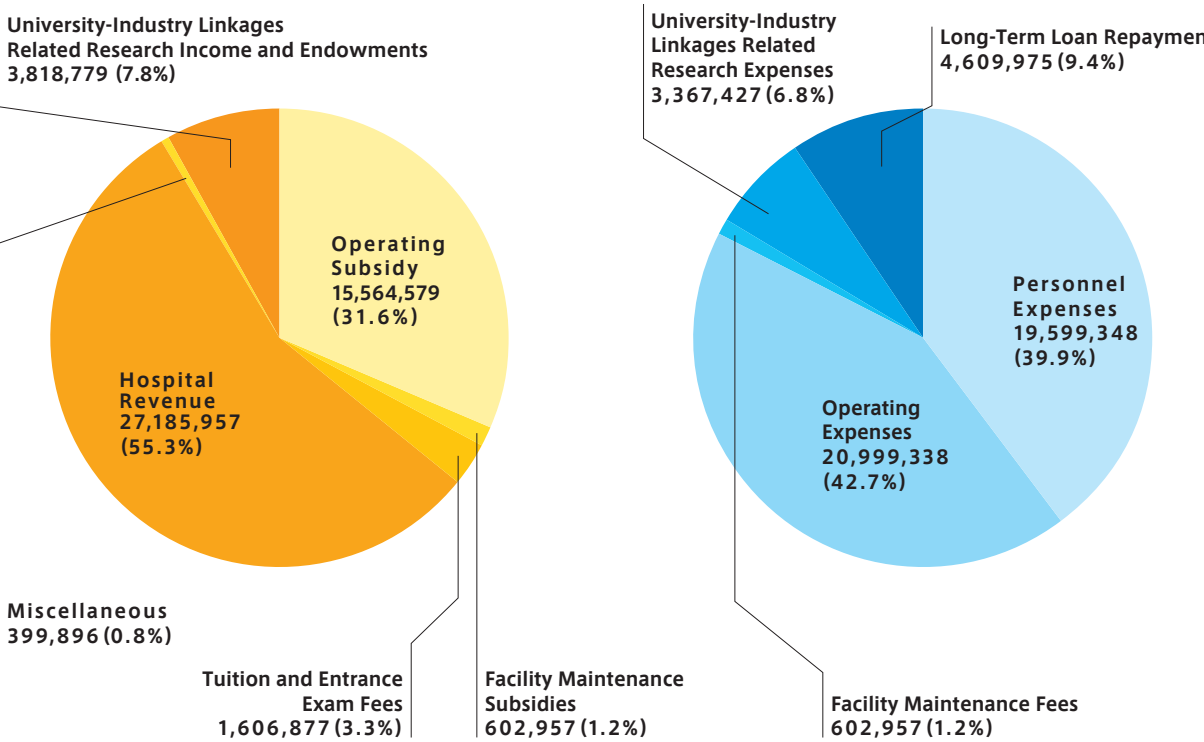
Categories for Research	Number of Projects	Amount (in thousands of yen)
Research on Policy Planning and Evaluation	2	43,004
Research on Statistics and Information	2	4,504
Research on Publicly Essential Drugs and Medical Devices	1	4,000
Research on Intractable Diseases	10	205,000
Comprehensive Research on Aging and Health	1	24,135
Comprehensive Research on Disability Health and Welfare	3	28,388
Research on Region Medical	5	36,094
Research on Regulatory Science of Pharamaceuticals and Medical Devices	1	5,400
Research on Health Security Control	1	4,200
Research on Regenerative Medicine for Clinical Application	2	92,950
Research on HIV/AIDS	2	16,310
Comprehensive Research on Life-Style Related Disease including Cardiovascular Deseases and Diabetes Mellitus	1	8,534
Research on Global Health Issues	1	20,000
Research on Allergic Disease and Immunology	1	39,000
Total	33	531,519

Endowed Departments (as of May 1, 2011)

Departments/Institutes	Endowed Departments	Term	Donor
Graduate School of Medical and Dental Sciences	Department of Pharmacovigilance	H17.4.1 - H25.3.31	Mitsubishi Tanabe Pharma Corporation / Wyeth K.K. / Takeda Pharmaceutical Co., Ltd. / Abbott Japan Co., Ltd. / Eisai Co., Ltd. / Chugai Pharmaceutical Co., Ltd. / Bristol-Myers K.K.
	Department of Nanomedicine	H17.4.1 - H25.3.31	Dai Nippon Printing Co., Ltd.
	Department of Translational Oncology	H17.10.1 - H23.9.30	Taiho Pharmaceutical Co., Ltd.
	Department for Hepatitis Control	H18.4.1 - H24.3.31	MSD K.K.
	Department of Advanced Therapeutics for GI Diseases	H19.4.1 - H27.3.31	Kyorin Pharmaceutical Co.,Ltd. / Asahi Kasei Medical Co., Ltd. / Ajinomoto Pharma Co., Ltd. / UCB Japan Co., Ltd. / Otsuka Pharmaceutical Co., Ltd. / Eisai Co., Ltd. / JIMRO Co., Ltd. / Zeria Pharmaceutical Co., Ltd. / Mitsubishi Tanabe Pharma Corporation/ Abbott Japan Co., Ltd. / Kyowa Hakko Kirin Co., Ltd.
	Development Division of Advanced Orthopaedic Therapeutics	H19.8.1 - H24.3.31	Hoya Corporation / Medtronic Sofamor Danek, Co., Ltd. / Stryker Japan K.K. / Itoh Medical, Inc. / Teijin Pharma Limited
	Department of Cartilage Regeneration	H18.6.1 - H24.5.31	Zimmer K.K. / Japan Medical Materials Corporation
	Department of Sleep Modulatory Medicine	H21.6.1 - H24.5.31	Fukuda Denshi Co., Ltd. / Teijin Home Healthcare Limited / GlaxoSmithKline Co., Ltd. / Philips Respironics GK
	Department of Pediatrics, Perinatal and Maternal Medicine	H22.4.1 - H26.3.31	Ibaraki Prefecture
	Department of Community Pediatric Health Science	H22.4.1 - H25.3.31	Tokyo Metropolitan Government
	Department of Chronic Kidney Disease	H22.4.1 - H25.3.31	Chugai Pharmaceutical Co., Ltd.
Medical Research Institute	Section of Joint Reconstruction	H23.5.1 - H25.4.30	Biomet Japan,Inc / Johnson & Johnson K.K.
	Department of Organ Network and Metabolism	H23.4.1 - H26.3.31	Shionogi & Co.,Ltd.

Finances (2011 Fiscal Year Budget) The numbers in the pie-charts represent thousands of yen

■ Total Income 49,179,045 thousand yen ■ Total Expenses 49,179,045 thousand yen



Campus and Access

Yushima and Surugadai Campuses

TMDU is located in the center of Tokyo, amid many sites of historic interest. The main campus, Yushima Campus, and the satellite campus, Surugadai Campus, contain our research buildings and hospitals. At these campuses, highly specialized education in clinical and basic research contexts is offered so as to foster health care professionals with advanced knowledge and skills.



Kounodai Campus

The Kounodai Campus houses the College of Liberal Arts and Sciences, where our undergraduate students start their university studies. This campus is located in Ichikawa City, Chiba Prefecture, and is about 40 minutes from Yushima Campus by train.



Location of University Campuses and Buildings

(as of May 1, 2011)

Yushima Campus	Grounds (Sq. Meters): 45,115 m ²	Buildings (Sq. Meters): 247,944 m ²
Name	Postal Address / Telephone	
Administration Bureau, Graduate School of Medical and Dental Sciences, Graduate School of Health Care Sciences, Biomedical Science PhD Program, Graduate School of Biomedical Science	5-45, Yushima 1 chome, Bunkyo-ku, Tokyo 03-3813-6111	
Faculty of Medicine, University Hospital of Medicine	5-45, Yushima 1 chome, Bunkyo-ku, Tokyo 03-3813-6111	
Faculty of Dentistry, University Hospital of Dentistry	5-45, Yushima 1 chome, Bunkyo-ku, Tokyo 03-3813-6111	
Institute for Library and Media information Technology-Library, Center for Education Research in Medicine and Dentistry, Research Center for Medical and Dental Sciences, Center for Experimental Animal, International Exchange Center, Life Sciences and Bioethics Research Center, Center for Interprofessional Education, Health Service Center, Student Center, Organization for Research and Industry Liaison Promotion	5-45, Yushima 1 chome, Bunkyo-ku, Tokyo 03-3813-6111	
School of Dental Technologists	5-45, Yushima 1 chome, Bunkyo-ku, Tokyo 03-3813-6111	

Surugadai Campus	Grounds (Sq. Meters): 5,597 m ²	Buildings (Sq. Meters): 19,912 m ²
Name	Postal Address / Telephone	
Institute of Biomaterials and Bioengineering	3-10, Kanda Surugadai 2 chome, Chiyoda-ku, Tokyo 03-5280-8000	
Medical Research Institute	3-10, Kanda Surugadai 2 chome, Chiyoda-ku, Tokyo 03-5280-8050	

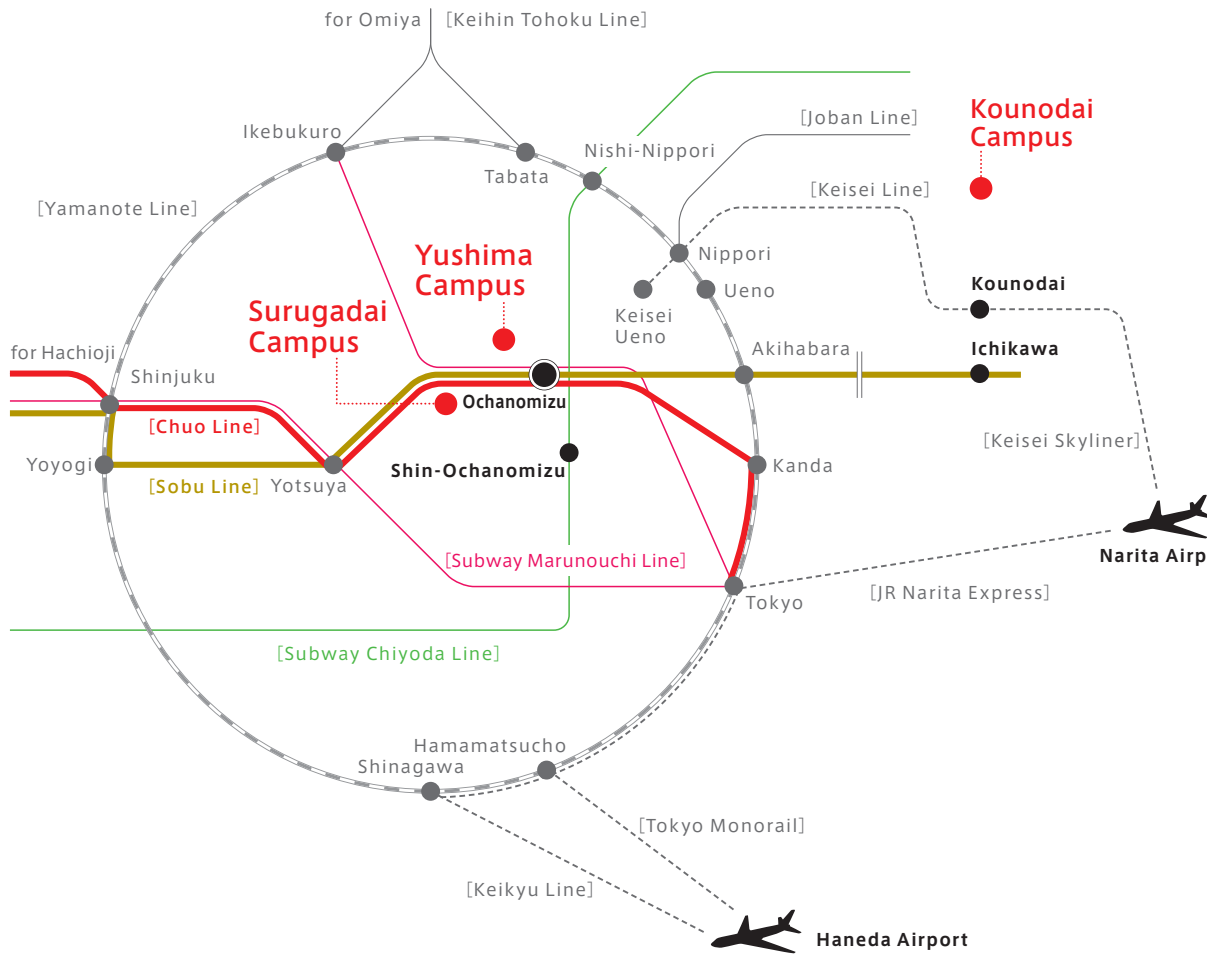
Kounodai Campus	Grounds (Sq. Meters): 61,287 m ²	Buildings (Sq. Meters): 13,900 m ²
Name	Postal Address / Telephone	
College of Liberal Arts and Sciences, Institute for Library and Media Information Technology-Kounodai Branch Library, Health Service Center, Kounodai Branch	8-30, Kounodai 2 chome, Ichikawa-shi, Chiba ken 047-371-7103	
International House, International Student House	8-1, Kounodai 2 chome, Ichikawa-shi, Chiba ken 047-371-7936	

Name	Address	Grounds (Sq. Meters)	Buildings (Sq. Meters)
Toda Boat-House	60, Todakoen 1 chome, Toda-shi, Saitama ken	696 m ²	479 m ²
Akakura Resort House	6120, Akakura, Myoko-shi, Niigata ken	1,621 m ²	434 m ²
Tateyama Oga Resort House	Oga, Tateyama-shi, Chiba ken	4,357 m ²	834 m ²
Hakusan Residence Housing	36-3, Hakusan 2 chome, Bunkyo-ku, Tokyo	497 m ²	91 m ²
Wakamiyacho Residence Housing	26, Wakamiya-cho, Shinjuku-ku, Tokyo	995 m ²	—
Tonoyama Residence Housing	50-3, Chuo 1 chome, Nakano-ku, Tokyo	1,974 m ²	1,945 m ²
Etchujima Residence Housing	3, Etchujima 1 chome, Koto-ku, Tokyo	17,967 m ²	25,480 m ²
The Ossuary (Nokotsu-do)	10-1, Kounodai 3 chome, Ichikawa-shi, Chiba ken	(115 m ²)	—
Total		140,106 m ² (115 m ²)	328,698 m ²

* The numbers in parentheses show temporary or long-term rental grounds and buildings.

Access

Yushima and Surugadai Campuses	Kounodai Campus
JR Line Ochanomizu Sta. Subway Marunouchi Line Ochanomizu Sta. Subway Chiyoda Line Shin-Ochanomizu Sta.	Keisei Line Kounodai Sta. Sobu Line Ichikawa Sta. Bus for Matsudo Sta. from No.1 Keisei Bus Stop to Kokuritsu Byoinmae



✈ From Narita Airport	✈ From Haneda Airport
JR Narita Express → JR Tokyo Sta. → JR Chuo Line → JR Ochanomizu Sta. Keisei Skyliner → JR Ueno Sta. → JR Yamanote Line → JR Akihabara Sta. → JR Sobu Line → JR Ochanomizu Sta.	Tokyo Monorail → JR Hamamatsucho Sta. → → JR Yamanote Line → JR Ochanomizu Sta. Keikyu Line → JR Shinagawa Sta. → JR Yamanote Line → JR Kanda Sta. → JR Chuo Line → JR Ochanomizu Sta.