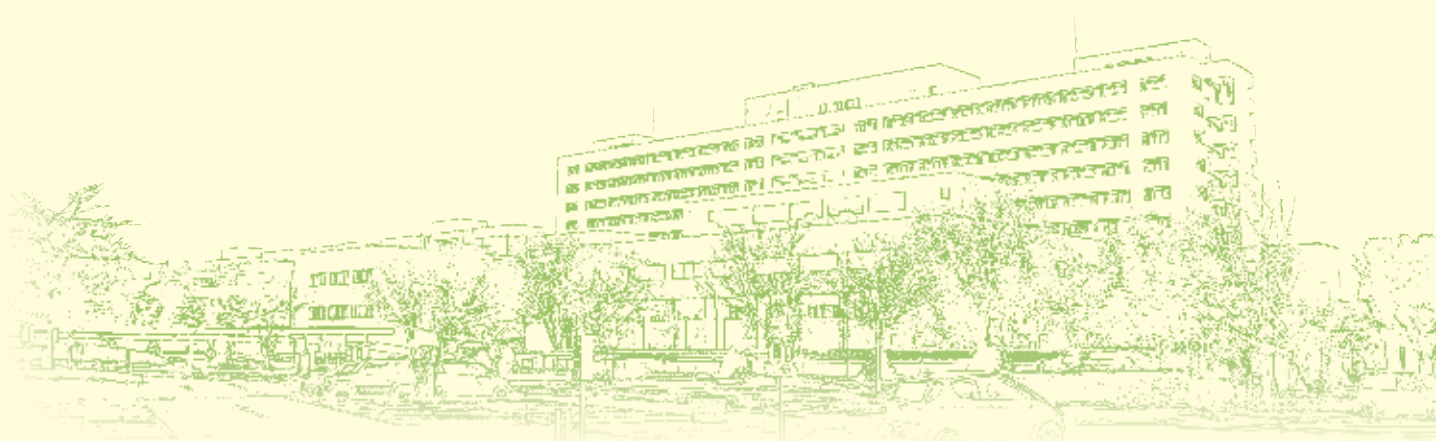


照る



# FUKUSHIMA MEDICAL UNIVERSITY

—GENERAL GUIDE 2011





## Shining light

Each and every one of us is a light shining upon someone else and vice versa.

Where warm light is shining, you'll find many smiles, bright with happiness.

Fukushima Medical University is committed to providing high quality medical services as the core medical institution in Fukushima Prefecture, while ceaselessly striving to advance our medical skills.

We wish to foster the mindset of caring for secure and pleasant lives of people in the communities we serve.

This is because caring for and reaching those in need is what "shining a light on others" is all about.

There is a future that comes only through our endeavors to shine light upon people's lives and good health.

Our utmost delight is to shine light upon as many people as possible, which in turn leads all of us to a bright place illuminated by others.

We begin every day with our resolution in mind.

M e s s a g e

Fukushima Medical University includes a School of Medicine and a School of Nursing. The School of Medicine has been training doctors for more than sixty years while the School of Nursing has produced nurses with advanced skills since its foundation in 1998. Both schools have educated specialists who now contribute to health and welfare throughout Japan.

Fukushima Medical University attracts people across the nation due to its core curriculum in the School of Medicine and its unique approach to meeting community needs amid a national shortage of doctors.

Our efforts have resulted in a successful collaboration of medicine and engineering in research, which will bring about further success in the future. We have established a streamlined system from drug discovery to clinical trial as well.

The Great East Japan Earthquake on March 11 and subsequent tsunami ravaged the Tohoku region including Fukushima Prefecture. Fukushima Medical University played a critical role in attending to the victims and responding to the disaster and nuclear accidents. We are now applying modern science to unprecedented challenges. Our mission is to protect and manage the health of people for generations to come. We are determined to do everything to carry out our historic mission with support from all Japan and the world at large.



KIKUCHI Shin-ichi, MD, PhD  
President of  
Fukushima Medical University



**CONTENTS**

Protecting public health and safety in Fukushima	4
The Principles of Fukushima Medical University	8
I School of Medicine / School of Nursing / Graduate School	10
II Initiatives for fostering healthcare professionals	30
III Introduction of Fukushima Medical University Hospital	34
Resources	40
Miscellanea	42
Aizu Medical Center	44
Chronology	46
Facts & Statistics	49
Campus Map	54



Picture1 : Emergency meeting

# Protecting public health and safety in Fukushima

Our mission and responsibility in the wake of the Great East Japan Earthquake



Picture2 : Joint medical team of Jordanian and FMU

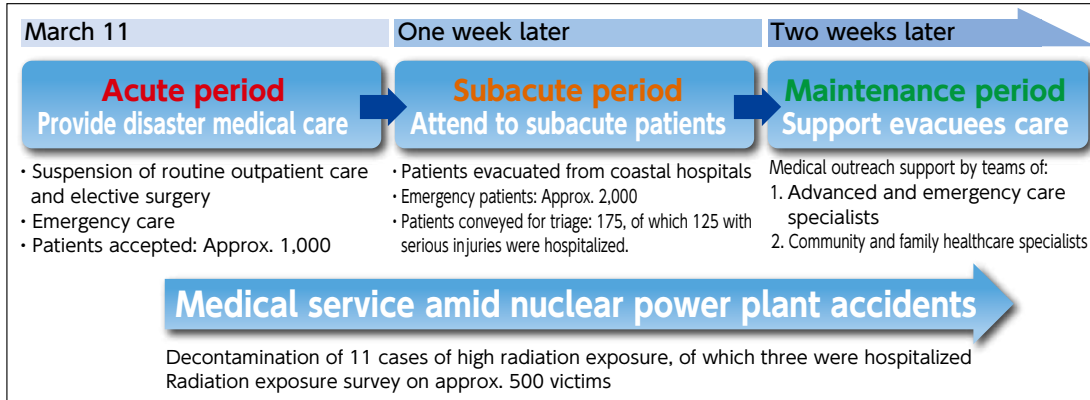


Picture3 : Provide care for TEPCO workers

## All of the university's faculty and staff have taken a flexible approach to the disaster.

Dedicated to the mission of protecting public health and safety in Fukushima, all of us have been addressing the unprecedented disaster caused by the March 11 earthquake, tsunami and nuclear crisis. We set up a disaster headquarters within the university immediately after the earthquake and met regularly to coordinate a comprehensive response (see Picture 1). University doctors dispatched to the prefectural disaster headquarters ensured that medical services and needs assessment were properly conducted throughout Fukushima.

## Our actions as the center for disaster medical care



### [Acute period]

Despite an epicenter magnitude of 9.0, the earthquake spared our facilities and strengthened our resolve. Structural damage was minimal, but we suspended elective surgeries and deferred routine outpatient care to focus on emergency medical care for patients affected by the earthquake and tsunami.

### [Subacute period]

Evacuation orders were issued from late March 11 through March 15 to progressively larger areas around the Fukushima No. 1 nuclear power plant. General evacuation included patients who were admitted to Fukushima Medical University Hospital or transferred to other medical institutions according to underlying medical conditions and degree of radiation exposure.

### [Maintenance period]

The Japanese government announced an immediate evacuation radius of 20 km from the stricken nuclear power plant, and a contingent evacuation area between 20 and 30 km. To meet the medical needs of people in or from these areas, Fukushima Medical University partnered with disaster and evacuation teams of the Japanese Self Defense Force and radiation experts from Nagasaki University. Through these partnerships, we became a center providing advanced medical care to refugees. A Mental Health Team attended to evacuees and public workers such as firefighters operating within 20 km of the nuclear power plant. A Deep Vein Thrombosis Prevention and Care Team, jointly staffed by volunteers from the Kingdom of Jordan and FMU, conducted DVT screening in order to protect immobilized refugees from sudden death caused by acute pulmonary embolism (see Picture 2). A Paediatric and Infectious Disease Control Team, including volunteers from the Kingdom of Thailand, attended to refugee centers where infectious diseases were a particular risk.

## Our function as a the medical institution for radiation casualties

Fukushima Medical University has a Secondary Emergency Medical Facility for Nuclear Disasters where screening, decontamination, and emergency medical care are provided. Such medical facilities were established across Japan in the wake of a critical accident at Tokai Village, Ibaraki Prefecture in 1999. We accommodated workers of Tokyo Electric Power Company who had been engaged in operations to contain the Fukushima No.1 nuclear power plant accident (see Picture 3). Since June, we have also collaborated with the Mental Healthcare Team to conduct internal exposure investigations on workers engaged in public operations such as searching for those missing in the 20km radius of the nuclear power plant.

## Fukushima Medical University: now and in the future

Fukushima has been struggling to recover from one of humanity's worst disasters. The path ahead is neither straight nor smooth. It requires not only reconstruction, but also containment of a major nuclear accident. In this unprecedented context, our recovery means more than restoring what was lost. "Fukushima" is now a name known around the world. We dare to imagine that generations to come will know Fukushima as an example of human courage and resilience in the face of adversity. Our future could be humanity's future.

Fukushima Medical University has been facing the biggest challenge in its history. Many around the world have stood with us throughout this crisis, and we are grateful. For some, standing with us is just a step away from joining us. These pages are written with that thought in mind.



# Contribution by students of Fukushima Medical University in the aftermath of the Great East Japan Earthquake

OTANI Koji, Associate Professor,  
CMECD  
(Center for Medical Education and Career Development)

Every one at Fukushima Medical University Hospital has been responding to the disaster not just by addressing medical needs, but by doing what each of them can do as an individual. Among them are student volunteers. I'd like to introduce their contribution with a narrative written by one of them.



## 1. Inside Fukushima Medical University Hospital



Medical students of Year 5 who were undergoing practical training at the hospital and other students developed a volunteer organization immediately after the earthquake.

They were engaged in logistics of goods, transportation of

patients, and creating posters to encourage water and electricity conservation. Soon after, Fukushima No.1 nuclear power plant accidents happened and radioactive substances started to leak. To protect students from radiation, we decided to dismiss the student volunteer organization and required students to return home, especially outside Fukushima, where possible.

When the dose of radiation observed proved to be unlikely to harm health, the volunteer organization was resumed by the students. Many patients continued to be transferred from the tsunami-stricken coastal area to the Fukushima Medical University Hospital by helicopter or ambulance. Medical student volunteers made a big contribution to transportation of those patients, e.g., from helicopter or ambulance into the hospital. Nursing student volunteers supported the hospital staff by preparing rice balls, which were our primary source of nutrition during round-the-clock operations in the days immediately following the earthquake.

## 2. Outside Fukushima Medical University Hospital

Students were also volunteering outside the hospital. The following story written by Haruna Miyazawa tells you how one of those students felt and behaved after the earthquake.

Fukushima Medical University Sixth-year student  
MIYAZAWA Haruna

### 1. The period between the earthquake and temporary leave from Fukushima

On March 11, a big earthquake hit Tohoku region when I was undergoing practical training at the emergency department of the Fukushima Medical University Hospital. I just didn't know what to do, but I wanted to do something. So I decided to join a student volunteer group set up following the university disaster headquarters. Though I managed to reach my family in Morioka City, Iwate Prefecture and confirmed their safety, I was extremely worried whether my grandfather and relatives were safe, as they were living in its coastal area. During the following days, I was going back and forth between the care units and the pharmacy department as a volunteer. We had a limited amount of food in the hospital, which allowed us only to have a bit of rice balls and a sip of miso soup every day. Every time I queued to procure food and water outside the building, I became nervous about the airborne radiation. In addition, I had to compromise with the discomfort that came with sleeping on a hard floor, being unable to take shower, and bad hygiene because of the water shortage, as well as felt dizziness and nausea caused by aftershocks. I realized how it had been delightful to have warm food. Besides those painful experiences, it was gasoline shortage, aftershocks and worsening condition of Fukushima No.1 nuclear power plant that made the nights the most fearful ever.

On March 15, there still remained uncertainties over the nuclear accidents and the radiation leak. Dr. Otani instructed us to leave the hospital and return to their family if possible. But I couldn't find any way to go back to Iwate. My mother urged me to immediately leave Fukushima regardless of the direction. So I decided to leave for Tokyo with my friends. We decided to take taxi to Nasu-shiobara, from where bullet train for Tokyo was available. Traffic was extremely heavy as many people rushed to leave Fukushima. The last bullet train had already left the Nasu-shiobara station when we managed to arrive late at night. We tried to stay one of nearby hotels, but as expected, none of them had a vacancy. We thought



Photo Credit/Asahi newspaper

we had no choice but to sleep outside in the cold wind of winter. At that time, we receive a call from one of our friends whose family lived in Nasu-shiobara, telling "My parents prepared beds and are going to pick you up." Though we had never met them and it was very late at night, they were kind to offer us hot tea, some warm dishes, hot shower, and warm beds. We were really moved and deeply appreciate their kindness.

## 2. What I thought and did in Tokyo

On March 16, we arrived in Tokyo. I was going to stay at my relatives' home. Soon I tried to secure a flight ticket to Iwate, but the earliest date of flight was March 22, which meant that I had to stay there for one week. My life in Tokyo caused me to feel guilty. Water was available everywhere. There was nothing I couldn't get at stores. I felt extremely guilty that I had chosen to stay in the far better environment compared to those suffering. There remained many people in Fukushima; some of my academic peers, seniors and juniors, friends who were working as nurse, doctors who were engaged in medical relief operations, and many acquaintances. Before I left Fukushima, I saw many people leaving there while I was volunteering, which made me feel lonely and nervous day by day. Staying in Tokyo, I thought I was making those remaining in Fukushima feel the way exactly I did before leaving there. Though I believed my decision to leave Fukushima was appropriate, I couldn't help asking myself whether it was right or not. In addition, I found myself feeling a bit difficulty in adapting to normal daily life in Tokyo. Even a cup of hot tea, which usually complements Japanese daily life, could cause tremor, dizziness and nausea. Recalling the days I spent in Fukushima also triggered shiver and tears. It was my relatives' words that had relieved me: They said, "You don't have to feel guilty about what you can do here". Thereafter I was able to spend days positively, being grateful rather than feeling guilty over everything.

On March 17, I turned 25. I had never had my birthday celebrated in such a misery, but at the same time I felt grateful for "life" more than ever. I thought I had to start something. Inspired by efforts of my friends in Nippon Medical School and Iwate Medical University to raise funds for victims, I decided to start with fund raising. The decision came after I deliberated what else I could do as the student of Fukushima Medical University. I thought I should do something else because I was aware during the days in Fukushima after the earthquake that victims' acute needs were warmth, foods, water, hot tea, hot shower, clothes, oral care materials and safety. The reality was that I had to leave Tokyo in a week and I wanted to organize a group with Fukushima Medical University students. To put things into perspective, I figured out that fund raising was the most feasible and useful in the long term.

Later on, some of the students of Fukushima Medical University held a meeting in Tokyo to discuss what we could do as Fukushima Medical University students. I wanted my plan to be approved there, but it wasn't. That was partly because everyone was still nervous and it required most of the time to console each other. I myself was still recovering from physical and mental strain; therefore I thought it was important for the others to take rest as well. So I didn't insist on my plan. There was no right answer.

Though my plan was suspended, my aspiration did not diminish. At least I wanted to inspire others. The first step I took was to join the group of Nippon Medical School for fund raising. Standing in Ueno Park for three days with a donation box in my hands, I saw many people like us who wanted to do something for victims. More and more students joined us and I finally found my successor for my plan to raise funds. I took responsibility for the plan while providing instructions and negotiating with Student Affairs Division.

## 3. Back in Fukushima

On March 22, I got to Iwate. My family was relieved with my safety return and I was happy to see them. But my grandparents' home was swept away by tsunami and my relatives lived in refugee centers or in their stricken houses. Though this might not be surprising, people around me were not so concerned about Fukushima. They were too exhausted from dealing with their own hard situation. A human being tends to think that his/her situation is harder than anyone else.

I came back to Fukushima in May, when daily life was going back to normal for my family. The earthquake and what happened afterwards have significant meaning to me. It is totally impossible to summarize what I learned from it, but I'm sure the lessons learned help us figure out what we should and can do now and in the future. The first thing to do is to combat with rumors about Fukushima. Rumors are nothing but harmful. I want to make people in Japan as well as in the world remember that Fukushima is home to lives and livelihood of people as with other prefectures. In addition, I'm determined to engage in study to become a competent doctor as soon as possible. I'm deeply grateful for the academic environment I have and I'm glad that the practical training suspended after March 11 has resumed.

---

I'm proud of the behavior of my students, what they did and have been doing amid the disaster and their resolution for the future. They make me confident that Fukushima's recovery will be beyond what one can expect. Join us and be a good healthcare professional. We need your help for Fukushima's recovery.

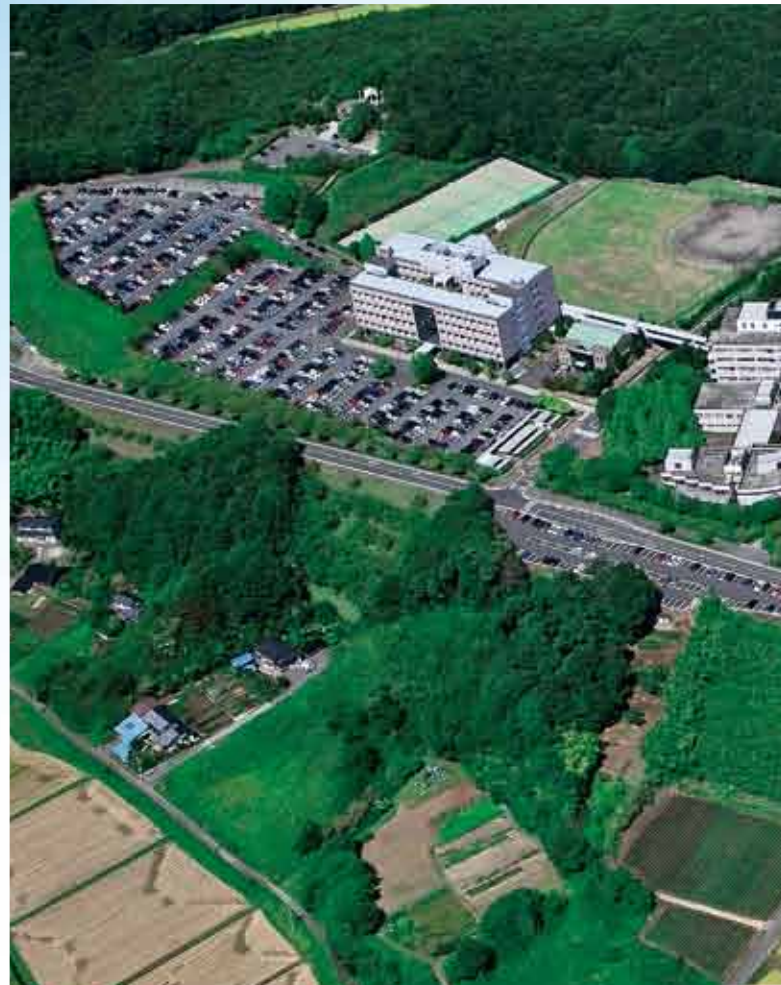
# The Principles of Fukushima Medical

Fukushima Medical University was founded for the purpose of nurturing medical professionals who will contribute to the promotion of health, medical care and welfare of the citizens of Fukushima Prefecture. It is also a research institute with the aim to contribute to the community and the welfare of humanity through advances made in medicine, nursing and related areas.

Medical care is the collaboration of medicine, nursing, and allied health professionals. We care for the health and wellbeing of each individual, and strive for a better future based on respect for human dignity and adherence to high ethical standards.

Fukushima Medical University promotes education, research, and medicine based on the following principles:

1. We respect human life and nurture medical professionals with high ethical standards.
2. We pursue advanced medicine and nursing.
3. We provide holistic and integrated medical care as the core medical institution in the prefecture.



## VISION 2008

Vision 2008 consists of three images of Fukushima Medical University and five visions, whereby we will bring out the best in our people, resources, and potential for better future.

- An image that attracts students
- An image that appeals to citizens
- An image that motivates the faculty and staff

**I** Advance the "Fukushima Model" by producing leading medical professionals dedicated to protecting people's health.

**II** Attract students who are enthusiastic about learning.

**III** Discover new medical care with our strengths in team work and research.

**IV** Achieve more humane healthcare by improving service for those in need.

**V** Focus on the future and continue making progress.



# University



# I School of Medicine / School of Nursing / Graduate School





# School of Medicine



## Educational Philosophy

The School of Medicine encourages students to become intelligent and compassionate doctors who exercise their own skills, pursue harmony, and create better communities.

## Admissions

The School of Medicine looks for those students who:

1. Respect human life
2. Maintain high ethical standards and a rich sense of humanity
3. Have a broad vision and good judgment
4. Maintain scientific curiosity and creativity
5. Have the enthusiasm for contributing to community-based health care.



## Educational Objectives

### Discover and cultivate your potential

- Mind**.....Mind for sincerity, compassion, and scientific inquiry
- Intellect**.....Knowledge for saving life, wisdom for healing the sick, and intellect for surviving tomorrow
- Skills**.....Reliable skills, skills to challenge the unknown, and skills for the future
- Harmony**.....Harmony with patients and their families, harmony with colleagues in the workplace, and harmony with people in local communities and around the world
- Community**.....Learning from communities, creating better communities, and disseminating new values from communities

## Message

### Nurture Doctors for Excellent Medical Care

Fukushima Medical University's unique history began 140 years ago in Shirakawa City, where a medical arts college was founded in 1871. One of our students was Shinpei Goto (1857-1929), who promoted the modernization of Far East Asia and formulated a grand design for Tokyo after the Great Kanto Earthquake of 1923. With the same vigor and enthusiasm, his successors at FMU are meeting the challenges arising from our March 11 earthquake, tsunami, and nuclear crisis.

Our educational approach engages students in medical science and medical care from the very beginning. FMU's Center for Medical Education and Career Development provides students, residents, and practicing physicians with professional improvement opportunities and support for work-life balance issues, especially in regard to raising children. As a medical university, we advance cancer research, biotechnology, pharmaceutical development, and other patient-oriented activities.

Students develop as individuals and as colleagues through a healthy balance of study and club activities. In this environment, we believe that the legacy of Shinpei Goto, Hideyo Noguchi, and other great figures from Fukushima will continue for generations to come. Your journey with Fukushima Medical University can be a journey to excellence in medicine.



OHTO Hitoshi, MD, PhD  
Dean of School of Medicine

## Departments in School of Medicine

Life Sciences and Social Medicine



**Department of Neuroanatomy and Embryology**  
 Department Chairperson : Professor YAGINUMA Hiroyuki

Our main research subjects are as follows:

1. Neurogenesis and neuronal cell death
2. Mechanisms of neural pathway formation
3. Development of gene transfer techniques into the nervous system
4. Pain and sensory receptors
5. The hypothalamic-pituitary system and neuroendocrine

We are also responsible for lectures and practical training of human anatomy, osteology, gross anatomy and neuroanatomy.

Life Sciences and Social Medicine



**Department of Anatomy and Histology**  
 Department Chairperson : Professor WAGURI Satoshi

Our researches are focused on the lysosomal degradation system, which is thought to be a cleanup system and/or cellular recycling system. Particularly, we focus on the intracellular molecular sorting and transport in which lysosomal enzymes are transported from the Golgi complex to lysosomes, and on autophagy, by which unnecessary components are collected and packed for lysosomal degradation. The impairment of these systems can impact on several cellular functions, causing various pathological conditions and diseases, such as neurodegeneration, cancer, infection and metabolic diseases. We also support some collaborative research projects through morphology-based analyses, especially those involving use of laser scanning confocal microscope and electron microscope. We also offer lectures on human histology and human gross anatomy.

Life Sciences and Social Medicine



**Department of Cellular and Integrative Physiology**  
 Department Chairperson : Professor HAZAMA Akihiro


Cells in the body maintain their functions by exchanging materials between intracellular and extracellular spaces. These dynamic transportations of materials are essential for life. We are investigating the mechanisms of transportation of ions and other solutes through the cell membrane. We developed a technology to control ion transportation, which leads to cell protection. Our goal is to establish a new technology to protect cell and various organs.

Life Sciences and Social Medicine

**Department of Neurophysiology**

We study the function of the brain. In specific, we investigate how sleep/wakefulness, urination and sexual function are controlled by the hypothalamus and brainstem. We are also interested in what changes are seen in neural processes of the schizophrenic brain. We are investigating them by recording single neuronal activity in unanesthetized, living animal models. We have excellent recording techniques, for which many researchers across the globe come to our laboratory for joint research.

Life Sciences and Social Medicine



**Department of Biochemistry**  
 Department Chairperson : Professor HASHIMOTO Yasuhiro

We are engaged in education on biochemistry for the second year medical students. We study disease markers of central nervous system and cancers. Recently, we have found a cerebrospinal fluid specific glycoprotein, which can be used as a diagnostic marker for idiopathic normal pressure hydrocephalus, a senile dementia. We hope our research results will be beneficial for clinical medicine.

Life Sciences and Social Medicine

**Department of Immunology**

Immunity is the ability of an organism to resist an infection, while immunology is a study to understand the mechanism of immunity as well as diseases caused by its failure and to develop treatment method based on the understandings. Our department focuses on innate immunity, which is the biological defense mechanism observed at the early stage of infection, and on autoimmune disorders. We promote joint research programs with both domestic and international research institutes. We are also responsible for education of students.

## Departments in School of Medicine

Life Sciences and Social Medicine



**Department of Pharmacology**

Department Chairperson : Professor KIMURA Junko

Pharmacology is the study of the effects of drugs on our body and the effects of our body on drugs. In our department, we investigate various topics, including pharmacology of skeletal muscle, heart and kidney, and Chinese traditional medicine (Kampo). In addition, we investigate drug interaction and the cause of myelodysplastic syndrome. Recently we found that inactivation of intracellular vesicle traffic protein called "Rab" is associated with an adverse effect of cholesterol lowering drugs called "statins." We also conduct our research in collaboration with other departments in and out of the university.

Life Sciences and Social Medicine




**Department of Microbiology**

Department Chairperson : Professor SUZUTANI Tatsuo

Infectious diseases are still a major cause of human death in the world, with more than 25% of global population losing their lives due to microbial infections. It has long been and will remain impossible to escape from infectious diseases because many microbes form a complex ecology, not only on earth, but on our skins and mucosal surface. In our department, we study the molecular pathology of herpesviruses, particularly human cytomegalovirus and herpes simplex virus. We also endeavor to develop a novel identification method of bacterial and fungal species, as well as foods that helps prevention of infectious diseases.

Life Sciences and Social Medicine



**Department of Basic Pathology**

Department Chairperson : Professor CHIBA Hideki

Pathology focuses on understanding the pathogenesis and pathophysiology of human diseases at levels of the whole body, organs, tissues, cells and molecules. Therefore, pathology is one of the most important studies in basic and clinical medicine. Our research mainly focuses on 1) cell junction, cell polarity and human diseases 2) physiological and pathological functions of extracellular matrix proteins 3) functions and pathophysiology of nuclear receptors 4) molecular targeted therapy for cancer and 5) molecular mechanism of cancer metastasis. We take various experimental approaches to understand physiology and diseases, which involves cell biology, molecular biology, biochemistry and morphology as well as animal models.

Life Sciences and Social Medicine



**Department of Hygiene and Preventive Medicine**

Department Chairperson : Professor FUKUSHIMA Tetsuhito

The word "Hygiene" comes from the name of the goddess of the health in the Greek myth, "Hygieia". It means "care of health" or "keeping life". We are working to clarify lifestyle and environmental factors threatening or promoting health. Our missions are to establish the skill of self-care through health education and the health policy formulated from these research results, and to hand down a high quality human society to the next generation.

Life Sciences and Social Medicine



**Department of Public Health**

Department Chairperson : Professor YASUMURA Seiji

Public health is the applied science aiming to prevent diseases, promote health and prolong life of individuals and society. We cover diverse health issues "from the cradle to the grave", through collaboration and partnership with experts and public organizations in healthcare and welfare field. The main research topics include long-term care of the elderly, life-style related diseases, parenting and healthcare amid disaster. Our research achievements are not only published in domestic and international academic journals, but also reflected in healthcare policies at the national level.

Life Sciences and Social Medicine



**Department of Legal Medicine**

Department Chairperson : Professor HIRAIWA Kouichi

Legal medicine is a study to solve legal problems based on medicine. Its mission is to protect human rights. It involves diagnosis of physical damage and death. The Department of Legal Medicine contributes to the community by carrying out medico-legal autopsies (including judicial autopsies and administrative autopsies) commissioned by judicial authorities of Fukushima Prefecture. We also conduct researches on crush syndrome, which will help identification of cause of death.

## Departments in School of Medicine



Clinical Medicine  
Division of Medicine  
**Department of  
Cardiology and Hematology**  
Department Chairperson : Professor TAKEISHI Yasuchika

We provide specialized medical services for patients with cardiovascular and hematological diseases, as well as a wide range of medical care including general internal medicine and emergency medicine. We also offer advanced therapies such as catheter interventions (PCI) including coronary stenting and rotablator for acute myocardial infarction and angina pectoris, catheter ablation for tachyarrhythmias, implantable cardiac defibrillator for ventricular tachycardia and ventricular fibrillation, and cardiac resynchronization therapy with biventricular pacing for heart failure. In Fukushima Prefecture, only our department is capable of unrelated donor bone marrow transplantation. In addition, we have been performing the latest research projects in both clinical and basic science and have interactions with many related institutions worldwide.



Clinical Medicine  
Division of Medicine  
**Department of  
Cardiology and Hematology**  
Professor OGAWA Kazuei

The Department of Hematology mainly researches and treats anemia and platelet, hemostatic, and coagulation disorders, as well as hematologic malignancies such as leukemia, malignant lymphoma and multiple myeloma. We focus on the diagnosis and treatment of anemia induced by bone marrow failure, as well as on chemotherapy and hematopoietic stem cell transplantation for patients with hematologic malignancies. In particular, we actively perform hematopoietic stem cell transplantation for intractable heart diseases in cooperation with the Department of Cardiology. The gap between basic medicine and clinical medicine is so small in Hematology that we are able to focus more on clinical application of our researches.



Clinical Medicine  
Division of Medicine  
**Department of  
Gastroenterology and Rheumatology**  
Department Chairperson : Professor OHIRA Hiromasa

As a medical center of the prefecture, our department provides the best medical care possible by using highly advanced and safe medical technologies. We focus on gastroenterological cancer, viral hepatitis, and specified rare and intractable diseases such as fulminant hepatitis, primary biliary cirrhosis, severe acute pancreatitis, inflammatory bowel disease and collagen disease. We are conducting research and medical care, combining gastroenterology and immunology. Residents are supported by many senior doctors and acquire not only basic medical knowledge but also specialized skills.



Clinical Medicine  
Division of Medicine  
**Department of  
Gastroenterology and Rheumatology**  
Professor WATANABE Hiroshi

Rheumatology deals with diseases that involve autoimmunity, such as rheumatoid arthritis, systemic lupus erythematosus, systemic sclerosis, polymyositis, and dermatomyositis. Diagnosis and treatment of those diseases require knowledge and skills in immunology and internal medicine. Our department helps you learn basics besides specialized knowledge and skills of internal medicine. Our research aim is to understand disease using animal models and to identify disease markers. We aim to apply findings from our researches to clinical settings.



Clinical Medicine  
Division of Medicine  
**Department of Nephrology,  
Hypertension, Diabetology, Endocrinology and Metabolism**  
Department Chairperson : Professor WATANABE Tsuyoshi

The department deals with a variety of internal diseases such as chronic kidney disease (CKD), diabetes, hypertension, and metabolic syndrome, all of which are the growing social problems. Treatment of those diseases requires broad clinical expertise, because these diseases closely interact with each other, and patient lifestyle is associated with pathogenesis and determines therapeutic approaches. Thus, our mission in medical education and clinical training is to help students to acquire both general and special knowledge and skills. We endeavor to find solutions for medical and social problems of patients through our research.



Clinical Medicine  
Division of Medicine  
**Department of Nephrology,  
Hypertension, Diabetology, Endocrinology and Metabolism**  
Professor NAKAYAMA Masaaki

The department has established a comprehensive system for diagnosis and treatment of renal disorders, with our focus on clinical nephrology and dialysis. We have made advanced and unique accomplishments in research while addressing basic research to pursue cause of glomerulonephritis and nephrotic syndrome, epidemiological study of CKD, and development of new treatment such as blood purification therapy using hydrogen. The department also offers training and education for young doctors to enhance their specialty.

## Departments in School of Medicine



### Department of Neurology

Clinical Medicine

Division of Medicine

Department Chairperson : Professor UGAWA Yoshikazu

In the Department of Neurology, we see patients with neurological disorders such as cerebrovascular disease (CVD), encephalitis, epilepsy, Parkinson's Disease, amyotrophic lateral sclerosis, spinocerebellar degeneration, brain or spinal cord tumor, myasthenia gravis, muscular dystrophy, etc. We take care of patients in acute or chronic phase. We study pathomechanisms underlying each neurological disorder, using neurophysiological, neuropathological, neuro-immunological and biochemical methods, and try to find new treatments. Our department especially uses new repetitive trans-cranial magnetic stimulation (TMS), quadripulse stimulation (QPS) and octo-pulse stimulation (OPS) for the treatment of neurological diseases.



### Department of Pulmonary Medicine

Clinical Medicine

Division of Medicine

Department Chairperson : Professor MUNAKATA Mitsuru

We are specialized in major respiratory diseases such as lung cancer, bronchial asthma, COPD, and idiopathic pulmonary fibrosis, and provide the best medical care for all respiratory diseases. We also have an excellent educational program for both undergraduate and graduate students. Many excellent research projects are also being conducted. These include the research for development of new diagnostic methods such as exhaled NO, EBC and virtual bronchoscopic navigation system (VBNS), the research for new therapeutic technologies such as stent, laser treatment and new drugs, and clinical research to elucidate basic mechanisms of respiratory diseases such as asthma, COPD and IPF.



### Department of Regenerative Surgery

Clinical Medicine

Division of Surgery

Department Chairperson : Professor GOTOH Mitsukazu

The Department of Regenerative Surgery provides safe, effective, efficient treatment for patients. Our department performs gastrointestinal, hepato-biliary and pancreatic, chest and pediatric surgeries. We also perform transplantation of liver, pancreas and pancreatic islets. We address diseases with advanced medical care and conduct many clinical trials as well. We collaborate closely with both domestic and international institutes on cancer treatment and transplantation surgery. We always welcome young doctors who want to contribute to the surgical society through academic knowledge and sophisticated skills with humanity.



### Department of Regenerative Surgery

Clinical Medicine

Division of Surgery

Professor SUZUKI Hiroyuki

I'm in charge of chest surgery at Fukushima Medical University Hospital. The department is making efforts to achieve radical cure of diseases such as thoracic malignancies, pneumothorax, mediastinal tumor and empyema through multidisciplinary approach integrating surgery, chemotherapy and immunotherapy. We also study molecular biology and tumor immunology of lung cancer to bring about new treatment. Regarding our immunotherapy study, our interaction has been growing with both domestic and international institutions. In addition, the department set up "FLAGS", Fukushima Lung Cancer Association Group of Surgeons, with lung cancer researchers in the prefectural hospitals to combat lung cancer, which is the solid tumor with high prevalence and poor prognosis.



### Department of Organ Regulatory Surgery

Clinical Medicine

Division of Surgery

Department Chairperson : Professor TAKENOSHITA Seiichi

The Department of Organ Regulatory Surgery deals with various diseases through gastrointestinal surgery, hepatobiliary-pancreas surgery, transplantation surgery, endocrine surgery and breast surgery. We focus on minimally invasive treatment and functional preservation. The examples include endoscopic surgery especially for gastrointestinal cancer, as well as preservation of anal function by preoperative radiochemotherapy for colorectal cancer. We provide optimal treatment to each patient through multidisciplinary approach including vaccine therapy, surgery, chemotherapy and radiotherapy for advanced or recurrent cancer. Furthermore, we have established treatment for familial tumor using gene analysis, and surgical approach to inflammatory bowel disease.



### Department of Organ Regulatory Surgery

Clinical Medicine

Division of Surgery

Professor SUZUKI Shinichi

I'm in charge of breast, endocrine, and thyroid surgery at Fukushima Medical University Hospital. We study surgery, oncology and diagnostic imaging, and perform minimally invasive surgery including endoscopic surgery in collaboration with the clinical department of gastrointestinal, hepatobiliary and pancreas surgery. We also perform endoscopic surgery for thyroid, parathyroid and adrenal diseases; navigation surgery of thyroid and parathyroid; ultrasound diagnosis with elastography; diagnosis and treatment of intractable tumor and familial tumor e.g. multiple endocrine adenomatosis; sentinel lymph node biopsy for breast cancer; and breast conserving surgery. Our medical practice and researches lead medicine both regionally and internationally.

## Departments in School of Medicine



Clinical Medicine  
Division of Surgery

### Department of Cardiovascular Surgery

Department Chairperson : Professor YOKOYAMA Hitoshi

The Department of Cardiovascular Surgery focuses on surgical treatment (operation) of heart and vascular diseases, as well as on related research and education. Target diseases range from myocardial infarction, valvular heart disease, heart failure, arrhythmia and congenital heart disease to aortic aneurysm, aortic dissection, atherosclerosis and varix. Our goals in research activities are to promote advanced less invasive treatments e.g. off-pump coronary artery bypass (OPCAB) and endovascular aortic repair (EVAR) with stent-graft.



Clinical Medicine

### Department of Neurosurgery

Department Chairperson : Professor SAITO Kiyoshi

We aim to provide advanced, patient-oriented treatment while contributing to healthcare of the citizens in Fukushima in collaboration with other hospitals. We specialize in all kinds of neurosurgeries, especially brain tumors, cerebrovascular diseases, pediatric neurosurgeries, neuroendoscopic surgeries, skull base surgeries and intraoperative functional monitoring. Many patients with severe and complex diseases are referred to us. For skull base malignancies, we employ various skull base surgeries depending on the location and pathology of the tumors. In some cases, we take minimally invasive approaches such as keyhole surgeries and endoscopic surgeries. We can perform safe surgeries and prevent postoperative complications thanks to our sophisticated intraoperative monitoring system. Our relationship with other clinical departments enables us to offer multidisciplinary treatments on a 24-hour basis.



Clinical Medicine

### Department of Orthopaedic Surgery

Department Chairperson : Professor KONNO Shin-ichi

Focusing on the mechanism of pain, we perform molecular biological analysis to investigate how compression of the nerve and chemical factors of vertebral discs impact on spinal nerve. We also address psychological and social evaluation of pain as well as visualization of pain. Regarding student education, we instruct each student on an individual basis. In order to produce competent orthopaedic surgeons, we offer clinical training for residents in collaboration with other hospitals both in and out of Fukushima, as well as support their basic and clinical researches.



Clinical Medicine

### Department of Plastic and Reconstructive Surgery

Department Chairperson : Professor UEDA Kazuki

The purpose of plastic surgery is to recover the morphology and function of the surface of the human body. Plastic surgery deals with not only the skin, but the muscle, the fat, the nerve, the vessel, the lymphatic system and the bone. Patients often feel psychological stress regardless of the severity of their deformity or dysfunction. Our mission is not only to save life, but to help patients recover to normal as far as possible.



Clinical Medicine

### Department of Obstetrics and Gynecology

Department Chairperson : Professor FUJIMORI Keiya

One of the features of our department is that all of us can perform well-balanced treatment including laparoscopic surgery, as we are all well-trained in perinatal medicine and gynecological oncology. We offer special medical services within outpatient clinic. These include fetal ultrasonography, treatment for climacteric disorder, osteoporosis and genetic disorders, uterine artery embolization (UAE) and endoscopic therapy. Our research covers fetal physiology, gynecological oncology, infertility and endocrinology.



Clinical Medicine

### Department of Pediatrics

Department Chairperson : Professor HOSOYA Mitsuaki

The Pediatric Department performs diagnosis and treatment of a wide variety of pediatric diseases ranging from common diseases such as infectious diseases and allergy to emergency medicine, specific disorders and conditions. Our scope of study ranges from neonatology, cardiovascular medicine, hematology and oncology, nephrology, allergy, endocrinology and neurology. We continue to improve our practical skills in order to be a general physician who is capable of providing medical care and healthcare management for pediatric diseases based on standard medical techniques and extensive medical knowledge.

## Departments in School of Medicine

Clinical Medicine



**Department of Ophthalmology**  
Department Chairperson : Professor IIDA Tomohiro

Our aim is to provide the most efficient and effective treatment for our patients. We pursue cutting-edge researches on various eye diseases including macular and vitreoretinal disease, uveitis, glaucoma, cataract, corneal disease, orbital and plastic disease and neuro-ophthalmology. We focus on the treatment of the macular disease including age-related macular degeneration, which is the most common disease to cause visual loss. Our research accomplishments have made us one of the foremost clinics in Japan. Results from many ongoing studies will also come out soon, which will bring medical benefit to patients.

Clinical Medicine



**Department of Dermatology**  
Department Chairperson : Professor YAMAMOTO Toshiyuki

The Department of Dermatology addresses various dermatological diseases with the focus on cancer therapy and psoriasis therapy using new biologics, laser, and so on. It also focuses on scleroderma research and pathomechanisms of autoimmune disorders. We have published a number of articles in medical journals. We welcome young researchers as visiting fellows of basic research.

Clinical Medicine

**Department of Urology**

The Department of Urology deals with a wide range of urologic diseases with the focus on urologic oncology, renal transplantation and lower urinary tract dysfunction (LUTD) such as benign prostatic hyperplasia, overactive bladder and urinary incontinence. The department leads in treatment of LUTD, providing the best medical care for patients with the disease. Our mission is to improve patients' quality of life. Renal transplantation is one of our pursuits in this regard and is performed in order to free patients from hemodialysis. We promote laparoscopic surgery as a less invasive approach and our excellent surgical education system enables young urologists to become a certified laparoscopic surgeon. Our basic research aims to promote the development of new and effective measures to manage LUTD and urologic cancer. We have received numerous domestic and international academic awards.

Clinical Medicine



**Department of Otolaryngology**  
Department Chairperson : Professor OMORI Koichi

We treat patients with ear, nose and throat diseases, as well as head and neck cancer. We perform various operations, such as ear surgery (tympanoplasty and cochlear implant), endoscopic paranasal sinus surgery, oral & pharyngeal surgery, laryngeal surgery, airway reconstructive surgery and thyroid and salivary gland surgery. Especially, we are specialized in the treatment of dysphonia for which we perform office-based phonosurgery under local anesthesia as a day surgery. Our research covers laryngeal and tracheal regeneration using in situ tissue engineering technology, childhood hearing loss, newborn hearing screening and cytomegalovirus infection.

Clinical Medicine



**Department of Neuropsychiatry**  
Department Chairperson : Professor NIWA Shin-ichi

We are engaged in medical education and research as well as the treatment of mental disorders. The mental disorders we cover are diverse e.g., mood disorder, anxiety disorder, psychosomatic disorder, schizophrenia, substance abuse, developmental disorders, dementia, epilepsy and sleep disorders. Our accomplishments include the development of useful objective clinical measurements, and the establishment of post-mortem brain bank for psychiatric research. Clinical psychotherapists provide various treatment programs and perform clinical researches, which is one of the features of our department.

Clinical Medicine



**Department of Radiology**  
Department Chairperson : Professor SHISHIDO Fumio

The Department of Radiology was established in 1952. It deals with diagnostic radiology, nuclear medicine, interventional radiology and radiation therapy for Fukushima Medical University Hospital and other hospitals in Fukushima Prefecture. We perform clinical researches on advanced computed tomography, magnetic resonance imaging, nuclear medicine, interventional radiology and radiation oncology. Our mission is to provide high-quality medical care, educate health care professionals and improve our understanding of health and disease.

## Departments in School of Medicine

Clinical Medicine

### Department of Anesthesiology

We are engaged in the perioperative management, intensive care, pain control and palliative care, as well as in medical education and research. Our research aims to explain the association between general anesthesia and the release of neurotransmitters; the mechanisms of how acute tolerance develops from general anesthetics; and the genetic mechanism of malignant hyperthermia.

We take care of patients after surgery and the high risk patients admitted to intensive care unit. We also perform evaluation of the perioperative patient conditions. For outpatients, we offer pain control treatments and palliative care.

Clinical Medicine



### Department of Emergency and Critical Care Medicine

Department Chairperson : Professor TASE Choichiro

The Department of Emergency and Critical Care Medicine is committed to improving the quality of emergency medicine in Fukushima Prefecture. Our mission is to standardize emergency medicine across the prefecture and provide education for emergency medical specialists. We endeavor to improve the current situation where it often takes long time for emergency patients to receive appropriate medical care at hospital; therefore we must establish a system whereby everyone has immediate access to the highest quality of emergency medical services across the prefecture.

Clinical Medicine



### Department of Diagnostic Pathology

Department Chairperson : Professor ABE Masafumi

The Department of Diagnostic Pathology performs diagnosis of a disease by investigating the tissue or cell removed from a patient. We deal with all organs of the body and diseases using various diagnostic measures such as biopsy, whereby treatment regimen is determined; intraoperative rapid diagnosis, whose result determines the scope of surgery or lymph node dissection; and cytodiagnosis, which helps in screening and early detection of a disease. Pathologists make a final diagnosis of a disease based on various data collected by clinical doctors, as well as on pathological changes of tissues or cells. Our main research objectives are to elucidate the pathogenesis of malignant lymphoma and pediatric tumor and to understand the characteristics of their biological behavior.

Clinical Medicine

### Department of Infection Control and Laboratory Medicine

Department Chairperson : Professor KANEMITSU Keiji

Infection control is a study to reduce healthcare-associated infection in hospital. The Department of Infection Control and Laboratory Medicine performs researches as well as infection control measures in Fukushima Medical University Hospital. We conduct researches on new examination methods and operate the Department of Clinical Laboratory Medicine in the hospital.

Clinical Medicine



### Department of Blood Transfusion and Transplantation Immunology

Department Chairperson : Professor OHTO Hitoshi

Blood transfusion is the most widely practiced form of transplantation. Thus, graft-versus-host and host-versus-graft phenomena require the utmost attention. We were first in the world to introduce universal irradiation of blood products to prevent transfusion-associated GVH disease (GVH), a painful and rapidly fatal side effect of transfusion. Our leadership in patient care also includes management of blood-incompatible pregnancy, mother-to-child hepatitis infection, perinatal hemorrhage, and fetomaternal health. Transplant support includes HLA and organ compatibility testing, for which we are a core service and research laboratory. Western journals of top rank publish our manuscripts, and department members participate in academic discourse around the world. American-trained Kenneth Nollet, as a specially appointed professor, has joined our permanent staff, and we welcome international visitors as part of our quest to be among the world's top ten in transfusion and transplantation research.

Clinical Medicine



### Department of Community and Family Medicine

Department Chairperson : Professor KASSAI Ryuki

Our mission is to offer residency training program in community and family medicine; to meet healthcare needs of communities in collaboration with other medical facilities, people and local governments in the prefecture; to develop and deliver learning systems to acquire excellent clinical skills; to promote community-based education and research activities; and to support career development of women doctors. We have the largest international network in family medicine. Faculty, staff and residents of our department have opportunities to work locally, nationally and globally.

## Departments in School of Medicine



Human and Natural Sciences  
Department of Human Sciences  
**Department of Human Sciences (Humanities & Social Sciences)**

Department Chairperson : Professor FUJINO Mitsuko

The Department of Human Sciences (Humanities & Social Sciences) consists of three faculty members; FUJINO Mitsuko (Professor, Law), FUKUDA Toshiaki (Associate Professor, Ethics) and SUENAGA Keiko (Assistant Professor, History). It is clear that patients' dignity and rights should always be respected. Under the principle, our mission is to conduct education and research mainly on bioethics, medicine and law, as well as clinical ethics and advanced medicine in order to promote the protection of patients' dignity in a medical setting.



Human and Natural Sciences  
Department of Human Sciences  
**Department of Human Sciences (Foreign Languages)**

Professor SHIMIZU Kenmei

Four foreign languages are taught now at Fukushima Medical School; English, German, French and Chinese. Almost half of the teachers are native speakers of the languages they teach. We are in the third year of the new curriculum of English in which students are encouraged to express themselves in English as well as to understand English messages. The final English course they are required to take is English Presentation Course given in the first semester of the third year. They are expected to write a passage, present the gist of the passage, ask for questions and answer them, all in English. All the English courses are taught by Professor Kenmei Shimizu (text linguistics), Associate Professor Akio Tanaka (cognitive linguistics) and two professors of the School of Nursing, Masanori Kameda (scientific English) and Hitoshi Nakayama (English linguistics). Three part-time native speakers of English complement our full-time staff.



Human and Natural Sciences  
Department of Natural Sciences  
**Department of Natural Sciences (Mathematics and Statistics)**

Professor OKADA Tatsuya

The Department of Natural Sciences provides classes on rudimentary mathematics, statistics, computer literacy, and mathematical approaches to life sciences. It also supports researchers by providing advice and guidance for statistical analysis. Our study covers fractal theory and mathematical finance based on the measure theory and stochastic calculus. Our study on fractal theory aims to systematize multifractal measures on the unit interval and digital sum problems. Our focus in mathematical finance study is on the pricing and hedging of contingent claims.



Human and Natural Sciences  
Department of Natural Sciences  
**Department of Natural Sciences (Chemistry)**

Professor SHIMURA Kiyohito

Medicine and medical materials are produced through chemical technology. Human body consists of chemical substances in the first place. Profound understanding of chemistry is essential for good practice of medicine; therefore our mission is to help students acquire basics of chemistry. We are also committed to researches with the aim to lead the world in developing analytical methods for a trace amount of proteins using capillary electrophoresis; in developing simple synthetic procedures of heterocyclic compounds using ammonium tribromide; and in the organic synthesis using transition metal catalysts.



Human and Natural Sciences  
Department of Natural Sciences  
**Department of Natural Sciences (Biology)**

Professor MATSUOKA Arika

Our aim in research is to elucidate the functions of animals and their parts at a molecular level focusing on the structure and functional relationship of the key proteins involved. Currently we focus on heme proteins, which play an essential role in maintaining aerobic metabolism. Our recent research projects are as follows: (1) Molecular dynamics of the FeO<sub>2</sub> bonding in myoglobin (Mb) and hemoglobin (Hb), (2) Mechanism of autoxidation of human HbA, HbF and sperm whale myoglobin mutants, (3) Comparative study of hemoglobin-like proteins of lower organisms such as yeast and ciliates with a focus on structure, function and molecular evolution, (4) Developmental genome rearrangements in ciliates. We employ a wide variety of biochemical, structural, and computer methods to understand the molecular mechanism of heme proteins.




Human and Natural Sciences  
Department of Natural Sciences  
**Department of Natural Sciences (Physics)**

Department Chairperson : Professor KOBAYASHI Tsuneo

We are engaged in education and research of basic and medical physics. Our faculty members are: Kobayashi, T. (Professor), Yoshida, H. (Associate Professor), and Ozawa, R. (Associate Professor). We are committed to establishing medical physics education while integrating physics, medicine, healthcare and nursing. Our researches address medical physics and related topics, theoretical astrophysics particularly gravitational lens effect in the observational cosmology, and the field of surface science and scanning tunneling microscope, each conducted by Drs Kobayashi, Yoshida, and Ozawa, respectively.

## Departments in School of Medicine

Institute of Biomedical Sciences



**Department of Biomolecular Science**  
 Department Chairperson : Professor HOMMA Yoshimi

Our research is focused on understanding the molecular basis of stress signal transduction and regulation of gene expression. We study alterations induced by persistent external stimuli in normal signal transduction pathways and in energy production system. Currently we are studying intracellular signaling initiated by various oxidative stresses. We also investigate DNA methylation in the promoter of growth-associated genes of various cells derived from patients with chronic proliferating diseases.

Institute of Biomedical Sciences



**Department of Cell Science**  
 Department Chairperson : Professor WADA Ikuo

We study cellular mechanisms that ensure maturation of newly synthesized proteins and those that handle intracellular transport of a wide spectrum of materials. Failure of these processes can cause severe damage to cells, often resulting in illness. We focus on the regulation of molecular motion and apply quantitative measurements of molecules at the level of a single molecule, using various types of microscopes e.g. FSC (fluorescence correlation spectroscopy), TIRF (total internal reflection microscopy), FLIM (fluorescence lifetime imaging microscopy) and EM (electron microscopy). In addition, we have developed various tools such as probes, and methods to study cell biology using live cells and animals. Those tools contribute in various fields of medicine.


Institute of Biomedical Sciences



**Department of Molecular Genetics**  
 Department Chairperson : Professor KOBAYASHI Kazuo

We aim to understand the neural mechanisms of motor control and learning by manipulating the brain neural circuit using genetic engineering. In particular, we focus on the study of the mechanism underlying instrumental learning by which animals learn an association between cue and response related to reinforcement. Recently, we have developed a novel viral vector that enables us to promote retrograde gene transfer, which will provide a new strategy for gene therapy of neurological and neurodegenerative diseases.


Center



**Radioisotope Center**  
 Director : Professor HOMMA Yoshimi

Radioisotope Center has a legally controlled hot area. All the experiments involving radioactive substance must be performed in the area and researchers who carry out such experiments must be legally authorized and registered to the center. The center has operated for 50 years and currently thirty-five nuclides of unsealed sources and one nuclide of a sealed source are permitted to be used in the center. We continue our service to support various radioactive experiments.

Center



**Laboratory Animal Center**  
 Specially Appointed Professor KATAHIRA Kiyooki

We believe that the use of laboratory animals is absolutely necessary for progress of biomedical research and education. The purpose of Laboratory Animal Center is to ensure highly precise animal experiments, as well as to maintain and supply good quality animals. The center is responsible for the health and welfare of laboratory animals. In addition, the center disseminates informations about and promote education on laboratory animals among researchers.

## Endowed Chair

Fukushima Medical University promotes medical engineering and industry-university collaboration through endowed chairs with a large portion of the operation budget based on endowment by companies and other entities.

Translational Research Center

### Department of Clinical Genomics

Professor WATANABE Shinya

The Department of Clinical Genomics is located within Translational Research Center. The NEDO project to realize personalized medicine and accelerate anti-cancer drug development by gene expression analysis technology is one of our undertakings. We collect and analyze samples and data of cancer tissues obtained at Fukushima Medical University Hospital and affiliated hospitals, as well as provide results and findings of analysis to partnering clinical departments and companies participating in the project. In 2011, we started development of animal cancer model and tissue culture system within Fukushima Medical-Industrial Liaison Promotion Center. We will support R&D of anti-cancer drugs and personalized cancer treatment.



### Department of Medical Engineering

Professor OMATA Sadao

The aim of the Department of Medical Engineering is to contribute to complex and sophisticated today's medical practice through development of advanced medical equipment. To achieve the aim, we integrate medicine, life sciences and engineering, which is a unique feature of the department. We also aim to contribute to prevention and early detection of diseases as well as to maintenance and promotion of health by developing noninvasive medical devices that cause less pain and discomfort to patients during examination and surgery.

School of Medicine



### Department of Tumor and Host Bioscience

Professor SHIBATA Masahiko

Nutritional, immunological and endocrinological changes can be observed in patients with advanced malignant diseases and are very important in selecting specific therapy for such patients. We study nutrition and dynamic status of vital functions such as immune reactions in cancer patients. We also perform cancer treatments including surgery, chemotherapy and immunotherapy as well as study nutritional and immunological changes of cancer patients that occur after receiving these anticancer treatments. We offer effective, patient-friendly immunotherapy and chemotherapy (immunotherapy) as well.

School of Medicine

### Department of Advanced Cardiac Therapeutics

The mission of the Department of Advanced Cardiac Therapeutics is to establish diagnosis and treatment system of sleep apnea syndrome associated with heart disease. It is indicated that sleep apnea syndrome is associated with development and worsening of many cardiovascular diseases such as heart failure, ischemic heart disease and arrhythmia. Appropriate treatment for SAS should improve cardiac function, QOL and prognosis of patients with cardiovascular diseases; therefore we aim to establish and promote appropriate methods for screening, diagnosis and treatment of the disease at the global level.

# School of Nursing



## Educational Philosophy

We encourage students to form a rich humanity, understand dignity of life and respect human life. We also prepare students to become nursing professionals to help people exercise their own ability to maintain health. Furthermore, we are determined to contribute to the development of nursing through research, and to produce nursing specialists who can adapt themselves to social changes and lead nursing, healthcare and welfare with the full understanding of their role.

## Admissions

The School of Nursing candidates are those who:

- Care for people and are willing to protect lives and health.
- Try to understand things from various perspectives and have scientific inquiries.
- Learn from their life experiences and endeavor to discover their own capabilities.
- Improve themselves through interactions with others.

## Educational Objectives

The educational objectives are to prepare students to become healthcare professionals who:

1. Care for people, and deeply understand the dignity of life and human rights.
2. Understand themselves and build good relations with others.
3. Think logically and critically of a variety of facts and phenomena.
4. Foster applied skills and imagination to practice systematic knowledge in medical settings and researches.
5. Learn up-to-date nursing skills, as well as integrate theory and experience to implement appropriate nursing care.
6. Perform leadership and take responsibilities in promoting innovation and team work.
7. Understand the needs of people in local communities and provide necessary information and useful proposals.
8. Understand the role of nursing professionals and exercise their skills in academic and international arena.

## Message / Nurture today's competent nursing professionals

We've seen outstanding progress being made in medical science and medical technology. Today, nursing professionals are required to not merely assist in the medical field, but to improve quality of life of patients as well as to educate local communities on disease prevention, treatment and after care. The unprecedented disaster we have been facing since March 11 when devastating earthquake and tsunami hit the Tohoku region and triggered the nuclear power plant accidents has made us think it's more important than ever to foster healthcare professionals capable of disaster nursing. We continue our efforts to address health problems of the victims, collect information such as nursing needs and support those in need. Furthermore, nursing professionals are also expected to be a member of society with a keen sense of humanity. Therefore, it is crucial to improve your communication skills, develop creativity necessary to solve problems with multi-faceted approach, foster curiosity, and keep up with social issues.

The campus is located on lush grounds where you can sense seasons. Students enjoy study and extracurricular activities with their peers.

The goal of the School of Nursing is to prepare students to have a rich sense of humanity and maintain respect for human and life. We will support you to become nursing professionals of the highest caliber who can address societal needs with the nursing expertise and skills.



SUZUKI Junzo, MD, PhD  
Dean of School of Nursing

## Departments in School of Nursing



Department of Integrated Arts and Sciences

### Foreign Languages

Professor KAMEDA Masanori

As a faculty member of the Centre for Integrated Arts and Sciences (CIAS), I mainly teach English for Medical Purposes (EMP) at both undergraduate divisions of nursing and medicine and the postgraduate division of medicine. My previous publications concerning EMP are: Logico-linguistic Functions of Modal Qualifiers and Reason and Conclusion Indicators in Medical English: A study of Medical English as the Language of Science (2006), Causative Language in Medical Context (2008) and On the first-Person Psychological sentences in Pain Expressions (2009). At present, I am wrestling with the language of pain in clinical discourse and language and the inhuman in postmodern condition.



Department of Integrated Arts and Sciences

### Foreign Languages

Professor NAKAYAMA Hitoshi

The central concern of my linguistic studies is the interface between English usage and pragmatics (a cognitive study of linguistic communication). Through investigating the correlation between these areas, I attempt to provide explanations on how English expressions are used appropriately in terms of speaker's intention and hearer's interpretation of utterance. Part of the outcome of the study is applied to English education such as grammar, discourse comprehension, better descriptions of EFL dictionaries, etc. In medical and nursing schools education, I provide students with various kinds of English knowledge and skills as well as comparative studies between English and Japanese that help them develop their communicative abilities required in the medical profession.



Department of Integrated Arts and Sciences

### Psychology

Department Chairperson : Professor SHIGA Noriaki

We have experienced many changes in our ways of life in modern Japanese society. A lot of changes in our recent life-styles are said to influence our mental health, causing functional changes of autonomic nervous system, endocrine system and immune system. Malfunction of these systems caused by life-changing experiences can lead to stress-dependent psycho-somatic diseases including depression. Depression is the state of fatigue of the whole body due to life-changing experiences including object-loss. We aim to provide interdisciplinary instructions on how to keep our mind free from depressive states and how to keep ourselves healthy in spite of stress on everyday life.



Department of Integrated Arts and Sciences

### Sociology and Anthropology

Associate Professor TACHIYANAGI Satoshi

Sociology and Anthropology mainly deals with two research themes. First is on the Japanese agricultural civilization, especially:  
 (1)The non-paddy fields agricultural civilization  
 (2)The complexity of paddy agricultural civilization and non-paddy or swidden cultivation  
 (3)The social structure of non-paddy farming village and swidden cultivation  
 Second is on how to care for children. Main subjects are as follows:  
 (1)What the community center for children should be.  
 (2)How to support and train child-care workers by action research method.  
 (3)How to formulate child welfare and community-based learning policies.



Department of Integrated Arts and Sciences

### Health Informatics and Epidemiology

Professor HAYASHI Masayuki

Health informatics is an integrated science of IT, C&C, statistics and epidemiology and applied to health care and medical cure. We study improvement of health strategies and policies of health care and cure system as public security and welfare. We have analyzed 10 years of rural cohort data about relationship between health status, medical cure, long term care and so on. We find cause-effect trend that health care cost is low on well general health management by co-operation of citizens, medical clinics and rural government, and that co-operation is the most important system in aging society medical care.



Department of Human Life Sciences

### Pathophysiological Sciences

Professor SUZUKI Junzo

Pathophysiological Sciences are a study to understand development and progression of diseases while understanding specificity of each disease, clinical condition and functional changes of the human body based on the perspective of nursing science. We provide education on physiology, symptoms, diagnostics, treatment, progression and prognosis of various diseases including circulatory, gastroenterological, metabolic and endocrine, renal and urinary diseases.



Department of Human Life Sciences

### Human Structure & Function

Department Chairperson : Professor HONDA Takashi

We are responsible for providing education and practical training to nursing students on basic medicine, especially on anatomy, physiology, pathology and pharmacy. Our current researches cover a wide variety of subjects, including molecular biology, neurobiology and ultrastructural morphology. We are particularly specialized in pain mechanism and cancer metastasis. We pursue research related to biology of disorders with the aim to elucidate basic mechanisms of diseases and find effective therapeutic interventions. In addition, we are responsible for management of the Morphology Laboratory on the second floor of Building of School of Nursing and its research instruments.



Department of Human Life Sciences

### Human Structure & Function

Associate Professor MORI Tsutomu

We are responsible for education on biochemistry and nutritional science. Biochemistry is a study of human body in terms of molecule and function, while nutritional science is a study to improve and maintain health and well being based on biochemistry. Our mission is to help students experience the joy of natural science. Our research subject is cancer biology with the focus on cell cycle, proteolysis, and chromatin structure. We are determined to elucidate mechanisms of development and progression of cancer through various joint research projects focusing on NIRF gene family.

## Departments in School of Nursing

Department of Fundamental Nursing

### Fundamental Nursing

Department Chairperson : Professor YOKOTA Motomi

Nurses serve many people, not only those who are being treated and recovering from diseases and injuries, but also people with chronic diseases and disabilities as well as people who want to improve their health and prevent disease. The fact underlines the importance of nurses having the ability to provide care based on creative, skillful, and unique nursing methods. Students will study the foundations of nursing care. Furthermore, we encourage students to study and develop basic nursing methods.

Department of Fundamental Nursing

### Nursing Management

Associate Professor SATO Yoshiko

Nursing Management contains the word “manage”, whereby it can be regarded as a study to manage people. In fact, it is a study to improve health care environment of those receiving nursing care i.e. those with diseases or health problems, and those providing nursing care i.e. nurses, health nurses and midwives. Where people gather and where there is a mission, you can see organizations and teams shaped. We, as nursing professionals, provide education on nursing environment from regional, national and global perspectives.

Department of Clinical Nursing

### Adult Nursing

Department Chairperson : Professor MAKABE Reiko

Department of Clinical Nursing focuses on individuals with health problems, particularly adults and the elderly, as well as their family members. Our aim is to develop nursing knowledge and skills, and improve health and quality of life of patients at the end of life.

Department of Clinical Nursing



### Adult Nursing

Professor ARAKAWA Shoko

Adult Nursing focuses on nursing care for adults with various complications, acute or chronic health problems in diverse health care settings. We provide education on how to improve and maintain health of people and how to help patients recover from their health problems. We support students to learn nursing methods through lectures, laboratory work and study of specific clinical experiences of patients.

Department of Clinical Nursing



### Gerontological Nursing

Associate Professor ODAIRA Hiroko

Gerontological Nursing is a study of nursing of people aged 65 or above with the aim to understand the elderly and their environments, as well as how to better assist them and how to deal with their health issues. We focus on nursing care for the elderly so that they can enjoy healthy life. Communication with elderly patients should be based on the understanding of each patient's life and history.

Department of Family Nursing

### Mental Health and Psychiatric Nursing

Department Chairperson : Professor NAKAYAMA Yoko

Mental Health and Psychiatric Nursing consists of Psychiatric Nursing, Psychiatric Consultation-Liaison Nursing and Community Mental Health Nursing. We aim to promote mental health of people and early interventions for mental health problems; to help mentally ill people live a stable life in community; and to support rehabilitation of long-stay patients with mental disorders. In particular, we explore nursing intervention to reduce mental health problems of patients by assisting their daily activities. As Japanese mental health service has shifted from hospital-based care to community-based care, we work to promote and support return-to-community of patients admitted to psychiatric hospitals for a long term, so that they can live in their community while receiving care by local mental health care professionals.

Department of Family Nursing



### Family Nursing

Associate Professor HATAKEYAMA Tomoko

Suppose you live with your family and become ill. The lives of your family members will be affected in some way or another, which can consequently cause another illness within your family. The opposite is equally true: Family members interact with each other. As modern lifestyles are increasingly diversified, Family Nursing deals with not only individuals who have become ill but also with their family members.

Department of Family Nursing

### Nursing Care of Children

The goals of Nursing Care of Children are to understand care for children, adolescents and their families, and to learn the basis of growth, development and health problems of children. We offer lectures on basic knowledge regarding growth, development and health problems of children and those on how to support children at various health status, while encouraging students to learn the rights of children and their families. Nursing Care of Children deals with not only children but also with their families and we help students to learn the role of family and how to help family members of sick children.

## Departments in School of Nursing

Department of Public Health and Home Care Nursing

### Home Care Nursing

Department Chairperson : Professor YUKI Michiko

We aim to provide excellent, high quality nursing service by addressing social changes and various needs for nursing service. Our research subjects include collaboration between outpatient department of a hospital and community, maintenance and promotion of health of the elderly and home care of patients.

Department of Midwifery and Maternal Nursing

### Midwifery and Maternal Nursing

Department Chairperson : Professor OHTA Misao

Maternal nursing is the field of nursing that focuses on issues related to women's health. It is aimed at women in the maternity cycle (pregnancy, delivery, postpartum), their families and their partners. Its focus also extends to the whole lifecycle of women, involving such stages as puberty and menopause. The midwifery curriculum is the course for those who want to become midwives. It involves learning about much more than assistance with delivery. Learning covers the provision of assistance throughout the lifecycle, focusing on areas related to sex and reproduction. The aim is to develop professionals who can contribute to the development of practice, education and research in the field of midwifery.



Department of Public Health and Home Care Nursing

### Community Health Nursing

Professor KURODA Mariko

Community Health Nursing is a study of basic philosophy of promotion of health, improvement and maintenance of health and various activities to improve QOL. The study focuses on individuals, family, group and community.

We offer lectures mainly on nurses who work for administrative organization and nurses who work in occupational health and safety fields. The former nurses are involved in care for individuals of all ages, while the latter nurses are involved in care for workers.

# Graduate School of Medicine



## Admissions

Candidates of Fukushima Medical University Graduate School of Medicine are those who are determined to:

1. Learn highly specialized expertise on medicine and medical care
2. Become a pioneer in the field of medicine
3. Take leadership in improving medical standards of society
4. Lead the field of medicine through research and practice
5. Seek global opportunity in the fields of medicine



Poster session at annual research presentation meeting in July

## About Graduate School of Medicine

The Graduate School of Medicine aims to teach students to become researchers and clinical specialists who contribute to practice and development of medicine.

We have promoted integration of basic and clinical medicine to benefit society with our researches, improve medical standards, and promote health of people in Fukushima.

The Graduate School of Medicine offers a doctoral program and a master's program.

### Education System

#### Graduate School of Medicine

##### Doctoral Program (Student quota: 37)

###### Course for researchers

General Basic Subjects (e.g. Outline of Medical Research), Specialized Subjects, Subjects for Further Research, Special Research, Research Guidance

PhD (Medicine)

###### Course for medical practitioner researchers

General Basic Subjects (e.g. Integrated Medical Humanities, Sciences and Technology), Specialized Subjects, Subjects for Further Research, Research Guidance

PhD (Medicine)

##### Master's Program (Student quota: 10)

###### Medical Science Course

###### Social Medicine and Behavioral Science Course

###### System Medical Engineering Course

## Educational goals

1. Produce researchers who will contribute to the progress of the field of medicine.
2. Prepare students to acquire right research methodology necessary for specialist.
3. Prepare students to pioneer diverse fields of medicine.

## About Doctoral Program



The doctoral program is open to both graduates of medical schools and those of non-medical universities. Students choose either Course for Researchers or Course for Medical Practitioner Researchers. Course for Researchers aims to train students to become researchers who pioneer in medical field and make innovation. Course for Medical Practitioner Researchers is indicated for students who finished their residency and start receiving training to become specialists. The course aims to prepare students to acquire highly specialized clinical expertise and learn from clinical settings.

The Course for Researchers requires students to attend Outline of Medical Research as a compulsory subject, and also recommend them to attend Introduction to Research in Medical Science. The Course for Medical Practitioner Researchers offers Integrated Medical Humanities, Sciences and Technology as a compulsory subject, followed by Integrated Medical Humanities, Sciences & Technology. The two courses give students the basic skills and knowledge essential for their research activities.

Students select their majors from the specialized fields taught within Doctorate Coursework and Doctorate Seminar & Practicum. They can further develop and expand their research and foster the ability to solve problems by selecting and studying subjects out of their major. Furthermore, students are required to attend a series of Graduate School Seminars presented by leading scientists, so that they can learn the front line of medicine. Research Guidance is provided to students to write a thesis, which is their final task at the school.

## About Master's program

The master's program is intended for non-medical university graduates with diverse backgrounds. The aim is to produce leading researchers, technicians and medical specialists by teaching them medical sciences and multidisciplinary academic knowledge.

The curriculum of the program is designed to provide non-medical graduates with intensive education of medical science in a short term. Therefore, aside from lectures on clinical medicine, the curriculum mainly consists of lectures on basic and social medicine. Some subjects are offered as a combination of lectures and experiments to help students acquire knowledge and technical skills necessary for medical sciences. Three new courses will start in 2012 to prepare students to become specialists in research or education of medicine, medical care and related fields. They are Medical Science Course, Social Medicine Course and System Medical Engineering Course.

After completion of the master's program, we encourage students to continue their studies in the four-year doctoral program, which they can finish in three years when their accomplishments are considered to be outstanding, to learn more advanced knowledge and research methodology and improve their skills as a researcher.



# Graduate School of Nursing



## Educational Goals

1. Produce nursing professionals who have a high level of expertise and skills.
2. Prepare students to become nursing professionals who are capable of developing and studying nursing methodology.
3. Produce nursing educators who facilitate career development of nursing professionals.

## About Master's Program

The program consists of Researcher Course and CNS (Certified Nurse Specialist) Course. Researcher Course comprises six study areas; Oncology Nursing, Human Ecological Nursing, Mental Health and Psychiatric Nursing, Nursing Care of Children, Maternity Nursing and Community Nursing/ Home Care Nursing. CNS course comprises four study areas; Oncology Nursing, Mental Health and Psychiatric Nursing, Nursing Care of Children, Home Care Nursing.



## Philosophy

The goal of the Graduate School of Nursing is to contribute to innovation and development of nursing science through practice of high quality nursing care based on advanced expertise and skills; development of nursing methodology and clinical nursing research methodology; and establishment of career development system for nursing professionals.

## Admissions

Fukushima Medical University Graduate School of Nursing welcomes those students who:

1. Have motivation to develop advanced nursing methods based on practical studies
2. Are determined to acquire advanced knowledge and practical skills required of nursing professionals
3. Have motivation to contribute to communities in the fields of public health, medical care and welfare.

### ● Oncology Nursing

The objective of Oncology Nursing is to develop nursing methodology to support cancer patients and their family members throughout the process from development, diagnosis and treatment of cancer, to survival and death.

### ● Human Ecological Nursing

Human Ecological Nursing is designed to study health and health disturbance based on understanding of interactions between human and environment. It aims to develop nursing methodology necessary to address health problems including lifestyle diseases.

### ● Mental Health and Psychiatric Nursing

Mental Health and Psychiatric Nursing is designed to develop nursing methodology to support those with mental health problems to maintain their daily lives by themselves.

### ● Maternity Nursing

Maternity Nursing is designed to develop nursing methodology to support women in maternity cycle and their family members, as well as to promote women's health throughout the whole lifecycle.

### ● Nursing Care of Children

Nursing Care of Children is designed to develop methodology to support family with children to maintain their healthy lives, as well as nursing methodology to help improve QOL of children with health problems and their family members.

### ● Community Nursing / Home Care Nursing

#### (Community Nursing)

Community Nursing is designed to develop healthcare system and nursing methodology to address health issues of individuals, family and community.

#### (Home Care Nursing)

Home Care Nursing focuses on promotion of health of elderly people and reduction of burden on family caregivers. The aim is to improve nursing care for outpatients as well as home-care patients.

# Enrollment Data & Tuition

## School of Medicine

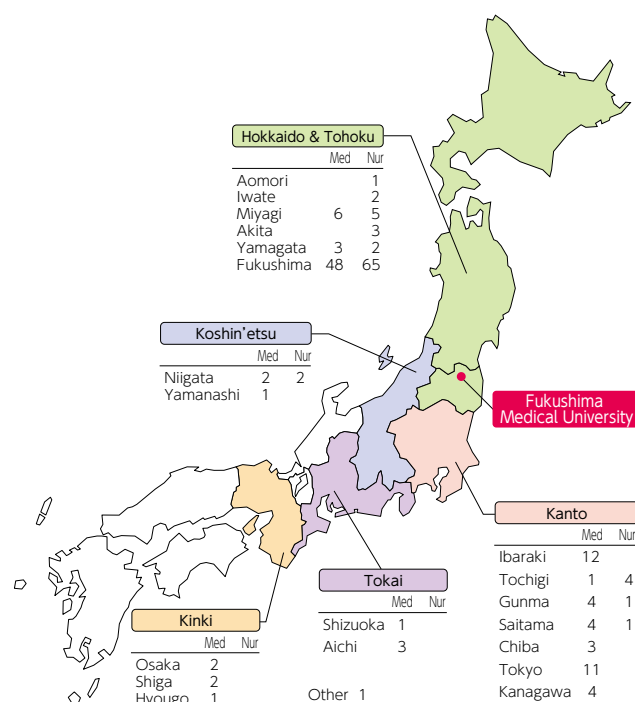
Fiscal Year	Classification	Student quota	Applicants	1st-stage test passers	2nd-stage test examinees	Students admitted	Competition rate	Breakdown of enrollees						Lowest score of 1st-stage screening
								By region		By gender		By graduation period		
								Fukushima	other	Male	Female	Freshman	Others	
FY 2009	1st phase	47	405	305	263	48	5.5	12	36	26	22	17	31	682.8
	2nd phase	23	290	200	95	23	4.1	5	18	16	7	11	12	724.0
	Recommendation	30	58		58	29	2.0	25	4	19	10	29	0	
FY 2010	1st phase	47	296	294	242	47	5.1	6	41	35	12	21	26	—
	2nd phase	23	320	204	72	23	3.1	7	16	18	5	9	14	711.8
	Recommendation	35	71		71	35	2.0	31	4	22	13	33	2	
FY 2011	1st phase	47	400	314	271	47	5.0	9	38	35	12	15	32	674.2
	2nd phase	23	415	195		23		1	22	11	12	8	15	746.0
	Recommendation	40	92		91	40	2.3	38	2	20	20	38	2	

\* Allotment of points for the first stage screening is based on a 900-point scale. The screening is done if competition rate is higher than 6 in the first phase and 8 in the second phase.  
 \* The lowest score of the first stage screening in the first phase in FY2010 was not publicized because all applicants except disqualified ones were passed.

## School of Nursing

Fiscal Year	Classification	Student quota	Applicants	2nd-stage examinees	Successful Applicants	Students admitted	Competition rate	Breakdown of enrollees					
								By region		By gender		By graduation period	
								Fukushima	other	Male	Female	Freshman	Others
FY 2009	1st phase	45	207	194	52	44	3.7	34	10	1	43	40	4
	2nd phase	10	225	100	14	12	7.1	8	4	1	11	9	3
	Recommendation	25	40	40	26	26	1.5	26	0	1	25	26	0
	For students with working experience	A few	12	11	3	3		3	0	1	2	0	3
	Transfer	10	15	14	9	6	1.6	5	1	0	6	6	0
FY 2010	1st phase	45	148	144	51	48	2.8	40	8	5	43	44	4
	2nd phase	10	172	79	12	10	6.6	5	5	0	10	6	4
	Recommendation	25	38	38	25	25	1.5	25	0	2	23	25	0
	For students with working experience	A few	14	12	4	3		2	1	1	2	0	3
	Transfer	10	20	18	10	7	1.8	3	4	1	6	1	6
FY 2011	1st phase	45	184	171	51	46	3.4	29	17	3	43	41	5
	2nd phase	10	174		12	8		5	3	2	6	6	2
	Recommendation	25	39	39	26	26	1.5	26	0	3	23	26	0
	For students with working experience	A few	7	7	2	2		1	1	0	2	0	2
	Transfer	10	19	18	8	4	2.3	4	0	1	3	4	0

## Regional distribution of enrollees



## Admission fees, tuition and other fees

### (1) Admission fees and tuition

	Classification	School of Medicine	School of Nursing
Admission fees	Fukushima Pref. residents	¥282,000	¥282,000
	Non-Fukushima Pref. residents	¥846,000	¥564,000
Annual tuition	No classification	¥535,800	¥535,800

\*Admission fees and tuition are subject to change.  
 \*Fee exemption or reduction may be applicable to those who are considered in need for financial support.

### (2) Other fees

	School of Medicine	School of Nursing
Supporters' association fee	¥250,000	¥100,000
Students' & alumni assn. fees	¥32,000	¥7,000
Premium for students' comprehensive insurance	Approx. ¥66,000	Approx. ¥47,000

\*Expenses for textbooks, laboratory equipment, etc. are excluded.

## Scholarship Programs

Fukushima Prefecture-sponsored scholarship programs; Emergent Scholarship to Secure Doctors and Scholarship to Secure Doctors for Remote Areas in Fukushima are available for medical students. The students on these scholarships will be exempted from repaying the scholarship loan on condition that they serve at designated medical facilities in Fukushima Prefecture for a specified period after graduation. Other scholarship programs sponsored by municipalities or organizations are also available. Please contact us for more information.

## II Initiatives for fostering healthcare professionals



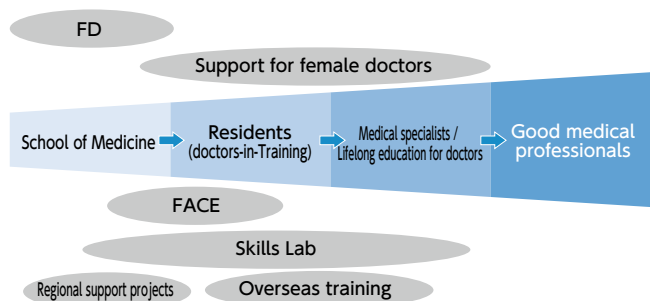
## Overview of Clinical Training

To foster good healthcare professionals for the next generation  
-Excellent clinical training and educational support system-

Fukushima Medical University Hospital accepts many interns across Japan. Our unique training curriculum includes a basic training focused on EBM (Evidence-Based Medicine), and a training for emergency medicine and common diseases. The university is the nation's first to introduce a medical specialist training course and a six-year postgraduate training system.

In addition to those trainings, the university support students and physicians through Center of Medical Education and Career Development (CMECD). The center is making various efforts including education of students and support for physicians throughout their career.

Fukushima Medical University maintains well-organized training program, facilities and environment, all of which benefit residents.



## Goals of Clinical Training

- To foster a sense of ethics and humanity as a doctor
- To foster basic diagnostic ability
- To foster willingness to collaborate closely with community.



## Image of clinical interns at a glance

	Initial training	Advanced training (Medical specialist training course)	
Status in hospital	Clinical interns	Advanced-course interns (Senior resident)	Assistant Hospital assistant
Relationship with university	(Multiple application not accepted)	Graduate students (Multiple application accepted) Postgraduate research students (Multiple application accepted)	
	Year 1   Year 2	Year 3   Year 4   Year 5	Year 6   Year 7   Year 8   Year 9 onward
			Acquisition of a doctorate

\*From FY 2011, advanced-course residents will be called "Senior residents."

## Excellent primary care training: Department of Community and Family Medicine

The Department of Community and Family Medicine offers those who aim to qualify as specialists in family medicine the advanced residency training program accredited by the Japan Primary Care Association. It also promotes Academic Family Medicine through specialists training and a doctoral program in family medicine with the focus on community-based clinical research.

Training curriculum is designed to enable residents to

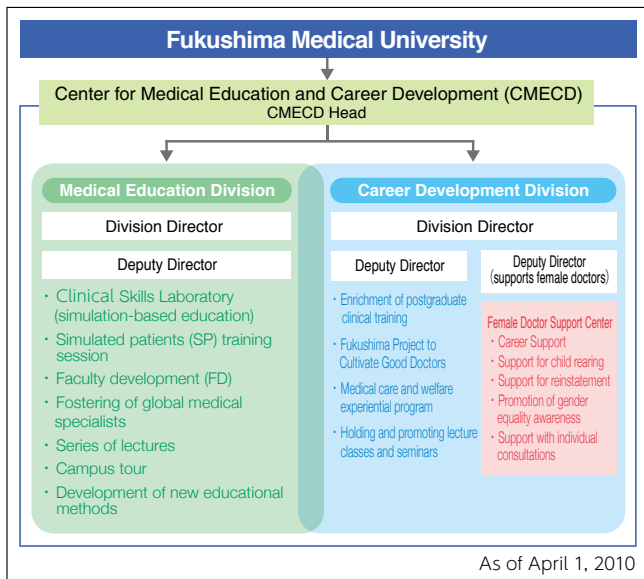
1. Acquire communication and management skills as well as professionalism
2. Acquire knowledge and skills to address various health problems
3. Improve abilities necessary for a family doctor. They include ability to provide patient-centered medical care and family care, ability to provide comprehensive, streamlined medical care, and ability to provide medical care for whole community.

We have the largest network with family doctors around the world. Residents and staff are given opportunities to attend study tours abroad, make presentation of their researches and join workshops at international conferences, and study abroad on fellowship. In all, our curriculum helps them exercise their abilities locally, nationally, and globally.



# CMECD : Center for Medical Education and Career Development

CMECD was established in 2008 in order to accommodate an increasing number of medical students enrolled and to enhance medical education and clinical training. The center consists of two divisions; Medical Education Division and Career Development Division. The two divisions complement each other to optimize the services they provide.



## Skills Lab: Clinical Skills Laboratory

A variety of simulated environments are available at the laboratory. Learners including medical students, nursing students, interns and hospital staff can use them throughout their educational programs.



The laboratory's human body simulators and models enable learners to acquire clinical competencies and techniques, and allow for trainings as many times as they want. As the result of the improvement of their skills, physical and mental strain on patients can be mitigated and potential risks such as complications can be avoided.

## Examples of simulators in use

Skills Lab, Basic 2F, School of Nursing Bldg.	<ul style="list-style-type: none"> <li>Physical examination simulator</li> <li>Physical assessment model</li> <li>Blood gathering and injection simulator</li> <li>Surgical techniques (suture)</li> <li>Bedside techniques</li> <li>CV techniques</li> </ul>
Skills Lab, Advanced 5F, Liberal Arts & Sciences Research Bldg.	<ul style="list-style-type: none"> <li>Heart and lung sound simulator</li> <li>Auscultation system</li> <li>Resuscitation training system</li> <li>3D endoscope simulator</li> <li>Laparoscope simulator with 3D tactile functions</li> <li>Electrocardiograph</li> <li>Ultrasonographic phantom (Model with thoracic and epigastric lesions)</li> </ul>
Skills Lab, Operating Room (3F, Hospital)	High functional fidelity patient simulator

## FD: Faculty Development



Faculty Development refers to training of the teaching staff. Not only does FD give orientation to newly appointed teachers, it also provides professors and associate professors with update on concept and methodology of education. FD became mandatory in 2008 for all universities and colleges in Japan in order to maintain or further improve quality of education.



Education of medical students and residents needs to be modified in accordance with the progress of medicine and changes in clinical settings. In response, the center hosts FD Workshop to help faculty members learn latest topics on medical education. It also started an open FD seminar in 2008 where leading professionals are invited to deliver lectures addressing the role of university hospitals, as well as the ethics required of healthcare professionals and medical researchers.

## Fukushima Project for Cultivating Good Doctors

The project is one of CMECD's undertakings and its seminars help physicians learn and combine knowledge and skills acquired through trainings and case studies. By offering more than just training, the project seeks to cultivate "good doctors" competent to provide high-quality medical services.



Fukushima Advanced Course by Experts (FACE)

## Produce global healthcare professionals

Foreign language skills, especially English presentation and communication skills are fundamental for medical specialists and clinical researchers. In response, the center offers English communication skills seminars, overseas training sessions, etc., to help physicians improve their English skills.



## Communication in Medical Service

Despite the importance of communication skills in clinical settings, education and training programs had not been sufficient.

In response, CMECD launched SP (Simulated Patient) project in 2008. Simulated Patients help students and young medical healthcare professionals improve their medical communication skills through simulated medical consultation where SPs play roles as patients in various conditions.



## — Career Support Center for Female Physicians —

Female students account for approximately 40% of the Fukushima Medical University students and the proportion of female physicians has been increasing. These facts underline the importance to support career development of female physicians. Career Support Center for Female Physicians was established in 2010 for the sake of their long-term career.



Fukushima Medical University implements five projects as follows:

- 1. Career support:** Make it easier for anyone to take leave whenever and as long as necessary.
- 2. Child care support:** Provide information on child care facilities and services as well as maintain own child care services intended for sick children.



A day-care center for sick children opened in 2011 within the university, where sick children are looked after in order to help female physicians with children.

- 3. Reinstatement support:** Support reinstatement of female physicians whose careers are suspended by childbirth and child care.
- 4. Gender equality awareness:** Improve gender equality awareness through symposiums, meetings and such.
- 5. Individual consultation services:** A female coordinator/physician offers personal consultation.

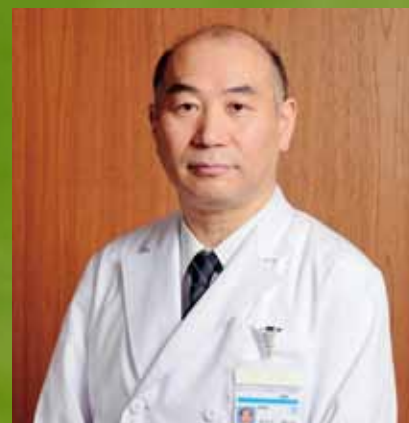


## III Introduction of Fukushima Medical University Hospital

### Message To improve community healthcare and nurture healthcare professionals

The history of Fukushima Medical University Hospital dates back to 1950 when it started its operation in parallel with the foundation of Fukushima Medical University. We have not only contributed to improvement of community healthcare in Fukushima, but also produced excellent healthcare professionals with the right knowledge and techniques. Now a number of our graduates contribute to improvement and progress of medical care.

In the wake of the Great East Japan Earthquake that hit Tohoku region on March 11 and subsequent accidents at Fukushima No.1 nuclear power plant, all of the hospital staff have made concerted effort to serve as a prefectural core hospital and the secondary medical institution for radiation casualties. The hospital's good heritage and our latest accomplishments in education, medical care and research have helped our efforts go successful to cope with the difficult situation. Fukushima Medical University serves as a center for health management of all people in Fukushima, not to mention refugees and workers at the nuclear power plant. We will continue providing advanced, safe, high quality medical care and producing healthcare professionals. We are also determined to be a reconstruction base for community healthcare in Fukushima in order to restore confidence in living in the prefecture amid the concern about low dose but long-term exposure to radiation.



MURAKAWA Masahiro, MD, PhD  
President of Fukushima Medical University Hospital

## About Fukushima Medical University Hospital

The origin of Fukushima Medical University dates back to the 1870s. It underwent a number of difficult times, including abolishment of the school. However, its establishment as a public medical university was finally approved in 1952, when the university hospital was also founded, thanks to the efforts and support of the staff and people in Fukushima.

It serves as a general hospital with 30 clinical departments and 778 beds, offering advanced medical care. The average numbers of inpatients and outpatients per day are 632 and 1,376 in 2010, respectively, which represents our popularity with the people in Fukushima. We will continue improving our service to meet people's diverse medical demand and needs.



## Basic philosophy

**We accommodate public needs with excellent medical care.**

All staff are united and committed to helping people maintain their health and overcome disease.

## Basic policy

- We provide patients with medical care that meets high ethical standards and is based on respect for their lives, rights and privacies.
- We provide the most advanced medical care that meets the individual needs of patients.
- We produce genuine, competent healthcare professionals who will support the future of the people in Fukushima.
- We are committed to the collaboration with the local community and determined to create innovation that will lead to better medical service.
- We benefit people's health locally and globally with our accomplishments in medicine.



## Fukushima Medical University Hospital - Organization

<b>University Hospital</b>
Department of Clinical Quality Management; Department of Infection Control; Department of Medical Information; Department of Community Network
<b>Clinical Division (30 services)</b>
Cardiology; Hematology; Gastroenterology; Rheumatology; Nephrology & Hypertension; Diabetology, Endocrinology & Metabolism; Neurology; Pulmonary Medicine; Chest Surgery; Gastrointestinal Surgery; Hepato-Biliary Pancreatic & Transplant Surgery; Breast, Endocrine & Thyroid Surgery; Pediatric Surgery; Neurosurgery; Orthopaedic Surgery; Cardiovascular Surgery; Plastic & Reconstructive Surgery; Obstetrics; Gynecology; Pediatrics; Ophthalmology; Dermatology; Urology & Adrenal Endocrine Surgery; Otolaryngology - Head & Neck Surgery; Neuropsychiatry; Radiology; Anesthesia & Pain Medicine; Diagnostic Pathology; Dentistry & Oral Surgery; Emergency Medicine
<b>Central Clinical Facilities (16 facilities)</b>
Department of Clinical Laboratory Medicine; Medical Imaging Center; Surgical Center; Intensive Care Unit; Maternal & Perinatal Center; Department of Pathology; Department of Blood Transfusion & Transplantation Immunology; Department of Community & Family Medicine; Department of Endoscopy; Rehabilitation Center; Emergency & Critical Care Medical Center; Clinical Oncology Center; Clinical Engineering Center; Hemodialysis Room; Food and Nutrition Services Department; Supply Center
<b>Intra-hospital Units (2 units)</b>
Nuclear Medicine Clinic; Central Blood Collection Room
<b>Gender-Specific Medicine Center</b>
<b>Clinical Research Center</b>
<b>Department of Allied Health Professionals</b>
<b>Department of Nursing</b>
<b>Department of Pharmacy</b>
<b>Hospital Administration</b> (Hospital Management Division) (Medical Affairs Division) (Medical Cooperation and Consultation Section)

## Development of medical services/ Cooperation with regional medical services

### Doctor Helicopter Service

The first doctor-helicopter in the Tohoku region began operation in January 2008. An emergency physician and nurses rush to patients by helicopter and immediately take them to hospital while providing them with on-site emergency care in collaboration with local rescue service.

A doctor helicopter can travel as fast as 200km/h. The service is available every day. The prefectural fire department judges whether to request dispatch of a helicopter upon receipt of an emergency call from public. The total number of dispatch remarked 1,143 as of May 2011, which includes the dispatches during the Iwate-Miyagi Nairiku Earthquake in 2008 and the Great East Japan Earthquake in 2011. The importance and capability of the service has been growing.



### Features of Doctor Helicopter

The operation of doctor helicopter is currently in place in 26 locations of 22 prefectures. An operation team usually consists of a pilot, mechanic and communication specialist (CS). Operation teams take shifts every day so that the operation is not suspended.

A team prepares for dispatch in only three minutes after receiving a request, while issuing dispatch instructions to other staff members concerned. A doctor helicopter accommodates up to six persons including a patient, pilot, mechanic, physician and nurse. Inside the cabin are also a stretcher and various medical devices (As of May 31, 2011).



## 1F



### Entrance Hall

Location of each clinical department and other facilities are shown on the board using colors and alphanumeric codes. Other information is also available at the Information Counter.



### Coffee Shop

A coffee shop is located near the entrance.



### Radiography Suite for Kids

The walls are decorated with lovely paintings for pediatric patients. These are Fukushima Nishi High School students' work.



### Rehabilitation Center

The center offers exercise therapy and speech therapy for patients to improve their QOL.



### Endoscopy Division

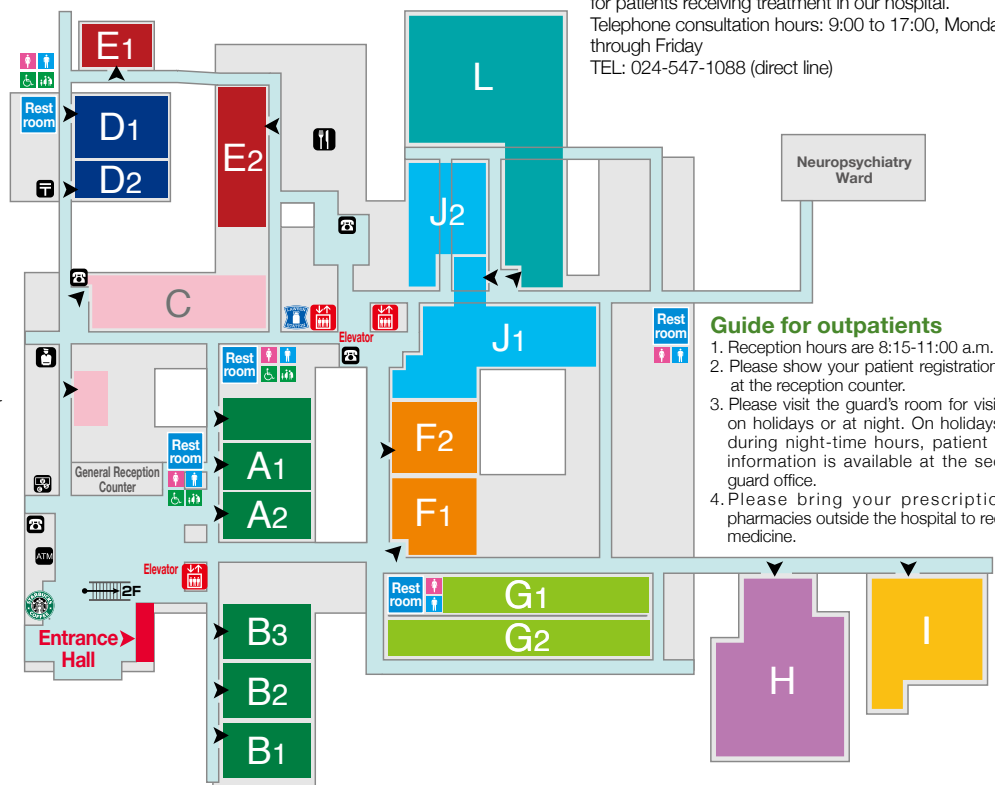
The division mainly conducts endoscopic examination and treatment of upper and lower gastrointestinal tract, gallbladder and pancreas.



### Clinical Oncology Center

The center operates Ambulatory Chemotherapy Center and registers cancer patients. It also has Consultation Center where patients and their family can consult with medical advisors either face to face or on the phone. Consultation service is not exclusive for patients receiving treatment in our hospital.  
Telephone consultation hours: 9:00 to 17:00, Monday through Friday  
TEL: 024-547-1088 (direct line)

- A1** General Outpatient Internal Medicine (first examination)
- A2** Neurology
- C** Critical Research Center
- B1** Cardiology; Hematology; Cardiovascular Surgery
- B2** Gastroenterology; Rheumatology
- B3** Nephrology & Hypertension; Diabetology, Endocrinology & Metabolism
- C** Emergency Medicine
- C** Medical Liaison & Consultation office
- D1** Orthopedic Surgery
- D2** Clinical Oncology Center; Oncology Counseling and Support Center Fukushima Cancer Philosophy Clinic
- E1** Rehabilitation Center (Circulatory Function Rehabilitation) (Speech/Auditory Rehabilitation)
- E2** Rehabilitation Center (Motility & Respiratory Function Rehabilitation)
- F1** Radiology Division Reception Counter
- F2** Pulmonary Medicine
- G1 G2** X-ray Rooms
- H** High-energy Radiotherapy Ward
- I** MRI Ward
- J1** CT Room
- J2** Department of Endoscopy
- L** Nuclear Medicine Clinic



### Guide for outpatients

1. Reception hours are 8:15-11:00 a.m.
2. Please show your patient registration card at the reception counter.
3. Please visit the guard's room for visitation on holidays or at night. On holidays and during night-time hours, patient room information is available at the security guard office.
4. Please bring your prescription to pharmacies outside the hospital to receive medicine.

## 2F



### Department of Clinical Laboratory Medicine

The department conducts clinical laboratory tests of blood, urine, biochemistry, tumor marker, infectious disease, allergy, electrocardiogram, brain wave, ultrasound, pulmonary function, and genetic screening on a 24-hour basis.



### Department of Blood Transfusion & Transplantation Immunology

The department takes care of logistics of blood preparations and conducts various examinations before supplying them to patients in order to ensure safe and effective transfusion and transplantation. It also deals with compatibility test of bone marrow and organ transplants from brain-dead donors.



### Dentistry & Oral Surgery

The department is capable of providing treatment of oral diseases including tumor and deformities, as well as surgery of jaw fracture caused by accident. It also offers advanced medical care such as dental implantation.

- |   |  |
|---|--|
| <b>P1</b> Otolaryngology-Head & Neck Surgery  | <b>V1</b> Department of Blood Transfusion & Transplantation Immunology   |
| <b>P2</b> Ophthalmology   | <b>V2</b> Anesthesia & Pain Medicine                                     |
| <b>Q</b> Pediatrics   | <b>V3</b> Dentistry & Oral Medicine                                      |
| <b>R</b> Hemodialysis Room  | <b>W</b> Reception Counter of Department of Clinical Laboratory Medicine |
| <b>S</b> Obstetrics & Gynecology  | <b>X1</b> Gender-Specific Medicine Center                                |
| <b>T1</b> Urology & Adrenal Endocrine Surgery   | <b>X2</b> Plastic & Reconstructive Surgery                               |
| <b>T2</b> Neurosurgery  | <b>X3</b> Diagnostic Pathology   |
| <b>T3</b> Dermatology   |  |
| <b>U1</b> Neuropsychiatry   |  |
| <b>U2</b> Minimally Invasive Advanced Surgery; Breast, Endocrine & Thyroid Surgery    |  |
| <b>U3</b> Gastrointestinal Surgery; General Surgery; Chest Surgery; Pediatric Surgery |  |



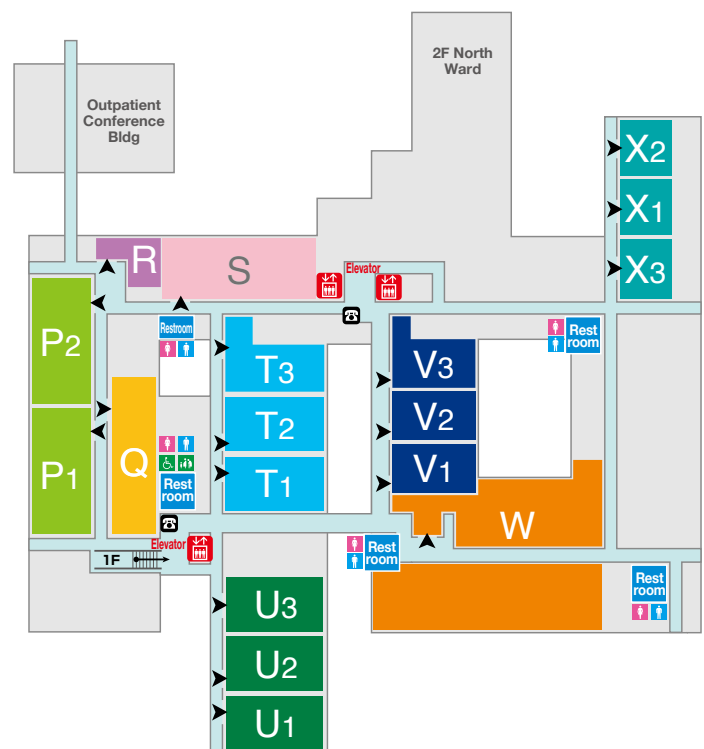
### Pediatric Service

Pediatric Service deals with wide range of diseases of children including newborns. They include circulatory, blood, and renal diseases, malignant tumor, allergy, and infectious diseases.



### Gender-Specific Medicine Center [Advance appointment only]

Female patients can consult with female physicians about their health problems peculiar to women.  
Appointment hours: 9:00~12:00 and 13:00~16:00, Monday through Friday  
TEL: 024-547-1407 (direct line)



## Ward Guide

Visiting hours: 13:00~20:00

\* Please visit nurse station for visitation beyond the above hours.

- Elevators are available for each ward.
- Nurse station is located near an elevator of each ward.



(Photo) Nurse station

### Department of Nursing

The goal of the department is to provide safe and consistent nursing care to patients. Therefore, it forms 7:1 nursing system (one nurse for seven patients) and a patient can be cared by the same nurses from the beginning of his/her hospitalization to discharge. In addition, the department has increased the number of Certified Nurses who have special expertise and advanced skills in a specific field. We continue improving our nursing quality.

West Wing		East Wing
10F West Ward Rooms 1001~1030	<b>10F</b>	10F East Ward Rooms 1051~1080
9F West Ward Rooms 901~930	<b>9F</b>	9F East Ward Rooms 951~978
8F West Ward Rooms 801~830	<b>8F</b>	8F East Ward Rooms 851~878
7F West Ward Rooms 701~730	<b>7F</b>	7F East Ward Rooms 751~781
6F West Ward Rooms 601~630	<b>6F</b>	6F East Ward Rooms 651~680
5F West Ward Rooms 501~530	<b>5F</b>	5F East Ward Rooms 551~581
4F West Ward Rooms 401~428	<b>4F</b>	Center of Emergency Medicine
3F West Ward (Obstetrics) Rooms 301~325 Delivery Room; Newborn Nursery Maternal & Perinatal Center	<b>3F</b>	Intensive Care Unit (ICU) Division ICU Family Waiting Room Surgical Center; Supply Center Ambulatory Chemotherapy Center

# 3F



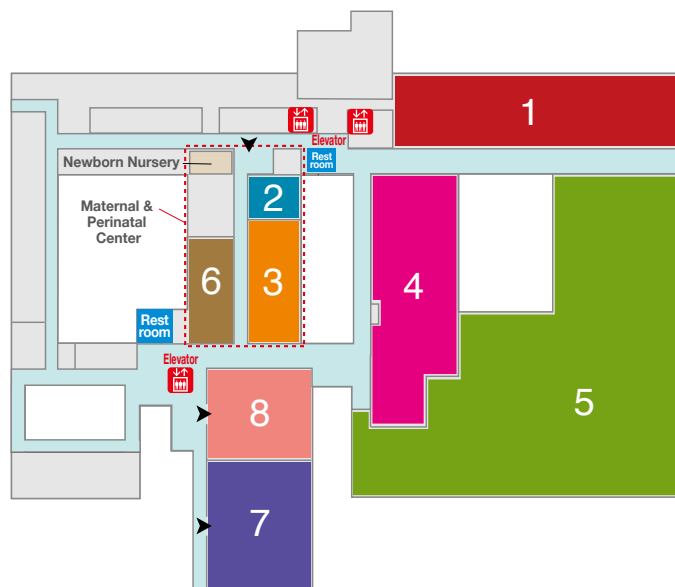
### Ambulatory Chemotherapy Center

The center is intended for outpatients, where they can receive anti-cancer treatment as well as instructions that help them perform self-care at home.



### Perinatal & Maternity Care Center

This center consists of Maternal & Fetal Medicine Division and Neonatology Division. Cross-divisional conferences facilitate improvement of the quality of medical care and allow for smooth operation of the center.



- |   |  |
|---|--|
| <b>1</b> Intensive Care Unit (ICU) Division | <b>5</b> Surgical Center   |
| <b>2</b> MFICU (Maternal & Fetal Medicine)  | <b>6</b> NIU (Neonatology)   |
| <b>3</b> Delivery Room                      | <b>7</b> Medical University Branch of<br>Sukagawa School for Disabled Children |
| <b>4</b> Supply Center                      | <b>8</b> Ambulatory Chemotherapy Center  |

## Center for Academic Information Services (Library/Medical Museum)



The center was founded in April 2006 by consolidating functions of a library, medical museum, center for information education and information network. The library houses approximately 216,000 books and 7,500 journals (as of March 2011) mainly on specialized materials of medicine, nursing and health care. The center serves as the core facility for medical information in Fukushima Prefecture by providing information on the latest medicine, nursing and healthcare through a network with other libraries in the prefecture and CD-ROM information search service. The adjacent Medical Museum houses various specimens, which are widely used for education and scientific research.



University Library



Medical Museum

Floor	
2	<b>University Library</b> Reading Room/Office/Chief Librarian Room/ Information Management/Copy Room <b>Medical Museum</b> Reading Room/Free Reading Room/Private Room
1	<b>University Library</b> Reading Room/Free Reading Room/Private Room

## Welfare Facilities



Welfare Program and Public Welfare Building



Cafeteria



Shop



Student Hall

Welfare facilities include the student hall, lounge, cafeteria, shop, etc.

Floor	
2	Student Hall
1	Cafeteria, Shop

## Auditorium



Auditorium

The largest hall of the auditorium houses 500 seats. Waiting rooms and small meeting rooms are also available.



Hall

The auditorium has excellent lighting and audio equipment and is used for the university's events such as entrance ceremony, seminars and academic conferences.

## Hikarigaoka Hall

This is the alumni house contributed by graduates of the school of medicine. It has a large conference room, Japanese-style room, etc and is used for various events of the university such as academic conferences and alumni reunions.

Floor	
2	Large Conference Room/Small Conference Room
1	Alumni Association/Office/Japanese-style Room



## Gymnasium/Athletic Facilities



Swimming Pool



Gym



Martial Arts Hall



Tennis Court



Athletic Field



Baseball Field



Exterior of Gymnasium

The gymnasium houses a training room, 50-meter hot swimming pool, facilities for judo and kendo and private rooms. The athletic field includes a 400-meter running track, baseball field, archery range and tennis court.

Floor	
3	<b>Martial Arts Hall</b> Judo Club/Taido Club/Kendo Club/Karate Club/Art Club/Photo Club/ Society for Study of Basic Medicine/Golf Club/Mountaineering Club/ Archery Club/Rugby Club/Light Music Club/Mixed Chorus/ Orchestral Music Club/Speed Skating Club/Guitar Club
2	<b>Gymnasium</b> Basketball Club/Ski Club/Go Club/Red Cross Services Group/Volleyball Club/ Badminton Club/Yacht Club/Backpacking Club/Table tennis Club/ Swimming Club/Soft Tennis Club/Soft-ball Tennis Club/Rowing Club/ Semi-hard Baseball Club/Soccer Club/Athletic Club
1	<b>Pool</b>

## Administration building

Each office and division in the building is involved in administration and management planning of the university. The student counseling room is available for our students for consultation about their campus life and their career after graduation.

	Floor	
President's Room; Vice President's Room; Human Resources Development Planning Director's Room; Education Director's Room	3	Management Director's Room; Business Liaison Director's Room; Community Medical Planning Director's Room; General Affairs Division; Planning and Financial Affairs Division; Research Promotion Division
Dean's Room (Student Affairs) Student Affairs Division	2	Department of Medical Information; Student Counseling Room
General Affairs Division (Administration of Property Charge/ Institution Charge)	1	Dean's Room (School of Medicine); Day-care Center "Suku-Suku"; Conference Room 1

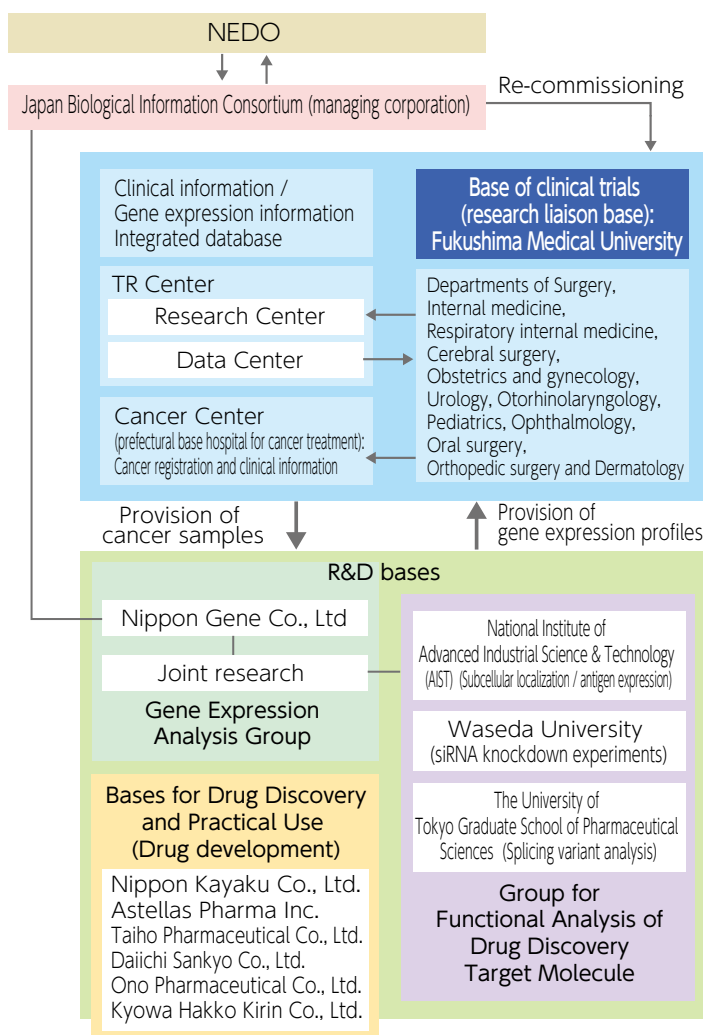


Entrance Hall of Administration Building

# Industry-Academia Collaboration in Medical Service

## Collaboration between TR Center and NEDO (New Energy and Industrial Technology Development Organization)

The Translational Research Center (TR Center) of Fukushima Medical University links basic research with cancer treatment and development of anti-cancer drugs. Under the NEDO project to realize personalized medicine and accelerate anti-cancer drug development by gene expression analysis technology, the center provides samples and data of cancer tissues obtained from Fukushima Medical University Hospital and its affiliated hospitals to partnering universities and companies for analysis. Findings from comprehensive analysis of gene expression in those cancer tissues are made available to referring physicians where necessary. The center facilitates interaction between laboratory and medical front in this regard. The aim is to establish "Fukushima Model" within the center, a model of close interaction among laboratory, medical front and business, and to realize personalized cancer treatment.



## Fukushima Medical-Industrial Liaison Support Center

The center was just established in June 2011, followed by the commencement of its operation in July. It is designated as Japan Science and Technology Agency's center for regional industry-government-university collaborative research with the aim to stimulate economy by promoting interaction between medical institutes and industries, as well as to improve the quality of regional healthcare and welfare.

The center promotes development of new medicine, especially those to be developed based on data obtained from gene expression analysis on cancer tissues. Those data are collected and archived



under the NEDO project to realize personalized medicine and accelerate anti-cancer drug development by gene expression analysis technology. The center also expands its support to development of medical device and information system for telemedicine. The center will help boost local industries through strong medical-engineering collaboration.

There are four Open Space Laboratories (OSLs) within the center intended for industry-university joint R&D of new drug and medical device. The missions of the center are to support leading companies to develop medicine, launch venture companies, attract research institutes of leading companies to Fukushima, facilitate research and enhance collaboration with companies.

## Japan Eco & Child Study

The Japanese Ministry of the Environment started the Japan Eco & Child Study, a birth cohort study to investigate the influence of environmental chemicals on the body, as it causes concern among people. The study is a historical project, as it enrolls a large number of volunteers among pregnant women and then follows their children before and after birth with health checkups and questionnaire every six month until they become 13 years old. The study observes 100,000 children in 15 areas including Fukushima Prefecture where Fukushima Medical University serves as the regional center of the study. The study findings will pave the way for better environment for raising children.



## Academic Exchanges with Wuhan University School of Medicine

As part of our effort to globalize our research and education, we started academic exchanges with Wuhan University School of Medicine, China, from 1996, followed by an official agreement on the international exchange program for faculty in 1999. Student exchange began in 2009.



Our interaction with Wuhan University also applies to lectures and researches. We will continue our efforts to promote international academic exchange to contribute to society with our global research accomplishments, and to create innovation in research at the global level.



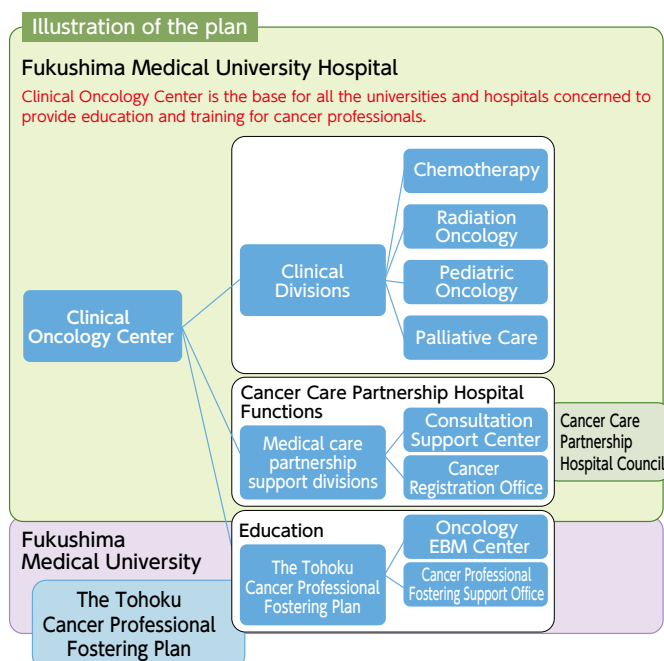
## The Tohoku Cancer Professional Fostering Plan

It is a comprehensive educational program involving Fukushima Medical University, Tohoku University, Yamagata University and 22 hospitals. It employs flexible education system that allows for credit transfer.

The aim of the plan is to produce cancer treatment specialists who are capable of conducting multidisciplinary, all-round research. To achieve the aim, the program encourages young doctors to acquire knowledge and skills necessary for cancer specialists.

Under the basic philosophy, "Achieve patient-oriented holistic cancer treatment", the mission of the plan is

1. To foster clinical research leaders who pioneer in cancer treatment and competent cancer specialists who serve local community.
2. To level the quality of cancer treatment in each community by promoting personal exchange of cancer specialists and standardization of cancer treatment.
3. To improve the quality of cancer treatment by promoting clinical trials and cancer registration.



## Aizu Medical Center (tentative name)

(Scheduled for opening in February 2013)

In response to the request from Fukushima Prefectural Government, Fukushima Medical University has started a project to open Aizu Medical Center as its affiliated institution by incorporating Aizu General Hospital and Kitakata Hospital. The new institution capable of medical service, research and education will open in Aizu-Wakamatsu City in February 2013. Fukushima Prefecture has several medical circles each comprising a core city and its surrounding area, which leaves the prefecture many problems that are difficult to address with the country's medical policy, as it focuses on urban areas. Fukushima Medical University is committed to overcoming those problems and establishing "Fukushima Model", an exemplary of community medicine. Aizu Medical Center is expected to play an important role in achieving the goal.

Aizu Medical Center consists of a hospital with approximately 230 beds and a research institute. The hospital will provide advanced medical service; be a place for education of students and residents; support other medical institutions; respond to medical policy including infectious disease countermeasures and support for medical service in remote areas; and promote community medicine in Aizu region through collaboration with other local medical institutions.

Some of the faculty members of Fukushima Medical University



have been supporting preparation of the opening of the new medical center while working at Aizu General Hospital. The center will provide specialized medical service at each clinical department e.g. internal medicine, surgery, and orthopaedic surgery, as well as contribute to prevention and treatment of lifestyle disease, which is a growing concern of the aging society. As Aizu City has a long history of herb cultivation at Oyakuen Garden, Aizu Medical Center will hold Oriental Medicine Course, whose demand has been growing nationwide. To establish "Fukushima Model", it will also be equipped with Community Medicine Research Center (tentative name) and focus on research on clinical epidemiology and community medicine that covers the whole Aizu region.

### Overview of Aizu Medical Center

Date of open: February 2013

Location: Tanisawa, Kawahigashi-cho, Aizu-Wakamatsu City

Site area: 52,000 m<sup>2</sup>

Gross floor area: 22,700 m<sup>2</sup>

Structure: Reinforced concrete, 6-story building

1F Outpatient department

2F Surgical center, Hemodialysis Room, Emergency room,

Day-care center

3F Laboratory, Conference room, Lecture room,

Hospital beds

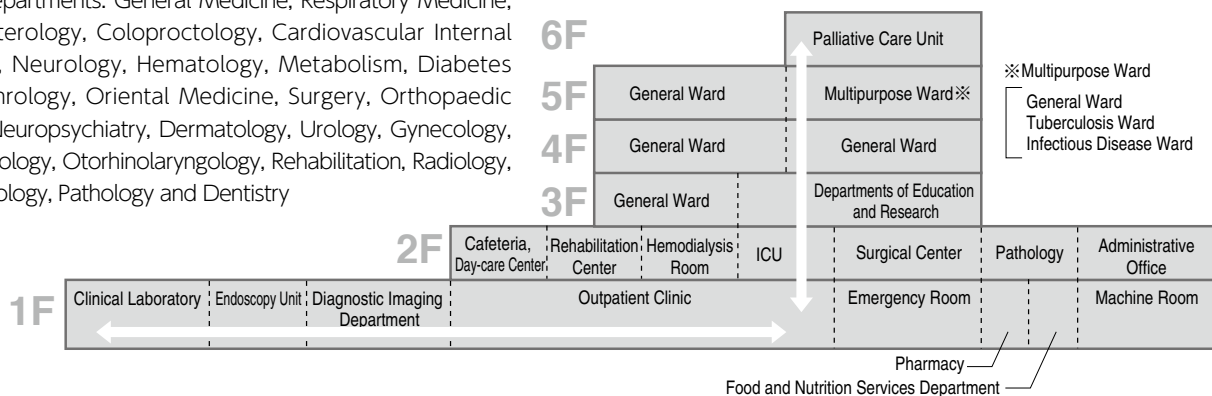
4/5F Hospital beds

6F Palliative care unit

Hospital beds: 230

Commencement of construction: 2010 autumn

Clinical departments: General Medicine, Respiratory Medicine, Gastroenterology, Coloproctology, Cardiovascular Internal Medicine, Neurology, Hematology, Metabolism, Diabetes and Nephrology, Oriental Medicine, Surgery, Orthopaedic Surgery, Neuropsychiatry, Dermatology, Urology, Gynecology, Ophthalmology, Otorhinolaryngology, Rehabilitation, Radiology, Anesthesiology, Pathology and Dentistry



## Members of the Preparatory Office for Aizu Medical Center



### Hematology

Professor OHTA Masatsugu

We provide diagnosis and treatment of various blood diseases including anemia, hematological malignancy and hemorrhagic disease, as well as conduct researches on these diseases. Our department started its service at Aizu General Hospital in April 2010. We offer the latest, evidence-based medicine including molecular target treatment, focusing on hematological malignancy. We are making effort in collaboration with other local medical institutions in Aizu region and clinical departments to prepare Aizu Medical Center to be the base to provide treatment for hematological diseases prior to its opening scheduled for 2013.



### Gastroenterology

Professor IRISAWA Atsushi

We are engaged in education, research and treatment of gastrointestinal diseases, focusing our effort on improving community medicine in Aizu region. Among others, we aim to develop new medical care in the field of gastroenterology that meets the global standards, with the focus on gallbladder, pancreatic and upper gastrointestinal tract diseases using endoscope.

All of the staff are committed to providing excellent care for patients and believe that medical service and research at the global level will ultimately benefit Aizu region.



### Surgery

Professor SAITO Takuro

The Department of Surgery provides comprehensive surgical consultation and care in many subspecialties including esophagogastric, colorectal and hepatobiliary pancreas surgery. The goal of the department is to provide the best treatment for patients. Our basic science and clinical research programs aim to investigate causes and treatments of various cancers including esophagogastric, colorectal, hepatic, biliary and pancreatic cancers through multidisciplinary approach. We also focus on novel treatment and nutrition for elderly patients in our research.



### Orthopaedic Surgery

Professor SHIRADO Osamu

Orthopaedic surgery deals with diagnosis and treatment of any musculoskeletal diseases and injuries. The Department of Orthopaedic Surgery in Aizu Medical Centre specializes in research and treatment of the illness and trauma involving spine and spinal cord, whereby functioning as "Advanced Medical Centre for the Spine and Spinal Cord Disorder and Injury". We are 100% sure to provide the highest level of medical services including surgery and rehabilitation for any diseases affecting spine and spinal cord. Those include lumbar canal stenosis, lumbar disc herniation, spinal deformities with scoliosis and kyphosis, osteoporotic vertebral fractures, and others. Our ultimate goal is to be a leader in the world to offer the highly advanced surgical procedures and rehabilitation as well as to conduct basic and clinical research for the persons with spinal disorders.



### Coloproctology

Professor TOGASHI Kazutomo

The Department of Coloproctology was launched within the Preparatory Office for Aizu Medical Center last September. We aim to provide high standard medical care available in the urban area, but not only offering highly advanced medical service. We have already satisfied people with our service including high-resolution endoscopes that enable immediate diagnosis of polyp; double balloon endoscope and capsule endoscope that allow for observation of the whole small intestine; local injection therapy for internal hemorrhoid (ALTA); and CT colonography that realizes virtual colonoscopy. We have already commenced collaborated studies on image enhanced endoscopy with domestic and international researchers. We also contribute to education of young physicians.



### Metabolism, Diabetes and Nephrology

Professor TSUKAMOTO Kazuhisa

Diabetes, metabolic diseases and kidney diseases cause multifarious complications of various organs that lower quality of life. Together with several medical interventions, lifestyle modification is one of the important strategies for the control of these diseases. The Department of Metabolism, Diabetes and Nephrology provides holistic medical services not only based on the basic theory and the latest medical evidences, but also by attending to the background of patients' lifestyle and complications. We Japanese now face the highly aging society which human beings have never confronted, and the lifestyle-associated diseases have become a great and major social problem. Through the basic and clinical researches, our department aims to pursue the underlying mechanism of, establish prophylaxis approach to, and improve and develop treatment for these diseases.



### Oriental Medicine

Professor MITSUMA Tadamichi

Kampo is a traditional medicine that originated in ancient China and has been modified for Japanese since it was brought to Japan 1,500 years ago. The main treatment approach is to use Kampo medicines and acupuncture. We identify "Sho", a patient's condition or symptoms, and then provide treatment to the patient according to his/her Sho. Diagnosis is confirmed based on the observed effect of the treatment given. Our goals are to contribute to patients through both diagnostic and treatment approaches that are different from those of Western medicine and to establish medical service system that combines Oriental and Western medicine. We are also committed to education of students and residents as well as to research with the aim to realize local production and consumption of Kampo medicines.



### Otorhinolaryngology

Professor OGAWA Hiroshi

We will provide the best medical care to patients while improving our technical skills in surgery, especially tympanoplasty and endoscopic sinus surgery. We will also continue our research projects focused on hearing disorder, especially cytomegalovirus related sensorineural hearing loss. I feel great responsibility to be involved in the start-up of Aizu Medical Center. I'm determined to contribute to the society by starting with my area of specialty.

## Chronology

1944/ 1/10	Fukushima Women's Medical School chartered.	1972/10/25	The Department of Psychiatry and its ward incorporated into the Hospital.
1944/ 4/ 1	Fukushima Women's Medical School opened with the quota of 120 freshmen.	1982/ 4/ 1	The Department of Neurosurgery established.
1947/ 6/18	Fukushima Medical College Premedical Division (under the prewar education system) chartered and opened with the quota of 40 freshmen.	1983/ 4/ 1	The Department of Nuclear Medicine established.
1950/ 4/ 1	The undergraduate course established. The Administrative Division and four basic medical departments (Anatomy, Physiology, Biochemistry and Pharmacology) located at Mikawa-kita-machi, Fukushima City. Four basic medical departments (Pathology, Legal Medicine, Hygiene and Bacteriology), the Hospital and the Central Research Laboratory located at Sugitsuma-cho, Fukushima City.	1983/ 9/16	The school song "Hikari no Tori" (the Bird of Light) composed.
1951/10/16	The Department of Psychiatry and its ward relocated to Watari, Fukushima City.	1987/ 6/ 1	The Hospital relocated to Hicariga-oka, Fukushima City.
1952/ 2/20	Fukushima Medical College (under the new education system) chartered.	1988/ 4/ 1	The Administrative Division and others of the College relocated to Hicariga-oka, Fukushima City.
1952/ 4/ 1	Fukushima Medical College (under the new education system) opened.	1989/ 4/ 1	The Department of Biochemistry II, Cardiovascular Surgery, and Neurology established.
1953/ 1/28	The Department of Public Health established on the Mikawa-kita-machi campus.	1993/ 4/ 1	The Department of Emergency Medicine established in the Hospital. The Alumni Hall donated to the College by the Alumni Association.
1953/ 6/29	The Departments of Hygiene, Legal Medicine and Bacteriology relocated to the Mikawa-kita-machi campus.	1994/ 4/ 1	The Research Laboratories reorganized into the Institute of Biomedical Sciences, the Radioisotope Center and the Laboratory Animal Center.
1955/ 1/20	The Premedical Course chartered.	1995/ 4/ 1	The Department of Neurology, Cardiovascular Surgery and Clinical Laboratory Medicine established.
1955/ 4/ 1	The Premedical Course opened at Shinhamachi with the quota of 40 freshmen. The Department of Pathology II established on the Sugitsuma campus.	1996/ 4/ 1	The Departments of Radiology and Nuclear Medicine reorganized into the Department of Radiology.
1958/ 4/ 1	Academic unit system adopted. The Department of Anatomy II established.	1997/ 3/31	The Cancer Clinic closed.
1959/ 4/ 1	The Department of Physiology II established on the Mikawa-kita-machi campus.	1997/ 9/ 6	The 50th anniversary of foundation celebrated.
1959/ 5/25	The Administrative Division relocated to Uwamachi, Fukushima City.	1997/12/19	The School of Nursing chartered.
1959/10/31	The right to confer the degree of doctor of philosophy granted.	1998/ 4/ 1	The School of Nursing opened.
1960/ 4/ 6	The RI Laboratory chartered.	1998/ 8/ 1	The Department of Plastic and Reconstructive Surgery established in the Hospital.
1960/12/ 2	The Administrative Division relocated to Funabachochi, Fukushima City.	1999/ 4/ 1	The Department of Pulmonary Medicine established in the Hospital. The Department of Molecular Genetics established in the Institute of Biomedical Sciences.
1961/ 4/29	The Graduate School opened.	2001/ 3/31	The Nursing School attached to the School of Medicine closed.
1962/ 3/22	The Department of Anatomy II relocated to the Funabachochi campus.	2001/12/20	The Graduate School of Nursing chartered.
1962/12/20	The quota of freshmen increased to 60.	2002/ 4/ 1	The Graduate School of Nursing opened. The Maternal and Perinatal Center was established in the Hospital. (The NICU in the Hospital closed.)
1963/ 8/ 1	The address of the Administrative Division, Basic Buildings and University Hospital was changed to Sugitsuma Cho according to the renaming of the town.	2003/ 4/ 1	The Safety Management Division established in the Hospital. The Secretariat reorganized with the introduction of an F/F type administrative organization: the General Affairs Domain (the General Affairs & Planning Group, the Budget Accounting Group and the Facilities Management Group) and the Hospital Domain (the Management Group, the Management Planning Group and the Medical Affairs Group).
1966/ 4/ 1	The Department of Anesthesiology established.	2004/ 4/ 1	The Graduate School of Medicine graduate courses reorganized. (Five research courses reorganized into four. The quota of students per year increased from 27 to 37.)
1967/ 4/ 1	The Department of Urology established.		
1968/ 4/ 1	The Premedical Course renamed the Liberal Arts Course.		
1971/ 1/12	An increase in the quota of freshmen from 60 to 80 approved.		

2005/ 4/ 1	<p>The Departments of Anatomy I, Anatomy II, Biochemistry I and Biochemistry II renamed the Departments of Neuroanatomy &amp; Embryology, Anatomy &amp; Histology, Biochemistry and Immunology respectively.</p> <p>The Department of Pulmonary Medicine and the Department of Plastic &amp; Reconstructive Surgery established.</p> <p>The Department of Community &amp; General Medicine, the Department of Endoscopy and the Department of Medical Information established in Hospital. The Medical History Department closed.</p>	2007/12/ 3	The Graduate School of Medicine master's program chartered.
		2008/ 1/ 1	The Department of Clinical Laboratory Medicine renamed the Department of Infection Control & Clinical Laboratory Medicine.
		2008/ 1/28	The Emergency & Critical Care Medical Center opened on the fourth floor in the east ward of the Hospital. Doctor helicopter services started.
2006/ 4/ 1	<p>Public University Corporation Fukushima Medical University established by Fukushima Prefecture.</p> <p>Domains in School of Nursing abolished, and reorganized into seven divisions (Integrated Arts and Sciences, Human Life Sciences, Fundamental Nursing, Human Ecological Nursing, Family Nursing, Care Systems Development, and Applied Nursing).</p> <p>The General Affairs Domain and the Hospital Domain abolished. The General Affairs Group, the Financial Management Group and the Planning Group established. The Health Care Center established.</p> <p>The Department of Student Affairs and the Student Affairs Division abolished, and the Department of School Affairs and the School Affairs Group established.</p> <p>The hospital attached to the School of Medicine renamed the University Hospital.</p> <p>The post of Hospital-vice-president in charge of patient services and functional improvement of the hospital established in the hospital.</p> <p>The Clinical Trial Center and the Department of Hospital Administration established in the Hospital. The Hospital Management Group and the Medical Affairs Group established in the Department.</p> <p>The University Library and the Medical Museum reorganized, and renamed the Center for Academic Information Services, where the Academic Information Group was established.</p>	2008/ 4/ 1	<p>All the staff with some exceptions became the staff of corporation, and the incorporation completed.</p> <p>The Translational Research (TR) Center established.</p> <p>The quota of freshmen in the School of Medicine increased from 80 to 95.</p> <p>The Graduate School of Medicine master's program established. (A two-year program. The quota of freshmen was 95.)</p> <p>The post of Vice-dean established in the School of Medicine.</p> <p>The Departments of Humanities &amp; Social Sciences and Foreign Languages reorganized and integrated as the Department of Human Sciences. The Departments of Mathematics &amp; Statistics, Chemistry, Biology and Physics reorganized and integrated as the Department of Natural Sciences. The Integrated Center for Science and Humanities established, and the Arts and Social Sciences Domain and the Natural Sciences Domain established in this center.</p> <p>The General Affairs Group, the Financial Management Group, the Planning Group and the School Affairs Group reorganized into the General Affairs Division, the Planning &amp; Financial Affairs Division and the Student Affairs Division. The Academic Information Group incorporated into the Student Affairs Division as the Academic Information Office.</p> <p>The Department of Academic Affairs renamed the Division of Student Affairs. The post of Vice-director abolished, and the post of Associate Dean established in the Division of Student Affairs in the School of Medicine and the School of Nursing.</p> <p>The Center for Medical Education and Career Development established. The Division of Medical Education and The Division of Career Development established there.</p> <p>The Gender-Specific Medicine Center, the Department of Allied Health Professionals and the Department of Infection Control established.</p> <p>The Department of Internal Medicine I in the Hospital reorganized and divided into the Departments of Cardiology and Hematology. The Department of Internal Medicine II reorganized and divided into the Departments of Gastroenterology and Rheumatology. The Department of Internal Medicine III reorganized and divided into the Departments of Nephrology &amp; Hypertension and Diabetology, Endocrinology &amp; Metabolism. The Departments of Surgery I and Surgery II reorganized into the Departments of Thoracic Surgery, General &amp; Gastrointestinal Surgery, Breast, Endocrine and Thyroid Surgery, Pediatric Surgery, and Minimally Invasive &amp; State of Arts Surgery. The Department of Obstetrics &amp; Gynecology divided into the Department of Obstetrics and the Department of Gynecology.</p>
		2006/ 5/ 1	The Department of Community & General Medicine renamed the Department of Community & Family Medicine.
		2007/ 4/ 1	<p>The Departments of Physiology I, Physiology II, Hygiene, and Pulmonary Medicine renamed the Departments of Cellular &amp; Integrative Physiology, Neurophysiology, Hygiene &amp; Preventive Medicine, and Pulmonary (Internal) Medicine respectively.</p> <p>The Department of Safety Management renamed the Department of Clinical Quality Management. The Rehabilitation Center, the Emergency &amp; Critical Care Medical Center, the Clinical Oncology Center and the Department of Medical Support established in the Hospital.</p>
		2007/ 7/31	An increase in the quota of freshmen in the School of Medicine to 90 notified.
		2007/11/22	An increase in the quota of freshmen in the School of Medicine to 95 notified.

# Chronology

2008/ 4/ 1	<p>The Department of Urology in the Hospital renamed the Department of Urology and Adrenal Endocrine Surgery. The Otolaryngology renamed to the Otolaryngology - Head and Neck Surgery. The Central Sections renamed the Central Clinical Facilities. The Department of Medical Support renamed the Clinical Engineering Center. The Hospital Management Group and the Medical Affairs Group reorganized as the Hospital Management Division and the Medical Affairs Division.</p> <p>The Medical Cooperation and Consultation Section established as a part of the Hospital Management Division.</p>	2009/ 4/27	The Clinical Skill Laboratory opened.
2008/ 6/22	<p>"Anniversary 2008" – the ceremony celebrating the 20th anniversary of the relocation to the Hikarigaoka campus, the 10th anniversary of the School of Nursing and the completion of incorporation – held.</p>	2009/11/11	An increase in the quota of freshmen in the School of Medicine to 105 notified.
2008/10/ 3	The establishment of the Graduate School of Medicine master's program notified.	2009/12/ 3	An increase in the quota of freshmen approved
2008/11/ 2	<p>The university logo designed.</p> <p>"Fukushima Medical University Vision 2008" established.</p> <p>The Student Song "La-la-la Hikarigaoka" composed.</p> <p>An increase in the quota of freshmen in the School of Medicine to 100 notified.</p>	2010/ 4/ 1	<p>The quota of directors increased from four to five.</p> <p>The Preparatory Office for Aizu Medical Center established.</p> <p>The quota of freshmen at the School of Medicine increased from 100 to 105.</p> <p>The Department of Emergency &amp; Critical Care Medicine , the Department of Blood Transfusion &amp; Transplantation Immunology and the Department of Community &amp; Family Medicine established in the School of Medicine.</p> <p>The post of Associate Dean established in the School of Nursing.</p> <p>The Fukushima Medical - Industrial Liaison Promotion Office established as a part of the Planning and Financial Affairs Division.</p> <p>Hospital Corporate Secretary holds the post of Deputy Secretary General(Business) concurrently.</p> <p>The Hospital Administrations' staff holds the post of University Administrations.</p> <p>The Career Support Center for Women Physicians established in the Center for Medical Education and Career Development.</p>
2008/12/ 1	The Gender-Specific Medicine Center on the second floor of the Hospital opened.	2011/ 2/ 1	Industry-Government-University Research Enterprise established
2009/ 1/ 4	The Ambulatory Chemotherapy Center on the third floor of the Hospital opened.	2011/ 4/ 1	<p>Research Promotion Office established</p> <p>The quota of freshmen at the School of Medicine increased from 105 to 110.</p> <p>Advanced Medicine and Research Center established</p> <p>Departments of the School of Nursing (Human Ecological Nursing, Family Nursing, Care Systems Development and Applied Nursing) are reorganized as Departments of Clinical Nursing, Family Nursing, Public Health and Home Care Nursing and Midwifery and Maternal Nursing.</p> <p>Research Promotion Division is established within Administrative Department</p> <p>A day- care center for sick children established</p>
2009/ 4/ 1	<p>The Rehabilitation Center on the first floor of the Hospital opened.</p> <p>The quota of freshmen at the School of Medicine increased from 95 to 100.</p> <p>The post of Chair established in the Graduate School of Medicine. Head in charge of all the internal medicine departments and Head in charge of all the surgery departments established in the School of Medicine.</p> <p>The Department of Internal Medicine I renamed the Department of Cardiology and Hematology.</p> <p>The Department of Internal Medicine II renamed the Department of Gastroenterology and Rheumatology. The Department of Internal Medicine III renamed the Department of Nephrology, Hypertension, Diabetology, Endocrinology and Metabolism. The Department of Surgery I renamed the Department of Regenerative Surgery. The Department of Surgery II renamed the Department of Organ Regulatory Surgery.</p>		
2009/ 4/ 1	<p>The Department of Pathology I renamed the Department of Diagnostic Pathology. The Department of Pathology II renamed the Department of Basic Pathology.</p> <p>The Department of Community Network established in the Hospital. The Department of Diagnostic Pathology established in the Clinical Division of the Hospital.</p> <p>The Department of Minimally Invasive &amp; State of Arts Surgery renamed the Department of Minimally Invasive &amp; Advanced Surgery</p> <p>The Medical Cooperation and Consultation Section reorganized and incorporated into the Medical Affairs Division.</p>		

# Facts & Statistics

## Undergraduates

(As of May 1 2011)

Year	1st year	2nd year	3rd year	4th year	5th year	6th year	Total
<b>School of Medicine</b>							
Fukushima	48 (22)	44 (11)	44 (10)	39 (19)	45 (9)	29 (11)	249 (82)
Other	62 (22)	61 (19)	62 (28)	51 (23)	36 (15)	46 (23)	318 (130)
<b>Total</b>	<b>110 (44)</b>	<b>105 (30)</b>	<b>106 (38)</b>	<b>90 (42)</b>	<b>81 (24)</b>	<b>75 (34)</b>	<b>567 (212)</b>
<b>School of Nursing</b>							
Fukushima	61 (54)	72 (65)	77 (71)	69 (62)			279 (252)
Other	20 (19)	14 (13)	13 (13)	20 (19)			67 (64)
<b>Total</b>	<b>81 (73)</b>	<b>86 (78)</b>	<b>90 (84)</b>	<b>89 (81)</b>			<b>346 (316)</b>
<b>Total</b>							
Fukushima	109 (76)	116 (76)	121 (81)	108 (81)	45 (9)	29 (11)	528 (334)
Other	82 (41)	75 (32)	75 (41)	71 (42)	36 (15)	46 (23)	385 (194)
<b>Total</b>	<b>191</b>	<b>191</b>	<b>196</b>	<b>179</b>	<b>81</b>	<b>75</b>	<b>913</b>

The numbers of female students are shown in parenthesis.

## Graduates

(as of May 1 2011)

Classification	Year	1st year	2nd year	3rd year	4th year	Total
<b>Graduate School of Medicine</b>						
<b>Doctoral Program</b>						
Regional Medicine and Aging Medical Science					11	11
Functional Regulation Science					13	13
Neurology					10	10
Molecular Biomedicine for Pathogenesis					13	13
Medicine	30	28	24			82
<b>Total</b>	<b>30</b>	<b>28</b>	<b>24</b>	<b>47</b>	<b>129</b>	
Master's Program(Medical Science)	7	6				13
<b>Total</b>	<b>7</b>	<b>6</b>				<b>13</b>
<b>Total</b>	<b>37</b>	<b>34</b>	<b>24</b>	<b>47</b>	<b>142</b>	
<b>Graduate School of Nursing</b>						
Oncology Nursing	2	3				5
Human Ecological Nursing	4	7				11
Mental Health and Psychiatric Nursing	5	7				12
Maternity Nursing	2	2				4
Nursing Care of Children	0	1				1
Community Nursing/ Home Care Nursing	1	4				5
<b>Total</b>	<b>14</b>	<b>24</b>				<b>38</b>
<b>Total</b>	<b>51</b>	<b>58</b>	<b>24</b>	<b>47</b>	<b>180</b>	

## Doctoral Degrees Conferred: Graduate School of Medicine (1981-)

(As of May 1 2011)

Year	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
<b>Graduate School</b>	6	14	7	6	12	13	15	3	11	10	6	10	19	12	19	9	16	20	21	21	25	25	454
<b>Dissertation</b>	46	65	23	48	29	88	39	61	31	30	54	32	23	24	23	16	41	25	15	18	11	11	1386
<b>Total</b>	<b>52</b>	<b>79</b>	<b>30</b>	<b>54</b>	<b>41</b>	<b>101</b>	<b>54</b>	<b>64</b>	<b>42</b>	<b>40</b>	<b>60</b>	<b>42</b>	<b>42</b>	<b>36</b>	<b>42</b>	<b>25</b>	<b>57</b>	<b>45</b>	<b>36</b>	<b>39</b>	<b>36</b>	<b>36</b>	<b>1840</b>

## Master's Degrees Conferred: Graduate School of Nursing

(As of May 1 2011)

Year	2003	2004	2005	2006	2007	2008	2009	2010	Total
<b>Graduate School</b>	5	5	1	5	5	6	8	10	45

## Career Outcomes of School of Medicine Graduates

(As of May 1 2010)

Graduation Year	Number of Graduates	By Prefecture		By medical institution in Fukushima					Unidentified	Dead
		Other	Fukushima	FMU	Private Practice	Public Hospitals	Other Hospitals	Others		
1989	83	25	56	13	13	3	22	5	1	1
1990	95	37	46	7	10	4	16	9	11	1
1991	86	25	56	14	11	5	21	5	5	-
1992	91	36	47	11	6	1	24	5	7	1
1993	72	31	38	9	4	4	17	4	2	1
1994	86	50	29	8	4	2	11	4	6	1
1995	81	28	50	24	1	2	15	8	2	1
1996	88	34	48	18	-	3	22	5	6	-
1997	72	31	39	21	1	2	8	7	2	-
1998	90	40	45	20	1	1	16	7	5	-
1999	84	41	40	21	-	1	13	5	3	-
2000	78	28	45	28	-	4	12	1	5	-
2001	73	35	36	24	-	3	9	-	2	-
2002	77	42	32	23	-	-	5	4	3	-
2003	85	33	45	22	-	2	19	2	7	-
2004	73	40	30	16	-	2	11	1	3	-
2005	79	46	30	10	-	-	16	4	3	-
2006	82	45	36	12	-	1	21	2	1	-
2007	79	43	36	9	-	-	24	3	-	-
2008	79	41	38	10	-	2	25	1	-	-
2009	79	36	40	14	-	4	22	-	3	-
2010	84	43	36	13	-	-	30	-	5	-
<b>Subtotal</b>	<b>1,796</b>	<b>810</b>	<b>898</b>	<b>347</b>	<b>51</b>	<b>46</b>	<b>379</b>	<b>84</b>	<b>82</b>	<b>6</b>

School of Medicine / School of Nursing / Graduate School  
 Initiatives for fostering medical specialists  
 Introducing Fukushima Medical University Hospital  
 Information

## ■ Career Outcomes of School of Nursing Graduates

(As of May 1 2011)

Graduation Year	Number of Graduates	By Prefecture		Occupational Breakdown in Fukushima				
		Other	Fukushima	Fukushima Prefecture	Municipalities	Public Hospitals	Other Hospitals	Others
2001	87	57	30	10	4	1	15	-
2002	86	60	26	12	1	2	11	-
2003	83	43	40	15	-	3	18	4
2004	81	47	34	10	1	2	21	-
2005	90	51	39	2	1	14	19	3
2006	88	47	41	-	2	21	17	1
2007	89	46	43	2	1	25	15	-
2008	83	47	36	-	3	17	15	1
2009	92	52	40	-	1	13	23	3
2010	92	37	55	-	2	27	22	4
Total	871	487	384	51	16	125	176	16

## ■ Number of Inpatients and Outpatients in 2010

Clinical Division	Inpatients		Outpatients	
	Total	Average per day	Total	Average per day
Cardiology	11,237	31	22,407	92
Hematology	13,253	36	7,401	30
Gastroenterology	10,423	29	20,757	85
Rheumatology	2,713	7	7,248	30
Nephrology and Hypertension	5,994	16	11,511	47
Diabetology, Endocrinology and Metabolism	4,703	13	28,669	118
Neurology	6,903	19	9,584	39
Pulmonary Medicine	10,797	30	13,619	56
Chest Surgery	4,823	13	3,346	14
General and Digestive Surgery	7,097	19	3,310	14
Gastrointestinal Surgery	6,192	17	3,703	15
Hepato-Biliary Pancreatic & Transplant Surgery	3,285	9	1,576	6
Breast, Endocrine and Thyroid Surgery	5,996	16	11,660	48
Pediatric Surgery	1,277	3	1,419	6
Minimally Invasive and Advanced Surgery	4,153	11	2,373	10
Cardiovascular Surgery	6,493	18	4,505	19
Neurosurgery	7,600	21	6,685	28
Orthopaedic Surgery	18,250	50	25,352	104
Plastic and Reconstructive Surgery	4,140	11	4,975	20
Obstetrics and Gynecology	21,111	58	25,574	105
Pediatrics	20,979	57	12,300	51
Ophthalmology	11,736	32	33,443	138
Dermatology	4,846	13	16,131	66
Urology and Adrenal Endocrine Surgery	9,968	27	14,834	61
Otolaryngology-Head and Neck Surgery	11,494	31	16,519	68
Neuropsychiatry	9,629	26	31,150	128
Radiology	1,407	4	13,732	57
Anesthesia and Pain Medicine	484	1	8,284	34
Dentistry and Oral Surgery	1,474	4	7,134	29
Emergency Medicine	2,313	6	4,192	17
Total	230,770	632	373,393	1,537

## ■ Clinical Division 2010

Clinical Division	2010
Cardiology	1
Hematology	13
Gastroenterology	28
Rheumatology	0
Nephrology and Hypertension	0
Diabetology, Endocrinology and Metabolism	0
Neurology	0
Pulmonary Medicine	7
Chest Surgery	159
General and Digestive Surgery	197
Gastrointestinal Surgery	173
Hepato-Biliary Pancreatic Surgery	99
Breast, Endocrine and Thyroid Surgery	232
Pediatric Surgery	171
Minimally Invasive and Advanced Surgery	111
Cardiovascular Surgery	271
Neurosurgery	247
Orthopaedic Surgery	942
Plastic and Reconstructive Surgery	212
Obstetrics and Gynecology	551
Pediatrics	6
Ophthalmology	1,007
Dermatology	80
Urology and Adrenal Endocrine Surgery	248
Otolaryngology-Head and Neck Surgery	397
Neuropsychiatry	31
Radiology	0
Anesthesia and Pain Medicine	27
Dentistry and Oral Surgery	80
Emergency Medicine	4
Total	5,294

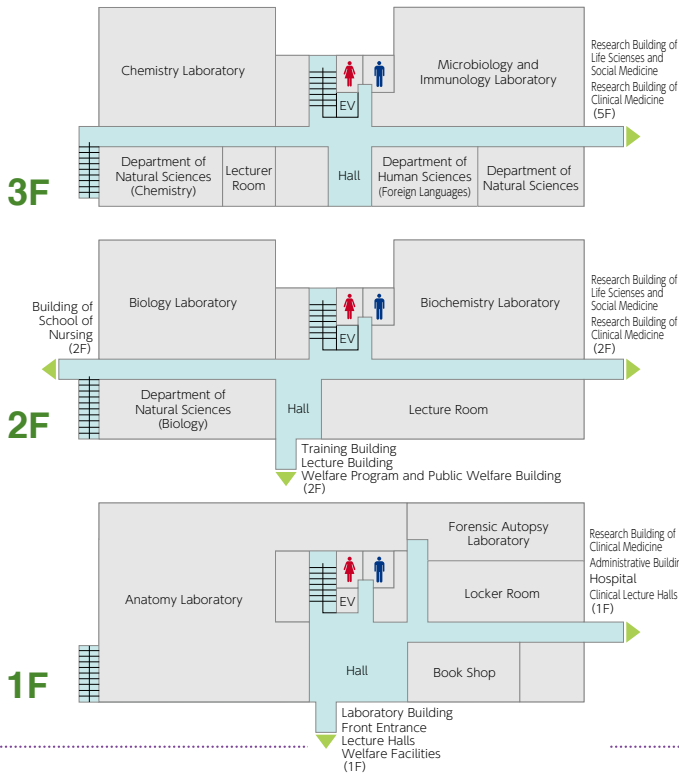
※ 1 Endocrine Surgery ※ 2 Breast Surgery

## Number of Staff

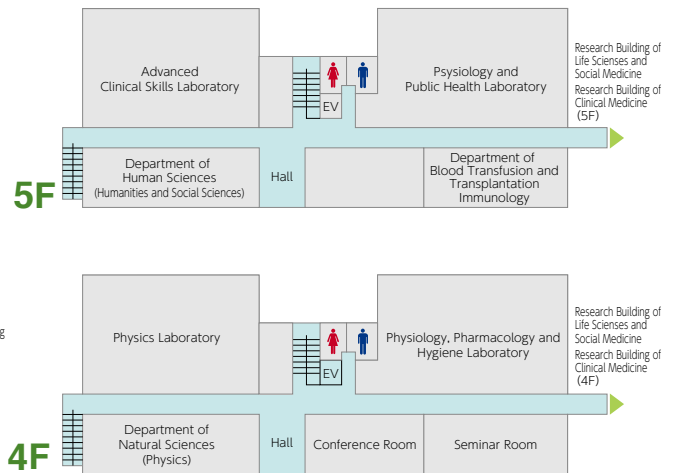
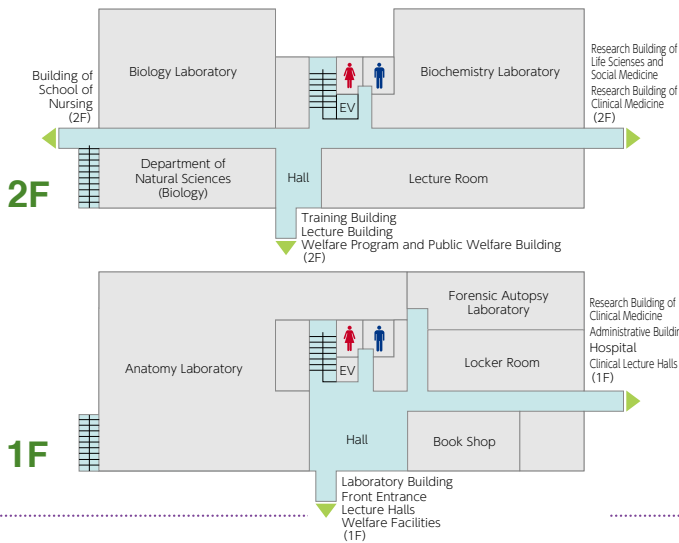
Department	Position		Faculty						Staff					Total
	President	Vice President	Professor	Associate Professor	Lecturer	Assistant Professor	Teaching Assistant	Subtotal	Office Staff	Laboratory Technicians	Laboratory Assistant	Labor management staff	Subtotal	
President	1													1
Vice President		1												1
School of Medicine			46	37	55	148	74	360	0	42	8	1	51	411
Life Sciences and Social Medicine			10	9	8	21	5	53		15	5		20	73
Clinical Medicine			27	16	41	76	18	178		22	2		24	202
Regional Medical Center						40	50	90					0	90
Human and Natural Sciences			6	5	5			16			1		1	17
Endowed Chair				3		1	1	5					0	5
Institute of Biomedical Sciences			3	2	1	9		15		5			5	20
Radioisotope Center				1				1					0	1
Laboratory Animal Center				1		1		2				1	1	3
School of Nursing			13	9	12	9	2	45					0	45
Administrative Department			1	0	0	0	0	1	67	10	0	0	77	78
General Affairs Division								0	23	8			31	31
Planning and Financial Affairs Division								0	15				15	15
Research Promotion Division								0	9				9	9
Student Affairs Division								0	20	2			22	22
University Health Center			1					1					0	1
Center for Medical Education and Career Development				2		5	7	14					0	14
University Hospital			0	9	3	8	6	26	48	858	23	0	929	955
Department of Clinical Quality Management				1				1		2			2	3
Department of Infection Control								0		2			2	2
Department of Medical Information								0					0	0
Department of Community Network				1				1		2			2	3
Clinical Division				1		2		3		1			1	4
Department of Clinical Laboratory Medicine								0		38			38	38
Medical Imaging Center								0		34			34	34
Surgical Center				1				1		1	1		2	3
Intensive Care Unit						2	1	3					0	3
Maternal and Perinatal Center				1		4	4	9					0	9
Department of Pathology								0		8			8	8
Department of Blood Transfusion and Transplantation								0		9			9	9
Department of Endoscopy				1	1			2					0	2
Rehabilitation Center				1			1	2		13			13	15
Emergency and Critical Care Medical Center								0	1				1	1
Clinical Oncology Center				1	1			2					0	2
Clinical Engineering Center								0		7			7	7
Gender-Specific Medicine Center				1				1					0	1
Supply Center											1			0
Department of Nursing								0	1	703			704	704
Department of Pharmacy					1			1		31	1		32	33
Administrative Office			0	0	0	0	0	0	46	7	20	0	73	73
Hospital Management Division								0	20				20	20
Medical Affairs Division								0	26	7	20		53	53
Center for Academic Information Services													0	0
Advanced Medicine and Research Center					1	1		2		1			1	3
Translational Research Center			1	1		1		3					0	3
Preparatory Office for Aizu Medical Center			8	3	1	1	3	16					0	16
Graduate School			(53)	(49)	(56)			(158)					0	(158)
Total	1	1	69	61	72	173	92	467	115	911	31	1	1,058	1,527

# Floor Guide

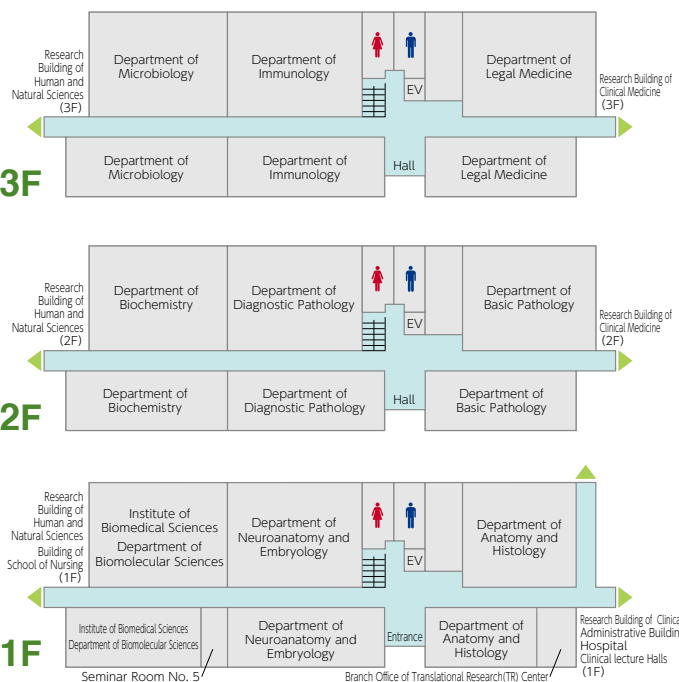
## Research Building of Human and Natural Sciences



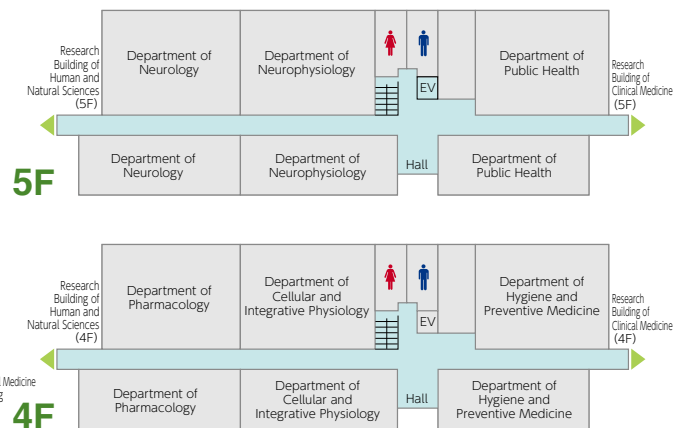
Number of Stories		
5	Department of Human Sciences (Humanities and Social Sciences) Clinical Skills Laboratory Advanced	Department of Blood Transfusion and Transplantation Immunology Physiology and Public Health Laboratory Seminar Room No.3 & No.4
4	Department of Natural Sciences(Physics) Physics Laboratory	Physiology, Pharmacology and Hygiene Laboratory Seminar Room No.1 & No.2 Conference Room
3	Department of Natural Sciences(Chemistry) Chemistry Laboratory Lecturer Room	Microbiology and Immunology Laboratory Department of Natural Sciences Department of Human Sciences(Foreign Languages)
2	Department of Natural Sciences(Biology) Biology Laboratory	Biochemistry Laboratory Seminar Room No.5 & No.6
1	Anatomy Laboratory Book Center	Forensic Autopsy Room Locker Room



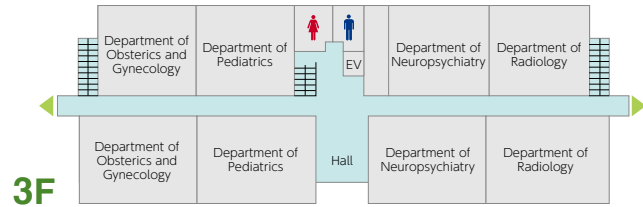
## Research Building of Life Sciences and Social Medicine



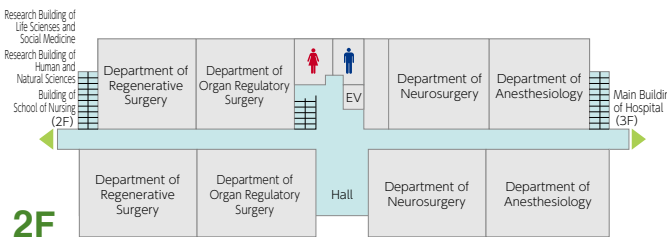
Number of Stories		
5	Department of Neurology Department of Neurophysiology	Department of Public Health
4	Department of Pharmacology Department of Cellular and Integrative Physiology	Department of Hygiene and Preventive Medicine
3	Department of Microbiology Department of Immunology	Department of Legal Medicine
2	Department of Biochemistry Department of Diagnostic Pathology	Department of Basic Pathology
1	Department of Neuroanatomy and Embryology Institute of Biomedical Sciences Department of Biomolecular Sciences Seminar Room No. 5	Department of Anatomy and Histology



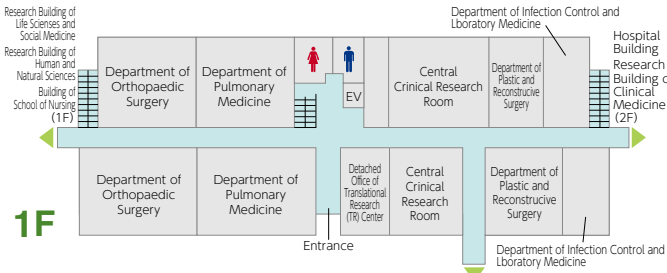
# Research building of Clinical Medicine



3F



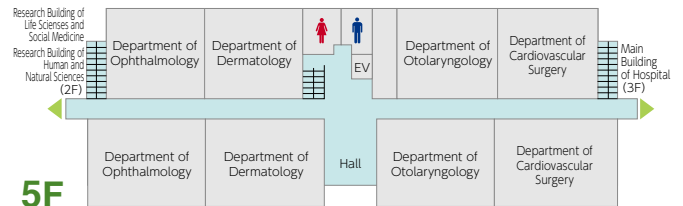
2F



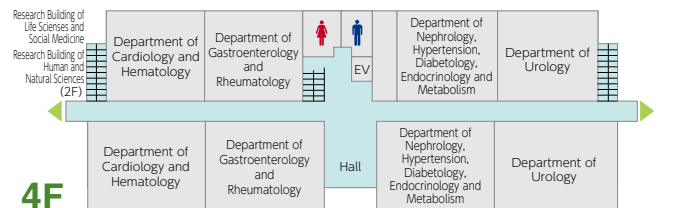
1F

Administrative Building (2F)

Number of Stories	Department of Ophthalmology Department of Dermatology		Department of Otolaryngology Department of Cardiovascular Surgery	
5	Department of Cardiology and Hematology Department of Gastroenterology and Rheumatology		Department of Nephrology, Hypertension, Diabetology, Endocrinology and Metabolism Department of Urology	
4	Department of Obstetrics and Gynecology Department of Pediatrics		Department of Neuropsychiatry Department of Radiology	
3	Department of Regenerative Surgery Department of Organ Regulatory Surgery		Department of Neurosurgery Department of Anesthesiology	
2	Department of Orthopaedic Surgery Department of Pulmonary Medicine Translational Research(TR) Center		Department of Infection Control and Laboratory Medicine Department of Plastic and Reconstructive Surgery	
1				



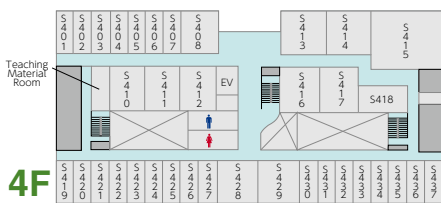
5F



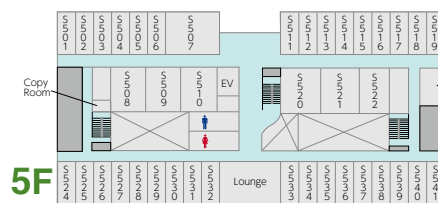
4F

# Building of School of Nursing

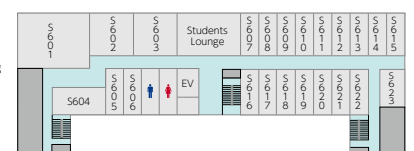
Number of Stories	Lecturer Hall · Information Processing Seminar Room Language Lab · Students Lounge · Library Lounge		Seminar Room · Collaborative Research Room Graduate School of Nursing Lecturer Hall	
3	Practical Training Room · Clinical Skills Laboratory Basic (Training Room C) · Training Room · University Health Center		Department of Human Life Sciences · Department of Fundamental Nursing · Department of Clinical Nursing · Department of Family Nursing · Research Room · Department of Midwifery and Maternal Nursing · Conference Room	
2	Dean Room · Educational Affairs clerk, School of Nursing, Student Affairs Division · Conference Room · Practical Training Room		Department of Integrated Arts and Sciences · Lecturer Hall · Seminar Room · Conference Room · Research Room · Department of Fundamental Nursing · Department of Public Health and Home Care Nursing	
1				



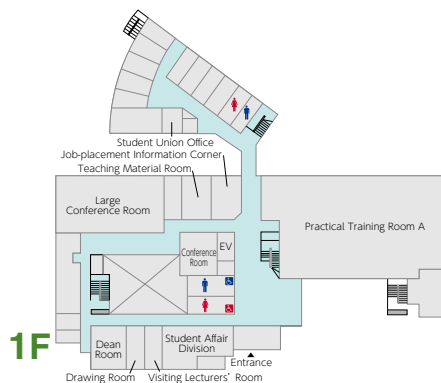
4F



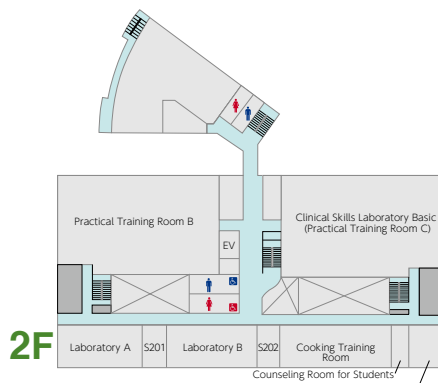
5F



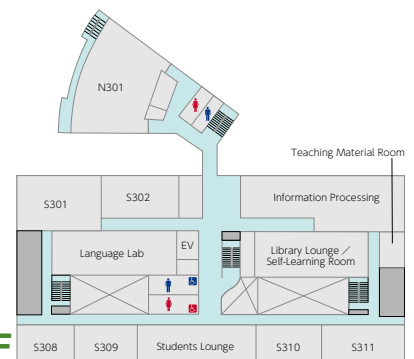
6F



1F



2F



3F

# Fukushima Medical University

## Campus Map

Fukushima Medical University is located in Hikariga-oka, Fukushima City. It is a ten-minute drive toward the south from the city center. One of the major facilities close to the university is Fukushima University. Our campus has a land area of about 38 hectares and is filled with a variety of beautiful plants and trees.

### ● School of Medicine

- ① Research Building of Clinical Medicine
- ② Research Building of Life Sciences and Social Medicine
- ③ Research Building of Human and Natural Sciences
- ④ School of Nursing Building
- ⑤ School of Medicine Building

### ● Common Facility

- ⑥ Welfare Facilities, Lecture Halls and Laboratories
- ⑦ Clinical Lecture Halls
- ⑧ Auditorium
- ⑨ Academic Information Service Center
- ⑩ Gymnasium
- ⑪ Baseball Field
- ⑬ Japanese Archery Field
- ⑮ Athletic Field
- ⑫ Tennis Courts
- ⑭ Archery Field

### ● Hospital

- ⑯ Hospital
- ⑰ Neuropsychiatry Ward
- ⑱ North Outpatient Building
- ⑲ High Energy Building
- ⑳ MRI Building
- ㉑ Secondary Emergency Medical Facility for Nuclear Disaster
- ㉒ Medical Training Center

### ● Other Facilities

- ㉓ Administration Building
- ㉔ Security Office
- ㉕ Hikarigaoka Hall(Alumni Hall)
- ㉖ Monument for Repose of Souls
- ㉗ Monument for Laboratory Animals
- ㉘ Incinerator
- ㉙ Former Sewage Disposal Facility
- ㉚ Suginoko-en(Day Nursery)
- ㉛ Yoshimi-so(apartments for nurses)
- ㉜ Heliport
- ㉝ Emergency and Critical Care Facility

### ● Parking Lot / Place of Storing Bicycles

- ㉞ Outpatient Parking Lot
- ㉟ Parking Lot
- ㊱ Parking Lot
- ㊲ Parking Lot
- ㊳ Bicycle-parking Area
- ㊴ Parking Lot
- ㊵ Parking Lot
- ㊶ Bicycle-parking Area



### ● Tree of Hippocrates

Platanus (plane tree) has a common name of "Tree of Hippocrates" because of the legend that Hippocrates, the father of Western medicine, taught his pupils the art of medicine. Thereby platanus is a symbolic tree for medical universities. Our platanus tree is from the Kos Island in Greece, the origin of the Hippocrates legend.



School of Nursing



School of Medicine



Hospital

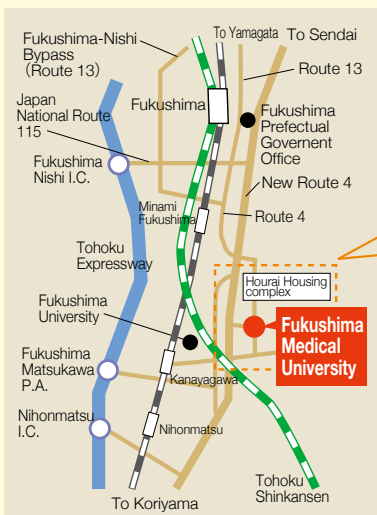


Heliport



### Fukushima Medical University Seal

The seal embodies the identity of Fukushima Medical University by incorporating an image of cherry blossom petals forming an "F" shape.  
The seal was adopted on November 2, 2008.



#### ※ Hospital Parking Lots

You can exit the hospital parking lots by using either a parking ticket or your patient registration card.

If you do not have your patient registration card, please ask for a parking ticket at Information Counter or Security Office.

## FUKUSHIMA MEDICAL UNIVERSITY

1 Hikariga-oka, Fukushima City 960-1295, JAPAN  
<http://www.fmu.ac.jp>

Contact: Fukushima Medical University Planning Office

TEL: +81-24-547-1111 FAX: +81-24-547-1991