Research

Medical Course—Basic Medicine

Departments of Medicine		Fields of Interest			
Anatomy	Functional Anatomy and Neuroscience	Neuroanatomy, Neuropathology			
	Microscopic Anatomy and Cell Biology	Cell Biology, Experimental Endocrinology, Molecular and Cellular Mechanisms of Secretory Granule Formation			
Dhysiology	Autonomous Function	Cardiac Mechanics, Mechanobiology			
Physiology	Sensory Physiology	Neuroscience			
Dischemistry	Cellular Signal Transduction	Regulation of Cellular Function and Vascular Contraction by Protein Phosphorylation			
Biochemistry	Integrated Life Science	Angiogenesis, Neurogenesis, Regene Native Medicine, Calcium Homeostasis			
Pharmacology		Inflammation and Immunity, Cardiovascular Pharmacology, Gastrointestinal Pharmacology			
Dathology	Tumor Pathology	Hepatology, Molecular Pathology, Tumor Pathology			
Pathology	Immunopathology	Tumor Immunology, Allergology, Immunology			
Microbiology a	and Immunochemistry	Host Defense Mechanisms, Immunochemistry, Molecular Microbiology			
Social	Hygiene and Health Science	Hygiene, Environmental Health, Occupational Health, Molecular Preventive Medicine, International health			
Medicine	Public Health and Epidemiology	Public Health, Epidemiology, Clinical Epidemiology, Environmental Epidemiology, Mental Health			
Parasitology		Immunobiology, Molecular Biology, and Epidemiology of Echinococcosis and Cysticercosis and Their Immunological and Molecular Diagnosis			
Legal Medicine		Forensic Toxicology, Forensic DNA typing and DNA Polymorphism			
Advanced Medical Science		Neuroscience, Molecular Biology, Genome Editing, Regenerative Medicine, Translational Research			

Medical Course—Clinical Medicine

Departments of Medicine		Fields of Interest		
Internal Medicine	Division of Cardiology, Nephrology, Pulmonology and Neurology	Internal Medicine, Cardiology, Pulmonology, Hypertension, Nephrology, Neurology, Geriatrics and Gerontology		
	Division of Metabolism and Biosystemic Science	Internal Medicine, Diabetes and Metabolism, Endocrinology, Rheumatology, Hepatology, Biliary and Pancreatic Disease		
	Division of Gastroenterology and Hematology/Oncology	Internal Medicine, Gastroenterology, Gastrointestinal Endoscopy, Hematology, Medical Oncology		
Psychiatry		Biological Psychiatry, Sleep Medicine, Epileptology, Geriatric Psychiatry, Clinical Electroencephalography		
Pediatrics		Pediatric Infectious Diseases and Immunology, Pediatric Endocrinology and Metabolism, Pediatric Neurolog Pediatric Hematology and Oncology, Pediatric Cardiology, Perinatology, Pediatric Nephrology		
	Division of Vascular, Respiratory and Surgical Oncology	Vascular Surgery, Endovascular Surgery, General Thoracic Surgery, Breast Surgery, Pediatric Surgery		
	Division of Cardiovascular Surgery	Cardiac Surgery, Thoracic Aortic Surgery		
Surgery	Division of Hepato-Biliary- Pancreatic and Transplant Surgery	Gastroenterological Surgery [Hepato-Biliary-Pancreatic Surgery], Endoscopic Surgery, Transplant Surgery, General surgery		
	Division of Gastrointestinal Surgery	Gastrointestinal Tract [Esophagus, Stomach, Small Intestine, Colon, Rectum], Endoscopic Surgery, Robotic surgery, General surgery		
Orthopaedic	Surgery	Joint Surgery, Prosthetic Replacement, Musculoskeletal Tumors, Spinal Surgery, Sports Orthopaedics, Rheumatoid Arthritis, Hand Surgery, Osteoporosis, Regenerative medicine		
Dermatology		Dermatology, Psoriasis, Abnormal Keratinization Disorders, Atopic Dermatitis, Medical Mycology, Dermatological Oncology, Allergology, Dermatological Collagen Diseases, Cosmetic Dermatology, Blistering Disorders		
Renal and Urologic Surgery		Urological Oncology, Cancer Chemotherapy, Pediatric Urology, Female Urology, Benign Prostatic Hyperplasia, Neurogenic Bladder, Urolithiasis, Adrenal Surgery, Endoscopic Surgery, Robotic Surgery		

» Research

Departments of Medicine	Fields of Interest		
Ophthalmology	Ophthalmology, Vitreoretinal Disorders, Corneal Transplantation, Ocular Surface Disorders, Keratorefractive Surgery, Neuroprotection in Retina, Ocular Micro-circulation, Glaucoma, Fundus Imaging Analysis, Low Vision, Strabismus		
Otorhinolaryngology–Head and Neck Surgery	Otorhinolaryngology, Head and Neck Surgery, Allergology, Bronchoesophagology, Neuro-Otology, Thyroid Surgery, Temporal Bone Surgery, Phono Surgery		
Obstetrics and Gynecology	Perinatal Medicine, Gynecologic Oncology, Reproductive Endocrinology and Infertility, Menopause and Women's Health		
Radiology	Diagnostic Radiology, Radiation Oncology, Nuclear Medicine, Interventional Radiology		
Anesthesiology and Critical Care Medicine	Pharmacokinetics of Intravenous Anesthetics, Mechanism and Treatment of the Neuropathic Pain, Perioperative Blood Coagulation, Cardiovascular Anesthesia, Airway Management, Peripheral Nerve Block		
Neurosurgery	Neurosurgery, Neurooncology, Skull Base Surgery, Neurovascular Surgery, Functional Neurosurgery, Neuroendovascular Surgery, Epilepsy Surgery		
Laboratory Medicine	Clinical Chemistry, Laboratory Blood Test, Molecular Diagnostics, Genetic Testing, Medical Ultrasonics, Biomarker		
Oral and Maxillo-Facial Surgery	Oral Oncology, Disease of Oral Mucosa, Dental Implant, Jaw Deformity, Cleft lip and Palate, Oral Infectious Diseases, Ozostomia (Bad Breath), Temporomandibular Joint Diseases, Oral care, Oral Traumatology, Pediatric Oral and Maxillofacial Surgery, Masticatory Dysfunction, Orofacial Pain		
Emergency Medicine	Traumatology, Toxicology, Cardio-pulmonary Support, Cardio-pulmonary Resuscitation, Pediatric Emergency Care, Acute Aortic Dissection, Sepsis		
Regional Medicine and Education	Regional Medicine, Specialist and Primary Care		
Clinical Oncology for Local Community Cooperation	Clinical Oncology, Regional Cancer Care, Cancer Care Network		

Nursing Course

Departments of Nursing	Fields of Interest
	Human Anatomy and Physiology, Pathology, Laboratory of Public Health and Health Education
Nursing Science	Fundamental Nursing, Adult Nursing, Gerontological Nursing, Pediatric Nursing, Maternal Nursing and Midwifery, Psychiatric and Mental Health Nursing, Home Health Care Nursing, Public Health Nursing, Nursing Management, Oncology Nursing

General Education

Departments of General Education	Fields of Interest		
Psychology	Experimental Psychology, Cognitive Neuroscience, Clinical Psychology		
Sociology	Sociology of Medicine		
Mathematics	Applied Mathematics, Dynamical Systems Theory, Computational Science		
Mathematical Information Science	Biomedical Engineering, Exercise Physiology, Fractal Physiology, Circulation Physiology, Microcirculation, Cognitive science, Medical Statistics		
Physics	Solid State Physics, High Temperature Superconductivity, Low Dimensional Conductors, Quantum Measurement Theory		
Chemistry	Physical Chemistry and Nonlinear Dynamics in Nonequilibrium Open System, Soft Matter Science		
Biology	Reproductive Biology, Chromosome Science (Gamete and Embryo), Environmental Mutagen Research		
Life Science	Molecular and Cellular Biology of Cell Adhesion and Neuronal Degeneration, Study on Preventing Alzheimer's Disease		
English	Theoretical Linguistics, Applied Linguistics, Teaching English as a Foreign Language		

Facility			Fields of Interest		
Admission Center			Selection Methods, Education of Medical Science		
Education Center			Education for Medical Science and Nursing		
Advanced Medical Engineering Research Center		ng Research Center	Medical engineering (Artificial Organs, Regenerative Medicine, Tissue Engineering, Development of Medical Equipm		
	Translational Research Center		Translational Research, Education for Clinical and Translational Research, Innovative Research in Life Science		
	Intellectual Property Center		Intellectual Property Right		
Center for Advanced Research	Research Center	Animal Laboratory for Medical Research	Experiment, Breeding and Reproduction of Animals, Reproduction Technology		
and Education		Central Laboratory for Research and Education	Instrumental Analysis, Biochemistry, Molecular Biology		
		Laboratory for Radioactive Isotope Research	Instrumental Analysis, Biochemistry, Research Using Radioisotopes		
Health Adminis	tration Center		Health Care, Adolescent Life Style Disease Prevention, Prevention of Infection		
Joint-Use Facilities	Information and Communication Technology Center		Information Network, Computer Science		
	Family Support Center		Work-Life Balance		

Hospital

Facility	Fields of Interest			
Physical Medicine and Rehabilitation	Rehabilitation Medicine, Kinesiology, Computational Neuroscience, Electrophysiology, Physical Medicine, Orthotics			
Medical Center of Acute Medicine	Emergency Medicine, Cardio-pulmonary Resuscitation, Toxicology, Trauma, Systemic Infection			
Intensive Care Unit Department	Intensive Care Medicine, Circulation and Respiration Control, Blood Purification			
General Medicine Department	General Medicine			
Center for Maternity and Infant Care	Perinatology, Obstetrics, Neonatology, Perinatal Infectious Diseases, Pediatric Surgery			
Department of Endoscopy	Digestive Endoscopy, Respiratory Endoscopy, Therapeutic Endoscopy			
Oncology Center	Cancer Chemotherapy, Patient Support, Cancer Information, Training for Medical Professionals			
Respiratory Center	Respiratory Diseases, Clinical Oncology, Respiratory Surgery, Allergic Diseases, Molecular Biology, Respiratory Physiology, Pulmonary Circulation, Infectious Diseases			
Department of Palliative Care	Palliative Medicine, Decision Support, Philosophy of Medicine, Medical Ethics			
Breast Diseases Center	Breast Diseases, Clinical Oncology, Hereditary Breast Cancer			
Medical Laboratory and Blood Center	Clinical Laboratory Medicine, Transfusion Medicine, Infection Control Support, Biological Information Processing, Physiological Tests, Patient Blood Management, Autologous Transfusion			
Surgical Operation Department	Surgical Management, Safety Management			
Clinical Radiology Department	Diagnostic Radiology, Radiation Oncology, Radiation Protection, Medical Physics, Radiological Technology			
Appliance Management and Supply Center	Washing, Disinfection and Supply of Medical Devices, Quality Control of Medical Material			
Surgical Pathology Department	Surgical Pathology, Oncologic Pathology, Tumor Immunology, Molecular Pathology			
Management Planning Department	Analysis of Hospital Management, Hospital Information System, Telemedicine, Medical Information Network			
Telemedicine Center	Telemedicine, Home Telecare, Transmission System for 3D-HDTV Medical Movies, Health Education by Medical Museum Network System, PHR (Personal Health Record) System, Medical Information Network, Information Security, Cloud-based Medical Practice			

» Research

Facility	Fields of Interest		
Physical Medicine and Rehabilitation Department	Physical Therapy, Occupational Therapy, Speech Language Hearing Therapy, Rehabilitation Medicine, Kinesiology, Biomechanics		
Clinical Engineering Office	Clinical Engineering, Medical Engineering		
Outpatient Chemotherapy Center	Outpatient Chemotherapy		
Nutrition Management Department	Clinical Nutrition, Nutrition Management		
Hospital Admission Center	Hospital Admission Management, Patient Support, Bed Control		
Dialysis Center	Hemodialysis, Plasma Exchange, Plasma Adsorption		
Medical Security and Safety Management Department	Medical Security and Safety, including Incident Report Analysis		
Infection Control Department	Infection Control		
Pharmacy Department	Clinical Pharmacology, Neuroscience		

Publications

			2017	2018	2019
Book	Book		6	9	5
BOOK	Book in Japanese		86	88	84
Grand Total			92	97	89
	Original Article		235	211	210
Article	Review		15	14	13
Article	Others		26	126	27
	Total		276	351	250
	Japan Medical Abstracts Society	Original Article	76	85	57
		Review	162	152	127
		Others	686	737	699
Article in Japanese	Total		924	974	883
	DD Oning!	Original Article	56	47	48
	DB-Spiral	Review	63	19	23
	Total		119	66	71
Grand Total			1,319	1,391	1,204

* Articles in press included.

Conference Presentation

		2017	2018	2019
	Oral Presentation (Invited/Special)	22	18	18
International Conference	Poster, etc.	190	154	143
Conterence	Total	212	172	161
Domestic Conference	Oral Presentation (Invited/Special)	137	127	63
	Poster, etc.	1,015	957	709
	Total	1,152	1,084	772
Grand Total		1,364	1,256	933



Medical practicing



Nursing practicing



Christmas illuminations in front of Asahikawa Medical University Hospital