Organization and education research 【Excerpt from the doctoral program】

※Responsible for multiple educational research

★Inquiries for Professor absence

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Division	Professor (First & Last name)	Education Research
Omics Biology	Masaki Matsumoto Tel 2077 e-mail masakim@med.	・Studies on the molecular basis of cancer and senescence using omics technology ・Studies on the regulation of proteostasis ・Systems biology based on multi-omics ・Technology development in protein chemistry and proteomics
Molecular and Diagnostic Pathology	※ Riuko Ohashi Tel 2093 e-mail riuko@med.	・Pathology, molecular pathology, and pathological diagnostics for malignant tumors ・Establishment of grading and pathological staging of malignant tumors ・Pathology, molecular pathology, and pathological diagnostics for inflammatory/metabolic diseases ・Digital pathology and artificial intelligence in pathology
Radiation Oncology	※ Hiroyuki Ishikawa Tel 2315 e-mail iskw@med.	・Clinical research on radiation Oncology ・Basic research on the technique for radiotherapy ・Research on the Health-Related Quality of Life after radiotherapy ・Research on medical physics
Obstetrics and Gynecology	Kosuke Yoshihara Tel 2317 e-mail yoshikou@med.	・Molecular etiology of endometriosis and related cancer ・ Multiomics analysis of gynecologic cancer and its application to clinical oncology ・ Identification of cancer stem cell in gynecologic cancer and its role for chemo-resistance ・Establishment of 3D pathology in the Obstetrics and Gynecology field
Hepatobiliary Oncology	※ Shuji Terai Tel 2203 e-mail terais@med.	・Regenerative Medicine (Gastoenterology & Hepatology) ・Regulation for digestion, absorption and metabolism ・Metabolic syndrome related steatosis, fibrosis, immunity and carcinogenesis ・ Applied Medicine using biomaterial, exosome and 3D printer. Translational Medicine (Gene & Cell Therapy, Exosome Therapy, Designer cell, Endscopy).
Surgical Onocology	※ Toshifumi Wakai Tel 2223 e-mail wakait@med.	・Surgical Oncology ・Early DNA damage response ・Mechanism of multi-drug resistance ・Molecular Biology of Cancer ・Precision Medicine ・Genome Medicine ・Cancer and Microbiome ・Artificial Intelligence

Division	Professor (First & Last name)	Education Research
Molecular Psychiatry	※ ★ Associate Professor Jun Egawa Tel 2212 e-mail jeg5414@med.	・Functional analysis of risk genes for autism spectrum disorders using neurite and synapse development in cultured neurons as phenotypes. ・Molecular genetic studies of schizophrenia and autism spectrum disorders ・Pharmacogenomic studies on the effects and side effects of psychotropic drugs
Neurochemistry and Molecular Cell Biology	★ Associate Professor Fubito Nakatsu Tel 2084 e-mail nakatsu@med.	Our laboratory conducts research on the following themes at the molecular, cellular, and organismal levels. ・Molecular mechanisms of nerve growth, axon regeneration and synapse formation ・Structure and function of neuronal growth cone ・Lipid metabolism and intracellular lipid transport ・Regulation of inflammatory signaling, virus life cycle and nerve growth by lipids, and their diseases ・Development of lipid imaging and tools for lipid manipulation by chemicals and lights
Pharmacology	Masanori Hirashima Tel 2087 e-mail masanori@med.	Molecular mechanisms of lymphatic vascular development. Blood vessel-derived factors regulating lymphatic vascular patterning. Generation of fetal disease mouse models and their pathogenesis. Mechanism of disease progression due to changes in vascular cell identity.
Molecular Oncology	※ ★ Associate Professor Kazuhide Saito Tel 2285 e-mail kazsaito@med.	General Urologic Oncology ・Basic uro-oncology and molecular biology ・Treatment of urological malignancies a. Chemotherapy b. Immunotherapy c. Surgical treatment and Reconstructive surgery
Microscopic Anatomy and Bio-imaging	Shinsuke Shibata Tel 2058 e-mail shibatas@med.	・Development of structural and functional imaging procedure with various kinds of cells and tissues ・Study for analysing the mechanism of neurogenesis and neural regeneration ・Development of an artificial nerves using human iPS cell-derived nerve fibers ・Development of a procedure for detecting neural activity by an electron microscope ・Development of new imaging procedure to visualize the histological changes associated with neurodegenerative diseases ・Study for analyzing the mechanism of chronic pain and cancer related pain ・Analysis for the acquisition mechanisms of human-specific intelligence ・Study of the pathogenesis of Hirschsprung's disease ・Analysis for the maintenance mechanism of neural stem/progenitor cells ・Development of novel imaging procedure for visualizing cell and tissue structure combining various microscopic technologies such as optical microscope and electron microscope ・Computer science for developing a novel image analysis tools
Molecular Pathology	★ Assistant Professor Katsuyoshi Takata Tel 2106 e-mail ktakata@med.	Molecular Tumor Pathology ・Molecular analysis of malignant tumor (solid tumor, hematopoietic tumor) ・Pathological analysis of human tumor tissues ・Novel diagnostic technology of tumors ・Nanomedicine for novel tumor therapeutics

Division	Professor (First & Last name)	Education Research
Gastroenterology and Hepatology	Shuji Terai Tel 2203 e-mail terais@med.	・Regenerative Medicine (Gastoenterology & Hepatology) ・Regulation for digestion, absorption and metabolism ・Metabolic syndrome related steatosis, fibrosis, immunity and carcinogenesis ・ Applied Medicine using biomaterial, exosome and 3D printer. Translational Medicine (Gene & Cell Therapy, Exosome Therapy, Designer cell, Endscopy).
Dermatology	Riichiro Abe Tel 2282 e-mail aberi@med.	・Analysis of severe drug eruption ・Analysis of cell death ・Analysis of skin microbiome ・Analysis of hair follicle-associated genes ・Analysis of genodermatoses non-M.D. researcher is belong to our department and many members including Master's course are recruit. Reserchers can perform the subject you like except for the above.
Reproductive Medicine	※ Kosuke Yoshihara Tel 2317 e-mail yoshikou@med.	・Effectiveness of HPV vaccine and the mechanism of carcinogenesis caused by HPV infection ・Identification and clinical application of gynecological cancer stem cells ・Elucidation of the pathogenesis of endometrial-related diseases focusing on genomic abnormalities in the normal endometrium ・Elucidation of the etiology of ovarian cancer and development of new treatments ・Elucidation of fetal physiology and pathology using ultrasound ・Elucidation of the pathogenesis of hypertensive disorders of pregnancy using mouse models ・3-D structural analysis of normal and abnormal placentas ・Studies on gastrointestinal protection in preterm infants ・Studies on recurrent pregnancy loss and immune-related diseases
Molecular and Functional Pathology	Riuko Ohashi Tel 2093 e-mail riuko@med.	・Elucidation of cellular function and pathogenesis of malignant tumors ・Pathological research for tumorigenesis, tumor progression and metastasis ・Establishment of comprehensive multi-omics-pathology databases and bioinformatics
Reproductive and Perinatal Medicine	Koji Nishijima Tel 2320 e-mail kojigyne@med.	・Infertility and alloimmunity ・Reproductive failure and autoimmunity ・Pregnancy-induced hypertension and immunity ・Reproductive disorders and gene polymorphism
Neurology	Osamu Onodera Tel 0683 e-mail onodera@bri.	・Researches for clinical neurology ・Researches for pathogenesis and treatments for stroke ・Researches for pathogenesis and treatments for neurodegenerative diseases ・Researches for pathogenesis and treatments for neuroimmunological disorders ・Researches for pathogenesis and treatments for neuromuscular disorders

Division	Professor (First & Last name)	Education Research
Neurosurgery	Makoto Oishi Tel 0651 e-mail mac.oishi@bri.	・Translational research for malignant brain tumors ・Translational research for treatment of cerebral vascular disorders ・Translation research for epilepy ・Translation research for treatment of pediatric neurosurgical disorders ・Imaging of higher brain function ・Elucidating machanisms of cortical reorganization after cerebral diseases and clinical application
Neural function, development and reproductive engineering	Toshikuni Sasaoka Tel 2163 e-mail sasaoka@bri. Associate Professor Manabu Abe Tel 0621 e-mail manabu@bri.	We produce genetically engineered animals that are useful as model animals in basic medical research, and conduct behavioral, biochemical, histological, and physiological analyses.In addition, we conduct a number of joint research projects with domestic and international researchers to elucidate higher brain functions. Through our research, we are able to acquire knowledge and skills in the latest neuroscience, molecular biology, and reproductive and developmental engineering. ・Production of model animals for human disease and development of gene manipulation techniques ・Improvement of repro-developmental techniques applicable to assisted reproductive technology ・Basic research on understanding of the molecular mechanisms of brain function using genetically modified animals
Neurogenetics	Takeshi Ikeuchi Tel 2343 e-mail ikeuchi@bri.	・Biomarker development for dementia ・Molecular genetics of dementia ・Research & development of familial Alzheimer's disease ・Molecular pathogenesis of dementia ・Bioresource establishment of dementia
Cellular Neuropathology	Takayasu Mikuni Tel 0926 e-mail tmikuni@bri.	・In vivo genome editing techniques in the brain ・In vivo molecular imaging techniques in the brain ・Studying the mechanism of learning and memory ・Studying the pathogenesis of developmental disorders
Neuroscience of Disease	Hideaki Matsui Tel 0646 e-mail hide0729@bri.	・Laboratory Policy: Conquering Intractable Diseases - Supporting Each Other with disability- Making Scientific History ・Research on the pathophysiology of intractable diseases and aging: Among diseases, the current focus is on neurodegenerative diseases such as Parkinson's disease, Alzheimer's disease, and Amyotrophic Lateral Sclerosis. ・Research on mechanisms of developmental disorders ・Collaboration with pharmaceutical companies and food manufacturers ・The unique feature of this program is that it attempts to understand the nature of intractable diseases and aging by comparing various research subjects such as cultured cells, small fish, mice, and human autopsy brains.

Division	Professor (First & Last name)	Education Research
Bioinformatics	Shujiro Okuda Tel 0390 e-mail okd@med.	・Researches for human gut metagenome data ・Researches for associations between human gut microbiome and diseases ・Researches for cancer genome data ・Comparative genome researches for phospho-sites ・Construction for multi-omics databases ・Researches for medical artificial intelligence
Clinical Nephrology and Rheumatology	★ Assosiate Professor Shin Goto Tel 2193 e-mail gotos@med.	・Molecular biological analysis of the pathogenesis and progression of primary glomerulonephritis ・Clinico-pathological research in primary and secondary kidney diseases ・Development of new technologies of hemodialysis therapy and regenation medicine ・Research for treatment of renal anemia ・The pathogenesis and treatment of rheumatic and autoimmune diseases ・The pathophysiology and treatment of diabetic and hypertensive kidney diseases ・Nutrition science in kidney diseases ・Epidemiology for life-style related diseases using large-scale cohorts ・Genetic analysis and development of treatment for congenital kidney diseases
Respiratory Medicine	※ Toshiaki Kikuchi Tel 025-368-9321 e-mail kikuchi@med.	・Research for respiratory diseases ・Research for respiratory infection ・Research for psychosomatic medicine ・Research for thoracic malignant diseases
Pediatrics	Akihiko Saito Tel 2222 e-mail asaitoh@med.	
Endocrinology and Metabolism	Hirohito Sone Tel 025-368-9026 e-mail sone@med.	・Research of metabolic diseases such as diabetes, dyslipidemia, hypertension, obesity, etc. by utilizing medical big data analysis (especially artificial intelligence (AI)), development of medical health apps, clinical epidemiology including cohort studies, meta-analysis, and health economics ・Basic research to elucidate the mechanisms of onset and aggravation of the above-mentioned diseases and their complications, and to develop new treatments
Cardiology	Takayuki Inomata Tel 2182 e-mail inotaka@med.	Basic and clinical research on atherosclerotic diseases Basic and clinical research on heart failure Basic and clinical research on cardiac arrhythmia

Division	Professor (First & Last name)	Education Research
Thoracic and Cardiovascular Surgery	★ Associate Professor Shuichi Shiraishi Tel 2242 e-mail sshuichi@med.	Thoracic Surgery Cardiac Surgery Vascular Surgery Artificial Organ、Anti- Thrombolytic Therapy Heart and Lung Transplantation
Anesthesiology	Hiroshi Baba Tel 2323 e-mail baba@med.	Mechanisms of anesthetics. Mechanism of acute pain. Çlinical physiology and pharmacology of neuron. (Functional monitorining of spinal cord) Intraoperative monitoring of respiratory and circulatory function.
Emergency and Critical Care Medicine	Kei Nishiyama Tel 2338 e-mail keinishi@med.	Data science on emergency medical system Research on resuscitation Research on management of critically ill patients Research on the development of medical treatment methods using artificial intelligence
Pathomorphology	※ ★ Assistant Professor Katsuyoshi Takata Tel 2106 e-mail ktakata@med.	Comprehensive molecular pathological analysis of neoplasm using molecular manipulation technologies, protein detection, multiomics on tumor cell lines, mouse tumor model and patient tumor tissues.
Anatomy	Noboru Sato Tel 2045 e-mail nsato@med.	・Development of motoneurons and their target musucles ・Evolution of the vertebrates ・Function of novel molecules in the brain ・Development of gene transfer and bioimaging system in vivo
Developmental Physiology	Sayaka Sugiyama Tel 2071 e-mail sugiyama@med.	・Experience-dependent formation of neural circuits for individuality ・Molecular and physiological functions to regulate sensory and emotional development ・Visualization of circuits and behaviors with an image recognition system ・Rewiring of neural circuits as application to developmental and psychiatric disorders.
Digestive and General Surgery	Toshifumi Wakai Tel 2223 e-mail wakait@med.	・Gastrointestinal Surgery ・Hepato-Biliary-Pancreatic Surgery ・Esophagus and Gastric Surgery ・Colorectal Surgery ・Breast and Endocrine Surgery ・Surgical Metabolism and Nutrition ・Organ Transplantation (Liver and Pancreas) ・Precision Cancer Medicine ・Robotic Surgery ・Artificial intelligence

Division	Professor (First & Last name)	Education Research
Orthopedic Surgery	Hiroyuki Kawashima Tel 2272 e-mail inskawa@med.	・Repair and regeneration of locomotive organ (bone, joint, muscle, tendon, nerve) ・Biomechanics of locomotive organ (bone, joint, muscle, tendon, nerve, spine) ・Pathophysiology, repair and regeneration of spine and spinal cord ・Pathophysiology and treatment for hand injury and diseases ・Basic and clinical application of Microsurgery ・Pathophysiology and treatment for bone and soft tissue tumor ・Pathophysiology and treatment for RA ・Osteoporosis and fragility fracture in elderly ・Sarcopenia and frailty ・Rehabilitation for patients with locomotive organ disease ・QOL: quality of life in patients with locomotive organ disease ・Trauma of extremities, pelvis and spine/spinal cord ・Artificial joints of extremities and spine
Pediatric Surgery	Yoshiaki Kinoshita Tel 2258 e-mail kinoppy@med.	Neonatal surgery Pediatric Endoscopic Surgery Pediatric Solid Tumor Pediatric Urology Congenital Pulmonary Disease Pediatric Liver and Pancreatic Disease Pediatric Surgical Nutrition and Metabolism Pediatric Inguinal Disease
Urology	★ Associate Professor Kazuhide Saito Tel 2285 e-mail kazsaito@med.	Structure and function of kidney, genitourinary tract and male genitalia Urological Oncology Urolithiasis Pathophysiology of urinary tract Kidney transplantation and immunosuppression Urinary tract reconstruction and plastic surgery Endourology, Urological endocrinology, andrology
Hematology	※ Hirohito Sone Tel 025-368-9026 e-mail sone@med.	・Research for the pathogenesis of hematological malignancies including leukemia, lymphoma and myeloma. Clinical research to develop new treatments for hematological disorders ・Research for the transplantation immunoreaction on allogeneic hematopoietic cell transplantation
Bio-systemic Gastroenterology	Shuji Terai Tel 2203 e-mail terais@med.	・Regenerative Medicine (Gastoenterology & Hepatology) ・Regulation for digestion, absorption and metabolism ・Metabolic syndrome related steatosis, fibrosis, immunity and carcinogenesis ・ Applied Medicine using biomaterial, exosome and 3D printer. Translational Medicine (Gene & Cell Therapy, Exosome Therapy, Designer cell, Endscopy).

Division	Professor (First & Last name)	Education Research
Neurobiology and Anatomy	Hirohide Takebayashi Tel 2053 e-mail takebaya@med.	・Developmental neurobiology ・Mechanisms of neurononal and glial cell differentiation from neural stem cells ・Role of RNA-binding proteins on neural cell function ・Pathological analysis of mouse models with neurodegenerative disease ・Regenerative therapies for neurological disorders
Neurophysiology	Isao Hasegawa Tel 2068 e-mail isaohasegawa@med.	1. Neural basis for visual perception and memory 2. Neural basis for linguistic/symbolic structuring in primates 3. Neural basis for cognitive social interactions in primates
Psychiatry	★ Associate Professor Jun Egawa Tel 2212 e-mail jeg5414@med.	・Neural Circuit Analysis of "Theory of Mind ・Functional analysis of risk genes for autism spectrum disorders using neurite and synapse development in cultured neurons as phenotypes. ・Research on brain pathology of autism spectrum disorder using magnetoencephalography ・Molecular genetic studies of schizophrenia and autism spectrum disorders ・Pharmacogenomic studies on the effects and side effects of psychotropic drugs ・Clinical pharmacological research on biomarkers of treatment-resistant depression ・Perinatal mental health research on psychosocial factors and biomarkers of perinatal depression
Ophthalmology and Visual Sciences	★ Associate Professor Tadamichi Akagi Tel 2293 e-mail akagi@med.	・ Cell biology, pathophysiology, pharmacology of glaucoma ・ Ocular imaging of glaucoma and vitreo-retinal diseases. ・ Ophthalmic surgery and laser treatments ・ Corneal transplantation ・ Ocular infection and chemotherapy, pharmacology ・ Ocular histology, pathology and oncology ・ Neurophthalmology ・ Pediatric ophthalmology
Otolaryngology	Arata Horii Tel 2303 e-mail ahorii@med.	Otology and neurotology, vestibular and auditory science, cochlear implants, middle ear surgery, head and neck surgery, endoscopic sinus surgery

Division	Professor (First & Last name)	Education Research
Functional Imaging	Hiroyuki Ishikawa Tel 2315 e-mail iskw@med.	・Research on diagnostic radiology ・Research on diagnostic imaging for lung cancer ・Research on the application of new diagnostic imaging procedures ・Research on therapeutic interventions using diagnostic imaging procedures
Renal Cell Biology	★ Associate Professor Yoshiyasu Fukusumi Tel 2160 e-mail fukusumi@med.	・Developmental mechanism of kidney glomeruli ・Molecular structure of the barrier of glomerular capillary wall ・Pathogenic mechanism of kidney diseases ・Establishment of novel therapy for nephrotic syndrome
Neuropathology	Akiyoshi Kakita Tel 0673 e-mail kakita@bri.	Studies as a comprehensive, academic neuropathology department that functions as a team to deliver the highest quality diagnostic services and to perform researches on pathomechanisms underlying various brain disorders.
Integrated Neuroscience	★ Associate Professor Kosuke Itoh Tel 0676 e-mail itoh@med.	・In vivo functional Imaging of brain ・In vivo magnetic resonance microscopy of brain
Biological Magnetic Resonance	★ Associate Professor Kosuke Itoh Tel 0676 e-mail itoh@med.	・In vivo molecular MR of brain ・In vivo monitoring of water dynamics in brain
Functional Neurology & Neurosurgery	Hitoshi Shimada Tel 2274 e-mail shimada.hitoshi@bri.	・We will conduct basic/clinical neuroimaging study using PET and MRI. Our main research interests include 1) the pathological basis of neuropsychiatric disorders (especially neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease, and their related disorders); 2) the homeostatic regulation of brain environment; and 3) the establishing of novel biomarkers contributing to promotion of drug discovery.
System Pathology for Neurological Disorders	Kazuki Tainaka Tel 0900 e-mail kztainaka@bri.	・3D imaging of cleared brain tissue ・Pathological analysis of neural disease
	Masaki Ueno Tel 0684 e-mail ms-ueno@bri.	・Development and plasticity of neural circuits ・Connectivity and functions of motor and autonomic circuits ・Neural regeneration and repair after spinal cord injury and stroke ・Brain-organ-immune system interaction
Plastic and Reconstuctive Surgery	Ken Matsuda Tel 2593 e-mail matsuken@med.	Microsurgery Reconstructive surgery(head and neck, upper and lower limb, breast) Peripheral nerve regeneration Craniofacial surgery Maxillofacial surgery Wound healing

Division	Professor (First & Last name)	Education Research
Virology	Takayuki Abe Tel 2115 e-mail atakayu@med.	・Molecular biology and research & development of hepatitis B virus (HBV) and hepatitis C virus (HCV). ・Molecular biology of SARS-CoV-2. ・Molecular biology of human parechovirus. ・Molecular biology of herpes simplex virus (HSV). ・The role of USP10 in the neurodegenerative diseases, including Alzheimer’s disease and Parkinson’s disease.
Immunology and Medical Zoology	Tomoya Katakai Tel 2133 e-mail katakai@med.	・Function and dynamics of immune cells ・Structure and function of lymphoid tissues ・Function of stromal cells in lymph node ・Molecular-pathophysiology of infection and immune-associcated diseases ・Cellular and molecular mechanisms of anti-tumor immunity ・Immune responses to fermented microorganisms
Bacteriology	Sokichi Matsumoto Tel 2050 e-mail sohkichi@med.	·Basic biological research to know what is living using bacteria. ·Analysis of bacterial persisting mechanism, such as, dormancy induction and biofilm formation. ·Analysis of the molecular mechanisms of virulence of *Mycobacterium tuberculosis* and other mycobacteria. ·Basic and translational research for development of vaccines, therapeutic agents, and diagnostic tools to protect against tuberculosis, leprosy, nontuberculous mycobacterial (NTM) diseases, and other intractable diseases. ·Clinical study and survey in tuberculosis-endemic area in Asia and Africa, and contribute to global cooperation.
International Health	Reiko Saito Tel 2129 e-mail jasmine@med.	・Influenza surveillance in Japan and other countries(Molecular epidemiology, drug resistance, evaluation of influenza vaccination) ・Molecular epidemilogy of respiratory syncytial virus (RSV) ・Molecular epidemilogy of SARS-CoV-2 ・J-GRID Project, ″Study on influenza like illness and meningoencephalitis in Myanmar″ ・Infectious disease investigation in developing countries ・Infectious disease epidemiology/modeling
Infection Control and Prevention	※ Toshiaki Kikuchi Tel 025-368-9321 e-mail kikuchi@med.	Research for infection diseases
Gastroenterological Infection	Shuji Terai Tel 2203 e-mail terais@med.	・Regenerative Medicine (Gastoenterology & Hepatology) ・Regulation for digestion, absorption and metabolism ・Metabolic syndrome related steatosis, fibrosis, immunity and carcinogenesis ・ Applied Medicine using biomaterial, exosome and 3D printer. Translational Medicine (Gene & Cell Therapy, Exosome Therapy, Designer cell, Endscopy).

Division	Professor (First & Last name)	Education Research
Social and Environmental Medicine	Kazutoshi Nakamura Tel 2124 e-mail kazun@med.	・Epidemiology of dementia, osteoporosis, osteoarthritis, sarcopenia, etc. ・Prevention of dementia using omics ・Epidemiologic studies on vitamin D, and other nutrients for disease prevention
Forensic Medicine	Hisakazu Takatsuka Tel 2146 e-mail houi@med.	・Foreosic pathology ・Postmortem radiology (Forensic radiology) ・Forensic toxicology ・Forensic dentistry ・Forensic isotope hydrology ・Clinical forensic medicine (Child abuse) ・Forensic Law
Child Health	※ Akihiko Saito Tel 2222 e-mail asaitoh@med.	
Rahabilitation Medicine	※ Hiroyuki Kawashima Tel 2272 e-mail inskawa@med.	Research on rehabilitation Research on life management and support Research on sports medicine
General Medicine	Kenya Kamimura tel 2173 e-mail kenya-k@med.	・Development of training methods for generalist. ・Evaluation of the recurrent education methods to be a generalist. ・Development of effective telemedicine using digital technology, etc. and related human resource development. ・Researches focusing on the resolution of social problems in the community and multi-disciplinary collaboration.
Medical Evaluatics	Akira Toyama Tel 2782 e-mail toyama@med.	・Drug administration planning based on pharmacokinetics and pharmacodynamics ・Pharmacoeconomics ・Pharmacotherapy and therapeutic risk management
Clinical Research and Regulatory Science	Yoshihiko Tomita Associate Professor Mototsugu Tanaka Tel 2331 e-mail mototsugu-tanaka@med.	・Regulations and policies on pharmaceuticals and medical devices ・Development and review of pharmaceuticals and medical devices ・Drug lag research ・Methodology to evaluate efficacy and safety in clinical research ・Adequacy of study design, implementation, analysis and reporting in clinical research ・Appropriate use of medicines based on real-world data

Division	Professor (First & Last name)	Education Research

Cooperative Graduate School

Neuropsychopharmacology	Cooperative Graduate School (Visiting professor) Kazutaka Ikeda Tel 03-6834-2390 e-mail ikeda-kz @igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Genome analyses, behavioral pharmacology, and clinical application for addictive disorders ・Genome analyses, behavioral pharmacology, and personalized medicine for pain and analgesia ・Behavioral pharmacology and molecular biology for neurodevelopmental disorders ・Molecular mechanisms underlying pleasant feeling
Molecular Genetics	Cooperative Graduate School (Visiting professor) Yoshiaki Kikkawa Tel 03-5316-3311 e-mail kikkawa-ys @igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Investigation of the relationship between genetic mutations and phenotypes by using mammalian disease models ・Development of novel mammalian models for investigating genetic disease pathologies
Neural Engineering	Cooperative Graduate School (Visiting professor) Yukio Nishimura Tel 03-6834-2373 e-mail nishimura-yk @igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Development of neuroprosthesis via artificial neural connection and its clinical application ・Neural mechanisms of functional recovery after brain/spinal cord injury ・Neural mechanisms of motor performance control by motivation and emotion
pediatric neurology	Hiroshi Sakuma Tel 03-6834-2358 e-mail sakuma- hs@igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Molecular basis of microglial development and differentiation ・Pathomechanisms of pediatric virus-associated acute encephalopathy ・Diagnosis of pediatric autoimmune encephalitis
Biological Psychiatry	Cooperative Graduate School (Visiting professor) Makoto Arai Tel, 03-6834-2380 e-mail, arai- mk@igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Pathophysiological and clinical association of Schizophrenia with carbonyl stress ・Development and analysis of mouse models based on Schizophrenia pathophysiology ・Clinical investigation of the effects of a vitamin B6 derivative in patients with carbonyl stress-related Schizophrenia ・Schizophrenia cell models and genetic counseling
Integrative Brain Science for Psychiatry	Cooperative Graduate School (Visiting professor) Masanari Itokawa Tel 03-6834-1779 e-mail itokawa- ms@igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science Basic and clinical research on neuropsychiatric diseases. Basic and clinical research on mental status and behaviors of human.

Division	Professor (First & Last name)	Education Research
Molecular neuropathology	Cooperative Graduate School (Visiting professor) Masato Hasegawa Tel 03-6834-2349 e-mail hasegawa-ms@igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Molecular mechanisms of neurodegenerative diseases ・Analysis of the cellular and animal models of neurodegenerative diseases ・Search for diagnostic markers ・Development of disease modifying therapies of neurodegenerative diseases
Developmental Neurology	Cooperative Graduate School (Visiting professor) Chiaki Maruyama Tel 03-6834-2367 e-mail maruyama-ck@igakuken.or.jp	Tokyo Metropolitan Institute of Medical Science ・Mechanisms of brain formation using mouse models ・Comparative evolutionary analysis of brain development by interspecies comparison ・Elucidation of molecular mechanisms of brain dysplasia ・Basic research on psychiatric and neurological disorders
Functional genomics	Cooperative Graduate School (Visiting professor) Hideya Kawaji Tel:03-5316-3128 e-mail kawaji-	Tokyo Metropolitan Institute of Medical Science ・Functional elements in genomes ・Methodologies to analyze function of genome and RNA ・Translational researches with genomics approaches

*It is possible to conduct research at the above-mentioned research institutes and obtain a degree from Niigata University Graduate School of Medical and Dental Sciences (Master's Program).