Major Study Themes of Faculty

(As of March 2023)

Division of Physics Professor MERA Yutaka 1. Study on nanomaterials, nanostructures and surface Division of Physics Associate MERA Yutaka 2. Development of nano-spectroscopy Associate NARUSE Nobuyasu 1. Research for optical properties of nano-,bio-material Department of Division of Chemistry Professor NARUSE Nobuyasu Department of Division of Chemistry Professor FURUSHO Yoshio	ials croscopy, and spectroscopy
Division of Physics 3. Medical application of nanotechnology Division of Physics Associate Professor NARUSE Nobuyasu 1. Research for optical properties of nano-,bio-materi Department of Division of Chemistry Professor FURUSHO Yoshio 1. Development of medical activity for materials utilizing formation of hydrogen bounding	croscopy, and spectroscopy
Division of Physics Associate Professor I. Research for optical properties of nano-,bio-materi 2. Research for material science using diffraction, mic 3. Physics research contributing to environmental scie prevention, and medical science 4. Research for science education Department of Division of Chemistry Professor FURUSHO Yoshio bydrogen bonding 1. Research for optical properties of nano-,bio-materi 2. Research for material science 4. Research for science education	croscopy, and spectroscopy
Department of Division of Physics Associate Professor NARUSE Nobuyasu 2. Research for material science using diffraction, mice 3. Physics research contributing to environmental science prevention, and medical science Department of Division of Chemistry Professor FURUSHO Yoshio 1. Development of medical sullizing formation of bydrogen bonding	croscopy, and spectroscopy
Department of Division of Chemistry Professor FURUSHO Yoshio 2. Research for material science using diffraction, mic Department of Division of Chemistry Professor FURUSHO Yoshio 1. Development of soft materials utilizing formation of burgers	
Professor NAKUSE Nobuyasu 3. Physics research contributing to environmental scie prevention, and medical science 4. Research for science education Department of Division of Chemistry Professor FURUSHO Yoshio Soft materials utilizing formation of burgers bonding	ence, agriculture, disaster
Department of Division of Chemistry Professor FURUSHO Yoshio 2. Construction of soft materials utilizing formation of burding	
Department of Division of Chemistry Professor FURUSHO Yoshio bydrogen bonding	
Department of Division of Chemistry Professor FURUSHO Yoshio 2. Construction of soft materials utilizing formation of bydrogen bonding	
Department of Division of Chemistry Professor FURUSHU Yoshio hydrogen bonding	
Fundamental Biogeneous	organic salt bridges driven by
Fundamental Biosciences	
3. Construction of molecular assembly through hierarc	chical organization of biomolecules
1. Molecular basis of immune cell trafficking Professor HIRATA Takako 2. Control of lymphocyte migration to the skin and mu	10000
3. Immune regulation by cytoskeleton-associated prof	
Division of Biology 1. Immunometabolism and redox signaling in autoimm	
Associate 2 The mechanism of CD8+ regulatory T call different	
Professor SATOOKA Hiroki SATOOKA Hiroki Professor Program (SATOOKA Hiroki Professor Pr	
3. Non-Jymphoid tissue-specific immune regulation	
Associate	
Division of Mathematics Professor KAWAKITA Motoko 1. Algebraic curves with many rational points	
Associate 1. Spatial cognition and language understanding	
Division of Psychology Professor KUJIMA Takatsugu 2. Affective information processing	
3. Non-verbal cognition	
Department of Culture and Division of English Professor KATO Yutaka 1. International comparative research on bioethics	_
Medicine 2. Research on medical and nursing English education 1. Anthropological studies on ethnic minorities of P.R.	
Division of Cultural Anthropology Professor KANESHIGE Tsutomu 2. Anthropological studies on Fengshui	.china
3. Anthropological studies on rerit and merit-making	1
1. Analysis of the function of the brain phospholipid t	
2. Analysis of the nathogenesis of nonalcoholic fatty l	
Professor UDAGAWA Jun 2. A margare so the partogenesis of inductorion cracky	
Division of Anatomy and Cell Biology 3. Study on the relationship between hand structure a	and grasping function
Special 1. Elucidation of the molecular mechanisms underpin	
Contract UCHIMURA Yasuhiro (developmental origins of health and disease) hyp	
Department of Anatomy Associate 2. Elucidation of the genes involved in	
1. Analysis of brain morphogenesis	
Professor KATSUYAMA Yu 2. Analysis of mechanisms of maintenance and differ	entiation of the stem cells
3 Analysis of model animals of psychiatric diseases	
Division of Neuroanatomy 1. Stem cell aging and tissue homeostasis	
Associate KANEDA Hayato 2. Search for biomarkers of age-related diseases	
Professor 3. Brain morphogenesis	
1. Analysis of the generation, maintenance, and differe	ntiation of neural stem cells
Department of Physiology Division of Integrative Physiology Professor HITOSHI Seiji 2. Development of regenerative therapy strategy for the	he damaged central nervous system
3. Understanding the pathogenesis of psychiatry dise.	ases
1. Epigenetic regulation of gene expression and cance	ar development
Division of Molecular Physiological Professor AGATA Yasutoshi 2. Regulation of gene expression and cancer developm	
Chemistry 3. Regeneration of cancer specific T cells from iPS ce	
Department of Associate TERADA Koji I. Molecular mechanism of antigen receptor gene rea	rrangement in lymphocytes
Biochemistry and Molecular Professor 2. Gene-reglation for lymphocyte development	
Biology Disference OCITA Hispiratu and genetic analysis in	1 the field of cancer biology and
Division of Molecular Medical Professor OGITA Hisakazu cardiovascular diseases	
Biochemistry Associate Signal transduction and coll-coll communication in	cancer and inflormators
Associate SATO Akira 1. Signal transduction and cell-cell communication in 2. Adult diseases triggered by aberrant regulation of V	
1 Gastrointestinal pathology	
Protessor KUSHIMA Kyoji 2 Diagnostic pathology	
Division of Human Pathology Associate 1 Study on the progression potential of non-invasive	cancer of gastrointestinal tract
Professor Professor 2. Research on antitumor therapy based on synthetic	
1. Development of vaccines and therapeutic agents a	
Department of Pathology Professor ITOH Yasushi 2 Research on genetic diseases and aging using a no	
Division of Pathogenesis and Disease Regulation Regulation	nacaques
Associate ISHIGAKI Hirohito 1. Immunology with using a primate model especially	for tumor, transplantation, and
Professor infectious disease	
Division of Microbiology and Infectious Associate TANBE Yukihiro 1. Physiological function(s) of cancer-related genes.	
Diseases Professor 2. Search for novel anti-tumor compounds.	
	-
1. Molecular mechanism and pathophysiological role	tabolism
Professor NISHI Elichiro 2. Regulatory role of transcriptional coregulator in me	
Professor NISHI Eiichiro 1. Molecular mechanism and pathophysiological role 2. Regulatory role of transcriptional coregulator in me 3. Role of metallopeptidases in cardiovascular diseas	e, cancer and inflammatory diseases
Department of _ Professor NISHI Eiichiro 1. Molecular mechanism and pathophysiological role - 2. Regulatory role of transcriptional coregulator in me 3. Role of metallopeptidases in cardiovascular diseas Department of 1. Molecular mechanism and pathophysiological roles	e, cancer and inflammatory diseases
Department of _ _ Professor NISHI Eiichiro 1. Molecular mechanism and pathophysiological role view Department of _ _ _ _ _ Pharmacology _ _ _ _ _	e, cancer and inflammatory diseases s of heart rate control by the
Department of Pharmacology Pharmacology OHNO Mikiko 2. Usefulness of the novel biomarker for the early det	se, cancer and inflammatory diseases s of heart rate control by the tection of ACS
Department of _ _ Professor NISHI Eiichiro 1. Molecular mechanism and pathophysiological role view Department of _ _ _ _ _ Pharmacology _ _ _ _ _	se, cancer and inflammatory diseases s of heart rate control by the tection of ACS

	·			
Division of Occupational and Environmental Health Medicine Division of Legal Medicine		Special		1. Prevention of Work-related Musculoskeletal Disorders
		Contract		 Health and Safety of Persons with Disabilities (Prevention of secondary disorders) Support for Balancing Treatment and Work
	Environmental Health	Associate		4. Social Barriers and Health of People with Disabilities or Information Vulnerable
	Professor		Populations	
			1. Amalysis of traffic injuries	
	Professor	HITOSUGI Masahito	2. Pathophysiological analysis for sudden death cases due to thrombosis	
	Division of Legal Medicine			3. Preventive medicine for deaths of external causes
		Associate		1. Forensic Toxicology, clinical toxicology, physiology of abuse drugs
	Professor	NAKAWUKA Mami	 Virtopsy, postmortem computed tomography Out-of-hospital death by infectious disease including COVID-19 	
				1. Coronary reconstruction in ischemic heart disease
		Professor		2. Primary and secondary prevention for atherosclerosis
				3. Optimal antithrombotic therapy
Divis	Division of Cardiovascular Medicine	Associate	OZAWA Tomoya	(To be decided)
	Division of Cardiovascular Medicine	Professor	OZAWA TOIIIOya	
		Associate		1. Elucidation of the pathophysiology of heart failure
		Professor	SAKAI Hiroshi	2. Research on diagnosis and treatment of pulmonary hypertension
				3. Research on diagnosis and treatment of cardiac amyloidosis
		Professor	NAKANO Yasutaka	 Structure and function relationship of the lung Structure and function relationship of respiratory diseases
	Division of Respiratory Medicine	Associate		1. Research on the pathophysiology of severe asthma
		Professor	YAMAGUCHI Masafumi	 Study on the pathophysiology and treatment of chronic intractable cough
				1. Mucosal immunology
		Professor	ANDOH Akira	2. Gut microbiota
				3. Cytokine network
	Division of Gastroenterology	Associate	INATOMI Osamu	1. Pancreatic fibrosis in pancreatic cancer and chronic pancreatitis
		Professor		2. New development of endoscopic device in ERCP
		Associate		1. Mucosal immunity in inflammatory bowel disease
	1	Professor	NISHIDA Atsushi	 The gut microbiota in inflammatory bowel disease Cytokine network in inflammatory bowel diesase
Department of Internal				Cytokine network in initiation bower diesase Mechanism of immune response after hematopoietic stem cell transplantation
Medicine	Division of Hematology	Professor	MURATA Makoto	2. Prognostic factor for hematological diseases
				3. Development of novel cellular therapy
				1. Pathogenesis of diabetic nephropathy
		Professor	KUME Shinji	2. Pathogenesis of chronic kidney disease
	Division of Diabetology, Endocrinology			3. Renal energy metabolism
	and Nephrology			1. Pathophysiology of Type 2 diabetes
	and Nephrology	Associate	FUJITA TUKIMIYO	Roles of the gut in glucose metabolism, including incretin biology
		Professor		3. Pathophysiology of alpha cells in pancreatic islets
				4. Cohort studies on diabetic complications
l			URUSHITANI Makoto	1. Molecular targeted therapy for amyotrophic lateral sclerosis
l		Professor		 Cell biological analysis of neurodegenerative diseases Noninvasive diagnosis of neurological diseases
		110163301		4. Molecular pathology of cerebrovascular diseases
				5. Functional brain image analysis of Nerve rehabilitation
	Division of Neurology			 Engineering the novel molecular therapies with cell and tissue specific targeting
l		Associate		
				Application to the regenerative therapies with reprograming of bone marrow-derived
	1	Professor	TERASHIMA Tomoya	Application to the regenerative therapies with reprograming of bone marrow-derived cells
1		Professor	TERASHIMA Tomoya	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases
		Associate	TERASHIMA Tomoya YAMAKAWA Isamu	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology
				cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image
		Associate Professor	YAMAKAWA Isamu	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia
		Associate	YAMAKAWA Isamu	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism
		Associate Professor Professor	YAMAKAWA Isamu MARUO Yoshihiro	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism
		Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism
Department of Pediatrics		Associate Professor Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism
Department of Pediatrics		Associate Professor Professor Associate Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia
Department of Pediatrics	_	Associate Professor Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome
Department of Pediatrics	-	Associate Professor Professor Associate Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants
Department of Pediatrics	_	Associate Professor Professor Associate Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants
Department of Pediatrics	-	Associate Professor Professor Associate Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of pilirubin encephalopathy in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia
Department of Pediatrics		Associate Professor Professor Associate Professor Associate Professor Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics
Department of Pediatrics.	-	Associate Professor Professor Associate Professor Associate Professor Professor Professor Special	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 3. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotopics 1. Clinical research on sleep disorders
Department of Pediatrics		Associate Professor Professor Associate Professor Associate Professor Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Gardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health
	-	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 3. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotopics 1. Clinical research on sleep disorders
Department of Pediatrics	_	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of pilirubin encephalopathy in preterm infants 2. Ganditovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep
	_	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia.
	-	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Ganetic back ground of bilirubin encephalopathy in preterm infants 4. Genetic back ground of bilirubin encephalopathy in preterm infants 5. Genetic back and bysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Elpidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia. 2. Mental illness with involuntary movemen.
	-	Associate Professor Professor Associate Professor Associate Professor Professor Professor Special Contract Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 3. Cardiovascular adverse effect by psychotropics 3. Clinical research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia. 2. Mental illness with involuntary movemen. 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 4. Istablishing novel biomarkers for post-operative delirium on elderly patients 3. Investigation for decreased quality of life and social function caused by sleep disorder 3. Clinical studies of pregnant women with mental illness 3. Clinical sudies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 3. Nestigation for decreased quality of life and social function caused by sleep disorder 3. Nestigation for decreased vality of life and social function caused by sleep disorder
	-	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of herefdtary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of bilirubin encephalopathy in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Cardiovascular adverse effect by psychotropics 3. Clinical research on sleep disorders 3. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia. 3. Clinical studies of pregnant women with mental illness 3. Clinical studies of pregnant women with mental illness 4. Establishing novel biomarkers for post-operative delirium on elderly patients 5. Linvestigation for decreased quality of life and social function caused by sleep disorder 3. A retrospective observational study associated with electroconvulsive therapy by
	-	Associate Professor Professor Associate Professor Associate Professor Professor Professor Special Contract Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Ganetic back ground of bilirubin encephalopathy in preterm infants 4. Genetic back ground of bilirubin encephalopathy in preterm infants 5. Genetic back ground of bilirubin encephalopathy in preterm infants 6. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophys
	-	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of polinubin encephalopathy in preterm infants 2. Cardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia 2. Hortoging and pathophysiology of schizophrenia. 3. Mental illness with involuntary movemen. 3. Clinical studies of pregnant women with mental illness
	-	Associate Professor Professor Associate Professor Associate Professor Professor Professor Special Contract Professor Associate Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi FUJIMOTO Noriki	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Gardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia. 2. Mentai illness with involuntary movemen. 3. Clinical studies of pregnant women with mentai illness 1. Establishing novel biomarkers for post-operative delirium on elderly patients 2. Investigation for decreased quality of life and social
	-	Associate Professor Associate Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor Associate Professor Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi FUJIMOTO Noriki	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Research on factors involved in complement dysregulation 1. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of prolonged hyperbilirubinemia 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical research on sleep disorders 2. Epidemiological research on sleep and mental health 3. Development and evaluation of wearable devices to analyze sleep 1. Etiology and pathophysiology of schizophrenia. 2. Offenses with involuntary movemen. 3. Clinical studies of pregnant women with mental illness 1. Establishing novel biomarkers for post-operative delirium on elderly patients 2. Investigation for decreased quality of life and social function caused by sleep disorder 3. A retrospective observational study associated with electroconvulsive therapy by multiple facilities 1. Analysis of regulatory B cells on autoimmune diseases 2. Investigation for the treatment of cutaneous mailgnant tumors 3. Gene editing for treatment of epidermolysis bullosa
		Associate Professor Associate Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor Associate Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi FUJIMOTO Noriki	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Genetic back ground of bilirubin encephalopathy in preterm infants 4. Genetic back ground of bilirubin encephalopathy in preterm infants 5. Genetic back ground of bilirubin encephalopathy in preterm infants 6. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical studies of pregnant wome with mental illness 1. Etiology and pathophysiology of schizophrenia. 2. Mental illness with involuntary movemen. 3. Clinical studies of pregnant wome
Department of Psychiatry	-	Associate Professor Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor Professor Professor Professor Professor	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi FUJIMOTO Noriki	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Ganetic back ground of bilirubin encephalopathy in preterm infants 4. Genetic back ground of bilirubin encephalopathy in preterm infants 5. Genetic back ground of bilirubin encephalopathy in preterm infants 6. Genetic back ground of bilirubin encephalopathy 7. Etiology and pathophysiology of schizophrenia 8. Etiology and pathophysiology of schizophrenia. 9. Etiology and pathophysiology of schizophrenia. 10. Etiology and pathophysiology of schizophrenia. 11. Etiology and pathophysiology of schizophrenia. 12. Etiology and pathophysiology of schizophrenia.
Department of Psychiatry	-	Associate Professor Associate Professor Associate Professor Associate Professor Professor Special Contract Professor Associate Professor Associate Professor Associate	YAMAKAWA Isamu MARUO Yoshihiro TAGA Takashi SAWAI Toshihiro YANAGI Takahide OZEKI Yuji KADOTANI Hiroshi FUJII Kumiko YOSHIMURA Atsushi FUJIMOTO Noriki KATO Takeshi	cells 3. Analysis of the relation between bone marrow-derived cells and neurological diseases 1. Electrodiagnosis in clinical neurology 2. Neurorehabilitation and Brain functional image 1. Molecular genetic analysis of hereditary unconjugated hyperbilirubinemia 2. Polymorphism of UDP-glucuronyltransferase and drug metabolism 3. Genetic analysis of congenital hypothyroidism 1. Clinical study for developing therapeutic approach of pediatric leukemia 1. Study on diagnosis and treatment of the atypical hemolytic uremic syndrome 2. Elucidation of the disease mechanism of C3 glomerulopathy 3. Genetic back ground of prolonged hyperbilirubinemia in preterm infants 2. Genetic back ground of bilirubin encephalopathy in preterm infants 3. Genetic back ground of bilirubin encephalopathy in preterm infants 4. Genetic back ground of bilirubin encephalopathy in preterm infants 5. Genetic back ground of bilirubin encephalopathy in preterm infants 6. Genetic back ground of bilirubin encephalopathy in preterm infants 1. Etiology and pathophysiology of schizophrenia 2. Cardiovascular adverse effect by psychotropics 1. Clinical studies of pregnant wome with mental illness 1. Etiology and pathophysiology of schizophrenia. 2. Mental illness with involuntary movemen. 3. Clinical studies of pregnant wome

				1. Clinical study for the prevention of post operative complications in pancreatectomy
				 Development of immunotherapies for gastrointestinal diseases Study of the pancreatic function
	Professor	TANI Masaji	4. Evaluation of mechanisms for the metastasis	
	Division of Gastrointestinal Surgery, and Breast, Pediatric, and General Surgery			5. Study of the intervention for surgical skill
				6. Interaction between cancer cells and fibroblasts
				1. Study for Cancer fibrosis.
		Associate	MIYAKE Tohru	2. Study for Cancer metastasis.
		Professor		 Study for peri operatire management in Colorectal Surgery.
				1. Research on efficacy and safety of bariatric and metabolic surgery
		Associate	YAMAGUCHI Tsuyosi	2. Research on upper gastrointestinal surgery
		Professor		3. Research on efficacy and safety of treatment of peptic ulcer
				1. Long term outcome of total arterial off-pump CABG
		Professor	SUZUKI Tomoaki	2. The outcome of total arch replacement under mild hypothermia
	ğery	Professor	3020KI TUIIUaki	3. Technical aspect or long-term durability of mitral valve repair
Department of Surgery				Type A aortic surgery: optimal procedure or long-term remodeling
				 Minimally invasive surgery with VATS for chest diseases
		Associate Professor	HANAOKA Jun	2. A study of the operation method for lung cancer
				3. da Vinch® robotic surgery in general thoracic surgery
				4. A study of the identification technique of the interlobar/intersegmental plane
	Division of Cardiovascular Surgery and			5. Evaluation of pulmonary function before and after lay resection using dynamic X-ray
	Thoracic Surgery			apparatus
				1. Uniportal video-assisted thoracoscopic surgery for non-small cell lung cancer
		Associate		Surgical navigation system for non-small cell lung cancer
		Professor	OSHIO Yasuhiko	3. 8K endoscopic system for thoracic surgery
				4. New method to detect and repair intraoperative pulmonary air leakage
			-	5. Antitumor immune response and tumor microenvironment
				1. Study of long-term outcome of thoracic aortic aneurysm
		Associate	TAKASHIMA Noriyuki	2. Surgical examination and long-term prognosis study for acute aortic dissection
		Professor		3. Examination of arterial wall extensibility and clinical application
				4. Study of surgical procedure and long-term outcome of aortic stenosis
		Destaura		1. Improvement of clinical output in arthroscopic shoulder surgery
		Professor	IMAI Shinji	2. Improvement of clinical output in shoulder arthroplasty
				3. Regenerative medicine for injures of articular cartilage and spinal cord
		Associate	MODUKaaii	1. Research for the ossification of the spinal ligaments
Department of Orthopaedic		Professor	MORI Kanji	2. Research for the diagnosis and treatment for the disease with spine and spinal cord
	-			3. Research for bone matabolism
Surgery		Associate		1. Improvement of clinical outcome in total knee arthroplasty
			KUBO Mitsuhiko	2. Research for kinematics of total knee arthroplasty
		Professor		3. Basic and clinical research for articular cartilage repair
		Associate		4. Research for pain in osteoarthritis of the knee
		Professor	YAYAMA Takafumi	1. Research for ossification process in patients with ossification of spiual ligament
		FIDIESSUI		2. Pathological analysis for hypertrophy of ligament tissue 1. Treatment and pathophysiology for ischemic cerebrovascular disease
		Associate	TSUJI Atsushi	2. Neuroendovascular treatment
		Professor		3. Cerebral blood flow and metabolism
				1. Research for the multidisciplinary treatment for glioma
Department of	-	Associate		2. Research for the safety and the risk of awake surgery
Neurosurgery		Professor		3. Research for the therapeutic indications about neuroendoscopic surgery
			NITTA Naoki	1. Pathophysiology and treatment of mesial temporal lobe epilepsy
		Associate Professor		2. Analysis of neurophysiological examination
				3. Pathophysiology and treatment of brain tumors
			SHIMIZU Takeshi	1. Pathogenesis and regulation of upper airway inflammation
		Professor		2. Mucus hypersecretion and goblet cell metaplasia
				3. Immunology and allergy of upper airway
		Associate	OWAKI Shigehiro	1. Diagnosis and treatment of voice disorder
Department of		Professor	OWANI Shigeniro	2. Diagnosis and treatment of headandneck cancer
Otorhinolaryngology-Head	-	Associate	KOHZAKI Hideaki	1. The mechanism and control of epithelial-derived airway allergic diseases
and Neck Surgery		Associate Professor		2. The pathophysiological analysis of eosinophilic chronic rhinosinusitis
		110162201		3. The pathophysiological analysis of Japanese cedar pollen rhinitis
		Associate		1. Study of eosinophilic inflammation in upper airway
		Professor	TOJIMA Ichiro	2. The pathophysiological research in allergic rhinitis
		. 10100001		3. Mucus production and its regulation in airway epithelium
				1. Minimally invasive gynecologic surgery (hysteroscopic, laparoscopic, and robotic
		Professor	MURAKAMI Takashi	surgery)
		5165560	MUKAKAMI lakashi	2. Endometriosis and adenomyosis
				3. Reproductive endocrinology and infertility
				1. Elucidation of pathophysiology and development of treatment and prevention methods
Department of Obstetrics	-			for cesarean scar syndrome
		Associate	TSUJI Syunichiro	2. Elucidation of the pathogenesis and development of treatments for perinatal brain
Department of Obstetrics and Gynecology	-	Professor	TSUJI Syunichiro	disorders
	_	Professor		
	_	Professor		Diagnosis and treatment of cesarean scar syndrome
	_	Professor		 Diagnosis and treatment of cesarean scar syndrome The role of resident microglia to neonatal hypoxic ischemic encephalopathy
	_	Professor Associate	KASAHARA Kuoko	
	_		KASAHARA Kyoko	4. The role of resident microglia to neonatal hypoxic ischemic encephalopathy
	_	Associate Professor	KASAHARA Kyoko	 The role of resident microglia to neonatal hypoxic ischemic encephalopathy Women's healthcare
	-	Associate Professor Associate	KASAHARA Kyoko JOHNIN Kazuyoshi	 The role of resident microglia to neonatal hypoxic ischemic encephalopathy Women's healthcare Osteoporosis in women
and Gynecology	_	Associate Professor		 The role of resident microglia to neonatal hypoxic ischemic encephalopathy Women's healthcare Osteoporosis in women Surgery in pediatric urology (Reseach for plastic and laparoscopic surgery)
	_	Associate Professor Associate Professor		 The role of resident microglia to neonatal hypoxic ischemic encephalopathy Women's healthcare Osteoporosis in women Surgery in pediatric urology (Reseach for plastic and laparoscopic surgery) Reserch for voiding dysfunction in children
and Gynecology	_	Associate Professor Associate		 The role of resident microglia to neonatal hypoxic ischemic encephalopathy Women's healthcare Osteoporosis in women Surgery in pediatric urology (Reseach for plastic and laparoscopic surgery) Reserch for voiding dysfunction in children Application of MRI imaging in pediatric urology

Department of Ophthalmology		Professor	OHJI Masahito	 Study for vitreoretinal pathogenesis and development of new approach in vitreoretinal surgery
				2. Study for intraocular pharmacokinetics of cytokines
			3. Study for pathogenesis in the rat of diabetes model mice	
	Associate		1. Molecular biology of retina	
	Professor	SAISHIN Yoshitsugu	2. Intraocular drug therapy	
	Associate	CAWADA Onemu	1. Pharmacokinetics of intravitreal agents	
	Professor	SAWADA Osamu	2. Treatment for diabetic macular edema	
	Associate		1. Pharmacokinetics of intravitreal agents.	
	Professor	KAKINOKI Masashi	2. Pharmacokinetics of intravitreal agents in macaque monkeys.	
		FIDIESSU		3. New technics of vitreoretinal surgery.
		Professor	KITAGAWA Hirotoshi	 Multimodal in vivo monitoring of ischemia reperfusion injury
		110163301	KITAGAWA TITOtoshi	2. Cardioprotection by anesthetic agents and opioids
				1. Elucidation of molecular basis for the mechanisms underlying cardioprotective effect
Department of				of anesthetics, focused on Ca2+ transport proteins.
Anesthesiology –	Associate		2. Investigation of modulatory effects of anesthetics on cardiac pacemaker function.	
	Professor	KOJIMA Akiko	3. Electrophysiological and molecular biological analyses for the interaction between	
			anesthetics and ion channels.	
			Investigation of modulatory effects of anesthetics on ionic mechanisms involved in	
				arrhythmogenesis.
				1. Study for pathophysiology of central nerves system disease and functional imaging
		Professor	WATANABE Yoshiyuki	using MRI and CT.
				2. Artificial intelligence for medical imaging.
				3. Human fluid flow imaging using MRI.
				1. Difference in tracheal diameter changes during deep breathing in a supine position
				between restrictive ventilator impairment patients, obstructive ventilator impairment
				patients and normal respiratory function patients using dynamic chest radiography
		Associate	SONODA Akinaga	2. Difference in the pixel value change of lung field during deep breathing between
		Professor		restrictive ventilator impairment patients, obstructive ventilator impairment patients
Department of Radiology	-			and normal pulmonary function patients using dynamic chest radiography
				3. The effect of botulinum toxin A injection into the perirenal arterial space to treat
				hypertension
		Associate	KONO Naoaki	1. Clinical research on radiation therapy for localized prostate cancer
		Professor	KUNU Nabaki	A retrospective study of the safety and efficacy of multi-targeted stereotactic radiation
				for metastatic brain tumors
				1. Research on improving the image quality of ultra-high-resolution CT of the lungs using
	Associate	KITAHARA Hitoshi	artificial intelligence	
		Professor	NT/NT/NT/NT/NT/OSIT	 Efforts to improve the accuracy of diagnostic imaging in the musculoskeletal radiology Efforts to improve the accuracy of diagnostic imaging in the pediatric radiology
				4. Efforts to improve the accuracy of diagnostic imaging in the pediatic radiology
				1. Oral Cancer
			YAMORI Masashi	2. Jaw Defomities and Cleft Palate
		Associate		3. Anti-resorptive Agents-related Osteonecrosis of the Jaw
		Professor		4. Obstructive Sleep Apnea Syndrome
				5. Periodontal Disease
Department of Oral and	_			6. Dental Implant
Maxillofacial Surgery				1. Elucidation of the mechanism of exposed bone wound healing and development of
		Associate		new tissue regeneration and repair materials
				2. Comprehensive analysis of oral flora
		Professor		3. Elucidation of the relationship between maxillofacial morphology and sleep apnea
				syndrome and various diseases
		Associate Professor	CHANO Tokuhiro	1. Clinical application of genetic medicine
Department of Clinical				2. Analyzing the biological function RBICCI/FIP200
Laboratory Medicine	_			Inventing novel strategies for cancer treatment, applied with novel biomarkers
				4. Drug development from targeting RAB39A
Diseasetia Dathalasi.	_	Associate	MORITANI Suzuko	1. Diagnostic pathology
Diagnostic Pathology		Professor	MONTAN JUZUKU	2. Pathology of the breast and gynecological organs
				1. Study on multimodal treatment of severe head injury
		Professor	SHIOMI Naoto	2. Clinical research on brain death and resuscitation
				3. Construction of pre-hospital emergency medical care system
Department of Critical and				4. End of life care in the Emergency medical field
Intensive Care Medicine	-	Associate		1. Study of cardiac dysfunction and arrhythmia under excessive stress
		Professor	TSUJITA Yasuyuki	2. Study of septic organ dysfunction
		FIDIESSU		3. Epidemiological study of cardiovascular shock
		Associate	FUJINO Kazunori	1. Sucidation of the mechanism of multi-organ failure during invasion
		Associate Professor	FUJINO Kazunori	1.遏ucidation of the mechanism of multi-organ failure during invasion
			FUJINO Kazunori	1. Educidation of the mechanism of multi-organ failure during invasion 1. Isolation and functional analysis of cancer-related genes.
			FUJINO Kazunori	 Bucidation of the mechanism of multi-organ failure during invasion Isolation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis.
			FUJINO Kazunori	 Bucidation of the mechanism of multi-organ failure during invasion Isolation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody,
			FUJINO Kazunori	 Bucidation of the mechanism of multi-organ failure during invasion Isolation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine)
			FUJINO Kazunori DAIGO Yataro	Events Events
		Professor		Events Events
Department of Medical		Professor		Laucidation of the mechanism of multi-organ failure during invasion Laucidation and functional analysis of cancer-related genes. Liucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) Development and translational research of cancer vaccine and immunomodulator drugs Development of precision medicine and new cancer biomarkers through translational
Oncology		Professor		 Euclidation of the mechanism of multi-organ failure during invasion Isolation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) Development and translational research of cancer vaccine and immunomodulator drugs Development of precision medicine and new cancer biomarkers through translational research.
		Professor		Events Events
Oncology	_	Professor		Event and translational research of cancer value biometry of supporting human biospecimen analysis Setablement of biobank and scientific platform of supporting human biospecimen analysis
Oncology		Professor		Event and translational research of cancer values and translational research. Setablishment of biobank and scientific platform of supporting human biospecimen analysis
Oncology	_	Professor	DAIGO Yataro	Event and the set of the mechanism of multi-organ failure during invasion I.Solation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) Development and translational research of cancer vaccine and immunomodulator drugs A. Development of precision medicine and new cancer biomarkers through translational research. Establishment of biobank and scientific platform of supporting human biospecimen analysis Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer
Oncology	_	Professor		Event and the set of the mechanism of multi-organ failure during invasion Event and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) Development and translational research of cancer vaccine and immunomodulator drugs Event and translational research of cancer biomarkers through translational research. Establishment of biobank and scientific platform of supporting human biospecimen analysis Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer Control over the perioperative tumor microenvironment in gastrointestinal cancers
Oncology	_	Professor Professor Associate	DAIGO Yataro	Event and the set of the mechanism of multi-organ failure during invasion I.Solation and functional analysis of cancer-related genes. Elucidation of molecular pathology of cancer by genomics and proteomics analysis. Development of molecular targted drugs (small compounds, antibody, nucleic acid medicine) Development and translational research of cancer vaccine and immunomodulator drugs A. Development of precision medicine and new cancer biomarkers through translational research. Establishment of biobank and scientific platform of supporting human biospecimen analysis Analysis of mechanisms and development of treatment for metastasis after surgery for gastrointestinal cancer

			1	A Madrid drawarts Austritum draw of
Department of Comprehensive Internal – Medicine				Medical diagnosis Avoiding diagnostic errors Rural medicine
	Professor	SUGIMOTO Toshiro	3. Clinical electrolyte acid-base abnormalities electrolyte; acid-base abnormalities	
			4. Development of continuing professional development using ICT	
	Associate	OHNISHI Masato	 Pathophysiology and therapy of chronic heart failure Diagnosis and therapy of hypertension in primary care 	
	Professor		3. Simulation-based instruction in healthcare professionals	
	Associate		1. Percutaneous endoscopic gastrostomy and management of that patient.	
mounting	Wedicine	Professor	ITOH Akihiko	2. Indication and complications of enteral nutrition.
	Associate		 Nutritional support team management and multi-occupation collaboration. Development of effective regional cooperation for medical care of the diabetic patients 	
		Professor	MAENO Yasuhiro	 Development of effective regional cooperation of medical care of the diabetic patients Development of effective educational techniques for the diabetic or pre-diabetic people
	Associate	WADA Hiroshi	1. Research for the efficacy of regional cooperation in respiratory medicine examination.	
		Professor	in briting and	2. Clinical examination of obstructive pulmonary disease.
			 Multimodality therapy for colorectal cancer Development of the resin of the surgical instrument 	
	Professor	MEKATA Eiji	3. Anticancer drug sensitivity test	
				4. Oncology (disease state, therapy and community cooperation)
Department of Comprehensive Surgery	Associate	OUTALlineurli	1. Multimodality therapy for colorectal cancer	
	Professor	OHTA Hiroyuki	 Clinical study of postoperative complication Development of the resin of the surgical instrument 	
		A		1. Study of gastrointestinal surgical stress
		Associate Professor		2. Development of microwave surgical device
				3. Clinical study of the operation method for pancreas
		Associate Professor	KITAMURA Naomi	 Development of new endotoxin measurement method. Postoperative analgesic effect for laparoscopic cholecystectomy.
Department of Plastic and		Associate		1. Establishment of a novel scaffold which leads to the regeneration of heterogenous
Reconstructive Surgery	-	Professor	OKANO Junko	tissues in deep wounds
				2. Development of bacteriophage therapy for multi-antibiotic-resistant bacteria 1. Indirect calorimetry
Endoscopy	_	Associate	BANBA Shigeki	2. Energy consumption and cytokines
		Professor	_	3. Nutritional therapy in inflammatory bowel diseases
Blood Purification		Associate	KANASAKI Masami	1. Blood purification
		Professor		2. Mechanism of development of diabetic nephropathy
Blood Service		Associate Professor	MINAMIGUCHI Hitoshi	 Phenotypic analysis of hematopoietic stem cell Phenotypic analysis of leukemic stem cell
Madical Information and				1. Medical electronics
Medical Informatics and Biomedical Engineering	-	Associate Professor	SUGIMOTO Yoshihisa	2. Medical information system
				3. Biomedical engineering for cardiology
		Professor		 Research on lipid transporters and lipid metabolism Development of methods for measuring lipids
Pharmacy	-			3. Study of personalized medicine
		Associate	IKEDA Yoshito	1. Research on lipid transporters
		Professor		2.Research on metal transporters
		Professor		 Study of surgical stress Development of new endotoxin measurement method
Medical Safety Section	-	110100001		3. Studies of treatment for colorectal cancer and inflammatory bowel diseases
		Associate	MANDAI Ryoichi	1. in-hospital emergency system
		Professor		
Rehabilitation Section	_	Associate	KODAMA Narihito	 A study of bone and soft tissue tumors Microsurgical approach for orthopedics and reconstructive surgery
		Professor		3. A study of the idiopathic interosseous nerve palsy
Center for Clinical			KURATA Mayumi	1. A Recognition Investigation about Living Donor Transplantation. : Analysis of the free
Research and Advanced	-	Associate Professor		description answer of the citizen by the Internet survey
Medicine		110163301		 Construction of the study entry applicant support system which utilized the Internet Critical Review of Priority Relative-Offers in Revision of Organ Transplant Law
			KAWASAKI Taku	1. Hip and knee arthroplasty
Clinical Education Center		Professor		2. Epidemillogy of rheuamatoid arthritis
for Physicians	-	Associate		3. Locomotive rehabilitation 1. Podocyte injury in diabetic kidney disease
		Professor	YAMAHARA Mako	Podocyte injury in diabetic kidney disease Ander Management and the sease Ander Management and the sease
	Basic Neuroscience Research Unit -			1. Molecular neuropathology of Alzheimer's disease
	Department of Molecular Neuropathology	Professor	NISHIMURA Masaki	2. Development of preemptive medicine for Alzheimer's disease
				3. Neuroscience on the principle underlying memory-based behaviors
				 Study of the pathogenesis involved in neurodegenerative disorders and dementia Therapeutics development for neurodegenerative disorders and dementia by antisense
		Professor	ISHIGAKI Shinsuke	modulation
	Translational Research Unit -			3. Development for novel biomarkers for neurodegenerative disorders and dementia by
Molecular Neuroscience	Department of Diagnostics and Therapeutics for Brain Diseases			behavioral test batteries and imaging analysis
Research Center	Therapeutics for Brain Diseases	Associate		 Elucidation of Alzheimer's disease pathology for discovering novel therapeutic targets. Development of diagnostic biomarkers for dementia at very early stage.
		Professor	YANAGISAWA Daijiro	3. Research on the pathology, diagnosis, and disease-modifying therapy of
				neurodegenerative diseases.
	Translational Darrow 1, 11, 11	Apr: -		1. Development of molecularly targeted agents
	Translational Research Unit - Department of Biomedical MR Science	Associate Professor	SHIINO Akihiko	 Study and programing of diagnostic software for brain MR imaging Magnetic resonance spectroscopy
	,			4. Clinical study in neurological disorders
				1. The research about primate ES/iPS cells
		Desf	EN44.14	2. The research about the development of method to create genetically modified monkeys
		Professor	EMA Masatsugu	and its application to human disease modeling 3. The research about primate early embryonic and placental development
	Research Center for Animal			 i ne research about primate early embryonic and placental development Molecular mechanism about angiogenesis
		-		1. Therapeutic research of anti-ER stress drugs identified by a novel luminous probe.
	-			In morapedite research of and Enterest angle restanted by a nerter lamined proper
Research Center for Animal Life Science	-			2. Analysis of cellular pathology of sporadic amyotrophic lateral sclerosis focusing on
Research Center for Animal Life Science	-	Associate	MORIMURA Toshifumi	 Analysis of cellular pathology of sporadic amyotrophic lateral sclerosis focusing on translation products whose mRNAs are recognized by TDP-43.
	-	Associate Professor	MORIMURA Toshifumi	2. Analysis of cellular pathology of sporadic amyotrophic lateral sclerosis focusing on

		r		
	Pioneering Research Division	Special Contract Associate Professor	HASHIMOTO Shoko	1. Elucidation of pathological mechanism of Alzheimer's disease using mouse models
		Pasociate Protessor		2. Malysis of the effect of oxidative stress on brain homeostasis
Medical Innovation Research Center	International Joint Research Division	Special Contract Professor	Wan Zurinah Binti Wan Ngah	 Research theme includes mechanisms in ageing and neurodegenerative diseases such as Alzheimer's Disease and modulation by antioxidants such as palm oil vitamin E tocotrienol. Modulation of the gut microbiome and metabolome and correlation with cognitive function by tocotrienol in an APP/PS1 AD mouse model. Tocotrienol isomers effects on differentiated APP Swedish/PS1 transfected SH-SY5Y cells Systems integration of the transcriptome, proteome and metabolome of the hippocampus of AD APP/PS1 mice treated with tocotrienol (Collaboration with UKM) •
Central Research Laboratory	-	Associate Professor	ASAHINA Ginji	 Elucidating the mechanism of the activation of hepatic stellate cells in liver fibrosis. Interaction of peritoneal macrophages and mesothelial cells covering the internal organs in the peritoneal cavity. Role of macrophages in pancreatic cancer.
Health Administration Center	-	Associate Professor	OGAWA Emiko	 Research on the pathogenesis of chronic obstructive pulmonary disease (COPD) Clinical research using COPD cohort data
Information Technology and Management Center	_	Professor	ASHIHARA Takashi	 Development of new strategy of catheter ablation for refractory arrhythmias. Studies on the mechanism of electrical defibrillation and the development of new defibrillator. Application of human iPS cell-derived cardiomyocytes to the studies on cardiovascular diseases. Studies on cardiovascular diseases by in silico, artificial intelligence, and biomedical engineering.
		Associate Professor	MOTOYAMA Kazutaka	1. studies on star formation process 2. studies on evolution of interstellar medium 3. high performance computing
		Professor	ITO Toshiyuki	1. Medical education
Education Center for Medicine and Nursing	-	Professor	MUKAISHO Kenichi	 Gastric and esophageal carcinogenesis using various animal models Analyses of extra-esophageal symptoms of GERD using reflux animal models Influence of bile acids on carcinogenesis and cancer progression Morphology of cancer cells using a novel 3D cell culture system
	Division of Preventive Medicine NCD Epidemiology Research Center Division of Advanced Epidemiology	Professor	MIURA Katsuyuki	 Epidemiologic research of cardiovascular diseases Preventive medicine of cardiovascular diseases Nutritional epidemiology
		Associate Professor	KADOTA Aya	 Epidemiology of Diabetes mellitus and NCDs Epidemiology of Cardiovascular disease and subclinical atherosclerosis MWAS on Dementia
Research Center		Professor	YANO Yuichiro	1. research on lifestyle-related diseases 2. big data 3. Epidemiological research
Division of Medical	Division of Medical Statistics	Associate Professor	HARADA Akiko	 Statistical methods for epidemiologic researches Statistical methods for health services research Epidemiologic research of physical activity and aging
Department of Research and Development for Innovative Medical Devices and Systems	-	Special Contract Professor	TANI Toru	Future surgical operation system Robotic navigation surgical operation Less invasive surgical operation Microwave surgical devices S. Hyperthermia treatment against malignancy
Community Healthcare Education and Research	-	Associate Professor	UMEDA Tomoko	 Fibrinolysis factors (uPA etc.) and adhesion factors (CD44 variant etc.) related to the breast cancer invasion and the metastasis. MRI mapping for the intraductal area of breast cancer Tumor infiltrating cells around of the breast cancer, related to the trastuzumab after neoadjuvant chemotherapy
Center		Associate Professor	KAWAI Hiromichi	(To be decided)
IR Office	-	Associate Professor	MORINO Katsutaro	1. Mechanism of Metabolism and Nutation 2. Mitochondrial biogenesis