

Kanazawa Medical University Research Activities and Publications

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Kanazawa Medical University

I N D E X

Cod	Department	Page	Code	Department	Page
Basic Medical Science					
0100	Department of Anatomy	1	0420	Department of General and Digestive Surgery	63
0110	Department of Anatomy	2	0430	Department of Orthopedics Surgery	66
0120	Department of Physiology	3	0440	Department of Neurosurgery	69
0130	Department of Physiology	5	0450	Department of Plastic and Reconstructive Surgery	71
0140	Department of Biochemistry	7	0460	Department of Pediatric Surgery	74
0150	Department of Biochemistry	8	0470	Department of Ophthalmology	76
0160	Department of Pharmacology	9	0475	Department of Otorhinolaryngology	80
0170	Department of Pathology	10	0485	Department of Head and Neck Surgery	82
0180	Department of Pathology	11	0490	Department of Dermatology	83
0190	Department of Microbiology	13	0500	Department of Urology	85
0200	Department of Immunology	14	0510	Department of Obstetrics and Gynecology	56
0210	Department of Medical Zoology	15	0520	Department of Anesthesiology and Perioperative Medicine	88
0220	Department of Pathology and Laboratory Medicine	17	0540	Department of Physical and Rehabilitation Medicine	89
0230	Department of Social and Environmental Medicine	20	0550	Department of Emergency Medicine	91
0240	Department of Epidemiology and Public Health	22	0570	Department of Community Medicine	92
0250	Department of Legal Medicine	26	0575	Department of Gastroenterological Endoscopy	93
0260	Department of Medical Education	27	0580	Department of Oral and Maxillofacial Surgery	95
Clinical Medicine					
0300	Department of Cardiology	28			
0310	Department of Respiratory Medicine	30			
0320	Department of Gastroenterology	32			
0330	Department of Nephrology	36			
0340	Department of Diabetology and Endocrinology	39			
0350	Department of Hematology and Immunology	42			
0360	Department of Neurology	44			
0363	Department of Medical Oncology	46			
0366	Department of Infectious Diseases	48			
0368	Department of General Internal Medicine	49			
0370	Department of Geriatric Medicine	51			
0380	Department of Pediatrics	53			
0390	Department of Neuropsychiatry	55			
0400	Department of Radiology	57			
0410	Department of Cardiovascular Surgery	59			
0415	Department of Thoracic Surgery	60			
University Hospital					
			0635	Hepatology	96
			0675	Health Evaluation Center	98
Medical Research Institute					
			7100	Department of Life Science	101
			7200	Department of Advanced Medicine	105
			7310	Division of Innovative Research	109
			7320	Division of Vision Research for Environmental Health	111
			7330	Division of Dermatocology	114
			7340	Division of Anticipatory Molecular Food Science and Technology	116
			7400	Research Support Center	119
School of Nursing					
			8010	Fundamental Nursing	122

Cod	Department	Page	Code	Department	Page
8040	Adult Nursing	123			
8050	Gerontological Nursing	124			
8060	Pediatric Nursing	125			
8070	Maternity Nursing·Midwifery	126			
8080	Community Health Nursing	127			
8085	Psychiatric and Mental Health Nursing	129			
8090	Home Care Nursing	131			
8095	Comprehensive Nursing	132			
8100	Medical Science	133			

Department of General Education

8610	Natural Science	136
8620	Human Science	138

Affiliated Institution

9030	Northern Noto Institute of Community Medicine	140
9050	FDD·MB Center	141

Himi Municipal Hospital

9100	Himi Municipal Hospital	142
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Basic Medical Science

0100 Department of Anatomy I

Faculty

Title	Name	Field of Specialization
Professor	HATTA Toshihisa	developmental biology, neuroscience
Professor	HIGASHI Nobuaki	macroscopic anatomy, embryology
Senior Assistant Professor	SHIMADA Hiroki	Medical science of free radical
Senior Assistant Professor	SIMAMURA Eriko	Medical science of free radical

Keywords of Research

exo utero development, embryo, fetus, neurogenesis, cytokines, growth factors, hormones, stereology, ELISA, antioxidant, apoptosis, bcl-2, enzyme cytochemistry, electron microscopy, furanonaphthoquinone, free radical, immunohistochemistry, human macroscopic anatomy, mitochondria, NADH-quinone oxidoreductase, paraquat, reactive oxygen species, superoxide, scavenger, VDAC, anomaly of muscles and blood vessels

Outline of Research

1. Studies on the feto-maternal signal transductions contributing to the fetal development via neuro-immune-endocrine network.
2. Cytochemical study of the cytotoxicity by reactive oxygen species.
3. Biological functions of VDAC family proteins.
4. Macroscopic studies on the variations of muscles and blood vessels.
5. Comparative anatomical studies on the brain evolution

Publications

Originals

- 0100B001 (T.Inoue), R.Hashimoto, A.Matsumoto, E.Jahan, A.M.Rafiq, J.Udagawa, T.Hatta, H.Otani: In vivo analysis of Arg-Gly-Asp Sequence/Integrin $\alpha 5 \beta 1$ -mediated signal involvement in embryonic enchondral ossification by exo utero development system., *J. Bone Miner. Res.*, 29:1554-63, 2014.

Reviews

- 0100C001 T.Arikawa, E.Simamura, H.Shimada, T.Nakamura, T.Hatta, H.Shoji: Significance of sugar chain recognition by galectins and its involvement in disease-associated glycosylation, *Congenit. Anom. (Kyoto)*, 54:77-81, 2014.

0110 Department of Anatomy II

Faculty

Title	Name	Field of Specialization
Professor	HONMA Satoru	gross anatomy
Professor	SHINOHARA Harumichi	gross anatomy, embryology, lymphatic vessels, microscopy
Senior Assistant Professor	SONOMURA Takahiro	Neuroanatomy, immunohistochemistry, electron microscopy, 3D reconstruction
Senior Assistant Professor	YASUTAKA Satoru	gross anatomy, central nervous system
Senior Assistant Professor	KOMINAMI Rieko	immunocytochemistry, pituitary, cell proliferation, electron microscopy

Keywords of Research

arthrology, osteology, clinical anatomy, development, lymphatic vessels, muscle, innervation, nerve, pituitary, ACTH, LH, GH, ontogenesis, immunocytochemistry, bromodeoxyuridine, proliferation, electron microscopy, rat, PCNA, Neuroanatomy, FIB/SEM, BMI, gustatory

Outline of Research

Theme of researches

- 1) Human gross anatomy
- 2) Neural network of the basal ganglia
- 3) Circuit of gustatory in the central nervous system
- 4) Anatomical study of brain white matter by using fiber dissection technique
- 5) Immuno-histochemical study of pituitary gland

0120 Department of Physiology I

Faculty

Title	Name	Field of Specialization
Professor	KATO Nobuo	Brain Science
Senior Assistant Professor	TAJIMA Nobuyoshi	molecular physiology
Senior Assistant Professor	MATSUDA Naoto	Neuroscience
Assistant Professor	UCHIUMI Osamu	Neuroscience

Keywords of Research

central nervous system, neurophysiology, electrophysiology, immunohistochemistry, optical imaging, optical recording, olfactory system, olfactory center, chemical sense, vomeronasal organ, vomeronasal nerve, vomeronasal nerve layer, main olfactory bulb, accessory olfactory bulb, piriform cortex, field potential, propagating signal, horizontal propagation, oscillation, rat, guinea pig, slice preparation, in vitro, voltage-sensitive dye, subdivision, intracellular recording, intracellular staining, GABA, GABA_A receptor, GABA_B receptor

Outline of Research

The brain is often regarded as a microcosmos, which contains more than a million neurons. Each neuron, however, is not a mere stardust. A single neuron integrates many inputs thereunto, so as to determine whether the output signal is released or not. Neurons are connected to each other by synapses to build neuron network, which underlies brain function. Our primary research interest is to elucidate, in molecular terms, how one or more neurons are able to regulate neuron excitability and synaptic efficiency. In particular, we are interested in studying in vitro how the versatile intracellular messenger calcium ion mediates a number of signals differentially, thereby achieving adequate regulation of synaptic efficiency and neuron excitability. As another research topic, we are also studying feature detection mechanisms in pheromone-based olfactory sensation by using in vivo preparation.

Publications

Originals

- 0120B001 (H.Yoshimura), M.Hasumoto, T.Sugai, N.Segami, N.Kato: Enhancement of oscillatory activity in the endopiriform nucleus of rats raised under abnormal oral conditions., *Neurosci. Lett.*, 561:162-165, 2014.
- 0120B002 R.Yamamoto, N.Hatano, T.Sugai, N.Kato: Serotonin induces depolarization in lateral amygdala neurons by activation of TRPC-like current and inhibition of GIRK current depending on 5-HT_{2C} receptor, *Neuropharmacology.*, 82:49-58, 2014.

Presentations at Conference

International Conference (Symposium)

- 0120H001 N.Tajima, Y. Itokazu, ER. Korpi, P.Somerharju, R.Käkelä: Activity of BK channel is modulated by Membrane cholesterol content and association with Na⁺/K⁺-ATPase., The 45th NIPS International Symposium Co-sponsored by The Journal of Physiology, (Okazaki, '14.11).

International Conference (Presentations)

- 0120I001 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocyte in a rat spinal cord hemisection model, CSRS AP5 Viet Nam 2014, (Ho Chi Minh, '14.04).
- 0120I002 K.Tanaka, Y.Li, L.Li Wang, N.Kato, M.Matsui, T.Takegami: Memory disturbance of the mice treated with intraventricular administration of CSF from NMDAR-encephalitis patients, American Academy of Neurology 2014 Annual Meeting, (Philadelphia, '14.05).
- 0120I003 L.Wang, R.Yamamoto, N.Kato: Neuronal effects of BK channel opener applied to a mouse Alzheimer disease model., Neuroscience 2014 –Society for Neuroscience–, (Washington,DC, '14.11).
- 0120I004 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocytes in a rat spinal cord hemisection model, Neuroscience 2014, (Washington,DC, '14.11).

0130 Department of Physiology II

Faculty

Title	Name	Field of Specialization
Professor	SHIBAMOTO Toshishige	Circulatory Physiology
Professor	KURATA Yasutaka	Cardiac Electrophysiology
Senior Assistant Professor	TANIDA Mamoru	Circulatory Physiology
Assistant Professor	KUDA Yuichi	Circulatory Physiology

Keywords of Research

physiology, hepatic circulation, pulmonary circulation, sympathetic nervous system, isolated perfused liver, circulatory shock, triple vascular occlusion pressure, pulmonary edema, microcirculation, capillary pressure, vascular resistance distribution, pulmonary circulation, triple vascular occlusion pressure, cardiac electrophysiology, ion channels, pacemaker mechanisms, cardiac arrhythmias, biological pacemaker, mathematical modeling, bifurcation analysis, nonlinear dynamics, computer simulation, smooth muscle, vascular electrophysiology, artery, vein

Outline of Research

Our works widely cover the area of cardiovascular physiology. We are particularly interested in the mechanisms of regulations of hepatic circulation under normal and anaphylactic conditions, and the mechanisms of cardiac automaticity and arrhythmias as well as their regulations. Using liver perfusion system for rats, we recently elucidated the effects of vasoconstrictive lipid mediators such as PAF on the vascular resistance and oxygen consumption, the attenuating effect of NO on anaphylactic hepatic venoconstriction, and the decreased oxygen consumption during hepatic anaphylaxis. We also explored the inhibitory effect of angiotensin II on inward rectifier K⁺ currents via AT1 receptors in rat atrial myocytes, and the possible roles of pacemaker currents in robust pacemaking and driving of biological pacemakers.

Publications

Originals

- 0130B001 M.Tanida, K.Imanishi, H.Akashi, Y.Kurata, O.Chonan, E. Naito, S.Kunihiro, M.Kawai, A.Kato-Kataoka, T.Shibamoto: Injection of *Lactobacillus casei* strain Shirota affects autonomic nerve activities in a tissue-specific manner, and regulates glucose and lipid metabolism in rats., *J Diabetes Investig*, 5:153-161, 2014.
- 0130B002 L.Sun, M.Tanida, M.Wang, Y.Kuda, Y.Kurata, T.Shibamoto: Effects of anesthetics on the renal sympathetic response to anaphylactic hypotension in rats., *PLoS ONE*, 9:e113945;1-15, 2014.
- 0130B003 M.Wang, T.Shibamoto, Y.Kuda, L.Sun, M.Tanida, Y.Kurata.: Angiotensin II and vasopressin are involved in the defense system against anaphylactic hypotension in anesthetized rats., *Eur. J. Pharmacol.*, 731:38-43, 2014.
- 0130B004 M.Wang, T.Shibamoto, M.Tanida, Y.Kuda, Y.Kurata: Mouse anaphylactic shock is caused by reduced cardiac output, but not by systemic vasodilatation or pulmonary vasoconstriction, via PAF and histamine., *Life Sci.*, 116:98-105, 2014.
- 0130B005 (N.Yamamoto), M.Tanida, R.Kasahara, K.Sobue, K.Suzuki: Leptin inhibits amyloid β -protein fibrillogenesis by decreasing GM1 gangliosides on the neuronal cell surface through PI3K/Akt/mTOR pathway., *J. Neurochem.*, 131:323-332, 2014.

- 0130B006 (N.Yamamoto, M.Tanida, Y.Ono, R.Kasahara, Y.Fujii, K.Ohora, K.Suzuki, K.Sobue: Leptin inhibits amyloid β -protein degradation through decrease of neprilysin expression in primary cultured astrocytes., *Biochem. Biophys. Res. Commun.*, 445:214–217, 2014.
- 0130B007 (S.Sakata), Y.Kurata, P.Li, T.Notsu, K.Morikawa, J.Miake, K.Higaki, Y.Yamamoto, A.Yoshida, Y.Shirayoshi, K.Yamamoto, M.Horie, H.Ninomiya, S.Kanzaki, I.Hisatome: Instability of KCNE1-D85N that causes long QT syndrome: stabilization by verapamil., *Pacing Clin. Electrophysiol.*, 37:853–863, 2014.
- 0130B008 (H.Matsugami), Y.Harada, Y.Kurata, Y.Yamamoto, Y.Otsuki, H.Yaura, Y.Inoue, K.Morioka, A.Yoshida, Y.Shirayoshi, Y.Suyama, B.Nakayama, H.Iwaguro, K.Yamamoto, I.Hisatome: VEGF secretion by adipose tissue-derived regenerative cells is impaired under hyperglycemic conditions via glucose transporter activation and ROS increase, *Biomed. Res.*, 35:397–405, 2014.
- 0130B009 Y.Kuda, Y.Kurata, M.Wang, M.Tanida, T.Shibamoto: Major contribution of vasospasm-induced coronary blood flow reduction to anaphylactic ventricular dysfunction assessed in isolated blood-perfused rat heart, *Cardiol J.*, 21:11–17, 2014.
- 0130B010 M.Tanida, K.Imanishi, M.Komatsu, J.Satomi, N.Yamamoto, M.Wang, Y.Kurata, T.Shibamoto: Soy isoflavone affects the autonomic nervous system in a tissue-specific manner in anesthetized rats, *Exp. Biol. Med. (Maywood)*, 239:477–483, 2014.

Reviews

- 0130C001 (K.Nagai), A.Nijima, Y.Horii, J.Shen, M.Tanida: Olfactory stimulatory with grapefruit and lavender oils change autonomic nerve activity and physiological function., *Auton. Neurosci.*, 185:29–35, 2014.

Presentations at Conference

International Conference (Presentations)

- 0130I001 M.Kitadate, H.Tonami, T.Shibamoto: Hemodynamics of portal venules during anaphylactic shock : Experimental study by means of hepatic venography, *Asia-Pacific Congress of Cardiovascular and Interventional Radiology*, (Shingapore, '14.05).
- 0130I002 T.Shibamoto, M.Wang, Y.Kuda, M.Tanida, Y.Kurata: Angiotensin II and vasopressin serve as the defense system against rat anaphylactic shock, *37th Annual Conference on Shock*, (Charlotte, '14.06), *SHOCK2014*, 41 (Suppl 2); 49–50, 2014.

0140 Department of Biochemistry I

Faculty

Title	Name	Field of Specialization
Professor	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
Assistant Professor	SAKASAI Ryo	DNA damage response induced by anti-cancer drugs
Assistant Professor	SUNATANI Yumi	Function of DNA double-strand break proteins
Assistant Professor	MATSUI Tadashi	Molecular biology, DNA repair, p53-binding proteins

Keywords of Research

ionizing radiation, DNA double-strand break, checkpoint, DNA repair, cell cycle, p53, 53BP1, signal transduction

Outline of Research

Ionizing radiation (IR) induces a variety of DNA lesions, including DNA double-strand breaks (DSBs). DNA damages activate cell-cycle checkpoints, which monitor DNA damage and transduce signals to coordinate repair and cell cycle progression. Using the yeast two-hybrid system, we have identified two cellular proteins, designated 53BP1 and 53BP2, that interact with the tumor suppressor p53. After exposure of cells to IR, 53BP1 rapidly accumulates at sites of DNA DSBs, suggesting that 53BP1 is involved in cellular responses to DNA DSBs. Our goal is to know functions of 53BP1 in cellular responses to DNA DSBs.

Publications

Originals

- 0140B001 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, K.Iwabuchi, N.Tomosugi: RNA-binding protein RBM8A (Y14) and MAGOH localize to centrosome in human A549 cells., *Histochem. Cell Biol.*, 141:101-109, 2014.
- 0140B002 (JS.Yoo), K.Takahasi, CS.Ng, R.Ouda, K.Onomoto, M.Yoneyama, JC.Lai, S.Lattmann, Y.nagamine, T.Matsui, K.Iwabuchi, H.Kato, T.Fujita: DHX36 enhances RIG-I signaling by facilitating PKR-mediated antiviral stress granule formation., *PLoS Pathog.*, 10:e1004012;1-18, 2014.
- 0140B003 (B.Guerra), K.Iwabuchi, OG.Issinger: Protein kinase CK2 is required for the recruitment of 53BP1 to sites of DNA double-strand break induced by radiomimetic drugs., *Cancer Lett.*, 345:115-123, 2014.

Presentations at Conference

International Conference (Presentations)

- 0140I001 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, T.Shimasaki, K.Iwabuchi, N.Tomosugi: Role of RNA binding protein in cell cycle progression and centrosome maturation in human tumor cells., 19th World Congress on Advances in Oncology & 17th International Symposium of Molecular Medicine, (Greece, '14.10).
- 0140I002 R.Sakasai, Y.Sunatani, T.Matsui, M.Hashimoto, K.Iwabuchi: Ubiquitin-dependent activation of DNA-PKcs in response to DNA replication-mediated DNA double strand breaks, The 9th 3R Symposium Together with National Institute of Genetics 2014 International Symposium, (Gotenba, '14.11), Abstracts, 105, 2014.

0150 Department of Biochemistry II

Faculty

Title	Name	Field of Specialization
Professor	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Associate Professor	YOSHITAKE Yoshino	MicroRNA involved in angiogenesis, Functions of FGF-2 binding protein
Senior Assistant Professor	IKEDA Takayuki	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Assistant Professor	YOSHITOMI Yasuo	Molecular mechanisms of angiogenesis and vasculogenesis

Keywords of Research

growth factor, fibroblast growth factor, vascular endothelial growth factor, growth factor receptor, VEGF receptor, cytokines, autocrine/paracrine, angiogenesis, neuro-vascular interaction, tumor growth, diabetic vascular complications, endothelial cell, smooth muscle cell, chondrocyte, osteoblast, RNA interference, microRNA, alternative mRNA processing, centrosome, microtubule stabilizing protein, collagen, collagen tripeptide, hydroxyapatite, spermatogenesis, androgen receptor

Outline of Research

-
1. Mechanisms of alternative pre-mRNA splicing and 3'-end processing
 2. Cellular and molecular mechanisms in angiogenesis
 3. Screening and identification of genes and microRNAs involved in neuro-vascular interaction
 4. Molecular mechanisms in development of diabetic vascular complications
-

0160 Department of Pharmacology

Faculty

Title	Name	Field of Specialization
Professor	NISHIO Matomo	Electrophysiological and pharmacological study of excitable and non-excitable cells, Pharmacology of cardiovascular drugs
Professor(Additional Post)	ISHIBASHI Takaharu	Kinetics of NO(nitric oxide)-related compounds in cardiovascular system
Senior Assistant Professor	MASUOKA Takayoshi	Electrophysiology and behavioural pharmacology in central and peripheral nervous system
Senior Assistant Professor	YOSHIDA Junko	Pharmacology in cardiovascular system, Cancer chemotherapy
Assistant Professor	IMAZUMI Noriko	Pharmacology of cardiovascular drugs, Kinetics of NO-related compounds in cardiovascular systems, Cancer chemotherapy
Researcher	KUDO Makiko	Electrophysiology and behavioural pharmacology in central and peripheral nervous system

Keywords of Research

electropharmacology, electrophysiology, ionic channel, patch clamp, excitable membrane, cardiovascular system, ischemic disease, marine toxin, ATP-sensitive K⁺ channel, store-operated Ca²⁺ channel, Ca²⁺ imaging, coronary circulation, nitric oxide, hemodynamics, nitric oxide-releasing vasodilators, nitrosothiols, signal transduction, anti-tumor drug, proliferation, cell biology, hippocampal synapses, muscarinic acetylcholine receptor nervous system, peripheral sensory neuron, autonomic neuron, central ne, metabotropic glutamate receptor, receptorology

Outline of Research

- 1 Electrophysiological and pharmacological study on the regulatory mechanisms of excitable and non-excitable cells
- 2 Signaling mechanisms of bioactive substances
- 3 Electropharmacology of the drugs acting on the cardiovascular system
- 4 Pharmacological study of the ischemic cardiomyocytes
- 5 Kinetics of NO(nitric oxide)-related compounds in cardiovascular system
- 6 Pharmacological and electrophysiological studies on the neurophysiological mechanisms of memory and pain regulation

Publications

Originals

- 0160B001 (J.Uwada), H.Yoshiki, T.Masuoka, M.Nishio, I.Muramatsu: Intracellular localization of the M1 muscarinic acetylcholine receptor through clathrin-dependent constitutive internalization is mediated by a C-terminal tryptophan based motif., *J. Cell. Sci.*, 127:3131-3140, 2014.
- 0160B002 (H.Yoshiki), J.Uwada, AS.Anisuzzaman, H.Umada, R.Hayashi, R.Kainoh, Masuoka T, Nishi M, I.Muramatsu: Pharmacologically distinct phenotypes of α_{1B} -adrenoceptors: variation in binding and functional affinities for antagonists., *Br. J. Pharmacol.*, 171:4890-4901, 2014.

0170 Department of Pathology I

Faculty

Title	Name	Field of Specialization
Professor	KIYOKAWA Etsuko	Experimental Pathology, Fluorescent Imaging
Assistant Professor	YOSHIZAKI Hisayoshi	Molecular and Cellular Biology, Fluorescent Imaging
Assistant Professor	TAKEDA Haruna	Mouse model for carcinogenesis, Two-photon microscopy imaging

Keywords of Research

in vivo imaging, FRET, polarity, cancer, lens epithelial cell, sphingomyelin, epithelial regeneration

Outline of Research

We observed signal transduction pathways in mice and cells expressing FRET biosensors, to understand cancer development and invasion/metastasis, and epithelial regeneration.. We also develop the system to manipulate cell signaling to understand the molecular mechanisms for morphology Focusing on the lens epithelial cells, we are now investigating roles of DOCK5, an activator for Rac1, in the epithelial morphology and maintenance.

Publications

Originals

- 0170B001 (R.Mizuno), Y.Kamioka, K.Kabashima, M.Imajo, K.Sumiyama, E.Nakasho, T.Ito, Y.Hamazaki, Y.Okuchi, Y.Sakai, E.Kiyokawa, M.Matsuda: In vivo imaging reveals PKA regulation of ERK activity during neutrophil recruitment to inflamed intestines, *J. Exp. Med.*, 211:1123–1136, 2014.
- 0170B002 H.Yoshizaki, S.Okuda: Elucidation of the evolutionary expansion of phosphorylation signaling networks using comparative phosphomotif analysis., *BMC Genomics*, 15:546;1–17, 2014.

Reviews

- 0170C001 E.Kiyokawa, H.Minato: Activated K-RAS and its effect on morphological appearance., *J. Biochem.*, 156:137–145, 2014.

Presentations at Conference

International Conference (Presentations)

- 0170I001 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh: Tropomyosi: Its relationship to posterior capsule opacity, International Conference on the Lens, (Hawaii, '14.01).
- 0170I002 T.Shibata, S.Shibata, E.Kiyokawa, H.Sasaki, E.Kubo: Tropomyosi: Inhibition of progression of sugar cataract in galactose-fed rats and induction of anti-oxidant protein, Peroxiredoxin 6, International Conference on the Lens, (Hawaii, '14.01).
- 0170I003 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh: Tropomyosin regulation of stress fiber formation and EMT in lens epithelial cells, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 0170I004 H.Takeda, H.Yoshizaki, E.Kiyokawa: Live imaging of the mouse stomach with two-photon excitation microscopy, The 37th Naito Conference Bioimaging—a paradigm shift for the life sciences, (Niseco, '14.07).

0180 Department of Pathology II

Faculty

Title	Name	Field of Specialization
Professor	UEDA Yoshimichi	Bone and soft tissue tumor, Pulmonary pathology
Associate Professor	SATO Katsuaki	Neuropathology
Assistant Professor	SHIMASAKI Miyako	molecular pathology of the lung cancer

Keywords of Research

atherosclerosis, extracellular matrix, lung carcinoma, bone and soft tissue tumor, metastasis, invasion, apoptosis, diagnostic histopathology, cardiomyopathy, matrix metalloproteinase, bone tumor, molecular genetics, molecular pathology, neuronal death, nitric oxide synthase, angiogenesis, HMGI-C, Fas/Fas ligand, NF κ B

Outline of Research

1. Study on the pathogenesis of atherosclerosis, particularly from the aspect of extracellular matrix (ECM). The major subjects are: 1) collagens in human atherosclerosis, 2) cellular interactions and growth regulatory molecules, and 3) ECM degradation and matrix metalloproteinases.
2. Study on the functional gene networks involved in the progression of human lung cancer, especially regarding epithelial-mesenchymal transition of cancer cells, in order to establish novel molecular targets for the treatment. We are analyzing gene expression profiling data bioinformatically by means of ITP, one of the largest data-base for functional gene network/pathway analysis.
3. To elucidate mechanisms of neuronal injury by amyloid β protein, presumed to have essential role on Alzheimer's disease, we identify amyloid β protein-binding proteins in neuron by proteome analysis and explore functional disturbances of these proteins.

Publications

Originals

- 0180B001 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Relationships between EGFR mutation status of lung cancer and preoperative factors—are they predictive?, *Asian Pac. J. Cancer Prev.*, 15:657-662, 2014.
- 0180B002 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, Y.Kuginuki, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Diagnostic performance of diffusion weighted imaging of malignant and benign pulmonary nodules and masses: comparison with positron emission tomography, *Asian Pac. J. Cancer Prev.*, 15:4629-4635, 2014.
- 0180B003 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, H.Tonami, Y.Ueda, T.Sakuma: Recurrence and metastasis of lung cancer demonstrate decreased diffusion on diffusion-weighted magnetic resonance imaging, *Asian Pac. J. Cancer Prev.*, 15:6843-6848, 2014.

Case Reports

- 0180D001 (T.Yoneda), M.Uo, H.Koba, T.Sakai, Y.Ueda, K.Kasahara: Two cases of invasive thymoma with postoperative recurrence and expansion into the bronchial lumen, *Proceedings of the Japanese Lung Cancer Society Lung cancer.*, 54:191-198, 2014 (in Japanese) .

0180D002 (T.Yoneda), H/Koba, T.Saka, MYamazakii, Y.Ueda, K.Kasahara: A case of malignant pleural mesothelioma that was difficult to differentiate from other posterior mediastinal tumors, Proceedings of the Japanese Lung Cancer Society Lung cancer., 54:218-225, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0180I001 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, Y.Ueda, T.Sakuma: Diffusion-Weighted magnetic resonance imaging(DWI)signal intensity and distribution represents the amount of cancer, American Thoracic Society International Conference 2014, (SanDiego, '14.05).
- 0180I002 M.Wakasa, K.Takeda, A.Motoyama, R.Ishida, H.Akao, Y.Kawai, M.Kitayama, Y.Ueda, K.Kajinami: The longest-lived homozygous familial hypercholesterolemia as genetically-determined mild phenotype:an autopsy case of fh-tonami2, European Atherosclerosis Society 82nd EAS Congress, (Madrid, '14.05).
- 0180I003 M.Tanaka, Y.Ueda, M.Shimasaki, M.Ueno, Y.Machida, N.Motono, K.Usuda, M.Sagawa, T.Sakuma: Increased expression of receptor for advanced glycation end products in COPD, ERS Annual Congress 2014, (Munich, '14.09).

0190 Department of Microbiology

Faculty

Title	Name	Field of Specialization
Professor	OHARA Yoshiro	Neurovirology, Neuroimmunology
Professor	MURAKI Yasushi	Virology
Associate Professor	HIMEDA Toshiki	Neurovirology
Assistant Professor	OKUWA Takako	Virology

Keywords of Research

Theiler's murine encephalomyelitis virus, central nervous system, demyelination, persistent infection, multiple sclerosis

Outline of Research

Studies on pathomechanism of virus induced demyelination

Publications

Originals

- 0190B001 M.Zhou, K.Osanai, M.Kobayashi, T.Oikawa, K.Nakagawa, S.Mizuno, Y.Muraki, H.Toga: Adenovector-mediated gene transfer of lysophosphatidylcholine acyltransferase 1 attenuates oleic acid-induced acute lung injury in rats, *Crit. Care Med.*, 42:e716-e724, 2014.
- 0190B002 (A.Shimizu), T.Himeda, T.Okuwa, Y.Muraki, Y.Ohara: Role(s) of leader protein of scaffold virus., *Clin. Exp. Neuroimmunol.*, 5:362-366, 2014.

Others

- 0190F001 Y.Ohara: Cell-to-cell- transmission in the pathogenesis of human T-lymphotropic virus type 1-associated myelopathy/tropical spastic paraparesis, *Clin. Exp. Neuroimmunol.*, 5:117-119, 2014.
- 0190F002 Y.Ohara: Fingolimod effects as a neuroprotectant as well as an immunosuppressant., *Clin. Exp. Neuroimmunol.*, 5:281-282, 2014.

0200 Department of Immunology

Faculty

Title	Name	Field of Specialization
Professor	NAKAMURA Akira	Immunology
Professor(Additional Post)	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Assistant Professor	TAKEDA Kazuya	Immunology, Neuropathology
Assistant Professor	MATSUBA Shintaro	Immunological pharmacology
Assistant Professor	WADA Toshiki	Immunology, Functional biochemistry, Structural biochemistry

Keywords of Research

allergy, autoimmune disease, immunoglobulin-like receptor

Outline of Research

The focus of our work is to investigate the regulatory functions of immunoglobulin-like receptors, including Fc receptors (FcRs), paired immunoglobulin-like receptors (PIRs), and other immunoreceptors. In particular, we research the relationship between immunoreceptors and diseases by using animal models for human diseases.

Publications

Originals

- 0200B001 (C.J.Treda), T.Fukuhara, T.Suzuki, A.Nakamura, J.Zaini, T.Kikuchi, M.Ebina, T.Nukiwa: Secretory leukocyte protease inhibitor modulates urethane-induced lung carcinogenesis, *Carcinogenesis.*, 35: 896-904, 2014.
- 0200B002 (Y.Kanari), A.Sugahara-Tobinai, H.Takahashi, M.Inui, A.Nakamura, S.Hirose, T.Takai: Dichotomy in Fc γ RIIB deficiency and autoimmune-prone SLAM haplotype clarifies the roles of the Fc receptor in development of autoantibodies and glomerulonephritis, *BMC Immunol.*, 15:47;1-13, 2014.

0210 Department of Medical Zoology

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	OIKAWA Yosaburo	diagnosis of parasitic disease, tick-borne disease

Keywords of Research

parasite, cysticercosis, tick born disease, immunodiagnosis, antigen purification, circulating antigen, excretory/secretory products, IgE antibody, molecular biological diagnosis, cysteine proteinase, Acanthamoeba, atopic dermatitis, mite, Myobia musculi, Leptotrombidium

Outline of Research

The main subjects of our department are as follows:

1.Development of immunological and molecular biological diagnosis of parasitic diseases.2.Epidemiological research of tick-born diseases in the Noto Peninsula,Ishikawa Prefect.

Publications

Originals

- 0210B001 (A.Takano), H.Fujita, T.Kadosaka, M.Takahashi, T.Yamauchi, F.Ishiguro, N.Takada, Y.Yano, Y.Oikawa, T.Honda, M.Gokuden, T.Tsunoda, M.Tsurumi, S.Ando, M.Andoh, K.Sato, H.Kawabata: Construction of a DNA database for ticks collected in Japan: application of molecular identification based on the mitochondrial 16S rDNA gene., Med. Entomol. Zool., 65:13-21, 2014.
- 0210B002 (K.Nakamoto), M.Tokoro, T.Nakamoto, A.Saito-Ito, Y.Oikawa, N.Takada, T.Mastumura, S.Arayama, M.Kamaruddin: Widespread distribution of trypanosoma (herpetosoma) grosi in Japanese field mice(apodemus speciosus), Jpn. J. Vet. Parasitol., 13:67-73, 2014.
- 0210B003 (N.Yamazaki), A.Kobayashi, H.Yokogawa, Y.Ishibashi, Y.Oikawa, M.Tokoro, K.Sugiyama: In vivo imaging of radial keratoneuritis in patients with acanthamoeba keratitis by anterior-segment optical coherence tomography., Ophthalmology, 121:2153-2158, 2014.

Case Reports

- 0210D001 K.Ikemura, T.Fujii, S.Abe, T.Mochizuki, Y.Oikawa: The first case of *Amblyomma testudinarium* tick bite in Ishikawa prefecture, Japan, J. Kanazawa. Med. Univ., 39:42-44, 2014 (in Japanese) .

Short Communications

- 0210E001 (T.Masuzawa), S.Masuda, T.Fukui, Y.Okamoto, J.Bataa, Y.Oikawa, F.Ishiguro, N.Takada: PCR detection of Anaplasma phagocytophilum and Borrelia burgdorferi in Ixodes persulcatus ticks in Mogolia., Jpn. J. Infect. Dis., 67:47-49, 2014.

Presentations at Conference

International Conference (Symposium)

- 0210H001 Y.Oikawa: Mites inducing an atopic dermatitis-like skin lesion in NC mice, XIV International Congress of Acarology, (Kyoto, '14.07), XIV International Congress of Acarology Abstract Book, 34, 2014.

0220 Department of Pathology and Laboratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	NOJIMA Takayuki	surgical pathology, molecular pathology, basic science on bone and soft tissue tumors
Professor	MINATO Hiroshi	Surgical pathology, Pathological study of head and neck, lung, mediastinum, and pleura
Senior Assistant Professor	KUROSE Nozomu	surgical pathology, molecular pathology
Assistant Professor	FUKUSHIMA Mana	surgical pathology
Assistant Professor	KOBAYASHI Eriko	surgical pathology, molecular pathology
Assistant Professor	NAKADA Satoko	surgical pathology

Keywords of Research

pathology, surgical pathology, molecular pathology, ultrastructure, cytology, laboratory medicine, standardization of blood gas analysis, pulmonary function test, pulmonary pathology, "lung, mediastinum, and pleura", head and neck, salivary gland

Outline of Research

1. Severe patients with chronic obstructive pulmonary diseases (COPD) frequently show expiratory flow limitation (FL) during spontaneous breathing, which is a marker of severely deteriorated pulmonary function and determines the prognosis of this disease. I have developed a new technique to detect FL with a brief interruption of airflow during spontaneous breathing and have been studying for increasing the accuracy of this method.
2. Accuracy assurance of blood gas analysis: The recent blood gas analyzers are small, portable, and do measurements on bedside (POCY: Point of Care Testing). However, it is difficult to maintain the accuracy of blood gas analysis because of the disposable electrodes in this type of equipments. I have been developing a method of accuracy assurance for these equipments with newly developed standard materials for blood gas analysis.

Books

- 0220A003 Y.Masaki, N.Kurose, H.Tonami, H.Umehara: Other organs(central nervous system,prostate), IgG4-Related Disease(H.Umehara, K.Okazaki, JH.Stone, S.Kawa, M.Kawano), 113-117, Springer Japan, Tokyo, 2014.

Publications

Originals

- 0220B001 H.Minato, N.Kurose, M.Fukushima, T.Nojima, K.Usuda, M.Sagawa, T.Sakuma, A.Ooi, I.Matsumoto, M.Oda, Y.Arano, J.Shimizu: Comparative immunohistochemical analysis of IMP3, GLUT1, EMA, CD146, and desmin for distinguishing malignant mesothelioma from reactive mesothelial cells, *Am. J. Clin. Pathol.*, 141:85-93, 2014.
- 0220B002 (K.Hayashi), H.Tsuchiya, N.Yamamoto, T.Shirai, H.Nishida, A.Takeuchi, H.Kimura, S.Miwa, H.Inatani, H.Okamoto, S.Yamada, H.Ikeda, S.Sawada-Kitamura, T.Nojima, A.Ooi, T.Otsuka: Diagnosis and treatment of low-grade osteosarcoma: experience with nine cases, *Int. J. Clin. Oncol.*, 19:731-738, 2014.
- 0220B003 K.Fukui, A.Kaneuji, M.Fukushima, T.Matsumoto: Inversion of the acetabular labrum triggers rapidly destructive osteoarthritis of the hip: Representative case report and proposed etiology, *J. Arthroplasty.*, 29:2468-2472, 2014.

0220B004 Y.Sasagawa, T.Akai, S.Nakada, H.Minato, O.Tachibana, T.Noijima, H.Iizuka: Narrow band imaging-guided endoscopic biopsy for intraventricular and paraventricular brain tumors:clinical experience with 14 cases, *Acta Neurochir (Wien)*, 156:681-687, 2014.

Reviews

0220C001 E.Kiyokawa, H.Minato: Activated K-RAS and its effect on morphological appearance., *J. Biochem.*, 156:137-145, 2014.

0220C003 T.Noijima: The pathologic diagnosis of bone and soft tissue tumors:update, *Rinsho Byori*, 62:578-585, 2014 (in Japanese) .

Case Reports

0220D001 (S.Suzuki), F.Tanioka, H.Minato, A.Ayhan, M.Kasami, H. Sugimura: Breakages at YWHAE, FAM22A, and FAM22B loci in uterine angiosarcoma: A case report with immunohistochemical and genetic analysis., *Pathol. Res. Pract.*, 210:130-134, 2014.

0220D002 T.Mizuno, K.Ishigami, S.Yamada, H.Tsuchiya, C.Nakajima, R.Sangen, M.Fukushima, H.Minato, T.Noijima, A.Saito, N.Hayashi, H.Atsumi, T.Ito, M.Iguchi, D.Usuda, H.Okamura, S.Urashima, M.Asano, J.Kiyosawa, A.Fukuda, N.Takekoshi, T.Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, *Case Rep Oncol.*, 7:144-148, 2014.

0220D003 K.Fukui, A.Kaneuji, M.Fukushima, T.Matsumoto: Imaging and histopathological evaluation of a cystlike formation in subchondral insufficiency fracture of the femoral head: a case report and literature review., *Int J Surg Case Rep.*, 5:324-329, 2014.

0220D004 (S.Suzuki), N.Kurabe, H.Minato, A.Ohkubo, I.Ohnishi, F.Tanioka, H.Sugimura: A rare Japanese case with a NUT midline carcinoma in the nasal cavity: A case report with immunohistochemical and genetic analyses, *Pathol. Res. Pract.*, 210:383-388, 2014.

0220D005 (H.Kimura), N.Yamamoto, H.Nishida, K.Hayashi, A.Takeuchi, T.Noijima, H.Ikeda, S.Sawada-Kitamura, H.Tsuchiya: Synovial sarcoma in knee joint, mimicking low-grade sarcoma confirmed by molecular detection of SYT gene split., *Anticancer Res.*, 34:3105-3112, 2014.

0220D007 K.Kato, N.Segami, H.Fukuda, H.Minato: Rheumatoid nodule in the lower lip of a patient with rheumatoid arthritis: a novel case report and review of literature., *J. Oral Maxillofac. Surg.*, 72:1532.e1-1352.e5, 2014.

0220D008 (H.Suzuki), K.Yamashiro, H. Takeda, H.Hiraga, T.Soma., T.Osanai, K.Isu K, T.Noijima: Adult rhabdomyoma of the extremity, *Int. J. Surg. Pathol.*, 22:634-639, 2014.

0220D009 (J.Shimizu), T.Kamesui, M.Moriya, S.Murata, I.Nakanishi, M.Sasaki, H.Minato: Four cases of invasive anterior mediastinal tumors definitively diagnosed by the chamberlain procedure., *Ann. Thorac. Cardiovasc. Surg.*, 20:434-440, 2014.

0220D010 (H.Yamamoto), J.Soh, K.Ichimura, Y.Konishi, S.Toyooka, T.Noijima, S.Miyoshi: Adult mesenchymal hamartoma of the chest wall: Report of a case, *Ann. Thorac. Cardiovasc. Surg.*, 20:663-665, 2014.

0220D011 M.Doai, H.Tonami, N.Tsuchiya, T.Akai, N.Kurose, K.Hirata: 1H-MR spectroscopy in a case of isolated intracranial rosai-dorfman disease, *J Neurol Sci Turk*, 31:790-795, 2014.

0220D012 T.Onishi, N.Ueda, T.Kosaka, S.Nakata, H.Minato: A case of intraductal papillary neoplasm of the bile duct (IPNB) that underwent curative resection after follow-up of 1 year 4 months without treatment, *Tondo*, 28:81-88, 2014 (in Japanese) .

0220D013 I.Chikazawa, D.Nakai, M.Morita, H.Tachibana, T.Tanaka, K.Miyazawa, M.Kishibe, Y.Kamimura, E.Kinoshita, N.Kurose: Skin and lung metastasis from renal cell carcinoma 23 years after radical nephrectomy—a case report-, *Jpn. J. Cancer Clin.*, 60:537-542, 2014 (in Japanese) .

Others

- 0220F001 (M. Mizawa), T.Makino, O.Norisugi, H.Hara, K.Shimizu, K.Nomura, H.Kanegane, T.Nojima, T.Shimizu: Primary cutaneous Ewing sarcoma following metastasis to the bone and lymph nodes, Br. J. Dermatol., 171:660-662, 2014.

Presentations at Conference

International Conference (Presentations)

- 0220I001 M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, S.Miura, Y.Nakano, T.Kosaka, N.Kurose, H.Minato: Feasibility study of axillary reverse mapping for patients with clinically node-negative breast cancer, 18th SIS World Congress on Breast Healthcare, (Orlando, '14.10).

0230 Department of Social and Environmental Medicine

Faculty

Title	Name	Field of Specialization
Professor	YAMADA Yuichi	Occupational Health, Epidemiology of circulatory and respiratory diseases
Professor(Additional Post)	HONDA Ryumon	Environmental health, Statistical analysis, Analytical chemistry
Associate Professor	ISHIZAKI Masao	Occupational Health, Job stress
Senior Assistant Professor	NOBORISAKA Yuka	Occupational Health, Job stress
Senior Assistant Professor	NAKATA Minori	Industrial hygiene, Occupational medicine, Musculoskeletal disorders

Keywords of Research

occupation, work-related disease, mental health, cardiovascular disease, non-specific pulmonary disease, musculoskeletal disease, metabolic syndrome, hypertension, job stress, absenteeism, alcohol consumption, cigarette consumption, shift work, work time

Outline of Research

To clarify the health effects of social environmental factors—mainly occupational factors, and establish appropriate, policies for health promotion

Publications

Originals

- 0230B001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, T.Kido, T.Kido, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men, *Eur. J. Nutr.*, 53:251-258, 2014.
- 0230B002 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141-149, 2014.
- 0230B003 (E.A.Kim), M.Nakata: Work-related musculoskeletal disorders in Korea and Japan: a comparative description, *Ann Occup Environ Med.*, 26:17;1-7, 2014.
- 0230B004 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661-3677, 2014.
- 0230B005 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1-11, 2014.
- 0230B006 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: HOMA-IR and the risk of hyperuricemia: a prospective study in non-diabetic Japanese men, *Diabetes Res. Clin. Pract.*, 106:154-160, 2014.
- 0230B007 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C-reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717-727, 2014.

0230B008 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid-stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669-674, 2014.

0230B009 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. Med. Univ., 39:67-74, 2014 (in Japanese) .

Reviews

0230C001 Y.Noborisaka, M.Yamazaki, Y.Yamada: Life, work and chronic kidney disease (CKD), *社医研*, 31:1-11, 2014 (in Japanese) .

Others

0230F001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido,, Y. Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men., *Eur. J. Nutr.*, 53:1137-1138, 2014.

0240 Department of Epidemiology and Public Health

Faculty

Title	Name	Field of Specialization
Professor	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor(Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Associate Professor	SAKURAI Masaru	Cardiovascular epidemiology, preventive cardiology
Associate Professor	NAKAMURA Koshi	Epidemiology of Cardiovascular disease and Lifestyle-related disease Lifestyle/Disease and Medical expenditure
Associate Professor	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Associate Professor(Additional Post)	NAKANISHI Yumiko	Preventive medicine
Assistant Professor(Additional Post)	NAGASAWA Shinya	Cardiovascular epidemiology, preventive cardiology

Keywords of Research

epidemiology, public health, hypertension, diabetes mellitus, shift work, nutrition, calcium, stress, smoking, insulin resistance, work-related disease, environmental pollution, cadmium, renal tubular dysfunction, intractable disease, cardiovascular disease, stroke, hyperlipidemia, dietary habits, salt, magnesium, health promotion, alcohol, lipid peroxide, community registry, silicosis, Itai-itai disease, congenital anomaly, medical decision making, dioxin

Outline of Research

Epidemiology and Prevention of Lifestyle-related Diseases(mainly of Cardiovascular Diseases)
Environmental Epidemiology
Epidemiology of Occupation-related Diseases
Epidemiology of Congenital Anomalies
Epidemiology of Interactable Diseases
Clinical Epidemiology

Publications

Originals

- 0240B001 X.Zhao, A.Nogawa, T.Matsunaga, T.Takegami, H.Nakagawa, Y.Ishigaki: Proteasome inhibitors and knockdown of SMG1 cause accumulation of Upf1 and Upf2 in human cells., *Int. J. Oncol.*, 44:222-228, 2014.
- 0240B002 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, T.Kido, T.Kido, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men, *Eur. J. Nutr.*, 53:251-258, 2014.
- 0240B003 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141-149, 2014.
- 0240B004 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661-3677, 2014.

- 0240B005 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1–11, 2014.
- 0240B006 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: HOMA-IR and the risk of hyperuricemia: a prospective study in non-diabetic Japanese men, *Diabetes Res. Clin. Pract.*, 106:154–160, 2014.
- 0240B007 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C-reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717–727, 2014.
- 0240B008 M.Nishijo, Y.Suwazono, W.Ruangyuttikarn, K.Nambunmee, W.Swaddiwudhipong, K.Nogawa, H.Nakagawa: Risk assessment for Thai population: benchmark dose of urinary and blood cadmium levels for renal effects by hybrid approach of inhabitants living in polluted and non-polluted areas in Thailand, *BMC Public Health*, 14:702;1–9, 2014.
- 0240B009 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid-stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669–674, 2014.
- 0240B010 S.Maruzeni, M.Nishijo, K.Nakamura, Y.Morikawa, M.Sakurai, M.Nakashima, T.Kido, R.Okamoto, K.Nogawa, Y.Suwazono, H.Nakagawa: Mortality and causes of deaths of inhabitants with renal dysfunction induced by cadmium exposure of the polluted Jinzu River basin, Toyama, Japan; a 26-year follow-up., *Environ Health.*, 13:18;1–12, 2014.
- 0240B011 (Emerging Risk Factors Collaboration), H.Nakagawa, M.Sakurai, K.Nakamura, Y.Morikawa, et al.: Glycated hemoglobin measurement and prediction of cardiovascular disease., *JAMA*, 311:1225–1233, 2014.
- 0240B012 (K.Asayama), M.Satoh, Y.Murakami, T.Ohkubo, SY.Nagasawa, I.Tsuji, T.Nakayama, A.Okayama, K.Miura, Y.Imai, H.Ueshima, T.Okamura, Evidence for Cardiovascular Prevention From Observational Cohorts in Japan (EPOCH-JAPAN) Research Group, H.Nakagawa, et al.: Cardiovascular risk with and without antihypertensive drug treatment in the Japanese general population: participant-level meta-analysis., *Hypertension*, 63:1189–1197, 2014.
- 0240B013 H.Shiga, J.Yamamoto, M.Kitamura, H.Nakagawa, T.Matsubasa, A.Seo, T.Miwa: Combinations of two odorants of smell identification test for screening of olfactory impairment., *Auris Nasus Larynx*, 41:523–527, 2014.
- 0240B014 (T.Hisamatsu), K.Miura, T.Ohkubo, T.Yamamoto, A.Fujiyoshi, N.Miyagawa, A.Kadota, N. Takashima, N.Okuda, K. Yoshita, Y.Kita, Y.Murakami, Y.Nakamura, T.Okamura, M.Horie, A.Okayama, H.Ueshima, NIPPON DATA80 Research Group, H.Nakagawa, et al.: High long-chain n-3 fatty acid intake attenuates the effect of high resting heart rate on cardiovascular mortality risk: a 24-year follow-up of Japanese general population., *J. Cardiol.*, 64:218–224, 2014.
- 0240B015 (N.Okuda), J.Stamler, IJ. Brown, H.Ueshima, K.Miura, A.Okayama, S.Saitoh, H.Nakagawa, K.Sakata, K.Yoshita, L.Zhao, P.Elliott, the INTERMAP Research Group: Individual efforts to reduce salt intake in China, Japan, UK, USA: what did people achieve? The INTERMAP population study., *J. Hypertens.*, 32:2385–2392, 2014.
- 0240B016 (TV.Pereira), L.Kimura, Y.Suwazono, H.Nakagawa, M.Daimon, T.Oizumi, T.Kayama, T.Kato, L.Li, S.Chen, D.Gu, W.Renner, W.März, Y.Yamada, PG.Bagos, RC.Mingroni-Netto: Multivariate meta-analysis of the association of G-protein beta 3 gene (GNB3) haplotypes with cardiovascular phenotypes., *Mol. Biol. Rep.*, 41:3113–3125, 2014.
- 0240B017 M.Nishijo, PT.Tai, TNA.Nguyen, TN.Nghi, H.Nakagawa, HV,Luong, AH.Tran, Y.Morikawa, HD.Manh, T.Kido, MN.Nui, NM.Hai, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., *Mol. Psychiatry.*, 19:1220–1226, 2014.
- 0240B018 (T.Kido), TV.Dao, MD.Ho, ND.Dang, NT.Pharm, R.Okamoto, TT.Pharm, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, SK.Le, HN.Nguyen: High cortisol and cortisone levels are associated with breast milk dioxin concentrations in Vietnamese women., *Eur. J. Endocrinol.*, 170:131–139, 2014.
- 0240B019 (HD.Manh), T.Kido, R.Okamoto, S.Xianliang, Le T.Anh, S.Supratman, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, T.Nakano, T.Takasuga, DD.Nhu, NN. Hung, LK.Son: Serum dioxin levels in vietnamese men more than 40 years after herbicide spraying., *Environ. Sci. Technol.*, 48:3496–3503, 2014.

- 0240B020 (H.Suzuki), T.Kido, R.Okamoto, DD.Nhu, M.Nishijo, H.Nakagawa, K.Tawara, H.Horikawa, Y.Sato, PT.Dung, LH.Thom, NN.Hung: The relationship between dioxin congeners in the breast milk of Vietnamese women and sister chromatid exchange., *Int. J. Mol. Sci.*, 15:7485–7499, 2014.
- 0240B021 (XL.Sun), T.Kido, R.Okamoto, HD.Manh, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, T.Nakano, T.Takasuga, DD.Nhu, NN.Hung, LK.Son: Relationship between dioxin and steroid hormones in sera of Vietnamese men., *Biomarkers.*, 19:236–240, 2014.
- 0240B022 (Y.Suwazono), K.Nogawa, Y.Morikawa, M.Nishijo, E.Kobayashi, T.Kido, H.Nakagawa, K.Nogawa: Impact of urinary cadmium on mortality in the Japanese general population in cadmium non-polluted areas., *Int. J. Hyg. Environ. Health.*, 217:807–812, 2014.
- 0240B023 (K.Ishikura), H.Misu, M.Kumazaki, H.Takayama, N.Matsuzawa–Nagata, N.Tajima, K.Chikamoto, F.Lan, H.Ando, T.Ota, M.Sakurai, Y.Takeshita, K. Kato, A. Fujimura, KI.Miyamoto, Y.Saito, S.Kameo, Y.Okamoto, Y.Takuwa, K.Takahashi, H.Kidoya, N.Takakura, S.Kaneko, T.Takamura: Selenoprotein P as a diabetes-associated hepatokine that impairs angiogenesis by inducing VEGF resistance in vascular endothelial cells., *Diabetologia*, 57:1968–1976, 2014.
- 0240B024 (T.Inohara), S.Kohsaka, T.Okamura, M.Watanabe, Y.Nakamura, A.Higashiyama, A.Kadota, N.Okuda, Y.Murakami, T.Ohkubo, K.Miura, A.Okayama, H.Ueshima, the NIPPON DATA 80/90 Research Group, H.Nakagawa, et al.: Cumulative impact of axial, structural, and repolarization ECG findings on long-term cardiovascular mortality among healthy individuals in Japan: National Integrated Project for prospective observation of Non-Communicable disease and its trends in the aged, 1980 and 1990., *Eur J Prev Cardiol.*, 21:1501–1508, 2014.
- 0240B025 (N.Miyagawa), K.Miura, N.Okuda, T.Kadowaki, N.Takashima, SY.Nagasawa, Y.Nakamura, Y.Matsumura, A.Hozawa, A.Fujiyoshi, T.Hisamatsu, K.Yoshita, A.Sekikawa, T.Ohkubo, RD.Abbott, T.Okamura, A.Okayama, H.Ueshima, the NIPPON DATA80 Research Group, H.Nakagawa, et al.: Long-chain n-3 polyunsaturated fatty acids intake and cardiovascular disease mortality risk in Japanese: A 24-year follow-up of NIPPON DATA80, *Atherosclerosis*, 232:384–389, 2014.
- 0240B026 (A.Okayama), N.Okuda, K.Nakamura, K.Miura, S.Yasumura, K.Sakata, H.Hidaka, T.Okamura, K.Nishimura: Method for evaluating health promotion programs using propensity score, *Health Evaluation and Promotion*, 41:418–427, 2014 (in Japanese) .
- 0240B027 (T.Koyama), K.Yoshita, Y.Arai, K.Nakamura, M.Sakurai, M.Nishijo, SY.Nagasawa, Y.Morikawa, M.Tabata, H.Nakagawa: Relationship between daily intake frequency of meals including a staple food, a main dish and a side dish and nutrient intake in independent elderly individuals, *Journal of Japanese Society of Nutrition and Food Science.*, 67:299–305, 2014 (in Japanese) .

Reviews

- 0240C001 K.Nakamura: Impact of cardiovascular risk factors on medical expenditure: evidence from epidemiological studies analysing data on health checkups and medical insurance, *J. Epidemiol.*, 24:437–443, 2014.
- 0240C002 K.Nakamura, T.Okamura, K.Miura, A.Okayama: Hypertension and medical expenditure in the Japanese population: Review of prospective studies., *World J Cardiol.*, 6:531–538, 2014.
- 0240C004 Y.Morikawa: The issue of sleep as a risk for occupational safety, *Hokuriku Japanese Journal of Public Health.*, 40:17–23, 2014 (in Japanese) .

Others

- 0240F001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido., Y. Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men., *Eur. J. Nutr.*, 53:1137–1138, 2014.

Presentations at Conference

International Conference (Presentations)

- 0240I001 M.Sakurai, J.Kobayashi, Y.Takeda, S-Y.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi: Abdominal obesity, metabolic syndrome, and the risk of chronic kidney disease in Japanese males and females., 74th Scientific Sessions, American Diabetes Association., (San Francisco, '14.06).
- 0240I002 M.Nishijo, PT.Tai, TN.Nghi, NTN.Anh, H.Nakagawa, S.Maruzeni, HV.Luong, TH.Anh, NV.Trung, PT.Phuong, LK.Son, T.Kido, Y.Morikawa, H.Nishijo: Effects of dioxin exposure on neurodevelopment and urinary amino acid excretion of children in exposed areas of Vietnam., The 34th international Symposium on Halogenated Persistent Organic pollutants-Dioxin 2014, (Madrid, '14.08).
- 0240I003 M.Nishijo, PT.Tai, NTN.Anh, TN.Nghi, H.Nakagawa, T.Kido, T.Waseda, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., The 3rd International Conference of Asian Environmental Chemistry,ICAEC 2014, (Bangkok, '14.11).
- 0240I004 TN.Nghi, HD.Manh, PT.Tai, M.Nishijo, H.Nakagawa, T.Kido, H.Nishijo: Dioxins and nonortho polychlorinated biphenyl concentrations in breast milk of Vietnamese nursing mothers living in the largest hot spot of dioxin contamination., The 3rd International Conference of Asian Environmental Chemistry,ICAEC 2014, (Bangkok, '14.11).
- 0240I005 (PT.Tai), M.Nishijo, H.Nakagawa, S.Maruzeni, NTN.Anh, HV.Luong, TH.Anh, TN.Nghi, Y.Morikawa, T.Kido, H.Nishijo: Dioxin effects on infant development from newborn until 3 years of age., The 3rd International Conference of Asian Environmental Chemistry,ICAEC 2014, (Bangkok, '14.11).
- 0240I006 S-Y.Nagasawa, K.Miura, T.Kadowaki, A.Fujiyoshi, T.Ohkubo, S.Kadowaki, A.Kadota, A.Sekikawa, H.Ueshima: Relationship of plasma asymmetrical dimethylarginine to carotid intima-media thickness in general population in Japanese: the ERA-JUMP Study and SESSA Study., Nutrition,Physical Activity and Metabolism /Cardiovascular Disease Epidemiology and Prevention 2014 Scientific Sessions, American Heart Association, (San Francisco, '14).

0250 Department of Legal Medicine

Faculty

Title	Name	Field of Specialization
Professor	KITAMURA Osamu	Forensic Pathology, Drug Dependence
Associate Professor	WANG Lu elaine	Tumor pathology, Endocrine pathology, Forensic pathology
Assistant Professor	TAKEICHI Toshiaki	ER-stress, Drug Dependence

Keywords of Research

drug abuse, methamphetamine, brain damage, forensic autopsy, drowning, immunohistochemistry, proteinase K

Outline of Research

Mechanism of methamphetamine abuse
Immunohistochemical analysis of brain damage in forensic autopsy cases
Application of proteinase K for diatome detection in the diagnosis of drowning

Publications

Originals

- 0250B001 (M.Takarada-Iemata), D.Kezuka, T.Takeichi, M.Ikawa, T.Hattori, Y.Kitao, O.Hori: Deletion of N-myc downstream-regulated gene 2 attenuates reactive astrogliosis and inflammatory response in a mouse model of cortical stab injury, *J. Neurochem.*, 130:374-387, 2014.
- 0250B002 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, *J. Kanazawa. Med. Univ.*, 39:67-74, 2014 (in Japanese) .

0260 Department of Medical Education

Faculty

Title	Name	Field of Specialization
Professor	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
Professor	YASUDA Yukio	undergraduate clinical teaching, graduate education of physicians, medical education
Senior Assistant Professor	KURODA Naohiro	medical informatics, electronic medical record system, medical education

Keywords of Research

medical informatics, electronic recording, evidence-based medicine, information technology, computer-aided PBL

Outline of Research

Improving medical education including a new course of integrated problem-based learning, a medical interview training course before medical practice, management of medical informatics, practical training course using simulators, developing new assessment for students' practice, and providing new educational environment using e-syllabi.

Presentations at Conference

International Conference (Presentations)

0260I001 A.Takamura: The second evaluation for a pilot study of Community Participatory Medical Education, The Muster 2014 Global Community Engaged Medical Education, (Uluru, '14.10).

Clinical Medicine

0300 Department of Cardiology

Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Koji	Atherosclerosis, lipid metabolism
Professor	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
Professor(Additional Post)	ASAJI Takayoshi	Heart failure
Associate Professor	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
Associate Professor	TSUCHIYA Taketsugu	Ischemic heart disease, Coronary intervention
Associate Professor	AKAO Hironobu	Ischemic heart disease, Coronary intervention
Associate Professor	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
Assistant Professor	AOKI Hirofumi	Heart failure
Assistant Professor	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor	IWADARE Mizuho	Atherosclerosis, hypertension
Assistant Professor	SAITO Ryuhei	Ischemic heart disease, Coronary intervention
Assistant Professor	TAKEDA Kenji	Molecular Biology
Assistant Professor	TANABE Kan	Heart failure
Assistant Professor	FUJIBAYASHI Kousuke	Arrhythmia, Catheter ablation
Assistant Professor	MOTOYAMA Atsushi	Ischemic heart disease, Coronary intervention
Assistant Professor	WAKASA Minoru	Heart failure
Assistant Professor	WATANABE Makoto	Ischemic heart disease, Coronary intervention

Keywords of Research

heart failure, hypertension, myocardial infarction, myocarditis, autonomic nervous function, atherosclerosis, metabolic syndrome, brain natriuretic peptide, angina pectoris, apoptosis, homocysteine, coronary calcification, valvular disease, autoantibody, myocardial biopsy, cardiac PET, coronary intervention, dilated cardiomyopathy, gene therapy, long QT, myocardial viability, pacemaker, aortitis syndrome, arrhythmia, catheter ablation, renin-angiotensin system, IABP, microvascular angina, gene polymorphism, circadian variation

Outline of Research

- 1 Exploring risk factors and determinants of responsiveness to treatment or prognosis in cardiovascular diseases
- 2 Development of new therapeutics using the gene expression modification or the stem cell research technique
- 3 Visualization and quantification of the biological signal in cardiovascular system

Publications

Originals

- 0300B001 K.Tanabe, Y.Kawai, M.Kitayama, H.Akao, R.Ishida, A.Motoyama, M.Wakasa, R.Saito, H.Aoki, K.Fujibayashi, M.Watanabe, T.Tsuchiya, H.Kimura, K.Yoshida, K.Kajinami: Increased levels of the oxidative stress marker, nitrotyrosine in patients with provocation test-induced coronary vasospasm, *J. Cardiol.*, 64:86-90, 2014.
- 0300B002 H.Akao, E.Polisecki, E.J.Schaefer, S.Trompet, M.Robertson, I.Ford, J.W.Jukema, A.J.de Craen, C.Packard, B.M.Buckley, K.Kajinami: ABCA1 gene variation and heart disease risk reduction in the elderly during pravastatin treatment, *Atherosclerosis*, 235:176-181, 2014.
- 0300B003 R.Saito, K.Takeda, K.Yamamoto, A.Nakagawa, H.Aoki, K.Fujibayashi, M.Wakasa, A.Motoyama, M.Iwadore, R.Ishida, N.Fujioka, T.Tsuchiya, H.Akao, Y.Kawai, M.Kitayama, K.Kajinami: Nutri-pharmacogenomics of warfarin anticoagulation therapy : VKORC1 genotype-dependent influence of dietary vitamin K intake, *J. Thromb. Thrombolysis.*, 38:105-114, 2014.

Presentations at Conference

International Conference (Presentations)

- 0300I001 K.Fujibayashi: Clinical evidence for interrelationship between Tau, Glu, and oxidative stress in atrial fibrillation, 19th International Taurine Meeting, (Krakow, '14.05).
- 0300I002 M.Wakasa, K.Takeda, A.Motoyama, R.Ishida, H.Akao, Y.Kawai, M.Kitayama, Y.Ueda, K.Kajinami: The longest-lived homozygous familial hypercholesterolemia as genetically-determined mild phenotype:an autopsy case of fh-tonami2, European Atherosclerosis Society 82nd EAS Congress, (Madrid, '14.05).
- 0300I003 W.Fujita, I. Matsunari, H.Aoki, K.Kajinami: Prediction of all-cause death using C-11 hydroxyephedrine PET in patients with left ventricular dysfunction, SNMMI2014, (St.Louis, '14.06).
- 0300I004 H.Akao, M.Kitayama, Y.Kawai, T.Tsuchiya, R.Ishida, A.Motoyama, M.Wakasa, R.Saito, M.Watanabe, K.Kajinami: Differential Role of Osteopontin and Tenascin in Atherosclerosis Coronary Rotational Atherectomy Study, 19th World Congress on Heart Disease, (Boston, '14.07).
- 0300I005 T.Tsuchiya: Patients with rutherford classification IV have different characteristics and outcome, compared with V and VI, ESC Congress 2014, (Barcelona, '14.08).
- 0300I006 H.Akao: In vivo evidence for local interaction between osteopontin(OPN) and pentraxin3(PX3) in advanced coronary atherosclerosis : coronary rotational atherectomy study, ESC Congress 2014, (Barcelona, '14.08).

0310 Department of Respiratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	TOGA Hirohisa	clinical respiratory medicine, sleep disordered breathing
Professor	OSANAI Kazuhiro	lung cell and molecular biology, COPD
Associate Professor	MIZUNO Shiro	lung cell and molecular biology, COPD
Associate Professor(Additional Post)	IGUCHI Masaharu	Respiratory Medicine
Senior Assistant Professor	TAKAHASHI Masakatsu	clinical respiratory medicine, pulmonary tuberculosis
Senior Assistant Professor	OIKAWA Taku	clinical respiratory medicine, lung cancer
Senior Assistant Professor	NAKAGAWA Ken	clinical respiratory medicine, lung cancer
Assistant Professor	KOJIMA Koji	clinical respiratory medicine
Assistant Professor	KOBAYASHI Makoto	lung cell and molecular biology
Assistant Professor	SAITO Masatoshi	clinical respiratory medicine, sleep, sleep disordered breathing
Assistant Professor	SHINOMIYA Shohei	clinical respiratory medicine
Assistant Professor	TAKAHARA Yutaka	clinical respiratory medicine
Assistant Professor	KAMEDA Mari	clinical respiratory medicine
Assistant Professor	FUJIMOTO Yuki	clinical respiratory medicine
Research Doctor	KITADATE Shoko	clinical respiratory medicine

Keywords of Research

acute lung injury, cytokine, nitric oxide, pulmonary alveolar type II cell, sleep apnea syndrome, acoustic reflection technique, lung cancer, apoptosis

Outline of Research

1. Pathogenesis and therapy of acute lung injury
2. Cell biology of pulmonary alveolar epithelium
3. Pathogenesis and therapy of sleep-disordered breathing
4. Cell biology of lung cancer cells

Publications

Originals

- 0310B001 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, T.Oikawa, M.Saito, K.Kojima, Y.Takahara, S.Shinomiya, A.Yamaya, T.Sakuma: Assessment of bispectral index monitor during flexible bronchoscopy performed under conscious sedation, *The Journal of the Japan Society for Respiratory Endoscopy*, 36:12-19, 2014.
- 0310B002 M.Zhou, K.Osanai, M.Kobayashi, T.Oikawa, K.Nakagawa, S.Mizuno, Y.Muraki, H.Toga: Adenovector-mediated gene transfer of lysophosphatidylcholine acyltransferase 1 attenuates oleic acid-induced acute lung injury in rats, *Crit. Care Med.*, 42:e716-e724, 2014.

Case Reports

- 0310D001 T.Mizuno, K.Ishigami, S.Yamada, H.Tsuchiya, C.Nakajima, R.Sangen, M.Fukushima, H.Minato, T.Nojima, A.Saito, N.Hayashi, H.Atsumi, T.Ito, M.Iguchi, D.Usuda, H.Okamura, S.Urashima, M.Asano, J.Kiyosawa, A.Fukuda, N.Takekoshi, T.Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, *Case Rep Oncol.*, 7:144-148, 2014.

Presentations at Conference

International Conference (Presentations)

- 0310I001 S.Mizuno, T.Ishizaki, J.G.Gomez-Arroyo, D.Kraskauskas, N.F.Voelkel, M.Kobayashi, K.Osanai, H.Toga: Gene polymorphisms of p53 at codon 72 and mdm2 snp309 regulates cigarette smoke induced lung cell apoptosis, American thoracic society international meeting 2014, (San diego, '14.05), *Am. J. respir. Crit. care Med.*, 189:A2993, 2014.
- 0310I002 S.Mizuno, M.Kobayashi, T.Oikawa, K.Nakagawa, K.Osanai, M.Kadowaki, T.Ishizaki, H.Toga: Gene polymorphisms of p53 at codon 72 and MDM2 SNP309 are associated with lung cancer risk and emphysematous changes in smokers, European Respiratory Society 2014 International Congress, (Munich, '14.09), *ERJ*, 2014.
- 0310I003 R.Kato, S.Mizuno, M.Kobayashi, T.Oikawa, K.Nakagawa, K.Osanai, M.Kadowaki, T.Ishizaki, H.Toga: Platelet endothelial cell adhesion molecule-1 expression in blood cells from patients with chronic obstructive pulmonary disease, European Respiratory Society 2014 International Congress, (Munich, '14.09), *ERJ*, 2014.
- 0310I004 S.Mizuno: Gene polymorphisms of p53 and MDM2 regulate emphysematous changes in COPD patients and cigarette smoke induced lung cell proliferation and apoptosis, Pulmonary Circulation Research Meeting, (Amsterdam, '14.11).

0320 Department of Gastroenterology

Faculty

Title	Name	Field of Specialization
Professor	ARISAWA Tomiyasu	Gastro-intestinal disorders
Associate Professor	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer
Senior Assistant Professor	NAKAMURA Masakatsu	Endoscopic therapy of early gastric cancer
Senior Assistant Professor	OTSUKA Toshimi	Clinico-pathological study of nonalcoholic steatohepatitis
Senior Assistant Professor(Additional Post)	SHIMASAKI Takeo	Molecular Oncology, Pancreatic cancer , tissue engineering.
Assistant Professor	HAYASHI Ranji	Inflammatory Bowel Disease
Assistant Professor	NOMURA Tomoe	Gastro-intestinal disorders
Research Doctor	YAMADA Hideto	Gastro-intestinal disorders

Keywords of Research

alcohol metabolism, alcoholic liver injury, carbohydrate deficient transferrin, cytochrome P4502E1, mitochondrial DNA mutation, hepatic fibrosis, hepatic stellate cell, hepatocyte apoptosis, chemical carcinogenesis, non-alcoholic steatohepatitis, FLS-ob mouse, metabolic syndrome, insuline resistance, leptin, adiponectin, oxidative stress, anti-oxidative enzyme, chronic type C hepatitis, HCV-RNA genotype, interferon therapy, chronic type B hepatitis, anti-viral treatment, treatment of hepatocellular carcinoma, radiofrequency ablation, arterial infusion therapy, early gastric cancer, endoscopic mucosal resection, endoscopic submucosal dissection, inflammatory bowel disease, ischemic colitis

Outline of Research

- 1 Basic and clinical study of digestive disease
 - ①Treatment for esophageal and gastric varices associated with portal hypertension
 - ②Endoscopic treatment for early cancer of the esophagus, stomach and colon
 - ③Hepatic support system for severe alcoholic hepatitis
 - ④Clinical feature and treatment for nonalcoholic steatohepatitis
- 2 Experimental study of alcoholic organ injury
 - ①Pathogenesis and treatment for alcoholic hepatitis
 - ②Pathogenesis of hepatic fibrosis induced by alcohol
 - ③Effect of alcohol on chemical carcinogenesis of the liver
 - ④Pathogenesis for nonalcoholic steatohepatitis

Publications

Originals

- 0320B001 K.Matsunaga, T.Tahara, H.Shiroeda, T.Otsuka, M.Nakamura, T.Shimasaki, N.Toshikuni, N.Kawada, T.Shibata, T.Arisawa: The *1244A>G polymorphism of MyD88(rs7744)is closely associated with susceptibility to ulcerative colitis, Mol. Med. Report., 9:28-32, 2014.
- 0320B002 N.Kawada, S.Tanaka, H.Uehara, K.Ohkawa, T.Yamai, R.Takada, H.Shiroeda, T.Arisawa, Y.Tomita: Potential use of point shear wave elastography for the pancreas:A single center prospective study, Eur J Radiol., 83:620-624, 2014.

- 0320B003 (H.Kitade), T.Shimasaki, S.Igarashi, H.Sakuma, M.Mori, N.Tomosugi, M.Nakai: Long-term administration and efficacy of oxaliplatin with no neurotoxicity in a patient with rectal cancer: Association between neurotoxicity and the GSTP1 polymorphism., *Oncol. Lett.*, 7:1499–1502, 2014.
- 0320B004 N.Toshikuni, M.Tsutsumi, Y.takuma, T.Arisawa: Real-time image fusion for successful percutaneous radiofrequency ablation of hepatocellular carcinoma., *J Ultrasound Med.*, 33:2005–2010, 2014.
- 0320B005 K.Ozaki, N.Toshikuni, J.George, T.Minato, Y.Matsue, T.Arisawa, M.Tsutsumi: Serum endocan as a novel prognostic biomarker in patients with hepatocellular carcinoma, *J Cancer.*, 5:221–230, 2014.
- 0320B006 T.Minato, M.Tsutsumi, M.Tsuchishima, N.Hayashi, T.Saito, Y.Matsue, N.Toshikuni, T.Arisawa, J.George: Binge alcohol consumption aggravates oxidative stress and promotes pathogenesis of NASH from obesity-induced simple steatosis, *Mol. Med.*, 20:490–502, 2014.
- 0320B007 (M.Okubo), T.Tahara, T.Shibata, J.Yonemura, D.Yoshioka, Y.Kamiya, M.Nakamura, T.Arisawa, N.Ohmiya, I.Hirata: Light blue crest and ridge/villous patterns in the uninvolved gastric antrum by magnifying NBI endoscopy correlate with serum pepsinogen and gastric cancer occurrence, *Hepatogastroenterology*, 61:525–528, 2014.
- 0320B008 (T.Tahara), T.Shibata, M.Okubo, K.Sumi, T.Ishizuka, M.Nakamura, M.Nagasaka, Y.Nakagawa, N.Ohmiya, T.Arisawa, I.Hirata: Change in DNA methylation patterns of SLC6A4 gene in the gastric mucosa in functional, *PLoS ONE*, 9:e105565;1–7, 2014.
- 0320B009 (T.Tahara), M.Okubo, T.Shibata, T.Kawamura, K.Sumi, T.Ishizuka, M.Nagasaka, Y.Nakagawa, T.Arisawa, N.Ohmiya, I.Hirata: Association between common genetic variants in pre-microRNAs and prognosis of advanced gastric cancer treated with chemotherapy, *Anticancer Res.*, 34:5199–5204, 2014.
- 0320B010 (T.Tahara), T.Shibata, M.Okubo, T.Ishizuka, M.Nakamura, M.Nagasaka, Y.Nakagawa, N.Ohmiya, T.Arisawa, I.Hirata: DNA methylation status of epithelial-mesenchymal transition (EMT) - related genes is associated with severe clinical phenotypes in ulcerative colitis (UC), *PLoS ONE*, 9:e107947;1–7, 2014.
- 0320B011 (T.Tahara), T.Shibata, M.Okubo, T.Ishizuka, T.Kawamura, H.Yamashita, M.Nakamura, Y.Nakagawa, M.Nagasaka, T.Arisawa, N.Ohmiya, I.Hirata: Heat-shock protein 70-2 BB genotype is associated with reduced risks of the steroid-dependent and refractory phenotypes of ulcerative colitis, *Biomed Rep.*, 2:555–558, 2014.
- 0320B012 (T.Tahara), T.Shibata, M.Okubo, T.Ishizuka, T.Kawamura, H.Yamashita, M.Nakamura, Y.Nakagawa, M.Nagasaka, T.Arisawa, N.Ohmiya, I.Hirata: Effect of RANTES gene promoter genotypes in patients with ulcerative colitis., *Biomed Rep.*, 2:602–606, 2014.

Reviews

- 0320C001 N.Toshikuni, T.Arisawa, M.Tsutsumi: Hepatitis C-related liver cirrhosis - strategies for the prevention of hepatic decompensation,hepatocarcinogenesis,and mortality, *World J. Gastroenterol.*, 20:2876–2887, 2014.
- 0320C002 N.Toshikuni, T.Arisawa, M.Tsutsumi: Nutrition and exercise in the management of liver cirrhosis, *World J. Gastroenterol.*, 20:7286–7297, 2014.
- 0320C003 N.Toshikuni, M.Tsutsumi, T.Arisawa: Clinical differences between alcoholic liver disease and nonalcoholic fatty liver disease, *World J. Gastroenterol.*, 20:8393–8406, 2014.
- 0320C004 (T.Tahara), T.Arisawa: Pathogenesis of CpG island methylator phenotype-positive colorectal cancers; role of genetic alteration and colonic flora, *Epigenomics.*, 6:249–251, 2014.
- 0320C005 N.Hayashi, T.Saito, M.Kakuda, Y.Matsue, T.Minato, A.Fukumura, K.Ozaki, M.Tsuchisima, M.Tsutsumi: Pathogenesis of alcoholic chronic hepatitis, *Jpn. J. Alcohol & Drug Dependence*, 49:219–226, 2014 (in Japanese) .

Case Reports

- 0320D001 (T.Tahara), T.Shibata, M.Okubo, D.Yoshioka, T.Ishizuka, K.Sumi, T.Kawamura, M.Nagasaka, Y.Nakagawa, M.Nakamura, T.Arisawa, N.Ohmiya, I.Hirata: A case of plummer vinson syndrome showing rapid improvement of dysphagia and esophageal web after two weeks of iron therapy., *Case Rep. Gastroenterol.*, 8:211–215, 2014.

Short Communications

- 0320E001 M.Nakamura, Hi.Shiroeda, T.Tahara, T.Shibata, T.Arisawa: Endoscopic submucosal dissection of an esophageal tumor using a transnasal endoscope without sedation, *Endoscopy*, 46:E115–E116, 2014.
- 0320E002 M.Nakamura, H.Shiroeda, T.Tahara, T. Shibata, T.Arisawa: A new method using a polyglycolic acid monolayer patch to shield the mucosal defect after endoscopic submucosal dissection, *Endoscopy*, 46:E176–E177, 2014.
- 0320E003 K.Matsunaga, R.Hayashi, T.Otsuka, D.Kaida, N.Ueda, T.Kosaka, T.Arisawa: A case of IgG4-related disease complicated by duodenal bulbitis with IgG4-positive plasma cell infiltration, *Endoscopy*, 46:E408–E410, 2014.

Presentations at Conference

International Conference (Symposium)

- 0320H001 T.Shimasaki: Identification of the GSK3 beta-mediated secretory protein responsible for GEM-induced EMT in pancreatic cancer cells. , The 25th Annual Meeting of the Japanese Society for Gastroenterological Carcinogenesis, (Fukuoka, '14.11).

International Conference (Presentations)

- 0320I001 N.Toshikuni, A.Fukumura, T.Arisawa, M.Tsutsumi: Do types of fatty liver disease influence the susceptibility of diabetes mellitus, hypertension, and dyslipidemia?, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I002 (N.Kawada), K.Matsunaga, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomita: Usefulness of dual phase 18F-FDG-PET/CT for distinguishing malignancy from benign small pancreatic tumors, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I003 (M.Okubo), T.Shibata, T.Tahara, Y.Ichikawa, T.Ishizuka, M.Nakamura, T.Arisawa, I.Hirata: Two weeks treatment with esomeprazole is useful for the artificial ulcers induced by endoscopic submucosal dissection, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I004 M.Nakamura, H.Shiroeda, T.Shimasaki, N.Kawada, T.Tahara, T.Shibata, T.Arisawa: Usefulness of the package adhesion method with four-place clip polyglycolic acid sheets for preventing bleeding from ulcers after early gastric cancer endoscopic submucosal dissection, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I005 M.Nakamura, H.Shiroeda, T.Shimasaki, T.Otsuka, N.Toshikuni, T.Fukuyama, K.Matsunaga, R.Hayashi, T.Nomura, H.Yamada, K.Yamada, N.Kawada, T.Tahara, T.Shibata, T.Arisawa: The usefulness of nasal ESD performed with a new therapeutic transnasal endoscope for early esophageal cancer, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I006 T.Arisawa, T.Fukuyama, T.Tahara, K.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Otsuka, M.Nakamura, T.Shimasaki, N.Toshikuni, H.Shiroeda, T.Shibata: Genetic polymorphisms of DNMT3A are associated with the aberrant DNA methylation of CDH1 in Japanese subjects, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I007 (T.Tahara), M.Okubo, T.Shibata, K.Sumi, T.Ishizuka, Y.Ishikawa, T.Kawamura, M.Nakamura, M.Nagasaka, Y.Nakagawa, N.Ohmiya, T.Arisawa, I.Hirata: Association between common genetic variants in pre-microRNAs and prognosis of advanced gastric cancer treated with chemotherapy, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I008 T.Shimasaki, N.Ueda, N.Kawada, T.Nomura, K.Yamada, H.Yamada, R.Hayashi, K.Matsunaga, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, H.Shiroeda, T.Kosaka, N.Tomosugi, T.Minamoto, T.Arisawa: Phase I clinical trial of the combination therapy using gemcitabine and GSK3beta inhibiting drugs for gemcitabine-resistant advanced pancreatic cancer patients, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0320I009 (N.Kawada), K.Matsunaga, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomita: Nodule size and positive cytology as predictors of malignancy for intraductal papillary mucinous neoplasm of the pancreas, *Didestive Disease Week 2014*, (Chicago, '14.05).

- 0320I010 (N.Kawada), K.Matsunaga, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomota: Morphological changes of intraductal papillary mucinous neoplasm of the pancreas are not enough for indicators of the development of pancreatic carcinoma during follow up, Digestive Disease Week 2014, (Chicago, '14.05).
- 0320I011 (T.Tahara), T.Shibata, M.Okubo, K.Sumi, T.Ishizuka, Y.Ichikawa, T.Kawamura, M.Nakamura, N.Nagasaka, Y.Nakagawa, N.Ohmiya, T.Arisawa, I.Hirata: endoscopic, clinic-pathological and molecular features of Epstein-Barr virus (EB) positive gastric carcinoma, Digestive Disease Week 2014, (Chicago, '14.05).
- 0320I012 T.Arisawa, T.Otsuka, T.Tahara, K.Yamada, H.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Fukuyama, M.Nakamura, T.Shimasaki, N.Toshikuni, H.Shiroeda, T.Shibata: Genetic polymorphisms of DNMT3A are associated with the aberrant DNA methylation of DAPK in Japanese subjects, Digestive Disease Week 2014, (Chicago, '14.05).
- 0320I013 T.Arisawa, H.Shiroeda, T.Tahara, K.Yamada, H.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, T.Shibata: A polymorphism rs7521584 in pre-miR429 and pre-miR200s genes is associated with the aberrant DNA methylation in gastric mucosa, Digestive Disease Week 2014, (Chicago, '14.05).
- 0320I014 (T.Tahara), T.Shibata, M.Okubo, K.Sumi, T.Ishizuka, Y.Ichikawa, T.Kawamura, M.Nakamura, M.Nagasaka, Y.Nakagawa, N.Ohmiya, T.Arisawa, I.Hirata: Change in DNA methylation patterns of SLC6A4 gene in the gastric mucosa in functional dyspepsia, Digestive Disease Week 2014, (Chicago, '14.05).

0330 Department of Nephrology

Faculty

Title	Name	Field of Specialization
Professor	YOKOYAMA Hitoshi	Clinicopathological study of nephritic and nephrotic syndrome, Clinical study of blood purification, Clinicopathological study of renal transplantation
Professor(Additional Post)	TOMOSUGI Naohisa	Proteomics in clinical nephrology
Senior Assistant Professor	OKUYAMA Hiroshi	Clinical nephrology
Senior Assistant Professor	YAMAYA Hideki	Clinical nephrology
Assistant Professor	ADACHI Hiroki	Clinical nephrology
Assistant Professor	ATSUMI Hirokatsu	Clinical nephrology
Assistant Professor	IMURA Junko	Clinical nephrology
Assistant Professor	CHIKAZAWA Yoshihiro	Clinical nephrology
Assistant Professor	NAKAGAWA Masaru	Clinical nephrology
Assistant Professor	HAYAMA Satoshi	Clinical nephrology
Assistant Professor	FUJIMOTO Keiji	Clinical nephrology
Assistant Professor	MATSUI Yuki	Clinical nephrology
Assistant Professor	HAYASHI Norifumi	Clinical nephrology
Assistant Professor	OKINO Kazuaki	Clinical nephrology
Assistant Professor	MUKAI Kiyotaka	Clinical nephrology
Assistant Professor	OKUSHI Yuki	Clinical nephrology

Keywords of Research

acquired renal cystic disease, CT scan, renal cell carcinoma, dialysis patient, cytogenetics, chromosome, PCR, karyotype, metalloproteinase, mesangial cell, renal disease, hemodialysis, hematuria, proteinuria, ADPKD, renal transplantation, hyperuricemia, nephrotic syndrome, hyperparathyroidism, bone disease, imaging, RCC, cystic disease, chronic renal failure, survival, IgA, glomerulonephritis, acute renal failure, vitamin D, CAPD

Outline of Research

We performed the clinicopathological studies of nephritic and nephrotic syndrome, especially in human lupus nephritis. We confirmed the usefulness of ISN/RPS 2003 lupus nephritis classification in the long-term followed cohort analysis. We also analyzed the genetic backgrounds of familial focal segmental glomerulosclerosis (FSGS), and studied the early remission induction therapy of minimal change nephrotic syndrome and FSGS. In the fields of renal transplantation, we analyzed primary non-functioning kidneys and patients with chronic allograft nephropathy. As concern to chronic kidney diseases (CKD), we revealed the CKD population in Ishikawa Prefecture based on the health check program of general population. As the application of proteomics analyses, we studied the uremic toxins and iron metabolism, especially hepcidin, in chronic renal failure of both human and animal models. We applied blood purification and proteomics techniques in some co-ordinal works of various research fields.

Publications

Originals

- 0330B001 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, K.Iwabuchi, N.Tomosugi: RNA-binding protein RBM8A (Y14) and MAGOH localize to centrosome in human A549 cells., *Histochem. Cell Biol.*, 141:101-109, 2014.
- 0330B002 (T.Wada), M.Nangaku, S.Maruyama, E.Imai, K.Shoji, S.Kato, T.Endo, E.Muso, K.Kamata, H.Yokoyama, K.Fujimoto, Y.Obata, T.Nishino, H.Kato, S.Uchida, Y.Sasatomi, T.Saito, S.Matsuo: A multicenter cross-sectional study of circulating soluble urokinase receptor in Japanese patients with glomerular disease, *Kidney Int.*, 85:641-648, 2014.
- 0330B003 (K.Takasawa), N.Tomosugi, C.Takaeda, T.Maeda, N.Ueda: Regulation of hepcidin-25 by short- and long-acting rhEPO may be dependent on ferritin and predict the response to rhEPO in hemodialysis patients., *Nephron Extra.*, 4:55-63, 2014.
- 0330B004 (H.Kitade), T.Shimasaki, S.Igarashi, H.Sakuma, M.Mori, N.Tomosugi, M.Nakai: Long-term administration and efficacy of oxaliplatin with no neurotoxicity in a patient with rectal cancer: Association between neurotoxicity and the GSTP1 polymorphism., *Oncol. Lett.*, 7:1499-1502, 2014.
- 0330B005 (K.Ando), K.Nitta, H.Rakugi, Y.Nishizawa, H.Yokoyama, T.Nakanishi, N.Kashihara, K.Tomita, M.Nangaku, K.Takahashi, M.Isshiki, T.Shimosawa, T.Fujita: Comparison of the antialbuminuric effects of benidipine and hydrochlorothiazide in Renin-Angiotensin System (RAS) inhibitor-treated hypertensive patients with albuminuria: the COSMO-CKD (COMBINATION STRATEGY ON RENAL FUNCTION OF BENIDIPINE OR DIURETICS TREATMENT WITH RAS INHIBITORS IN A CHRONIC KIDNEY DISEASE HYPERTENSIVE POPULATION) study, *Int J Med Sci.*, 11:897-904, 2014.
- 0330B006 T. Takata, Y. Motoo, N. Tomosugi: Effect of saikokeishito, a kampo medicine, on hydrogen peroxide-induced premature senescence of normal human dermal fibroblasts, *J Integr Med.*, 12:495-503, 2014.
- 0330B007 (T.Saito), M.Iwano, K.Matsumoto, T.Mitarai, H.Yokoyama, N.Yorioka, S.Nishi, A.Yoshimura, H.Sato, S.Ogahara, H.Shuto, Y.Kataoka, S.Ueda, A.Koyama, S.Maruyama, M.Nangaku, E.Imai, S.Matsuo, Y.Tomino: Significance of combined cyclosporine-prednisolone therapy and cyclosporine blood concentration monitoring for idiopathic membranous nephropathy with steroid-resistant nephrotic syndrome: a randomized controlled multicenter trial, *Clin. Exp. Nephrol.*, 18:784-794, 2014.
- 0330B009 (T.Mochizuki), C.Tanji, K.Usui, S.Shoji, T.Shinomiya, M.Inaba, N.Tomosugi: A prospective study on the improvement of EPO resistance index by better iron cycling with lower ferritin management in hemodialysis patients(EPOCH study), *J. Jpn. Soc. Dial. Ther.*, 47:313-321, 2014 (in Japanese) .

Reviews

- 0330C001 (M.Shimizu), K.Furuichi, H.Yokoyama, T.Toyama, Y.Iwata, N.Sakai, S.Kaneko, T.Wada: Kidney lesions in diabetic patients with normoalbuminuric renal insufficiency, *Clin. Exp. Nephrol.*, 18:305-312, 2014.

Case Reports

- 0330D001 T.Mizuno, K.Ishigami, S.Yamada, H.Tsuchiya, C.Nakajima, R.Sangen, M.Fukushima, H.Minato, T.Nojima, A.Saito, N.Hayashi, H.Atsumi, T.Ito, M.Iguchi, D.Usuda, H.Okamura, S.Urashima, M.Asano, J.Kiyosawa, A.Fukuda, N.Takekoshi, T.Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, *Case Rep Oncol.*, 7:144-148, 2014.

Presentations at Conference

International Conference (Symposium)

- 0330H001 (R.Yamamoto), S.Maruyama, H.Yokoyama, S.Matsuo, E.Imai: Japan nephrotic syndrome cohort study(JNSCS):a nationwide prospective cohort study of primary nephrotic syndrome in Japan, 2014 Asian Pacific Society of Nephrology, (Tokyo, '14.05).

International Conference (Presentations)

- 0330I001 K.Fujimoto, K.Mukai, Y.Okushi, K.Okino, K.Shojima, Y.Matsui, H.Atsumi, H.Adachi, H.Okuyama, H.Yamaya, H.Yokoyama: Clinical significance of serum soluble urokinase receptor (suPAR) levels in primary nephrotic syndrome, 2014 Asian Pacific Society of Nephrology, (Tokyo, '14.05).
- 0330I002 H.Adachi, K.Mukai, Y.Okushi, K.Okino, K.Shojima, Y.Matsui, K.Fujimoto, H.Atsumi, H.Okuyama, H.Yamaya, H.Yokoyama: Renoprotective effects of HDL-C and adiponectin in patients with renal allograft, 2014 Asian Pacific Society of Nephrology, (Tokyo, '14.05).
- 0330I003 H.Atsumi, Y.Okushi, K.Okino, K.Mukai, Y.Matsui, K.Fujimoto, H.Adachi, Y.Chikazawa, H.Okuyama, H.Yamaya, H.Yokoyama: The long-term outcome of Japanese renal allograft recipients with hepatitis C viral infection, 2014 Asian Pacific Society of Nephrology, (Tokyo, '14.05).
- 0330I004 (R.Yamamoto), S.Maruyama, H.Yokoyama, S.Matsuo, E.Imai: Resistance to immunosuppressive therapy in primary nephrotic syndrome:Japan nephrotic syndrome cohort study(JNSCS), 2014 Asian Pacific Society of Nephrology, (Tokyo, '14.05).
- 0330I005 N.Hayashi, S.Akiyama, H.Okuyama, Y.Matsui, K.Fujimoto, H.Atsumi, H.Adachi, H.Yamaya, S.Maruyama, E.Imai, S.Matsuo, H.Yokoyama: Clinical and pathological characteristics of the M-type phospholipase A2 receptor (PLA2R) related me, 51st ERA-EDTA Congress in Amsterdam The Netherlands, (Amsterdam, '14.06).
- 0330I006 K.Fujimoto, H.Adachi, H.Okuyama, H.Yamaya, H.Yokoyama: Urinary and serum soluble urokinase receptor levels predicts the therapeutic responsiveness of nephrotic syndrome and ANCA-glomerulonephritis, The Annual of American Society of Nephrology, (Philadelphia, '14.11).
- 0330I007 Y.Matsui, H.Atsumi, J.Imura, K.Fujimoto, H.Adachi, H.Okuyama, H.Yamaya, H.Yokoyama: DNA double strand brakes induced intractable glomerular fibrosis in renal allografts, The Annual of American Society of Nephrology, (Philadelphia, '14.11).
- 0330I008 (H.Komatsu), S.Fujimoto, N.Yoshikawa, H.Kitamura, H.Sugiyama, H.Yokoyama: Comparison of clinical manifestations between henoch-schönlein purpura nephritis and IgA nephropathy:analysis of Japan renal biopsy registry (J-RBR), The Annual of American Society of Nephrology, (Philadelphia, '14.11).

0340 Department of Diabetology and Endocrinology

Faculty

Title	Name	Field of Specialization
Professor	KOYA Daisuke	diabetes, hypertension, obesity, aging
Associate Professor	NAKAGAWA Atsushi	diabetes, pituitary diseases
Associate Professor	NISHIZAWA Makoto	diabetes, insulin secretion, thyroid diseases
Senior Assistant Professor	KANASAKI Keizo	diabetes, hypertension, obesity, preeclampsia
Senior Assistant Professor	KITADA Munehiro	diabetes, diabetical renal disease, hypertension
Senior Assistant Professor	KONISHI Kazunori	diabetes, arteriosclerosis
Senior Assistant Professor	TSUDA Shinichi	diabetes, hypertension, arteriosclerosis
Assistant Professor	ITO Hiroki	diabetes
Assistant Professor	KANASAKI Megumi	diabetes, hypertension, obesity, preeclampsia
Assistant Professor	OTODA Toshiki	diabetes, obesity
Assistant Professor	ASTUMI Hisanari	diabetes

Keywords of Research

diabetic nephropathy, diabetic retinopathy, diabetic neuropathy, obesity, aldosterone, adrenal zona glomerulosa, transmembrane signaling mechanism, angiotensin, protein kinase C, blood pressure, ambulatory blood pressure monitoring, hypertension, autonomic dysfunction, microalbuminuria, insulin resistance, incretin, entero-insular axis, mitochondrial gene mutation, renin, Type 2 diabetes, artificial pancreas, selective hypoaldosteronism, Basedows disease, thyroid tumor, chronic thyroiditis, glucose metabolism, endothelial function, nitric oxide, hyperlipidemia, antihypertensive therapy

Outline of Research

We study the relationship between intracellular oxidative stress and an anti-aging substance SIRT1 under diabetic conditions. SIRT1, an enzyme relating to the anti-aging effect of calorie restriction, was shown to inhibit oxidative stress-induced apoptosis of renal mesangial cells in vitro. At present, using diabetic animals, we investigate expressions of SIRT1 under various conditions of oxidative stress and prevention effects of over-expression of SIRT1 against diabetic complications.

Our clinical researches of the relation between the diurnal pattern of blood pressure and cardiovascular events among diabetics are highly evaluated because of the long-term prospective observation. Recently, we have also focused on the metabolic syndrome and blood pressure pattern to find out the participation of adiponectin.

We also study the abdominal vagal afferent signals sensing gut hormones, which are pivotal for postprandial glucose homeostasis.

Publications

Originals

- 0340B001 T.Nagai, M.Kanasaki, SP.Srivastava, Y.Nakamura, Y.Ishigaki, M.Kitada, S.Shi, K.Kanasaki, D.Koya: N-acetyl-seryl-aspartyl-lysyl-proline inhibits diabetes-associated kidney fibrosis and endothelial-mesenchymal transition, *Biomed Res Int.*, 2014:696475;1-12, 2014.

- 0340B002 (FA.Pena), K.Kanasaki, M.Kanasaki, S.Vong, C.Rovira, R.Kalluri: Specific activation of K-rasG12D allele in the bladder urothelium results in lung alveolar and vascular defects, *PLoS ONE*, 9:e95888;1–9, 2014.
- 0340B003 (M.Yasuda), Y.Tanaka, S.Kume, Y.Morita, M.Chin-Kanasaki, H.Araki, K.Isshiki, S.Araki, D.Koya, M.Haneda, A.Kashiwagi, H.Maegawa, T.Uzu: Fatty acids are novel nutrient factors to regulate mTORC1 lysosomal localization and apoptosis in podocytes, *BBA. Mol. Basis Dis.*, 1842:1097–1108, 2014.
- 0340B004 (S.Kume), S.Araki, N.Ono, A.Shinhara, T.Muramatsu, H.Araki, K.Isshiki, K.Nakamura, H.Miyano, D.Koya, M.Haneda, S.Ugi, H.Kawai, A.Kashiwagi, T.Uzu, H.Maegawa: Predictive properties of plasma amino acid profile for cardiovascular disease in patients with type 2 diabetes, *PLoS ONE*, 9:e101219;1–7, 2014.
- 0340B005 K.Kanasaki, S.Shi, M.Kanasaki, J.He, T.Nagai, Y.Nakamura, Y.Ishigaki, M.Kitada, SP.Srivastava, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis in streptozotocin-induced diabetic mice by inhibiting endothelial-to-mesenchymal transition in a therapeutic regimen, *Diabetes*, 63:2120–2131, 2014.

Reviews

- 0340C001 M.Kitada, S.Kume, D.Koya: Role of sirtuins in kidney disease, *Curr. Opin. Nephrol. Hypertens.*, 23:75–79, 2014.
- 0340C002 (S.Kume), K.Yamahara, M.Yasuda, H.Maegawa, D.Koya: Autophagy: emerging therapeutic target for diabetic nephropathy, *Semin. Nephrol.*, 34:9–16, 2014.
- 0340C003 D.Koya, M.Kitada, S.Kume, K.Kanasaki: Interventions against nutrient-sensing pathways represent an emerging new therapeutic approach for diabetic nephropathy, *Clin. Exp. Nephrol.*, 18:210–213, 2014.
- 0340C004 K.Kanasaki, T.Nagai, K.Nitta, M.Kitada, D.Koya: N-acetyl-seryl-asparatyl-lysyl-proline: a valuable endogenous anti-fibrotic peptide for combating kidney fibrosis in diabetes, *Front Pharmacol.*, 5:1–11, 2014.
- 0340C005 S.Shi, Y.He, D.Koya, K.Kanasaki: Cancer biology in diabetes, *J Diabetes Investig*, 5:251–264, 2014.
- 0340C006 (Japanese Society of Nephrology), K.Kanasaki, M.Kitada, D.Koya: Evidence-based clinical practice guideline for CKD 2013, *Clin. Exp. Nephrol.*, 18:346–423, 2014.
- 0340C007 M.Kitada, K.Kanasaki, D.Koya: Clinical therapeutic strategies for early stage of diabetic kidney disease, *World J Diabetes.*, 5:342–356, 2014.
- 0340C008 (C.Gao), W.Huang, K.Kanasaki, Y.Xu: The role of ubiquitination and sumoylation in diabetic nephropathy, *Biomed Res Int.*, 2014:160692;1–11, 2014.
- 0340C009 (S.Kume), D.Koya, T.Uzu, H.Maegawa: Role of nutrient-sensing signals in the pathogenesis of diabetic nephropathy, *Biomed Res Int.*, 2014:315494;1–9, 2014.
- 0340C010 T.Otoda, K.Kanasaki, D.Koya: Low-protein diet for diabetic nephropathy, *Curr. Diab. Rep.*, 14:523;1–10, 2014.
- 0340C011 SP.Srivastava, S.Shi, D.Koya, K.Kanasaki: Lipid mediators in diabetic nephropathy, *Fibrogenesis Tissue Repair*, 7:1–10, 2014.
- 0340C012 (M.Haneda), K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: A new classification of diabetic nephropathy 2014: a report from joint committee on diabetic nephropathy, *Diabetol Int.*, 5:207–211, 2014.
- 0340C018 (Joint committee on diabetes nephropathy), M.Haneda, K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: Classification of diabetic nephropathy 2014, *J. Jpn. Soc. Dial. Ther.*, 47:415–419, 2014 (in Japanese) .
- 0340C019 (Joint committee on diabetes nephropathy), M.Haneda, K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: Classification of diabetic nephropathy 2014, *Jpn. J. Nephrol.*, 56:547–552, 2014 (in Japanese) .

- 0340C025 (Joint committee on diabetes nephropathy), M.Haneda, K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: Classification of diabetic nephropathy 2014, *The Journal of Metabolism and Clinical Nutrition*, 17:325–330, 2014 (in Japanese) .

Short Communications

- 0340E001 K.Kanasaki, A.Maeshima, G.Taduri, I.Revuelta: Combating kidney fibrosis, *Biomed Res Int.*, 2014:679154;1–2, 2014.

Others

- 0340F001 D.Koya: Dual protein kinase C alpha and beta inhibitors and diabetic kidney disease: a revisited therapeutic target for future clinical trials, *J Diabetes Investig*, 5:147–148, 2014.
- 0340F002 (T.Gohda), A.Mima, JY.Moon, K.Kanasaki: Combat diabetic nephropathy: from pathogenesis to treatment, *J Diabetes Res.*, 2014:207140;1–2, 2014.
- 0340F005 M.Kitada: Elucidation of the mechanisms of diabetic nephropathy, *Diabetic Complications*, 28:155–163, 2014 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0340H001 K.Kanasaki: Workshop1 Pathophysiology of PE: I Pathogenesis of preeclampsia: COMT deficiency and relevans, *The 46th International Congress on Pathophysiology of Pregnancy*, (Tokyo, '14.09).
- 0340H002 D.Koya: Symposium7 Aging and metabolism Metabolic changes in aging Nutrient sensing and metabolic health, *2014 International Conference on Diabetes and Metabolism*, (Gyeonggido, '14.10), *2014 International Conference on Diabetes and Metabolism abstract book*, 65, 2014.

International Conference (Presentations)

- 0340I001 K.Konishi, S.Nakano, H.Ito, S.Tsuda, M.Kitada, K.Kanasaki, M.Nishizawa, A.Nakagawa, D.Koya: AST-120 ameliorates vascular endothelial dysfunctions and atherosclerosis in type 2 diabetic subjects with overt nephropathy, *The 8th International Congress on Uremia Research and Toxicity*, (Okinawa, '14.03), *The 8th International Congress on Uremia Research and Toxicity Program and Abstract*, 90, 2014.
- 0340I002 S.Shi, M.Kanasaki, T.Nagai, SP.Srivastava, K.Kanasaki, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis and endothelial-to-mesenchymal transition in streptozotocin-induced diabetic mice in associated with restration of microRNA 29s, *The 14th Asian Pacific Congress of Nephrology 2014*, (Tokyo, '14.05), *Nephrology*, 19:(Suppl.S2) 44, 2014.
- 0340I003 K.Kanasaki, M.Kanasaki, S.Shi, SP.Srivastava, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis in streptozotocin-induced diabetic mice via restoring microRNA29s, *American Diabetes Association 74rd Scientific Sessions*, (San Francisco, '14.06).
- 0340I004 (N.Ueki), S.Takeda, D.Koya, K.Kanasaki: Deficiency in catechol-o-methyltransferase is associated with glucose intolerance, *The 46th International Congress on Pathophysiology of Pregnancy*, (Tokyo, '14.09), *Abstracts for the 46th International Congress on Pathophysiology of Pregnancy*, 90, 2014.
- 0340I005 K.Kanasaki, SP.Srivastava, D.Koya: The antifibrotic microRNA crosstalk in the action of N-acetyl-seryl-aspartyl-lysyl-proline, *Cell Symposia: Regulatory RNAs 2014*, (Berkeley, '14.10).
- 0340I006 D.Koya, K.Kanasaki, M.Kitada: The antifibrotic microRNA crosstalk in the action of N-acetyl-seryl-aspartyl-lysyl-proline, *The 10th International Diabetes Federation-Western Pacific Region Congress / 6th the Asian Association for the Study of Diabetes*, (Singapore, '14.11), *Diabetes Res. Clin. Pract. Suppl.*, 106:(Suppl.1) S123–124, 2014.

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
Professor	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
Associate Professor	FUKUSHIMA Toshihiro	Hematology and Immunology, Clinical Pharmacology
Associate Professor	TANAKA Masao	Rheumatology, Immunology
Associate Professor	MASAKI Yasufumi	Hematology and Immunology, Transfusion Medicine
Senior Assistant Professor	KAWANAMI Takafumi	Hematology and Immunology
Senior Assistant Professor	FUJITA Yoshimasa	Rheumatology, Immunology
Senior Assistant Professor	OGISO Hideo	Hematology and Immunology
Senior Assistant Professor	TSUKAHARA Tamotsu	Hematology and Immunology
Assistant Professor	KAWANAMI Haruka	Hematology and Immunology
Assistant Professor	SAKAI Tomoyuki	Hematology and Immunology
Assistant Professor	NAKAJIMA Akio	Hematology and Immunology
Assistant Professor	NAKAMURA Takuji	Hematology and Immunology
Assistant Professor	MIKI Miyuki	Hematology and Immunology
Assistant Professor	UEDA Yoshibumi	Hematology and Immunology

Keywords of Research

autoimmune disorder, Sjögren's syndrome, malignant lymphoma, bone marrow transplantation, monoclonal lymphoproliferation, EB virus and tumorigenesis, stem cell, chemotherapy, leukemia cell line, apoptosis, chemokines, lipid raft, signal transduction, fractalkine, adhesion molecule, rheumatoid arthritis, systemic lupus erythematosus

Outline of Research

We practice the translational research to develop the new anti-cancer or immunosuppressive drugs through basic research in the fields of Hematology and Immunology.

Studies of immunological abnormalities and pathophysiology of autoimmune diseases:

- 1 Effects of chemokines on vascular injury and Th1 response during chronic inflammation.
- 2 Function of microdomain (lipid rafts) on lymphocyte activation and its contribution in autoimmune diseases.
- 3 Analysis of immunological disorder in sphingomyelin knockout mice.
- 4 Discovery and functional analysis of the new auto-antigens in rheumatoid arthritis.
- 5 Detection of stem cells in salivary glands and its implication for regenerative medicine.

Studies of hematological malignancies and development of anti-cancer drugs:

- 1 Analysis of EB-virus proteins and their roles in lymphoproliferative disorders.
- 2 Molecular biological analysis of drug resistance.
- 3 Roles of sphingomyelin on apoptosis.
- 4 Roles of SMS on niche of leukemia stem cells.

Books

- 0350A005 Y.Masaki, N.Kurose, H.Tonami, H.Umehara: Other organs(central nervous system,prostate), IgG4-Related Disease(H.Umehara, K.Okazaki, JH.Stone, S.Kawa, M.Kawano), 113-117, Springer Japan, Tokyo, 2014.
- 0350A006 H.Umehara, T.Okazaki: Comprehensive diagnostic criteria for IgG4-related disease, IgG4-Related Disease(H.Umehara, K.Okazaki, JH.Stone, S.Kawa, M.Kawano), 35, Springer Japan, Tokyo, 2014.

Publications

Originals

- 0350B001 H. Ogiso, M. Taniguchi, S. Araya, S.Aoki, LO.Wardhani, Y. Yamashita, Y. Ueda, T.Okazaki: Comparative analysis of biological sphingolipids with glycerophospholipids and diacylglycerol by LC-MS/MS, *Metabolites.*, 4:98-114, 2014.
- 0350B002 (N.Sugimoto), O.Shido, K.Matsuzaki, M.Katakura, Y.Hitomi, M.Tanaka, T.Sawaki, Y.Fujita, T.Kawanami, Y.Masaki, T.Okazaki, H.Nakamura, S.Koizumi, A.Yachie, H.Umehara: Long-term heat exposure prevents hypoxia-induced apoptosis in mouse fibroblast cells, *Cell Biochem. Biophys.*, 70:301-307, 2014.
- 0350B003 Y.Fujita, T.Fujii, T.Mimori, T.Sato, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sakai, T.Kawanami, M.Tanaka, Y.Masaki, T.Fukushima, T.Okazaki, H.Umehara: Deficient leptin signaling ameliorates systemic lupus erythematosus lesions in MRL/Mp-*Fas*^{del} mice, *J. Immunol.*, 192:979-984, 2014.
- 0350B004 (H.Umehara), A.Nakajima, T.Nakamura, T.Kawanami, M.Tanaka, L.Dong, M.Kawano: IgG4-related disease and its pathogenesis-cross-talk between innated and acquired immunity, *Int. Immunol.*, 26:585-595, 2014.
- 0350B005 (I.Mizushima), D.Inoue, M.Yamamoto, K.Yamada, T.Saeki, Y.Ubara, S.Matsui, Y.Masaki, T.Wada, S.Kasashima, K.Harada, H.Takahashi, K.Notohara, Y.Nakamura, H.Umehara, M.Yamagishi, M.Kawano: Clinical course after corticosteroid therapy in IgG4-related aortitis/preaortitis and periarteritis: a retrospective multicenter study, *Arthritis Res. Ther.*, 16:R156;1-11, 2014.

Reviews

- 0350C001 M. Taniguchi, T. Okazaki: The role of sphingomyelin and sphingomyelin synthases in cell death, proliferation and migration - from cell and animal models to human disorders-, *BBA-MOL CELL BIOL L*, 1841:692-703, 2014.
- 0350C002 Y.Masaki, H.Shimizu, T.Sato, T.Nakamura, A.Nakajima, H.Iwao, M.Miki, T.Sakai, T.Kawanami, Y.Fujita, M.Tanaka, T.Fukushima: IgG4-related disease:Diagnostic methods and therapeutic strategies in Japan, *J. Clin. Exp. Hematop.*, 54:95-101, 2014.

Case Reports

- 0350D001 (K.Fujiwara), T.Fukuhara, H.Kitano, T.Okazaki: Infiltration of the thyroid Gland by T-cell prolymphocytic leukemia, *Thyroid.*, 24:1314-1318, 2014.

Presentations at Conference

International Conference (Presentations)

- 0350I001 M. Taniguchi, K. Kitatani, Y. Taguchi, T. Kawanami, T. Takegami, H. Umehara, T. Okazaki: Lysosomal ceramide generated by acid sphingomyelinase triggers cathepsin B-mediated apoptosis in IL-2-deprived natural killer cells, *Gordon Research Conferences, Glycolipid & Sphingolipid Biology*, (Ventura, '14.01).
- 0350I002 M. Taniguchi, H. Ogiso, Y. Kitagawa, K. Hori, Y. Yamashita, S. Araya, S. Mitsutake, Y. Igarashi, T. Okazaki, T. Takegami: Deficiency of sphingomyelin synthase 1 prevents attachment and infection of Japanese Encephalitis Virus, *2nd International Workshop on Molecular Medicine of Sphingolipids*, (Kloster Banz,, '14.10).

0360 Department of Neurology

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Makoto	Clinical neurology, Neuroimmunology, Clinical Immunology
Professor(Additional Post)	TANAKA Keiko	Clinical neurology, Neuroimmunology
Associate Professor	TOMIOKA Ryo	Clinical neurology, Neuroimmunology
Associate Professor	NAGAYAMA Shigemi	Clinical neurology, Neuroimmunology
Assistant Professor	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
Assistant Professor	FUJITA Michiyo	Clinical neurology

Keywords of Research

clinical neurophysiology, epilepsy, apoptosis, cerebrovascular diseases, neuropathies, molecular genetics, ischemic strokes, autoantibody, neuroimmunology, neuroinfection, experimental autoimmune encephalomyelitis

Outline of Research

Development of new therapeutic strategies for the neuroimmunological disorders, including multiple sclerosis, by clarifying their etiologies that may be elucidated from meticulous clinical and experimental approaches using experimental animal models, which have been established due to recent advances in basic immunology.

Publications

Originals

- 0360B001 (E.Tabata), M.Masuda, M.Eriguchi, M.Yokoyama, Y.Takahashi, K.Tanaka, M.Yukitake, E.Horikawa, H.Hara: Immunopathological significance of ovarian teratoma in patients with anti-N-methyl-D-aspartate receptor encephalitis, *Eur. Neurol.*, 71:42-48, 2014.
- 0360B002 (M.Akaza), K.Tanaka, M.Tanaka, T.Sekiguchi, T.Misawa, K.Nishina, I.Kawachi, M.Nishizawa, H.Mizusawa, T.Yokota: Can anti-AQP4 antibody damage the blood-brain barrier?, *Eur. Neurol.*, 72:273-277, 2014.
- 0360B003 (K.Park), K.Tanaka, M.Tanaka: Uhthoff's phenomenon in multiple sclerosis and neuromyelitis optica, *Eur. Neurol.*, 72:153-156, 2014.
- 0360B004 (K.Kanazawa), R.Matsumoto, A.Shimotake, M.Kinoshita, A.Otsuka, O.Watanabe, K.Tanaka, R.Takahashi, A.Ikeda: Persistent frequent subclinical seizures and memory impairment after clinical remission in smoldering limbic encephalitis, *Epileptic Disord.*, 16:312-7, 2014.

Reviews

- 0360C001 M.Matsui, Y.Shimizu, H.Doï, R.Tomioka, I.Nakashima, M.Niino, J.Kira: Japanese guidelines for fingolimod in multiple sclerosis: putting into practice, *Clin. Exp. Neuroimmunol.*, 5:34-48, 2014.
- 0360C002 R.Tomioka, M.Matsui: Biomarkers for multiple sclerosis, *Intern. Med.*, 53:361-365, 2014.
- 0360C005 M.Matsui: Prevention of relapse in multiple sclerosis: fingolimod and interferon- β , *Neurol Therap*, 31:188-192, 2014 (in Japanese).

- 0360C007 K.Tanaka: Diagnosis and treatment of paraneoplastic neurologic syndrome, *Neurol Therap*, 31:153–155, 2014 (in Japanese) .
- 0360C013 K.Tanaka: Pathogenesis of autoantibodies in demyelinating disorders of the central nervous system, *Japanese Journal of Clinical Medicine*, 72:2067–2072, 2014 (in Japanese) .
- 0360C014 R.Tomioka, M.Matsui: Multiple sclerosis:diagnosis,clinical course and differential diagnosis, *Japanese Journal of Clinical Medicine*, 72:1957–1963, 2014 (in Japanese) .

Case Reports

- 0360D001 (M.Miyamoto), M.Kinoshita, K.Tanaka, M.Tanaka: Recurrent myelitis in localized scleroderma, *Clin. Neurol. Neurosurg.*, 127:140–142, 2014.
- 0360D002 (Y.Yamaguchi), K.Furukawa, T.Yamamoto, Y.Takahashi, K.Tanaka, M.Takahashi: Multifocal encephalopathy and autoimmune-mediated limbic encephalitis following tocilizumab therapy, *Intern. Med. J.*, 53:879–82, 2014.
- 0360D003 (M.Nishio), N.Nishitani, K.Tanaka: A case of acute limbic encephalitis with cerebral salt wasting syndrome, *Clinical Neurology*, 54:657–659, 2014 (in Japanese) .
- 0360D004 (D.Yamamoto), T.Uchiyama, T.Bunai, K.Sato, T.Shimizu, K.Tanaka, T.Ohashi: Acute encephalitis with refractory partial status epilepticus treated with early immunotherapies including plasma exchange:a case report, *Clinical Neurology*, 54:715–720, 2014 (in Japanese) .
- 0360D005 (M.Tanaka), K.Tanaka: Relapse in a patient with multiple sclerosis 18months after natalizumab treatment without anti-natalisumab neutralizing antibodies, *Neurological Medicine*, 81:582–584, 2014 (in Japanese) .

Short Communications

- 0360E001 (M.Tanaka), K.Tanaka: Anti-MOG antibodies in adult patients with demyelinating disorders of the central nervous system, *J. Neuroimmunol.*, 270:98–99, 2014.

Others

- 0360F001 (M.Tanaka), K.Tanaka: Dose reduction therapy of fingolimod for Japanese patients with multiple sclerosis:24-month experience, *Clin. Exp. Neuroimmunol.*, 5:383–384, 2014.
- 0360F002 (K.Fujita), K.Tanaka, Y.Takahashi: Neuronal antibodies in creutzfeldt-jakob disease, *JAMA Neurol.*, 71:514–515, 2014.
- 0360F003 (T.Kezuka), Dk. Sato, K.Tanaka: Distinction between MOG antibody-positive and AQP4 antibody-positive NMO spectrum disorders, *Neurology*, 83:475–476, 2014.

Presentations at Conference

International Conference (Presentations)

- 0360I001 K.Tanaka, Y.Li, L.Li Wang, N.Kato, M.Matsui, T.Takegami: Memory disturbance of the mice treated with intraventricular administration of CSF from NMDAR-encephalitis patients, *American Academy of Neurology 2014 Annual Meeting*, (Philadelphia, '14.05).

0363 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology

Keywords of Research

medical oncology, clinical oncology, gastroenterology, chemotherapy, tumor biology

Outline of Research

We are studying on pancreatic cancer, which is one of the most untreatable cancers. One of our projects is the research on the cancerous expression of pancreatitis-associated proteins in human pancreatic cancer. We are cooperating with INSERM in Marseille, France. The second project is the identification and characterization of new heat-shock proteins. The third one is the elucidation of the molecular mechanisms of gemcitabine resistance of pancreatic cancer cells. We are cooperating with Cancer Research Institute of Kanazawa University, especially on glycogen synthase kinase. Other projects include the metabolome approach on the prediction of adverse reaction of anti-cancer drugs, and the proteome analysis on the discovery of new molecular markers for pancreatic cancer.

Publications

Originals

- 0363B001 T. Takata, Y. Motoo, N. Tomosugi: Effect of saikokeishito, a kampo medicine, on hydrogen peroxide-induced premature senescence of normal human dermal fibroblasts, *J Integr Med.*, 12:495-503, 2014.
- 0363B002 Y.Motoo, I.Arai, K.Tsutani: Use of Kampo diagnosis in randomized controlled trials of Kampo products in Japan: a systematic review, *PLoS ONE*, 9:e104422;1-9, 2014.
- 0363B004 Y.Matsui, R.Murayama, H.Tanabe, M.Oe, M.Fukuda, Y.Motoo, T.Wagatsuma, S.Kinoshita, K.Sakai, C.Konya, J.Sugama, H.Sanada: Analysis of thermographic images in an extravasation model of intravenous infusion in healthy adults, *Journal of Nursing Science and Engineering*, 1:4-11, 2014 (in Japanese) .
- 0363B005 (K.Tsutani), K.Yukawa, M.Nagasawa, I.Arai, A.Igarashi, H.Ogasawara, K.Tsuruoka, S.Fukuyama, Y.Motoo, Y.Yamazaki: Survey on health hazards indirectly caused by complementary and alternative medicine in Japan, *Japanese Pharmacology & Therapeutics.*, 42:1005-1014, 2014 (in Japanese) .

Case Reports

- 0363D001 J.Moriya, K.Takeuchi, H.Uenishi, S.Akazawa, Y.Motoo, H.Hashimoto, M.Kaneshima, J.Kobayashi, J.Yamakawa: Successful treatment of post-influenza chronic fatigue syndrome with kampo medicine:a case report, *Japanese journal of oriental medicine.*, 65:87-93, 2014 (in Japanese) .
- 0363D002 J.Moriya, J.Yamakawa, K.Takeuchi, Y.Motoo, J.Kobayashi: Treatment with kampo medicines fo reflex sympathetic dystrophy, post-optic nerve meningioma operation and traffic injury, *Pain and kampo medicine.*, 24:144-148, 2014 (in Japanese) .

Others

- 0363F001 (T.Efferth), S.Lee, Y.Motoo, S.Schröder: Acupuncture and herbal medicine for cancer patients 2014, *Evid Based Complement Alternat Med*, 2014,326179;1-2, 2014.

Presentations at Conference

International Conference (Symposium)

- 0363H001 Y.Motoo: Role of Kampo medicine in multidisciplinary cancer therapy, 2014 Workshop on Integrative Medicine, Association of Korean Integrative Medicine (AKIM), (Seoul, '14.02).
- 0363H002 Y.Motoo: Advancements and challenges relevant to integrative traditional and modern medicine in the world: Japan, 2014 Integrative Traditional and Modern Medicine International Forum, (Taipei, '14.11).

International Conference (Presentations)

- 0363I001 Y.Motoo: Integrative cancer medicine in Japan, 2014 International Conference on Integrative Medicine, Association of Korean Integrative Medicine (AKIM), (Seoul, '14.02).
- 0363I002 Y.Motoo, I.Arai, K.Tsutani: Use of Kampo diagnosis in randomized controlled trials of Kampo products in Japan: a systematic review, 2014 Integrative Traditional and Modern Medicine International Forum, (Taipei, '14.11).

0366 Department of Infectious Diseases

Faculty

Title	Name	Field of Specialization
Professor	IINUMA Yoshitsugu	Clinical Infectious Diseases, Infection Control and Prevention
Associate Professor	BABA Hisashi	Clinical Infectious Diseases, Infection Control and Prevention, Clinical Microbiology

Keywords of Research

Infectious diseases, Antimicrobial drug resistance, Immunocompromised host, Acid-fast bacilli, Antimicrobial drugs

Outline of Research

1. Antimicrobial drug resistant bacilli infections
2. Infectious diseases in severe immunocompromised host
3. Acid-fast bacilli infections
4. Appropriate use of antimicrobial drugs

Publications

Originals

- 0366B001 (Y.Matsumura), Y.Ito, M.Yamamoto, A.Matsushima, M.Nagao, S.Takakura, Y.Iinuma, S.Ichihama: Pneumocystis polymerase chain reaction and blood (1→3)-β-D-glucan assays to predict survival with suspected Pneumocystis jirovecii pneumonia., *J. Infect. Chemother.*, 20:109-114, 2014.
- 0366B003 K.Matsuura, H.Baba, M.Asou, E.Morita, K.Kanaya, K.Kawamura, Y.Iinuma: Fundamental assessment of the CHROMagar™ MDRP medium in the screening of multidrug-resistant *Pseudomonas aeruginosa*, *Japanese Journal of Medical Technology*, 63:226-231, 2014 (in Japanese) .

Others

- 0366F001 (A.Suwabe), M.Maekawa, M.Koshiba, H.Baba, Y.Iinuma, K.Izuhara, Y.Furukawa, Y.Tanaka, K.Furuichi, T.Wada, H.Yoshida, H.Harigae, N.Watanabe, I.Kitajima: Points of revision of the guideline JSLM 2012, *Rinsho Byori*, 62:702-709, 2014 (in Japanese) .

0368 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
Professor	KOBAYASHI Junji	Lifestyle-related disease, Diabetes, Laboratory medicine, General medicine
Associate Professor	KUDOH AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology
Associate Professor	YAMAKAWA Junichi	General medicine, Kampo medicine
Senior Assistant Professor	UENISHI Hiroaki	Cardiovascular Medicine
Senior Assistant Professor	MORIYA Junji	General medicine, Kampo medicine
Senior Assistant Professor(Additional Post)	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Assistant Professor	SAWADA Mio	Kampo medicine, Women medical care

Keywords of Research

neurology, clinical epidemiology, alternative, clinical ethics, hospital management, general practise, obesity, infection

Outline of Research

The kampo medicine to the metabolic syndrome and chronic fatigue syndrome.

Publications

Originals

- 0368B001 (N.Ito), K.Yagi, M.Kawano, Y.Mori, S.Okazaki, D.Chujo, Y.Takeda, J.Kobayashi, M.Yamagishi: Analysis of pancreatic endocrine function in patients with IgG4-related diseases, in whom autoimmune pancreatitis was ruled out by diagnostic imaging, *Endocr. J.*, 61:765-772, 2014.
- 0368B002 (A.Nohara), J.Kobayashi, MA.Kawashiri, H.Tada, A.Inazu, M.Jiang, H.Mabuchi, H.Bujo: Clinical significance of measuring soluble LR11, a circulating marker of atherosclerosis and HbA1c in familial hypercholesterolemia, *Clin. Biochem.*, 47:1326-1328, 2014.
- 0368B003 (H.Uzui), H.Hayashi, I.Nakae, T.Matsumoto, H.Uenishi, H.Hayasaki, T.Asaji, S.Matsui, M.Kunihisa, JD.Lee, H.Tada, T.Sawamura, M.Fujita: Pitavastatin decreases serum LOX-1 ligand levels and MT1-MMP expression in CD14-positive mononuclear cells in hypercholesterolemic patients, *Int. J. Cardiol.*, 176:1230-1232, 2014.

Reviews

- 0368C001 K.Nakajima, J.Kobayashi: Antibodies to human angiopoietin-like protein 3:a patent evaluation of WO2012174178, *Expert Opin Ther Pat.*, 24:113-119, 2014.

Case Reports

- 0368D001 J.Moriya, K.Takeuchi, H.Uenishi, S.Akazawa, Y.Motoo, H.Hashimoto, M.Kaneshima, J.Kobayashi, J.Yamakawa: Successful treatment of post-influenza chronic fatigue syndrome with kampo medicine:a case report, *Japanese journal of oriental medicine.*, 65:87-93, 2014 (in Japanese) .

- 0368D002 J.Moriya, J.Yamakawa, K.Takeuchi, Y.Motoo, J.Kobayashi: Treatment with kampo medicines fo reflex sympathetic dystrophy, post-optic nerve meningioma operation and traffic injury, Pain and kampo medicine., 24:144-148, 2014 (in Japanese) .
- 0368D003 (K.Takeuchi), M.Kitamura, T.Isada, R.Saito, S.Shine, J.Moriya, J.Yamakawa: Successful treatment with tokito and pregabalin in a patient suffering from postthoracotomy pain, Pain and kampo medicine., 24:93-95, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0368I001 J.Kobayashi, K.Miyashita, S.Imamura, N.Kinoshita, K.Stanhope, P.Havel, K.Nakajima, T.Machida, H.Sumino, M.Nara, M.Murakami: A New enzyme-linked immunosorbent assay system for human hepatic triglyceride lipase, The 2nd world congress of clinical lipidology, (Wien, '14.05).
- 0368I002 K.Nakajima, K.Miyashita, S.Imamura, J.Kobayashi, T.Shirakawa, S.Yatsuzuka, Y.Shimomura, T.Machida, H.Sumino, M.Murakami: More than 80% of circulating lipoprotein lipase in pre-heparin plasma is found in remnant lipoproteins, The 82nd Congress of the European Atherosclerosis Society(EAS), (Madrid, '14.05), Atherosclerosis, 235:e84, 2014.
- 0368I003 M.Sakurai, J.Kobayashi, Y.Takeda, S-Y.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi: Abdominal obesity, metabolic syndrome, and the risk of chronic kidney disease in Japanese males and females., 74th Scientific Sessions, American Diabetes Association., (San Francisco, '14.06).

0370 Department of Geriatric Medicine

Faculty

Title	Name	Field of Specialization
Professor	MORIMOTO Shigeto	Geriatrics, Hypertension, Calcium Metabolism, Dementia, Osteoporosis
Professor(Additional Post)	NAKASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Professor(Additional Post)	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Associate Professor	OKURO Masashi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Assistant Professor	IRITANI Osamu	Geriatrics, Circulation
Assistant Professor	MORITA Takuro	Geriatrics, Circulation
Assistant Professor	YANO Hiroshi	Geriatrics, Circulation
Assistant Professor	OKUNO Tazuo	Geriatrics, Circulation
Assistant Professor	HIMENO Taro	Geriatrics, Circulation

Keywords of Research

elderly, cardiac function, pneumoia, frailty, stroke, hypertension, antihypertensive treatment, isolated systolic hypertension, nutrition, dysphagia, diabetes mellitus, cardiac disease, atherosclerosis, dementia, depression, Hasegawa's dementia scale, mini-mental state examination, eicosapentaenoic acid, osteoporosis

Outline of Research

The main fields of research of our Department are to elucidate pathogeneses and to develop new treatments for acute diseases in the elderly including pneumonia, stroke, heart failure, and ischemic heart diseases, of hypertension, and of elderly syndromes including dementia, falls/fractures, dysphagia, and bedridden. Besides these, we also research about genetic backgrounds for many elderly diseases using analysis of SNIPs, and about pathogenesis of atherosclerosis using culture of arterial cells.

Publications

Originals

- 0370B001 O.Iritani, Y.Koizumi, Y.Hamazaki, H.Yano, T.Morita, T.Himeno, T.Okuno, M.Okuro, K.Iwai, S.Morimoto: Association between blood pressure and disability-free survival among community-dwelling elderly patients receiving antihypertensive treatment, *Hypertens. Res.*, 37:772-778, 2014.
- 0370B002 (M.Sato), Y.Sagawa, N.Hirai, S.Sato, M.Okuro, S.Kumar, T.Kanbayashi, T.Shimizu, N.Sakai, S.Nishino: Noninvasive detection of sleep/wake changes and cataplexy-like behaviors in orexin-3 transgenic narcoleptic mice across the disease onset, *J. Neuropathol. Exp. Neurol.*, 261:744-751, 2014.
- 0370B003 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. *Med. Univ.*, 39:67-74, 2014 (in Japanese).

Reviews

- 0370C001 M.Okuro, S.Morimoto: Sleep apnea in the elderly, *Curr Opin Psychiatry.*, 27:472-477, 2014.

Presentations at Conference

International Conference (Presentations)

- 0370I001 K.Iwai, T.Morita, H.Yano, O.Iritani, M.Okuro, S.Morimoto, Y.Nakamura, Y.Ishigaki: CTCF regulates the formation of apoptosis by conjugating the two opposite pathways in arterial smooth muscle cell, European Society of Cardiology Congress 2014, (Barcelona, '14.09), European Heart Journal, 35 (Suppl.) :612-613, 2014.
- 0370I002 K.Iwai, T.Okuno, T.Morita, H.Yano, O.Iritani, M.Okuro, S.Morimoto, Y.Nakamura, Y.Ishigaki: CTCF is prerequisite for the fetal gene expression in the process of hypertrophy of the cardiomyocyte., European Society of Cardiology Congress 2014, (Barcelona, '14.09), European Heart Journal, 35:(Suppl.) 954-955, 2014.
- 0370I003 K.Iwai, T.Okuno, T.Morita, O.Iritani, M.Okuro, S.Morimoto: Nucleostemin and Nucleophosmin Express with Up-regulating Telomere Reverse Transcriptase in the Arteriosclerotic Lesions, Scientific Sessions 2014, American Heart Association, (Chicago, '14.11), Circulation, 130(Suppl):A17204, 2014.

0380 Department of Pediatrics

Faculty

Title	Name	Field of Specialization
Professor	SAIKAWA Yutaka	Pediatric hematology, Pediatric oncology
Associate Professor	NAKAMURA Tsuneyuki	Pediatric cardiology
Senior Assistant Professor	ITO Masatsune	Pediatric endocrinology, Pediatric metabolism, Inborn errors of metabolism
Senior Assistant Professor	SATO Hitoshi	Infectious disease in children, Molecular biology, Child neurology, Inborn errors of metabolism
Senior Assistant Professor	OKADA Naoki	Pediatric hematology, Pediatric oncology
Senior Assistant Professor	KOBAYASHI Azusa	Neonatology
Senior Assistant Professor	NAKAMURA Toshimi	Pediatric allergy, Pediatric immunology
Senior Assistant Professor	FUJIKI Takuma	Pediatric nephrology
Assistant Professor	AKITA Chisato	Pediatric cardiology
Assistant Professor	OGURI Masato	Pediatric cardiology.
Assistant Professor	YAMASHITA Yoko	Pediatric allergy, Pediatric immunology.
Assistant Professor	KOH Giyo	Connective tissue disease
Assistant Professor	IKENO Kanjyu	Child neurology
Research Doctor	YAMAMOTO Akiko	Child neurology
Research Doctor	FUJII Kunihiro	Pediatric Hematology, Inherited Metabolic Disease
Research Doctor	HORI Suiko	Pediatric allergy, Pediatric immunology.

Keywords of Research

DNA diagnosis, fatty acid oxidation, malignancy in childhood, peripheral blood stem cell, pituitary dwarfism, growth disorders in children, Kawasaki's disease, Adriamycin-induced cardiomyopathy, methylmalonic acidemia, infant botulism, leukemia in children, juvenile diabetes, congenital adrenal hyperplasia, congenital heart disease, arrhythmia in childhood

Outline of Research

Clinical and basic research are actively going on at pediatric department in the area of Neonatology, Pediatric Infectious Diseases, Pediatric Cardiology, Pediatric Allergy and Immunology, Pediatric Hematology and Oncology, Pediatric Neurology, Psychosomatic Medicine, Pediatric Endocrinology, Inborn Errors of Metabolism.

Publications

Originals

- 0380B001 (H.Kohno), F.Ichida, K.Hirono, S.Ozawa, N.Yoshimura, T.Nakamura, C.Akita, K.Ishida, M.Taguchi: Plasma concentrations of tadalafil in children with pulmonary arterial hypertension, *Ther Drug Monit.*, 36:576-583, 2014.
- 0380B002 M.Oguri, T.Nakamura, K.Tamanuki, C.Akita, C.Kitaoka, Y.Saikawa, M.Takahashi: Subclinical arterial stiffness in young children after Kawasaki disease, *Cardiol Young*, 24:87-94, 2014.

Case Reports

- 0380D001 T.Nakamura, K.Tamanuki, G.Koh, M.Oguri, C.Akita, C.Kitaoka, T.Nakamura, Y.Saikawa: Chronic thromboembolic pulmonary hypertension related to hemangiolympangioma, *Case Reports in Clinical Medicine.*, 3;36-37, 2014.
- 0380D002 N.Okamoto, G.Ko, M.Oguri, C.Akita, N.Okada, T.Nakamura, Y.Saikawa: A case of Kawasaki disease that developed during the follow-up of PFAPA, *Progress in Medicine*, 34:1236-1239, 2014 (in Japanese) .
- 0380D003 S.Toki, G.Ko, M.Oguri, C.Akita, N.Okada, T.Nakamura, Y.Saikawa: Two cases of patients developing Kawasaki disease after diagnosis of autoimmune neutropenia, *Progress in Medicine*, 34:1240-1244, 2014 (in Japanese) .

Short Communications

- 0380E001 (T.Wada), M.Ito, H.Maeba, T.Toma, Y.Niida, Y.Saikawa, A.Yachie: Intermittent X-Linked thrombocytopenia with a novel WAS gene mutation, *Pediatr Blood Cancer*, 61:746-748, 2014.

Others

- 0380F001 (NE.Bowles), CB.Arrington, K.Hirono, T.Nakamura, L.Ngo, YS.Wee, F.Ichida, JH.Weis: Kawasaki disease patients homozygous for the rs12252-C variant of interferon-induced transmembrane protein-3 are significantly more likely to develop coronary artery lesions, *Mol Genet Genomic Med.*, 2:356-361, 2014.

0390 Department of Neuropsychiatry

Faculty

Title	Name	Field of Specialization
Professor	KAWASAKI Yasuhiro	Cognitive neurosciences, Neuropsychology, Neuroimaging, Psychopharmacology, Neurophysiology
Senior Assistant Professor	WATANABE Kenichiro	Neuropsychology, Neuropharmacology
Senior Assistant Professor	UEHARA Takashi	Neuropharmacology
Senior Assistant Professor	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
Senior Assistant Professor	MONKAWA Akikazu	Brain imaging, Schizophrenia
Senior Assistant Professor	MONKAWA Tomomi	Psychopharmacology, Neuropsychology
Assistant Professor	KOSEKI Yojyu	Brain imaging
Assistant Professor	NITTA Yusuke	Consultation liaison psychiatry
Assistant Professor	HASHIMOTO Reiko	Psychotherapy, Clinical Psychology
Assistant Professor	KIHARA Hiroaki	Brain imaging,, Schizophrenia
Assistant Professor	SHIMADA Takamitsu	Brain imaging,, Schizophrenia

Keywords of Research

aged patients, age of onset, agrammatism, amitriptyline, amnesic syndrome, amnesia, amnesias, amoxapline, an interdict, anorexia nervosa, anxiety, aphasic subtypes, apperceptive and associative forms, associated societies, astrocytoma, attention deficit hyperactivity disorder(ADHD), acute reactive psychosis, aging

Outline of Research

- 1.Study on regional identification of brain language areas by functional MRI—application for surgical therapy of epilepsy
- 2.Study on action mechanisms of antipsychotic drugs by regional cerebral blood flow measurement using SPECT
- 3.Study on action mechanisms of antipsychotic drugs by neurotransmitter measurement using microdialysis in animal experiments
- 4.Neuropsychological study on dementia or disturbance of high neuronal function such as aphasia
- 5.Clinical study on psychiatric disturbance in epilepsy
- 6.Study on cognitive-behavioural therapy for obsessive compulsive disorder
- 7.Study on music therapy for dementia

Publications

Originals

- 0390B001 (J.Matsumoto), T.Uehara, S.Urakawa, Y.Takamura, T.Sumiyoshi, M.Suzuki, T.Ono, H.Nishijo: 3D video analysis of the novel object recognition test in rats, *Behav. Brain Res.*, 272:16-24, 2014.
- 0390B002 T.Uehara, T.Matsuoka, T.Sumiyoshi: Tandospirone, a 5-HT 1A partial agonist ameliorates aberrant lactate production in the prefrontal cortex of rats exposed to blockade of N-methyl-D-aspartate receptors; Toward the therapeutics of cognitive impairment of schizophrenia, *Front Behav Neurosci.*, 8:291;1-8, 2014.
- 0390B003 H.Kihara: The influence of a familial history of mood disorder on the findings of near-infrared spectroscopy for bipolar disorder, *J. Kanazawa. Med. Univ.*, 39:26-33, 2014 (in Japanese) .

- 0390B005 T.Shimada: An investigation into the brain structure and function of patients with schizophrenia using MRI and NIRS, J. Kanazawa. Med. Univ., 39:1-9, 2014 (in Japanese) .
- 0390B006 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. Med. Univ., 39:67-74, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0390I001 Y.Kawasaki, R.Hashimoto, S.ono, T.Shimada, H.Kihara, Y.Matsuda, M.Tunoda: Early detection and intervention project for young people at risk for developing psychosis in Uchinada, 4rd Biennial Schizophrenia International Research Society Conference, (Florence Italy, '14.04).
- 0390I002 Y.Matsuda, Y.Kawasaki, T.Takahashi, M.Kido, K.Nakamura, A.Furuichi, M.Suzuki: Gyrfication of Superior Temporal Gyrus Schizophrenia :Possibility of Clinical Application, OHBM 2014 Annual Meeting, (Hamburg, Germany, '14.06).
- 0390I003 (Y.Higuchi), T.Seo, T.Miyanishi, Y.Kawasaki, M.Suzuki, T.Sumiyoshi: Mismatch negativity and P3a/reorienting complex in subjects with schizophrenia or at-risk mental state, 9th International Conference on Early Psychosis, (Tokyo, '14.11), Early Intervention in Psychiatry, 8:137, 2014.
- 0390I004 Y.Kawasaki, R.Hashimoto, S.Ono, T.Shimada, H.Kihara, Y.Matsuda, M.Tunoda: Clinical activity of early detection and intervention for young people at risk for developing psychosis in Uchinada, WASP2014 Jubilee Congress, (London, '14.11).
- 0390I005 Y.Kawasaki, R.Hashimoto, S.Takemoto, T.Shimada, H.Kihara, Y.Matsuda, M.Tunoda: Clinical service for young people at risk for developing psychosis in Uchinada, 9th International Conference on Early Psychosis, (Tokyo, '14.12), Early Intervention in psychiatry, 8:119, 2014.

0400 Department of Radiology

Faculty

Title	Name	Field of Specialization
Professor	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
Professor	MATOKA Munetaka	Interventional Radiology, Diagnostic Imaging, Radiation therapy
Professor	WATANABE Naoto	Nuclear Medicine
Associate Professor(Additional Post)	KUGINUKI Yasuaki	Medical Radiography
Assistant Professor(Additional Post)	OTA Kiyotaka	Radiation Therapy, Nuclear Medicine
Assistant Professor	KITADATE Masataka	Interventional Radiology, Diagnostic Imaging
Assistant Professor	KONDO Tamaki	Diagnostic Imaging
Assistant Professor(Additional Post)	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging
Assistant Professor	TSUCHIYA Naoko	Diagnostic Imaging
Assistant Professor	DOAI Mariko	Diagnostic Imaging
Assistant Professor	TOYOTA Ichiro	Diagnostic Imaging

Keywords of Research

MRI, MRS, CT, US, IVR, radiotherapy, RI, PET, BAI, lung cancer, perfusion, diffusion, FDG, MTC, radiosurgery, brachytherapy, PEI, Sjögren, radiation, MRA, MRCP, color doppler, bone mineral, biopsy, RN, upper GI, TAE, metallic stent, contrast medium

Outline of Research

- 1.Assessment of Tumor Microperfusion and Therapeutic Effect Influencing by Radiotherapy, Chemotherapy and Transarterial Embolization using MD-CT, MRI and MRS.
- 2.Assessment of Tumor Proliferative Potential and Malignant Grade using MRS, SPECT and PET.
- 3.Biological Study of Radiation Injury of Tumor and Normal Tissue after Stereotactic Radiosurgery by 3-D Radiotherapy Planning System.
- 4.Study of Inhibiting Neointimal Proliferation after Angioplasty by ¹⁹²Ir Intraarterial Irradiation.

Books

- 0400A001 Y.Masaki, N.Kurose, H.Tonami, H.Umehara: Other organs(central nervous system,prostate), IgG4-Related Disease(H.Umehara, K.Okazaki, JH.Stone, S.Kawa, M.Kawano), 113-117, Springer Japan, Tokyo, 2014.

Publications

Originals

- 0400B001 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, Y.Kuginuki, T.Miwa, H.Tonami: Fractional change in apparent diffusion coefficient as an imaging biomarker for predicting treatment response in head and neck cancer treated with chemoradiotherapy, AJNR Am J Neuroradiol., 35:379-385, 2014.

- 0400B002 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Relationships between EGFR mutation status of lung cancer and preoperative factors—are they predictive?, *Asian Pac. J. Cancer Prev.*, 15:657–662, 2014.
- 0400B003 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, Y.Kuginuki, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Diagnostic performance of diffusion weighted imaging of malignant and benign pulmonary nodules and masses: comparison with positron emission tomography, *Asian Pac. J. Cancer Prev.*, 15:4629–4635, 2014.
- 0400B004 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, H.Tonami, Y.Ueda, T.Sakuma: Recurrence and metastasis of lung cancer demonstrate decreased diffusion on diffusion-weighted magnetic resonance imaging, *Asian Pac. J. Cancer Prev.*, 15:6843–6848, 2014.
- 0400B005 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, N.Watanabe, H.Tonami: Ability of diffusion-weighted MRI and 18F-FDG-PET/CT as predictors of clinical outcome in chemoradiotherapy for head-and-neck cancer, *Jpn. j. clin. Radiol.*, 59:720–727, 2014 (in Japanese) .

Case Reports

- 0400D001 M.Doai, H.Tonami, N.Tsuchiya, T.Akai, N.Kurose, K.Hirata: 1H-MR spectroscopy in a case of isolated intracranial rosai-dorfinan disease, *J Neurol Sci Turk*, 31:790–795, 2014.

Presentations at Conference

International Conference (Presentations)

- 0400I001 M.Matoba, K.Ota, T.Kondo, M.Kitadate, T.Takahashi, N.Watanabe, H.Tonami: Utility of Changes in 18F-FDG Uptake as a Prognostic Factor after Chemoradiotherapy in Head and Neck Squamous Cell Carcinoma Compared with Changes in Tumor Size, *Asia-Pacific Congress of Cardiovascular and Interventional Radiology*, (Shingapore, '14.05).
- 0400I002 M.Kitadate, H.Tonami, T.Shibamoto: Hemodynamics of portal venules during anaphylactic shock : Experimental study by means of hepatic venography, *Asia-Pacific Congress of Cardiovascular and Interventional Radiology*, (Shingapore, '14.05).
- 0400I003 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, Y.Ueda, T.Sakuma: Diffusion-Weighted manetic resonance lmgimg(DWI)signal intensity and distribution represents the amount of cancer, *American Thoracic Society International Canference 2014*, (SanDiego, '14.05).
- 0400I004 H.Nagata, M.Matoba, O.Yamashita, C.Masu, M.Sawano, M.Yamada, M.Kawashima, H.Tsuji, H.Tonami: Evaluation of metastatic cervical lymph nodes using adaptive 4D volume perfusion CT in patients with head and neck squamous cell carcinoma, *Radiological Society of North America*, (Chicago, '14.11).

0410 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
Professor	AKITA Toshiaki	Cardiovascular surgery
Professor	KAWAHIRA Yoichi	Cardiovascular surgery
Professor	SHIKATA Hiroo	Vascular surgery
Associate Professor	MORIOKA Koichi	Cardiovascular surgery
Senior Assistant Professor	KOBATA Takashi	Vascular surgery
Senior Assistant Professor	NOGUCHI Yasuhisa	Vascular surgery
Senior Assistant Professor	MIZUNO Fumito	Cardiovascular surgery
Assistant Professor	TANAKA Hirokazu	Cardiovascular surgery, Vascular surgery
Assistant Professor	TSUCHIYA Hirokazu	Cardiovascular surgery, Vascular surgery

Keywords of Research

Cardiac surgery, vascular surgery, respiratory surgery, pacemaker implantation, Arrhythmia surgery, ventricular assist device, arteriosclerosis obliterans, thromboangitis obliterans, valvular surgery, coronary bypass surgery, surgery for congestive heart failure, artificial vascular graft, endovascular stent grafting, respiratory surgery, lung cancer

Outline of Research

- 1.Elucidation of different mechanism for ischemia-reperfusion injury of immature and mature heart; Development of cardioplegia specific for neonate cardiac surgery.
- 2.Development of patient-specific cardiac supporting net for dilated heart failure patients
- 3.Endovascular stent-grafting for aortic aneurysm

Publications

Originals

- 0410B001 (Y.Kubota), S.Miyagawa, A.Fukushima, A.Saito, H.Watabe, T.Daimon, Y.Sakai, T.Akita, Y.Sawa: Impact of cardiac support device combined with slow-release prostacyclin agonist in a canine ischemic cardiomyopathy model, J. Thorac. Cardiovasc. Surg., Volume147,1081-7, 2014.

0415 Department of Thoracic Surgery

Faculty

Title	Name	Field of Specialization
Professor	SAKUMA Tsutomu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery, pulmonary edema
Professor	SAGAWA Motoyasu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery, epidemiology of mass screening
Professor	USUDA Katsuo	thoracic surgery, video assisted thoracoscopic surgery, lung cancer, mediastinal tumor, early lung cancer, interventional bronchology, clinical cytology
Assistant Professor	UENO Masakatsu	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	TANAKA Makoto	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	MACHIDA Yuichiro	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	MOTONO Nozomu	thoracic surgery, lung cancer, pulmonary circulation

Keywords of Research

thoracic surgery, lung cancer, mediastinal tumor, lung transplantation, video assisted thoracoscopic surgery, chemotherapy, lung injury, alveolar epithelial cell, bronchoscopy, thoracoscopy, laser therapy, pneumothorax

Outline of Research

Lung tumor

1. Screening test for lung cancer
2. Virtual bronchoscopy
3. Ion channel on cancer cells
4. Chemotherapy
5. Surgical treatment
6. Video assisted thoracoscopic surgery (VATS)

Mediastinal and pleural tumors

1. FDG-PET for mediastinal tumor
2. VATS
3. Surgical treatment and chemotherapy for malignant mesothelioma

Lung injury

1. Perioperative lung injury
2. Beta-agonist and antagonist therapy
3. Ischemia reperfusion lung injury
4. Aspiration lung injury
5. RAGE mice

New instruments

1. Bronchoscopy
2. Thoracoscopy

Publications

Originals

- 0415B001 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, T.Oikawa, M.Saito, K.Kojima, Y.Takahara, S.Shinomiya, A.Yamaya, T.Sakuma: Assessment of bispectral index monitor during flexible bronchoscopy performed under conscious sedation, *The Journal of the Japan Society for Respiratory Endoscopy*, 36:12-19, 2014.
- 0415B002 (C.Endo), T.Hasumi, Y.Matsumura, N.Sato, H.Deguchi, H.Oizumi, M.Sagawa, T.Tsushima, S.Takahashi, J.Shibuya, M.Hirose, T.Kondo: A Prospective study of surgical procedures for patients with oligometastatic non-small cell lung cancer, *Ann. Thorac. Surg.*, 98:258-264, 2014.
- 0415B003 H.Minato, N.Kurose, M.Fukushima, T.Nojima, K.Usuda, M.Sagawa, T.Sakuma, A.Ooi, I.Matsumoto, M.Oda, Y.Arano, J.Shimizu: Comparative immunohistochemical analysis of IMP3, GLUT1, EMA, CD146, and desmin for distinguishing malignant mesothelioma from reactive mesothelial cells, *Am. J. Clin. Pathol.*, 141:85-93, 2014.
- 0415B004 M.Tanaka, M.Sagawa, K.Usuda, Y.Machida, M.Ueno, N.Motono, T.Sakuma: Postoperative drainage with one chest tube is appropriate for pulmonary lobectomy: a randomized trial, *Tohoku J. Exp. Med.*, 232:55-61, 2014.
- 0415B005 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Relationships between EGFR mutation status of lung cancer and preoperative factors—are they predictive?, *Asian Pac. J. Cancer Prev.*, 15:657-662, 2014.
- 0415B006 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, Y.Kuginuki, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Diagnostic performance of diffusion weighted imaging of malignant and benign pulmonary nodules and masses: comparison with positron emission tomography, *Asian Pac. J. Cancer Prev.*, 15:4629-4635, 2014.
- 0415B007 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, H.Tonami, Y.Ueda, T.Sakuma: Recurrence and metastasis of lung cancer demonstrate decreased diffusion on diffusion-weighted magnetic resonance imaging, *Asian Pac. J. Cancer Prev.*, 15:6843-6848, 2014.
- 0415B008 N.Motono, M.Ueno, M.Tanaka, Y.Machida, K.Usuda, T.Sakuma, M.Sagawa: Differences in the prognostic significance of the SUV max between patients with resected pulmonary adenocarcinoma and squamous cell carcinoma, *Asian Pac. J. Cancer Prev.*, 15:10171-10174, 2014.
- 0415B009 M.Tanaka: Increased expression of receptor for advanced glycation end products in chronic obstructive pulmonary disease, *J. Kanazawa. Med. Univ.*, 39:18-25, 2014 (in Japanese) .
- 0415B010 M.Ueno: Expression of the receptor for advanced glycation end-products and its ligands in lung cancer, *J. Kanazawa. Med. Univ.*, 39:10-17, 2014 (in Japanese) .
- 0415B011 (T.Kobayashi), Y.Kibe, T.Hiura, Y.Tanaka, K.Nishii, H.Kobayashi, I.Kanetsuki, A.Harada, T.Nagata, Y.Nakamura, M.Satou, H.Nakayama, T.Akutsu, A.Sakurada, Y.Takeda, M.Sagawa: Evaluation of the exposed dose in low dose CT for lung cancer screening to its permitted image quality, *The Journal of the Japanese Society of CT Screening*, 21:68-73, 2014 (in Japanese) .

Reviews

- 0415C001 M.Sagawa, M.Tanaka, Y.Machida, N.Motono, S.Maeda, K.Usuda: Some issues need to be resolved for the development of a program for lung cancer screening using thoracic CT in Japan, *The Journal of the Japanese Society of CT Screening*, 21:96-100, 2014 (in Japanese) .

Case Reports

- 0415D001 M.Sagawa, T.Maeda, Y.Yutaka, T.Sakuma: Saline-cooled radiofrequency coagulation during thoracoscopic surgery for giant bulla, *Eur J Cardiothorac Surg*, 46:737-739, 2014.
- 0415D002 Y.Machida, M.Tanaka, N.Motono, K.Usuda, M.Sagawa, T.Sakuma: A rare case of posterior dislocation of the sternum body caused during snowboarding, *The Journal of the Japanese Association for Chest Surgery.*, 28:227-229, 2014 (in Japanese) .

Others

0415F001 T.Sakuma, MA.Matthay: Translational studies in the ex vivo human lung, *Respir Investig.*, 52:219–220, 2014.

Presentations at Conference

International Conference (Presentations)

- 0415I001 Y.Machida, N.Motono, M.Tanaka, M.Ueno, K.Usuda, M.Sagawa: Global histon H3 lysine 4(H3K4)dimethylation is an important prognostic factor in lung adenocarcinoma, American Thoracic Society International Conference 2014, (SanDiego, '14.05).
- 0415I002 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, Y.Ueda, T.Sakuma: Diffusion-Weighted magnetic resonance imaging(DWI)signal intensity and distribution represents the amount of cancer, American Thoracic Society International Conference 2014, (SanDiego, '14.05).
- 0415I003 M.Tanaka, Y.Ueda, M.Shimasaki, M.Ueno, Y.Machida, N.Motono, K.Usuda, M.Sagawa, T.Sakuma: Increased expression of receptor for advanced glycation end products in COPD, ERS Annual Congress 2014, (Munich, '14.09).

0420 Department of General and Digestive Surgery

Faculty

Title	Name	Field of Specialization
Professor	KOSAKA Takeo	Surgical treatment of gastric cancer
Professor	UEDA Nobuhiko	Surgical treatment of hepatobiliary and pancreatic disease
Professor	NOGUCHI Masakuni	Surgery of breast cancer
Associate Professor	OMOTE Kazuhiko	Surgical treatment of gastric cancer
Associate Professor	KINAMI Shinichi	Surgical treatment of gastric cancer
Associate Professor	NAKANO Yasuharu	Surgery of breast cancer
Senior Assistant Professor	FUJITA Hideto	Surgical treatment of gastric cancer,
Senior Assistant Professor	FUNAKI Hiroshi	Surgical treatment of gastric cancer
Senior Assistant Professor	NOGUCHI Miki	Surgery of breast cancer
Assistant Professor	ONISHI Toshio	Surgery of Digestive Diseases
Assistant Professor	ONO Yukako	Surgery of Digestive Diseases, Surgical treatment of breast cancer
Assistant Professor	KAIDA Daisuke	Surgery of Digestive Diseases
Assistant Professor	TOMITA Yasuto	Surgery of Digestive Diseases
Assistant Professor	MORIOKA Emi	Surgery of Digestive Diseases
Assistant Professor		Surgery of Digestive Diseases

Keywords of Research

pancreato-biliary cancer, pattern of tumor invasion, laparoscopic surgery, safe and secure procedure, establishment of the laparoscopic surgery, laparoscopic surgery for malignant disease, surgical procedure, generalization and standardization, functional preserving operation, education and training, engineering and robotics

Outline of Research

- 1 Advanced surgery for gastrointestinal cancer
- 2 Biomarker of gastrointestinal cancer
- 3 Gastrointestinal reconstruction and its evaluation
- 4 Function saving cancer surgery
- 5 Minimally invasive cancer treatment
- 6 Tailored cancer chemotherapy

Publications

Originals

- 0420B001 H.Funaki, S.Miura, E.Morioka, D.Kaida, T.Onishi, Y.Ohno, Y.Tomita, M.Noguchi, H.Fujita, S.Kinami, Y.Nakano, N.Ueda, T.Kosaka: Evaluation of combination chemotherapy with docetaxel and nedaplatin in patients with advanced or recurrent esophageal cancer, *Cancer & chemotherapy*, 41:2384-2386, 2014 (in Japanese) .

Case Reports

- 0420D001 T.Onishi, N.Ueda, T.Kosaka, S.Nakata, H.Minato: A case of intraductal papillary neoplasm of the bile duct (IPNB) that underwent curative resection after follow-up of 1 year 4 months without treatment, 胆道, 28:81-88, 2014 (in Japanese) .
- 0420D002 N.Ueda, D.Kaida, Y.Tomita, T.Onishi, H.Funaki, H.Fujita, S.Kinami, Y.Nakano, T.Kosaka: A patient with invasive carcinoma derived from IPMN who achieved long-term survival despite lymph node metastasis, Cancer & chemotherapy, 41:2202-2204, 2014 (in Japanese) .

Short Communications

- 0420E001 K.Matsunaga, R.Hayashi, T.Otsuka, D.Kaida, N.Ueda, T.Kosaka, T.Arisawa: A case of IgG4-related disease complicated by duodenal bulbitis with IgG4-positive plasma cell infiltration, Endoscopy, 46:E408-E410, 2014.

Others

- 0420F001 S.Kinami, T.Onishi, J.Fujita, E.Morioka, D.Kaida, Y.Tomita, M.Noguchi, H.Funaki, H.Fujita, N.Ueda, Y.Nakano, T.Kosaka, T.Fujimura, T.Ohta: Analysis of patterns of lymphatic flow in gastric cancer located in the upper third region of the stomach for avoiding proximal gastrectomy, Japanese research society of clinical anatomy, 14:56-57, 2014 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0420H001 Y.Tomita, S.Miura, J.Fujita, E.Morioka, D.Kaida, T.Onishi, Y.Ono, M.Noguchi, H.Funaki, H.Fujita, S.Kinami, Y.Nakano, N.Ueda, T.Kosaka, A.Asaka, T.Doumoto, T.Minamoto: Expression and clinical relevance of CRD-BP in colorectal cancer, The 25th Annual Meeting of the Japanese Society for Gastroenterological Carcinogenesis, The 8th International Conference of the International society of Gastroenterological Carcinogenesis, (Fukuoka, '14.11), "The 25th Annual Meeting of the Japanese Society for Gastroenterological Carcinogenesis, The 8th International Conference of the International society of Gastroenterological Carcinogenesis Program&Abstracts".

International Conference (Presentations)

- 0420I001 T.Kosaka, J.Fujita, Y.Tomita, T.Onishi, S.Kinami: A Conversion Gastrectomy for Patients with Initially Unresectable Stage VI Gastric Cancer Provides Survival Benefit., 11th International Conference of the Asian Clinical Oncology Society, (Taipei, '14.05).
- 0420I002 S.Kinami, T.Onishi, J.Fujita, D.Kaida, Y.Tomita, H.Funaki, H.Fujita, N.Ueda, Y.Nakano, T.Kosaka, S.Fushida, T.Fujimura, T.Ohta: The ICG Fluorescence Sentinel Node Mapping for Gastric Cancer - Comparison with Combination Mapping, 11th International Conference of the Asian Clinical Oncology Society, (Taipei, '14.05).
- 0420I003 J.Fujita, S.Kinami, E.Morioka, D.Kaida, Y.Ono, T.Onishi, Y.Tomita, H.Funaki, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka: The Survival Prognosis of the Patients Over 85 Years Old Who Were Suffered from the Gastroenterological Carcinoma and Had the Surgical Resection., 11th International Conference of the Asian Clinical Oncology Society, (Taipei, '14.05).
- 0420I004 Y.Tomita, S.Kinami, S.Miura, J.Fujita, E.Morioka, D.Kaida, T.Onishi, Y.Ono, M.Noguchi, H.Funaki, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka, T.Minamoto: The Expression and the Clinical Role of the CRD-BP, the Transcriptional Target of the β -Catemin in the Wnt Signaling Pathway, in the Colorectal Cancer, 11th International Conference of the Asian Clinical Oncology Society, (Taipei, '14.05).
- 0420I005 T.Shimasaki, N.Ueda, N.Kawada, T.Nomura, K.Yamada, H.Yamada, R.Hayashi, K.Matsunaga, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, H.Shiroeda, T.Kosaka, N.Tomosugi, T.Minamoto, T.Arisawa: Phase I clinical trial of the combination therapy using gemcitabine and GSK3beta inhibiting drugs for gemcitabine-resistant advanced pancreatic cancer patients, Digestive Disease Week 2014, (Chicago, '14.05).

- 0420I006 M.Noguchi, A.Motoyoshi, M.Earashi, H.Fujii: Long-term results of small breast cancer patients treated with radiofrequency ablation and mammotome excision, 18th SIS World Congress on Breast Healthcare, (Orlando, '14.10).
- 0420I007 M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, S.Miura, Y.Nakano, T.Kosaka, N.Kurose, H.Minato: Feasibility study of axillary reverse mapping for patients with clinically node-negative breast cancer, 18th SIS World Congress on Breast Healthcare, (Orlando, '14.10).
- 0420I008 S.Kinami, T.Onishi, H.Fujita, N.Ueda, Y.Nakano, T.Kosaka, S.Fushida, T.Fujimura, T.Ohta: Establishing lymphatic compartments of the stomach: a sentinel node mapping-derived clinical grouping of the regional lymph nodes of the stomach, Asian Joint Congress of Clinical Anatomy. 2nd Congress of Asian Association of Clinical Anatomy. 18th Congress of Japanese Research Society of Clinical Anatomy, (Tokyo, '14.11), Asian Joint Congress of Clinical Anatomy. 2nd Congress of Asian Association of Clinical Anatomy. 18th Congress of Japanese Research Society of Clinical Anatomy Program & Abstracts, 88, 2014.

0430 Department of Orthopaedic Surgery

Faculty

Title	Name	Field of Specialization
Professor	MATSUMOTO Tadami	Hip surgery
Professor	KAWAHARA Norio	Spinal surgery
Professor	KANEUJI Ayumi	Hip and Knee surgery, Sports medicine
Associate Professor	SUGIMORI Tanzo	Hip and Knee surgery, Sports medicine
Associate Professor	ICHISEKI Toru	Hip surgery, Shoulder surgery
Senior Assistant Professor	FUKUI Kiyokazu	Hip surgery
Senior Assistant Professor	HIROMURA Kentaro	Trauma
Senior Assistant Professor	KAWAGUCHI Masahito	Spinal surgery
Assistant Professor	ORITA Yugo	orthopaedic surgery
Assistant Professor	TAKAHASHI Eiji	Hip surgery
Assistant Professor	TAGUCHI Keita	orthopaedic surgery
Assistant Professor	TACHI Yoshiyuki	Spinal surgery
Assistant Professor	NAKAGAWA Shintaro	Hip surgery
Assistant Professor	HATANO Eijyu	Spinal surgery
Assistant Professor	MIKAMI Tomoaki	Hip surgery
Assistant Professor	YASUDA Yoshihito	Spinal surgery
Research Doctor	KANEKO Seiji	Hip surgery
Research Doctor	SOMA Daisuke	orthopaedic surgery
Research Doctor	MIYAUCHI Yukitaka	orthopaedic surgery

Keywords of Research

herniated nucleus pulposus, spondylosis, spondylolysis, spondylolisthesis, degenerative spondylolisthesis, giant cell tumor, coxarthrosis, gonarthrosis, carpal tunnel syndrome, acromioclavicular dislocation, gonarthrosis purulenta, nerve graft, patellar tendon rupture, rheumatoid arthritis, benign chondroblastoma, patella subluxation syndrome, posterior lumbar interbody fusion, osteotomy, lumbar disc decompression, hallux valgus, synovectomy, total hip arthroplasty, tendon suture, humeral shaft fracture, osteonecrosis, spinal cord injury

Outline of Research

There are three types of proximal femur in Japanese hip osteoarthritis patients and we are developing a new femoral prosthesis that would be more suitable for the Japanese patient using a computer aided design system. Additionally we are researching some factors such as an intravascular obstructive lesion or oxidative stress that would be a cause for steroid induced osteonecrosis of femoral head to prevent the occurrence of the disease. Furthermore, regarding digestion of chondroitin sulfate proteoglycans (CSPG) that accumulate at injured site after spinal cord injury, we confirmed that Hyaluronidase-4 is expressed at injured spinal cord. It has been thought that Hyaluronidase-4 is a digestive enzyme of CSPG. In future, we will clarify the mechanism.

Books

- 0430A005 N.Kawahara, K.Tomita, M.Kawaguchi, H.Murakami, T.Matsumoto, H.Tsuchiya: Management of spinal metastasis, Current Progress in Orthopedics 1 (A.Johari, KD.Luk, JP. Waddell, eds), 175-186, TreeLife Media, INDIA, 2014.

Publications

Originals

- 0430B001 (CG.Fisher), R.Schouten, AL.Versteeg, S.Boriani, PP.Varga, LD.Rhines, N.Kawahara, D.Fourney, L.Weir, JJ.Reynolds, A.Sahgal, MG.Fehlings, ZL.Gokaslan: Reliability of the spinal instability neoplastic score (SINS) among radiation oncologists: an assessment of instability secondary to spinal metastases, *Radiat Oncol.*, 9:69;1-7, 2014.
- 0430B002 (S.Kato), H.Murakami, S.Demura, K.Yoshioka, N.Kawahara, K.Tomita, H.Tsuchiya: More than 10-year follow-up after total en bloc spondylectomy for spinal tumors, *Ann. Surg. Oncol.*, 21:1330-1336, 2014.
- 0430B003 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, T.Matsumoto: Retrieval analysis of new-generation yttria-stabilized zirconia femoral heads after total hip arthroplasty, *Eur J Orthop Surg Traumatol.*, 24:1197-1202, 2014.
- 0430B004 (CG.Fisher), AL.Versteeg, R.Schouten, S.Boriani, PP.Varga, LD.Rhines, MK.Heran, N.Kawahara, D.Fourney, JJ.Reynolds, MG.Fehlings, ZL.Gokaslan: Reliability of the spinal instability neoplastic scale among radiologists: an assessment of instability secondary to spinal metastases., *AJR Am. J. Roentgenol.*, 203:869-874, 2014.
- 0430B005 K.Fukui, A.Kaneuji, M.Fukushima, T.Matsumoto: Inversion of the acetabular labrum triggers rapidly destructive osteoarthritis of the hip: Representative case report and proposed etiology, *J. Arthroplasty.*, 29:2468-2472, 2014.
- 0430B008 (T.Hato), J.Kamogawa, N.Kawahara: 3-D MRI/CT fusion imaging for PLIF, *J Spine Res.*, 5:1366-1370, 2014 (in Japanese) .
- 0430B010 (K.Shintani), Y.Adachi, A.Kaneuji, S.Oshima: Study on wear characteristics of artificial hip joint using a 3D type wear simulator, *Japanese Journal of Clinical Biomechanics.*, 35:211-217, 2014 (in Japanese) .

Case Reports

- 0430D001 K.Fukui, A.Kaneuji, M.Fukushima, T.Matsumoto: Imaging and histopathological evaluation of a cystlike formation in subchondral insufficiency fracture of the femoral head: a case report and literature review., *Int J Surg Case Rep.*, 5:324-329, 2014.

Presentations at Conference

International Conference (Key Note Lecture)

- 0430G001 N.Kawahara: Long term FU of TER in Renal Cell Carcinoma Metastasis, 3rd Bologna-Budapest Spine Meeting on Tumor and Osteoporosis, (Budapest, '14.11).

International Conference (Symposium)

- 0430H001 N.Kawahara: Surgical planning versus surgery : Lumbosacral junction, AOSpine Masters Symposium—Surgical Treatment of Spine Tumors, (Budapest, '14.11).

International Conference (Presentations)

- 0430I001 A.Kaneuji, T.Sugimori, T.Ichiseki, K.Fukui, E.Takahashi, T.Matsumoto: Minimum ten-year results of a cementless anatomic total hip femoral component with circumferential porous coating for hips with developmental, Orthopedics today Hawaii 2014, (Maui, '14.01).

- 0430I002 A.Kaneuji, T.Sugimori, T.Ichiseki, K.Fukui, E.Takahashi, S.Ueda, R.Tsuda, T.Matsumoto: Joint preservation rate at 25 years after rotational acetabular osteotomy for development hip dysplasia, American Academy of Orthopaedic Surgeons (AAOS) 2014 Annual Meeting, (New Orleans, '14.03).
- 0430I003 S.Ueda, T.Ichiseki, A.Kaneuji, S.Kaneko, T.Matsumoto: Oxidative stress induced hypoxia in rat model, 17th Biennial Meeting of Society for Free Radical Research International (SFRRRI 2014), (Kyoto, '14.03).
- 0430I004 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocyte in a rat spinal cord hemisection model, CSRS AP5 Viet Nam 2014, (Ho Chi Minh, '14.04).
- 0430I005 T.Sugimori, Y.Tachi, R.Tsuda, A.Kaneuji, T.Matsumoto: Elastic modulus measurement of posterior cruciate ligament in cruciate-retaining total knee arthroplasty, 2014 ICJR Pan Pacific Congress, (Kona, '14.07), "JISRF Reconstructive Review, 4(Sup.1)", 440, 2014.
- 0430I006 K.Fukui, KK.Briggs, CA.Trindade, MJ.Phillppon: Two-year results of arthroscopic treatment using modern technique in the borderline dysplastic hip patients, International Society for Hip Arthroscopy Annual Scientific Meeting 2014 (ISHA 2014), (Rio de Janeiro, '14.10).
- 0430I007 (CA.Trindade), KK.Briggs, K.Fukui, MJ.Phillppon: Relationship between the faber distance test and the radiographic alpha-angle in patients with FAI, International Society for Hip Arthroscopy Annual Scientific Meeting 2014 (ISHA 2014), (Rio de Janeiro, '14.10).
- 0430I008 (CA.Trindade), G.Sawyew, KK.Briggs, K.Fukui, MJ.Phillppon: Arthroscopic reconstruction of the hip capsule: surgical technique, International Society for Hip Arthroscopy Annual Scientific Meeting 2014 (ISHA 2014), (Rio de Janeiro, '14.10).
- 0430I009 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocytes in a rat spinal cord hemisection model, Neuroscience 2014, (Washington,DC, '14.11).

0440 Department of Neurosurgery

Faculty

Title	Name	Field of Specialization
Professor	IIZUKA Hideaki	spinal disease, brain tumor, peripheral nerve disease
Professor	AKAI Takuya	brain tumor, pediatric neurosurgical disease
Professor	TACHIBANA Osamu	brain tumor, hypothalamic and pituitary tumor
Professor	TAKADA Hisashi	cerebrovascular disease
Senior Assistant Professor	OKAMOTO Kazuya	brain tumor, stereotactic radiosurgery
Assistant Professor	SASAGAWA Yasuo	brain tumor
Assistant Professor	SIRAGA Syunsuke	cerebrovascular disease
Research Doctor	TSUKADA Tsuyoshi	general neurosurgery, neuroembryology

Keywords of Research

brain neoplasm, glioma, meningioma, neurinoma, skull base tumor, subarachnoid hemorrhage, cerebral aneurysm, arteriovenous malformation, stroke, radiosurgery, endovascular therapy, microvascular decompression, skull base surgery, spinal surgery, spinal fusion, atlantoaxial dislocation, cervical spondylosis, ossification of the spinal ligament, syringomyelia, spinal dysraphism, spinal neoplasm, spinal injury, neural injury, experimental spinal injury, spinal cord compression, cerebral ischemia

Outline of Research

The purpose of research is to regenerate the damaged neurological function by disclosing the pathogenesis of brain, spinal cord and peripheral nerve diseases. The goal of research is to contribute to improve patient prognosis. For the purpose, the researchers have to find out problems based on their clinical view points and solve those questions. The subjects of disease are brain tumors, spinal diseases, cerebrovascular diseases, head injuries and congenital anomalies.

1. Brain tumor

- 1) development of tumor differentiation induction therapy for malignant gliomas
- 2) disclose the poor prognosis factors in malignant gliomas (by genetic sub classification and protein expression study)
- 3) prediction of treatment results in the stereotactic radiosurgery against metastatic brain tumors (by genetic classification and protein expression study)
- 4) radiological diagnosis of cystic pituitary tumors
- 5) disclose the pathogenesis of secondary hypophysitis

2. Spine and spinal cord disease

- 1) disclose the cord degeneration mechanism by spinal cord compression model
- 2) long term treatment results and affecting factors in spinal surgery

3. Cerebrovascular disease

- 1) disclose the molecular biological mechanism for acquisition of cerebral ischemia

4. Head injury

- 1) operation methods and recurrence in chronic subdural hematoma

5. Congenital anomaly

- 1) treatment of hydrocephalus in fetus model
- 2) disclose the responsible gene and surgical treatment for craniosynostosis

Publications

Originals

- 0440B001 Y.Sasagawa, T.Akai, S.Nakada, H.Minato, O.Tachibana, T.Nojima, H.Iizuka: Narrow band imaging-guided endoscopic biopsy for intraventricular and paraventricular brain tumors:clinical experience with 14 cases, *Acta Neurochir (Wien)*, 156:681-687, 2014.

Case Reports

- 0440D001 (H.Hashimoto), A.Maeda, K.Kumano, T.Kimoto, Y.Fujisawa, T.Akai: Rapid deterioration of primary fourth ventricular outlet obstruction resulting in syndrome of inappropriate antidiuretic hormone secretion, *Pediatr. Int.*, 56:e30-e32, 2014.
- 0440D002 M.Doai, H.Tonami, N.Tsuchiya, T.Akai, N.Kurose, K.Hirata: 1H-MR spectroscopy in a case of isolated intracranial rosai-dorfman disease, *J Neurol Sci Turk*, 31:790-795, 2014.

Presentations at Conference

International Conference (Presentations)

- 0440I001 Y.Sasagawa, T.Akai, O.Tachibana, H.Iizuka: Diagnostic value of interleukin-10 in cerebrospinal fluid for diffuse large B-cell lymphoma of the central nervous system, *The 15th European congress of Neurosurgery Annual Meeting, (Prague, '14.10)*.

0450 Department of Plastic and Reconstructive Surgery

Faculty

Title	Name	Field of Specialization
Professor	KAWAKAMI Shigehiko	Plastic and Reconstructive Surgery
Associate Professor	SHIMADA Kenichi	Plastic and Reconstructive Surgery
Senior Assistant Professor	KISHIBE Miyuki	Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
Assistant Professor	YAMAMOTO Yasunori	Plastic and Reconstructive Surgery
Assistant Professor	KOMURO Akito	Plastic and Reconstructive Surgery
Assistant Professor	KADOHIRA Mitsuhiro	Plastic and Reconstructive Surgery
Assistant Professor	KANEKO Takayoshi	Plastic and Reconstructive Surgery
Assistant Professor	KAMIMURA Yuri	Plastic and Reconstructive Surgery
Assistant Professor	KOIZUMI Naoko	Plastic and Reconstructive Surgery
Assistant Professor	SUGISHITA Kazuyuki	Plastic and Reconstructive Surgery
Assistant Professor	DAIZO Haruhisa	Plastic and Reconstructive Surgery
Assistant Professor	TAGUCHI Hisao	Plastic and Reconstructive Surgery
Assistant Professor	DOI Yujin	Plastic and Reconstructive Surgery
Assistant Professor	YAMASHITA Akiko	Plastic and Reconstructive Surgery
Assistant Professor	NISHIBU Yasuhiro	Plastic and Reconstructive Surgery
Assistant Professor	HIMI Yuji	Plastic and Reconstructive Surgery
Assistant Professor	MIYANAGA Toru	Plastic and Reconstructive Surgery
Assistant Professor	YAGISHITA Mikio	Plastic and Reconstructive Surgery

Keywords of Research

fibroblasts, FGF receptor, pressure ulcer, TGF- β , TGF- β receptor, keratinocytes, wound healing, craniofacial surgery, zygoma, cleft lip, cleft palate, microtia, tissue expansion, craniofacial cleft, orbital advancement, microsurgery, free flap, medial pedicle flap, adipofascial turnover flap, burn reconstruction, burn wound management, MRI in congenital anomaly

Outline of Research

- 1) Wound healing
Promoting effects of wound dressings or drugs in wound healing process are studied clinically.
- 2) Tissue engineering
Regeneration of the skin and subcutaneous tissue using artificial materials are studied clinically and experimentally
- 3) Cranio-maxillo-facial surgery
New operative procedures in cranio-maxillo-facial fields are attempted to develop.

Publications

Originals

- 0450B001 M.Yamashita, H.Daizo, K.Shimada: Three-dimensional computed tomography venography as a guide for cranioplasty in parietal cephalocele, *J. Craniofac. Surg.*, 25:224-225, 2014.
- 0450B002 M.Yamashita, A.Nishio, H.Daizo, M.Kishibe, K.Shimada: Repair of orbital fracture:the antral balloon with implantable reservoir technique, *J. Craniofac. Surg.*, 25:554-556, 2014.
- 0450B003 M.Yamashita, M.Kishibe, K.Shimada: Incidence of lower eyelid complications after a transconjunctival approach: influence of repeated incisions., *J. Craniofac. Surg.*, 25:1183-1186, 2014.
- 0450B004 A.Nishio, M.Yamashita, K.Shimada: The surgical indication for linear orbital floor fractures, *日頭顎顔会誌*, 30:27-35, 2014 (in Japanese) .

Case Reports

- 0450D001 M.Yamashita, A.Nishio, H.Daizo, M.Kishibe, K.Shimada: Intraoperative acquired pressure ulcer on lower lip: a complication of rhinoplasty, *J. Craniofac. Surg.*, 25:e3-e4, 2014.
- 0450D002 A.Komuro, Y.Doi, K.Shimada: A Case of heat press injury of the foot caused by a plastic extruding machine, *Japanese journal of burn injuries.*, 40:51-58, 2014 (in Japanese) .
- 0450D003 I.Chikazawa, D.Nakai, M.Morita, H.Tachibana, T.Tanaka, K.Miyazawa, M.Kishibe, Y.Kamimura, E.Kinoshita, N.Kurose: Skin and lung metastasis from renal cell carcinoma 23 years after radical nephrectomy—a case report-, *Jpn. J. Cancer Clin.*, 60:537-542, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0450I001 S.Kawakami, M.Yamashita: Aesthetic Osteotomy for Jaw Deformity, *Aesthetic Plastic Surgery 2014*, (Korea, '14.04).
- 0450I002 K.Shimada, M.Kishibe, S.Kawakami: Clinical experience of NPWT (VAC and RENASYS) in our department:Tips and ideas for its use with artificial dermis, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I003 M.Yamashita, S.Kawakami: Role of spreader grafts in open septorhinoplasty, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I004 H.Daizo, K.Shimada, M.Kishibe, S.Kawakami: Investigation into the symmetrical outcome of two primary breast reconstruction methods, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I005 Y.Kamimura, T.Miyanaga, S.Kawakami: Maggot debridement therapy for the wound bed preparation of chronic ulcers treatment, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I006 M.Kishibe, K.Shimada, S.Kawakami: The problem and limit of treatment for frontalis muscle palsy, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I007 K.Sugishita, A.Nishio, M.Kishibe, S.Kawakami: Treatment with platelet-rich plasma (PRP) for chronic skin ulcers, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).
- 0450I008 A.Nishio, M.Yamashita, R.Taguchi, K.Shimada, S.Kawakami: Pediatric orbital floor fracture, *The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery*, (Korea, '14.05).

- 0450I009 T.Miyanaqa, K.Shimada, M.Kishibe, H.Daizo, A.Komuro, S.Kawakami: Reconstruction of syndactyly with bony attachments in Apert syndrome using perifascial areolar tissue (PAT) graft, The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery, (Korea, '14.05).
- 0450I010 Y.Ikawa, H.Daizo, S.Kawakami: Deep vein thrombosis and pulmonary thromboembolism in burn patients, The 12th Korea-Japan Congress of Plastic and Reconstructive Surgery, (Korea, '14.05).

0460 Department of Pediatric Surgery

Faculty

Title	Name	Field of Specialization
Professor	KOHNO Miyuki	Pediatric surgery, Pediatric endoscopic surgery, Pediatric urology
Professor	IKAWA Hironichi	Pediatric surgery, Defecatory function, Liver transplantation
Assistant Professor	OSHIKIRI Takahiro	Pediatric surgery
Assistant Professor	KUWAHARA Tsuyoshi	Pediatric surgery
Assistant Professor	TAKAHASHI Sadayoshi	Pediatric surgery
Research Doctor	SHIRONOMAE Tsubasa	Pediatric surgery
Research Doctor	NISHIDA Shoichi	Pediatric surgery
Research Doctor	FUKUNAGA Kenji	Pediatric surgery

Keywords of Research

inguinal hernia, hydrocele of the cord, acute abdomen, quality of life, endoscopy, congestive gastroenteropathy, biliary atresia, epidemiology, spontaneous cure, prevalence, neonatal surgery, vesicoureteral reflux, urostoma, intravenous hyperalimentation, hydrocele testis, cryptorchism, appendicitis, anorectal malformation, endoscopic surgery, gastro-esophageal reflux, liver transplantation, pediatric surgical common disease, natural history, pediatric solid malignant tumor, pediatric urology, phimosis, intestinal stoma

Outline of Research

Hemodynamic evaluation of PDA flow to decide the optical timing for radical operation of congenital diaphragmatic hernia.
The importance of rectal branch to induce high amplitude propagated colonic contraction.
Clinical study of pediatric endoscopic surgery.
Histochemical study of extracellular matrices which accelerate the hepatic fibrosis of biliary atresia.

Publications

Originals

- 0460B001 Y.Yasui, M.Kohno, T.Shironomae, T.Kuwahara, D.Takahashi, T.Oshikiri: Anal canal plastic surgery for fecal incontinence after transanal endorectal pull-through for hirschsprung disease, Journal of the Japanese Society of Pediatric Surgery., 50:1022-1028, 2014 (in Japanese) .

Case Reports

- 0460D004 T.Kuwahara, S.Nishida, K.Fukunaga, S.Takahashi, T.Oshikiri, M.Kohno: Thyroglossal duct cyst in the base of the tongue, Japanese journal of pediatric surgery ; Shoni geka., 46:1201-1204, 2014 (in Japanese) .
- 0460D005 H.Fukumoto, M.Kohno, T.Kuwahara, S.Takahashi, T.Oshikiri, Y.Yasui: Case of congenital chylous ascites in which lymphatic scintigraphy was effective for determining the course of treatment, Journal of the Japanese Society of Pediatric Surgery., 50:1119-1122, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0460I001 T.Miyazawa, T.Miwa, H.Tsuji, Y.Suzuka, M.Kohno, Y.Yasui: Laryngotracheal separation for type III Laryngotracheoesophageal cleft with congenital heart disease, The 31st Congress of the Pan-Pacific Surgical Association Japan Chapter in Tapei, Taiwan, (Taipei, '14.10).

0470 Department of Ophthalmology

Faculty

Title	Name	Field of Specialization
Professor	SASAKI Hiroshi	cataract, epidemiology, uveitis
Professor	KUBO Eri	cataract, oxidative stress and eye disease, diabetic eye complication
Professor	KITAGAWA Kazuko	ocular infection, Sjogren's syndrome, keratoconjunctivitis sicca, lacrimal fluid, proteomics
Professor(Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology
Associate Professor	FUKUDA Masamichi	ocular pharmacology, intraocular, penetration
Senior Assistant Professor	KAWAKAMI Yutaka	lacrimal fluid
Assistant Professor	FUJITA Nobuyuki	uveitis
Assistant Professor	SHIBATA Shinsuke	cataract, ophthalmology
Assistant Professor	OSADA Hiromi	cataract, ophthalmology
Assistant Professor	SHIBATA Naoko	cataract, ophthalmology
Assistant Professor	HATSUSAKA Natsuko	ophthalmological optics
Assistant Professor	TAKAHASHI Yoriko	cataract
Assistant Professor	ARIMOTO Atsushi	macular degeneration

Keywords of Research

proteomics, cataract classification, corneal epithelium, crystallin lens, dry eye, glaucoma, image analysis, lens sectioning technique, melanin, ocular toxicology, Scheimpflug photography, tear secretion, UV-B, UV-induced ocular disease, UV-dosimetry, lens organ culture, age related cataract, cataract epidemiology, cytotoxicity, fluoroquinolone, herpetic keratitis, intraocular drug dynamics, lens epithelium, light scattering, retroillumination image, Sjogren's syndrome, threedimensional image, V-E, intraocular lens(IOL), cell culture

Outline of Research

There are five major themes for research in our department including: 1) ophthalmic epidemiology, 2) clinical research for crystalline lens and intraocular lens (IOL), 3) basic research of cataract, 4) clinical research for keratoconjunctival diseases and 5) ophthalmic pharmacology. Concerning 1), we have performed epidemiological studies in climatically different places (Ishikawa and Kagoshima, Japan, Singapore, Iceland and China). These studies have included prevalence, incidence and risk factors of cataract, pterygium, high myopia, glaucoma and age-related macular degeneration. For 2), we have worked on image analysis of the crystalline lens, drew up a new classification system for cataract, and done research on visual performance in cataractous eye and IOL. Regarding 3), we have evaluated effects of anti-cataractous drugs using animal models and also investigated the mechanism of posterior capsular opacity (PCO). Development of a preventative drug for PCO is undergoing. Considering 4), a new precise and simple technique for diagnosis of Sjogren's syndrome using proteomics of tears is under development. Clinical research for diagnosis and treatment for ophthalmic infective diseases is also underway. And for 5), ocular dynamics of eye drops, effectiveness and toxicity of eye drops, and a new method for measuring corneal damage in vivo are all being investigated.

Publications

Originals

- 0470B001 (B.Chhunchha), N.Fatma, E.Kubo, DP.Singh: Aberrant sumoylation signaling evoked by reactive oxygen species impairs protective function of Prdx6 by destabilization and repression of its transcription, *FEBS J.*, 281:3357–3381, 2014.
- 0470B002 N.Mita, H.Sasaki, K.Kani, A.Tabuchi, H.Hara: Multiple comparisons for a psychophysical test in bootstrap logistic regression, *J Algorithm Comput Technol.*, 8:339–355, 2014.
- 0470B003 (N.Hamada), Y.Fujimichi, T.Iwasaki, N.Fujii, M.Furuhashi, E.Kubo, T.Minamino, T.Nomura, H.Sato: Emerging issues in radiogenic cataracts and cardiovascular disease, *J. Radiat. Res.*, 55:831–846, 2014.
- 0470B004 (K.Sasaki), T.Sakai, T.Nagaoka, K.Wake, S.Watanabe, M.Kojima, N.Hasanova, H.Sasaki, K.Sasaki, Y.Suzuki, M.Taki, Y.Kamimura, A.Hirata, H.Shirai: Dosimetry using a localized exposure system in the Millimeter-Wave band for in vivo studies on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 62:1554–1564, 2014.
- 0470B005 A.Arimoto, K.Kitagawa, N.Mita, Y.Takahashi, E.Shibuya, H.Sasaki: Effect of rebamipide ophthalmic suspension on signs and symptoms of keratoconjunctivitis sicca in sjogren syndrome patients with or without punctal occlusions, *Cornea*, 33:806–811, 2014.
- 0470B006 (T.Tokutake), T.Yamauchi, N.Mita, Ken-ichiro Kawamoto, H.Tabuchi, K.Kani, H.Hara, A.Tabuchi, H.Sasaki: Pepeatability of visua acuity testing using a psychometric function, *Jpn. J. Ophthalmol.*, 58:381–387, 2014.
- 0470B007 N.Hatsusaka, K.Sasaki, Y.Kawakami, M.Sasaki, H.Sasaki: Evaluation of casey eye Institute camera for photographic documentation of opaque crystalline lens, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 68:1413–1420, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0470I001 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh: Tropomyosi: Its relationship to posterior capsule opacity, *International Conference on the Lens*, (Hawaii, '14.01).
- 0470I002 H.Sasaki, N.Hatsusaka, N.Shibata, S.Shibata, Y.Kurihara, CY.Tsai, E.Kubo: Comparison of ocular UV exposure by facial contour, *International Conference on the Lens*, (Hawaii, '14.01).
- 0470I003 N.Hatsusaka, N.Shibata, S.Shibata, N.Fujita, H.Osada, E.Kubo, H.Sasaki: Correlation of UV eposure dose between top of head and eye, *International Conference on the Lens*, (Hawaii, '14.01).
- 0470I004 M.Kojima, CY.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Lens damage induced by 40 GHz millimeter wave, *International Conference on the Lens*, (Hawaii, '14.01).
- 0470I005 T.Shibata, S.Shibata, E.Kiyokawa, H.Sasaki, E.Kubo: Tropomyosi: Inhibition of progression of sugar cataract in galactose-fed rats and induction of anti-oxidant protein, Peroxiredoxin 6, *International Conference on the Lens*, (Hawaii, '14.01).
- 0470I006 (P.Steinkamp), K.Sasaki, N.Hatsusaka, F.Fraunfelder, H.Sasaki: Correlating retroillumination images of lens opacity subtype with the change in vision, *World Ophthalmology Congress of the International Council of Ophthalmology*, (Tokyo, '14.04).
- 0470I007 N.Mita, H.Osada, N.Shibata, E.Kubo, H.Sasaki: Influential factors in transparent crystalline lens accommodation, *World Ophthalmology Congress of the International Council of Ophthalmology*, (Tokyo, '14.04).
- 0470I008 A.Okamoto, M.Sasaki, Y.Takahashi, E.Kubo, H.Sasaki: Correlation between axial length and visual function of eye with aspheric IOL, *World Ophthalmology Congress of the International Council of Ophthalmology*, (Tokyo, '14.04).

- 0470I009 E.Shibuya, M.Takahashi, M.Sasaki, A.Okamoto, H.Sasaki: Pupil diameter size and visual function in eyes with multifocal intraocular lens, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I010 M.Takahashi, H.Osada, S.Enta, M.Sasaki, H.Sasaki: Correlation between visual acuity and contrast acuity by type of lens opacity, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I011 (M.Tamura), N.Hatsusaka, Y.Sakamoto, H.M.Cheng, H.Sasaki: Regional differences in factors for ocular refraction related to myopia progression among teenagers living in east asia, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I012 N.Hatsusaka, Y.Sakamoto, K.Sasaki, E.Kubo, H.Sasaki: 10 years change in corneal astigmatism with aging, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I013 M.Fukuda, S.Shibata, H.Osada, E.Kubo, H.Sasaki: Delayed corneal wound healing resulting from the administration of fluoroquinolone antibacterial ophthalmic solutions and its causes, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I014 H.Sasaki, N.Hatsusaka, N.Fujita, S.Shibata, E.Kubo: Relationship between UV index and ocular UV-B exposure, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 0470I015 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, D.P.Singh: Tropomyosin regulation of stress fiber formation and EMT in lens epithelial cells, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 0470I016 S.Shibata, D.P.Singh, N.Shibata, H.Sasaki, E.Kubo: Hyperglycemia- and oxidative stress-induced hyperoxidation of Prdx 6 during lens epithelial cell damage and rat lens opacity in vitro and in vivo, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 0470I017 N.Shibata, K.Sasaki, N.Yamanaka, N.Hatsusaka, H.Sasaki: Applicability of detecting auto fluorescence as early sign of pinguecula, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 0470I018 H.Sasaki, N.Hatsusaka, N.Shibata, S.Shibata, Y.Kurihara, C.Y.Tsai, E.Kubo: Influence of difference between asian and western facial contours on ocular UV exposure, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 0470I019 (J.Chakarothai), M.Kojima, Kensuke Sasaki, K.Wake, Y.Suzuki, M.Taki, S.Watanabe: Millimeter-wave power absorbed into rabbit eye due to different exposure environments, EMC2014, (Tokyo, '14.05).
- 0470I020 M.Kojima, C.Y.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, M.Taki, K.Sasaki, H.Sasaki: Millimeter wave exposure induces cornea and lens epithelium damage, BioEM2014, (Cape Town, '14.06).
- 0470I021 C.Y.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: 75 GHz millimeter wave exposure to eye: role of environment factors in effects, BioEM2014, (Cape Town, '14.06).
- 0470I022 C.Y.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: Effect of relative Humidity during 40 GHz millimeter wave exposure, 31th URSI General Assembly and Scientific Symposium, (Beijing, '14.08).
- 0470I023 H.Sasaki, N.Hatsusaka, M.Takahashi, N.Shibata, Y.Takahashi, K.Sasaki, E.Kubo: 10 years change in refractive power of crystalline lens and relationship with opacification type in eyes with water clefts, XXXII Congress of the ESCRS, (London, '14.09).
- 0470I024 M.Kojima, C.Y.Tsai, T.Okuno, K.Sasaki, K.Sasaki, H.Sasaki: Ocular temperature measurements during infrared or millimeter wave exposure, 39th International Conference on Infrared, Millimeter, and THz Waves, (Tucson, '14.09).
- 0470I025 E.Kubo: Risk and benefit of supplement for vision and eye health, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I026 H.Sasaki, N.Mita, N.Hatsusaka, M.Takahashi, E.Shibuya, M.Sasaki, S.Enta, Y.Takahashi, T.Shibata, K.Sasaki, E.Kubo: Visual function of eyes by five types of lens opacities, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).

- 0470I027 H.Osada, N.Hatsusaka, E.Shibuya, M.Sasaki, M.Takahashi, A.Nakano, E.Kubo, T.Abe, K.Tsubota, H.Sasaki: Data-analysis pre-study of initial lenticular findings in emergency workers at Tokyo Electric Power Fukushima Nuclear Power Plant, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I028 K.Kitagawa, N.Shibata, Y.Takahashi, K.Hagiwara, H.Sasaki: Adverse effects of topical anti-glaucomatous agents in patients with severe dry eye, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I029 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Sasaki, H.Sasaki: Effects of environmental factors during millimeter wave exposure, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I030 M.Kojima, CY.Tsai, Y.Suzuki, T.Okuno, Kensuke Sasaki, K.Sasaki, H.Sasaki: Ocular temperature measurements during electromagnetic exposure, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I031 M.Fukuda, K.Sasaki, H.Sasaki: Cytotoxic effects of 4 OTC ophthalmic solutions on cultured rabbit corneal cell line, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I032 A.Arimoto, K.Nagai, R.Honda, H.Osada, S.Shibata, T.Shibata, E.Kubo, H.Sasaki: Lens pathological change after intravitreal injection of bevacizumab, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I033 S.Shibata, K.Kitagawa, T.Shibata, N.Shibata, K.Hagihara, H.Sasaki: Eye disorders associated with colored contact lenses: 3 case studies, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I034 N.Hatsusaka, H.Sasaki: Measurement of ocular UV exposure with mannequin UV sensors, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I035 N.Mita, N.Hatsusaka, E.Shibuya, M.Sasaki, S.Enta, Y.Takahashi, T.Shibata, K.Sasaki, E.Kubo, H.Sasaki: Visual function of cataract sub-types, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 0470I036 N.Shibata, K.Sasaki, N.Hatsusaka, N.Yamanaka, H.Sasaki: Auto-fluorescence is an early sign of developing pinguecula, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).

0475 Department of Otorhinolaryngology

Faculty

Title	Name	Field of Specialization
Professor	MIWA Takaki	Otorhinolaryngology, Head and Neck Surgery
Professor	SUZUKA Yuko	Otology, Audiology, Equilibrium, Neuro-otology, phonation, Medical education
Associate Professor	SHIGA Hideaki	Rhinology, Olfactory disorders
Senior Assistant Professor	MIYAZAWA Toru	Otorhinolaryngology
Senior Assistant Professor	TERAGUCHI Kanako	Rhinology, general otology
Assistant Professor	KINOSHITA Yuko	Otorhinolaryngology
Assistant Professor	YAMAMOTO Junpei	General otorhinolaryngology, Olfactory disorders
Assistant Professor	NODA Takuya	General otorhinolaryngology
Assistant Professor	YAMADA Kentaro	General otorhinolaryngology

Keywords of Research

olfactory disorder, molecular imaging, virtual education for endoscopic nasal surgery, navigation surgery, audiology, sleep apnea & snore surgery

Outline of Research

Basic and clinical research for diagnosis and treatment of olfactory disorders
(Miwa, Shiga, Yamada K, Yamamoto, Yamada K, Noda, Harita)
New educational system for endoscopic sinus surgery
(Miwa, Shiga, Yamada K)
Auditory central functional imaging with MEG
(Suzuka, Yamada K)
Clinical research for snore and sleep apnea
(Miwa, Sakai)

Publications

Originals

- 0475B001 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, Y.Kuginuki, T.Miwa, H.Tonami: Fractional change in apparent diffusion coefficient as an imaging biomarker for predicting treatment response in head and neck cancer treated with chemoradiotherapy, *AJNR Am J Neuroradiol.*, 35:379-385, 2014.
- 0475B002 (S.Kawabata), CT.Chiang, J.Tsurutani, H.Shiga, ML.Arwood, T.Komiya, JJ.Gills, RM.Memmott, PA.Dennis: Rapamycin downregulates thymidylate synthase and potentiates the activity of pemetrexed in non-small cell lung cancer., *Oncotarget.*, 5:1062-1070., 2014.
- 0475B003 H.Shiga, M.Nagaoka, K.Washiyama, J.Yamamoto, K.Yamada, T.Noda, M.Harita, R.Amano, T.Miwa: Reduced nasal transport of insulin-like growth factor-1 to the mouse cerebrum with olfactory bulb resection., *Chem. Senses*, 39:595-599, 2014.
- 0475B004 H.Shiga, J.Yamamoto, M.Kitamura, H.Nakagawa, T.Matsubasa, A.Seo, T.Miwa: Combinations of two odorants of smell identification test for screening of olfactory impairment., *Auris Nasus Larynx*, 41:523-527, 2014.

- 0475B006 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. Med. Univ., 39:67-74, 2014 (in Japanese) .

Reviews

- 0475C009 H.Shiga: Post-traumatic olfactory impairment, Journal of Japan Association on Odor Environment, 45:278-281, 2014 (in Japanese) .
- 0475C017 T.Miwa: Olfactory function test-present status and future prospects-, Pract. otol., 107:849-857, 2014 (in Japanese) .

Presentations at Conference

International Conference (Key Note Lecture)

- 0475G001 Y.Suzuka: Development of Hearing Devices, The 31st Congress of the Pan-Pacific Surgical Association Japan Chapter in Taipei, Taiwan, (Taipei, '14.10).

International Conference (Presentations)

- 0475I001 H.Shiga, M.Nagaoka, K.Washiyama, J.Yammoto, K.Yamada, T.Noda, M.Harita, R.Amano, T.Miwa: Olfactory transport is necessary for nasally administered insulin-like growth factor-I to increase phosphorylation of extracellular signal-regulated kinase 1/2 in the cerebrum of mice., The 36th annual meeting of the Association for Chemoreception Sciences, (Bonita Springs, '14.04).
- 0475I002 (M.Higuchi), Y.Suzuka, D.Oyama, G.Uehara: Comparison of EEG and MEG coherence functions between a brain signal and a sound envelope in a selective listening study, 19th International Conference on Biomagnetism, (Halifax, '14.08).
- 0475I003 Y.Suzuka, M.Higuchi, D.Oyama, G.Uehara: An MEG study of the cocktail-party effect using the coherence function between brain signal and a sound envelope, 19th International Conference on Biomagnetism, (Halifax, '14.08).
- 0475I004 H.Shiga, J.Taki, K.Okuda, N.Watanabe, H.Tonami, S.Kinuya, M.Furukawa, T.Miwa: Assessment of peripheral olfactory nerve image in patients with idiopathic olfactory impairments in comparison to healthy volunteers., European Chemoreception Research Organization 2014, (Dijon, '14.09).
- 0475I005 T.Miwa, J.Yamamoto, K.Teraguchi, Y.Kinoshita, K.Yamada, T.Noda, M.Harita, H.Shiga, E.Sugiyama, K.Ono, M.Kawai: Changes in smell and taste function in the elderly, European Chemoreception Research Organization 24th Congress, (Dijon, '14.09).
- 0475I006 M.Harita, K.Yamada, J.Yamamoto, K.Teraguchi, T.Miyazawa, H.Shiga, Y.Suzuka, T.Miwa: Outcomes of olfactory function after endoscopic sinus surgery for eosinophilic chronic sinusitis, The 31st Congress of the Pan-Pacific Surgical Association Japan Chapter in Taipei, Taiwan, (Taipei, '14.10).
- 0475I007 T.Miyazawa, T.Miwa, H.Tsujii, Y.Suzuka, M.Kohno, Y.Yasui: Laryngotracheal separation for type III Laryngotracheoesophageal cleft with congenital heart disease, The 31st Congress of the Pan-Pacific Surgical Association Japan Chapter in Taipei, Taiwan, (Taipei, '14.10).
- 0475I008 T.Miwa, J.Yamamoto, K.Teraguchi, Y.Kinoshita, K.Yamada, T.Noda, M.Harita, H.Shiga, E.Sugiyama, K.Ono, M.Kawai: Changes in smell and taste function in the elderly, Clinical Chemosensation 2014, (Dresden, '14.11).
- 0475I009 M.Harita, K.Yamada, T.Noda, K.Teraguchi, H.Shiga, T.Miwa: Predictors of olfactory dysfunction in chronic rhinosinusitis, Clinical Chemosensation 2014, (Dresden, '14.11).

0485 Department of Head and Neck Surgery

Faculty

Title	Name	Field of Specialization
Professor	TSUJI Hiroyuki	Head and neck oncology, Head and neck surgery
Senior Assistant Professor	SHIMODE Yuzo	Head and neck oncology, surgery, Thyroid gland tumor research
Assistant Professor	TSUTSUMIUCHI Toshiki	General otorhinolaryngology

Keywords of Research

head and neck cancer, deglutition functional disorder, lymph node dissection, thyroid papillary carcinoma, fine needle aspiration cytology, chemoradiotherapy

Outline of Research

Development of surgical procedure for severe dysphagia (Tsuji, Shimode)
New system for fine needle aspiration cytology in the medical equipment field by industry-academia-government cooperation (Tsuji, Shimode)
Clinical study of cervical lymph node metastasis from thyroid carcinoma and the applicate of neck dissection (Tsuji, Shimode)
Clinical study to evaluate response to chemoradiotherapy in lymph node metastasis (Tsuji, Shimode)

Publications

Originals

- 0485B001 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, Y.Kuginuki, T.Miwa, H.Tonami: Fractional change in apparent diffusion coefficient as an imaging biomarker for predicting treatment response in head and neck cancer treated with chemoradiotherapy, *AJNR Am J Neuroradiol.*, 35:379-385, 2014.
- 0485B002 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, N.Watanabe, H.Tonami: Ability of diffusion-weighted MRI and 18F-FDG-PET/CT as predictors of clinical outcome in chemoradiotherapy for head-and-neck cancer, *Jpn. j. clin. Radiol.*, 59:720-727, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0485I001 T.Miyazawa, T.Miwa, H.Tsuji, Y.Suzuka, M.Kohno, Y.Yasui: Laryngotracheal separation for type III Laryngotracheoesophageal cleft with congenital heart disease, The 31st Congress of the Pan-Pacific Surgical Association Japan Chapter in Taipei, Taiwan, (Taipei, '14.10).
- 0485I002 H.Nagata, M.Matoba, O.Yamashita, C.Masu, M.Sawano, M.Yamada, M.Kawashima, H.Tsuji, H.Tonami: Evaluation of metastatic cervical lymph nodes using adaptive 4D volume perfusion CT in patients with head and neck squamous cell carcinoma, *Radiological Society of North America*, (Chicago, '14.11).

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
Professor	MOCHIZUKI Takashi	Medical mycology, Dermatormycosis
Associate Professor	NISHIBU Akiko	Immunology
Associate Professor	WATANABE Seiji	Medical mycology
Senior Assistant Professor	ABE Shinya	Skin tumor and growth factors
Senior Assistant Professor	TAKEDA Kiminobu	Medical mycology
Senior Assistant Professor	ISHIZAKI Yasuko	Dermatopathology, cutaneous malignant tumor
Senior Assistant Professor	FUJII Toshiki	Dermatopathology
Assistant Professor	ANZAWA Kazushi	Medical mycology
Assistant Professor	USHIGAMI Tsuyoshi	Medical mycology
Assistant Professor	SHIMADA Toshitsugu	Dermatology
Research Doctor	KITAYAMA Asuka	cutaneous malignant tumor
Research Doctor	KOJIMA Kiyoto	genetic diagnosis
Research Doctor	NANBU Masayuki	Dermatopathology
Research Doctor	HATTA Jyunko	Image analysis
Research Doctor	WATANABE Junko	Medical mycology

Keywords of Research

fungi, dermatophytes, *Candida* species, *Sporothrix* species, dematiaceous fungi, mitochondrial DNA, ribosomal DNA, phylogeny, taxonomy, molecular epidemiology, molecular typing, electron microscopy, dermatopathology, skin tumor, immunopathology, immunology, langerhans cell

Outline of Research

Research activities in the Department of Dermatology are mainly in the fields of cutaneous mycosis and medical mycology. We introduced a nail drilling method for onychomycosis, to improve the methods of sampling, diagnosis and treatment by antimycotics. For tinea capitis and tinea corporis spreading over wrestling, judo and sumo wrestlers, we support dermatologists for identifying the causative fungi, *Trichophyton tonsurans*, and collect the nationwide epidemiological data. We try to find an effective infection control system combining with a hairbrush sampling method and antimycotics to the epidemics.

In the field of basic mycology, a new technique based on the analysis of intergenic regions of certain genomes are found to be useful to detect intra-species variations of *T. mentagrophytes*. Besides, the other aim of our research is to disclose the phylogenetic relationships of *Trichophyton* species based on multi-locus gene analysis and mating tests, and to understand those species as they are.

In the most recent years, we began to study the pathophysiology of deep tissue injury, which is an uncommon clinical type of decubitus after surgical operations.

Publications

Originals

- 0490B001 (K.Yoshimura), N.Ishii, T.Hamada, T.Abe, F.Ono, K.Hashikawa, S.Fukuda, B.Ohyama, H.Koga, R.Sogame, K.Teye, T.Ochiai, H.Nakajima, K.Nakajima, S.Iijima, M.Kanzaki, K.Kojima, T.Nagatani, W.Fujimoto, T.Karashima, T.Nakama, C.Ohata, M.Furumura, D.Tsuruta, T.Hashimoto: Clinical and immunological profiles in 17 Japanese patients with drug-induced pemphigus studied at Kurume University, *Br. J. Dermatol.*, 171:544–553, 2014.
- 0490B002 T.Iwanaga, K.Anzawa, T.Mochizuki: Quantification of dermatophyte viability for evaluation of antifungal effect by quantitative PCR, *Mycopathologia*, 177:241–249, 2014.
- 0490B003 (R.Kano), E.Yoshida, T.Yaguchi, V.Hubka, K.Anzawa, T.Mochizuki, A.Hasegawa, H.Kamata: Mating type gene (MAT1-2) of *Trichophyton verrucosum*, *Mycopathologia*, 177:87–90, 2014.

Case Reports

- 0490D004 K.Takeda, K.Anzawa, T.Mochizuki: A case of thermal burn on the extensor surface of forearm caused by a smartphone, *The Japanese Journal of Dermatology*, 124:1149–1151, 2014 (in Japanese) .
- 0490D005 (A.Takeuchi), Y.Hamaguchi, M.Fujimoto, K.Takehara, K.Anzawa, T.Mochizuki: A case of deep cutaneous mycosis by *Scedosporium apiospreum* in a pemphigus foliaceus patient under immunosuppressive condition, *The Japanese Journal of Dermatology*, 124:1135–1140, 2014 (in Japanese) .
- 0490D006 M.Nanbu, K.Kojima, J.Hatta, K.Takeda, T.Fujii, H.Tanabe, T.Mochizuki: A case of erosive pustular dermatosis of the scalp fairly well improved by topical application of corticosteroid, *Skin research*, 13:189–193, 2014 (in Japanese) .
- 0490D007 (S.Urano), Y.Suzuki, K.Anzawa, T.Ohishi, S.Kuroishi, N.Itoh, T.Okada, T.Mochizuki: Phaeomycotic cyst caused by *Exophiala xenobiotica* in a patient with rheumatoid arthritis and lung cancer, *Med. Mycol. J.*, 55:151–156, 2014 (in Japanese) .
- 0490D009 K.Ikemura, T.Fujii, S.Abe, T.Mochizuki, Y.Oikawa: The first case of *Amblyomma testudinarium* tick bite in Ishikawa prefecture, Japan, *J. Kanazawa. Med. Univ.*, 39:42–44, 2014 (in Japanese) .

Others

- 0490F001 (M.Maeda), H.Iwata, A.Nakatani, K.Anzawa, T.Mochizuki: A girl infant case of tinea capitis, *Annual of Gifu Prefectural General Medical Center*, 35:17–20, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0490I001 T.Mochizuki: Outbreaks of an epidemic of *Trichophyton tonsurans* infection in Japan, *Taiwanese Dermatological Association Spring Meeting 2014*, (Kaohsiung, '14.05).
- 0490I002 T.Mochizuki: What's new in 2014: What's new in fungal skin diseases, *Taiwanese Dermatological Association Spring Meeting 2014*, (Kaohsiung, '14.05).
- 0490I003 K.Takeda, T.Ushigami, A.Nishibu, K.Anzawa, T.Mochizuki: Molecular polymorphism of *Trichophyton rubrum* strains cultured from isolates from a Japanese patient with several lesions, *3rd Eastern Asia Dermatology Congress*, (Jeju, '14.10).

0500 Department of Urology

Faculty

Title	Name	Field of Specialization
Professor	MIYAZAWA Katsuhito	kidney stone disease, endourology, prostate cancer
Professor	TANAKA Tatsuro	kidney transplantation, endourology
Professor	SUZUKI Koji	kidney stone disease, kidney transplantation, hyperparathyroidism
Senior Assistant Professor	CHIKAZAWA Ippei	general urology
Senior Assistant Professor	MORITA Nobuyo	general urology
Assistant Professor	SUGA Koudai	general urology
Assistant Professor	TACHIBANA Hiromichi	general urology
Assistant Professor	TOKUNAGA Kousuke	general urology
Assistant Professor	NAKAI Dan	general urology
Assistant Professor	NAKAZAWA Yusuke	general urology
Assistant Professor	INOUE Shinya	general urology

Keywords of Research

chronic renal failure, renal transplantation, acquired cystic disease of the kidney, secondary hyperparathyroidism, acute rejection, immunosuppression, renal stone, ESWL, TUL, endourology, calcium oxalate, glycosaminoglycans, heparan sulfate, crystal matrix protein, prothrombin, scanning microscopy, renal cell carcinoma, flow cytometry, BPH, prostatic cancer, bladder cancer, p53, urinary incontinence

Outline of Research

clinical research on renal transplantation,
mechanism of urolithiasis

Publications

Originals

- 0500B001 K.Miyazawa, T.Tanaka, D.Nakai, N.Morita, K.Suzuki: Immunohistochemical expression of four different stem cell markers in prostate cancer: High expression of NANOG in conjunction with hypoxia-inducible factor-1 α expression is involved in prostate epithelial malignancy, *Oncol. Lett.*, 8:985-992, 2014.

Case Reports

- 0500D001 (K.Kaneko), Y.Matsuta, M.Moriyama, M.Yasuda, N.Chishima, N.Yamaoka, T.Fukuuchi, K.Miyazawa, K.Suzuki: Proteomic analysis of a rare urinary stone composed of calcium carbonate and calcium oxalate dihydrate: A case report, *Int. J. Urol.*, 21:341-346, 2014.
- 0500D002 I.Chikazawa, D.Nakai, M.Morita, H.Tachibana, T.Tanaka, K.Miyazawa, M.Kishibe, Y.Kamimura, E.Kinoshita, N.Kurose: Skin and lung metastasis from renal cell carcinoma 23 years after radical nephrectomy—a case report-, *Jpn. J. Cancer Clin.*, 60:537-542, 2014 (in Japanese) .

0510 Department of Obstetrics and Gynecology

Faculty

Title	Name	Field of Specialization
Professor	MAKINODA Satoru	reproductive physiology, perinatal medicine, gynecologic oncology, ovulation and cytokines
Professor	SASAGAWA Toshiyuki	Gynecologic Pathology, Tumor Virology, Sexually Transmitted Infection Research, Immunology
Associate Professor(Additional Post)	FUJII Ryota	perinatal medicine, reproductive endocrinology
Senior Assistant Professor	OKA Yasuko	perinatal medicine, reproductive medicine
Senior Assistant Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine, gynecologic oncology
Senior Assistant Professor	WASEDA Tomoo	reproductive medicine, perinatal medicine, gynecologic oncology
Senior Assistant Professor	TOMIZAWA Hideki	perinatal medicine, reproductive medicine
Senior Assistant Professor	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	SHIBATA Takeo	perinatal medicine, reproductive medicine
Assistant Professor	NEYATANI Natsuko	perinatal medicine, climacteric medicine
Assistant Professor	YAMAGUCHI Naotaka	perinatal medicine
Assistant Professor	OSAKA Yasuhiro	perinatal medicine
Assistant Professor	SAKAMOTO Jinichi	perinatal medicine, reproductive medicine

Keywords of Research

hypothalamus-pituitary system, prenatal diagnosis, malignant tumor of female genital organs, fertilization and nidation, postmenopausal osteoporosis, endothelin, corpus luteum insufficiency, hormone-replacement therapy, nutrition and metabolism in pregnant women, abnormal sexual differentiation, toxikosis of pregnancy, myoma uteri, climacteric symptoms, mechanism of abortion, endometriosis, HGF, cytokine, G-CSF, IL-6, ovulation, hemodynamics, vaginal agenesis

Outline of Research

<Reproductive Endocrinology>

(Ovarian function and Cytokines)

Mechanism of luteolysis regulated by IL-6

Mechanism of ovulation regulated by G-CSF and its clinical application

(Water transport in the female genital tract)

Mechanism of aquaporin water channels in the ovary and oviduct

(Ovulatory process and Ovarian blood flow)

Prediction of ovulation using ovarian blood flow measurement

<Perinatology>

(Mechanism of Labor pains)

Relation between labor pains and G-CSF, and its clinical application for the prediction of premature labor

(Prenatal diagnosis for Fetus)

New method for fetal diagnosis using ultrasonography

Retrospective analysis for fetal MRI findings, compared with pathological and neonatal diagnosis

(Prognostic factor for early pregnant loss)

Analysis for hCG, Progesterone and G-CSF as prognostic factor for early pregnant loss

Publications

Originals

- 0510B001 (M.Rahman), A.Hoque, G.Mostofa, S.Makinoda: Association between adolescent marriage and intimate partner violence:a study of young adult women in Bangladesh, *Asia Pac J Public Health.*, 26:160–168, 2014.
- 0510B002 (K.Shigehara), T.Sasagawa, S.Kawaguchi, K.Nakashima, T.Nakashima, M.Shimamura, K.Furubayashi, M.Namiki: Cytological evaluation using liquid-based cytology in the male urogenital tract infected with human papillomavirus, *Diagn. Cytopathol.*, 42:491–497, 2014.
- 0510B003 Y.Oka, M.Rahman, C.Sasakura, T.Waseda, Y.Watanabe, R.Fujii, S.Makinoda: Prenatal diagnosis of fetal respiratory function: evaluation of fetal lung maturity using lung-to-liver signal intensity ratio at magnetic resonance imaging, *Prenat. Diagn.*, 34:1289–1294, 2014.
- 0510B004 (K.Shigehara), T.Sasagawa, M.Namiki: Human papillomavirus infection and pathogenesis in urothelial cells: a mini-review, *J. Infect. Chemother.*, 20:741–747, 2014.

Reviews

- 0510C003 T.Sasagawa, N.Yamaguchi, S.Fujita, H.Takagi, S.Makinoda: HPV infection as an STI:a review of the prophylaxis and treatment of HPV-related diseases from an immunological point of view, *Japanese Journal of Sexually Transmitted Infections*, 25:27–36, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0510I001 Takagi H, Sakamoto J, Yamaguchi N, Fujita S, Sasagawa T, Makinoda S: Relationship between histologic grading and standardized uptake values (SUV) of PET/CT in endometrial endometrioid carcinoma, *International Workshop on Molecular Functional Imaging for Brain and Gynecologic Oncology*, (Fukui, '14.03).
- 0510I002 Shibata T, Waseda T, Tomizawa H, Fujii R, Makinoda S, Utsunomiya T: Granulocyte colony-stimulating factor: a new treatment for luteinized unruptured follicle caused by ovulation induction therapy, *9th Women's Health & Disease*, (Athena, '14.08).
- 0510I003 Oka Y, Waseda T, Makinoda S: Prenatal evaluating method of fetal lung maturity using lung-to-liver signal intensity ratio at magnetic resonance imaging(MRI), *24th ISUOG*, (Barcelona, '14.09).
- 0510I004 Neyatani N, Osaka Y, Waseda T, Sasagawa T, Makinoda s: Advantages and effectiveness of intensity-modulated radiation therapy(IMRT) for recurrent gynecologic cancer, *15th International Gynecologic Cancer Society*, (Melbourne, '14.10).
- 0510I005 Osaka Y, Takagi H, Neyatani N, Makinoda S: Radiationship between histologic grading and standardized uptake values(SUV) of PET/CT in endometrial endometrioid carcinoma, *15th International Gynecologic Cancer Society*, (Melbourne, '14.10).

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
Professor	TSUCHIDA Hideaki	Cardiovascular effects of anesthetics
Senior Assistant Professor	SHIRAIISHI Miharu	Clinical anesthesia, Pain medicine, Palliative medicine
Senior Assistant Professor	OGAWA Masao	Clinical anesthesia, Palliative medicine
Senior Assistant Professor	KIDA Hiromasa	Clinical anesthesia, Pediatric anesthesia, Shock
Senior Assistant Professor	HONMA Keiko	Clinical anesthesia, Palliative medicine
Assistant Professor	NISHIIKE Satoshi	Clinical anesthesia, Nerve block, Vascular reactivity
Assistant Professor	YAMAOKA Yuko	Clinical anesthesia, Palliative medicine
Assistant Professor	HIRAMATSU Akiko	Clinical anesthesia
Assistant Professor	HIRAMATSU Toshiaki	Clinical anesthesia, Vascular reactivity
Assistant Professor	MURATA Yuriko	Clinical anesthesia
Assistant Professor	BEN Asami	Clinical anesthesia
Assistant Professor	YUGI Haruka	Clinical anesthesia
Assistant Professor	TANAKA Yasunori	Clinical anesthesia
Assistant Professor	ARAKI Hideharu	Clinical anesthesia
Assistant Professor	TAKANO Mami	Clinical anesthesia
Assistant Professor	MORIKAWA Takanori	Clinical anesthesia
Assistant Professor	HARA Keiko	Clinical anesthesia

Keywords of Research

anesthetic volatile, anesthetic intravenous, cardiovascular system, vascular smooth muscle, endothelium, palliative care, postoperative pain relief, sepsis, inducible nitric oxide synthase, nitric oxide

Outline of Research

In a clinical setting, we have been studying the effects of various anesthetics or vasoactive drugs on hemodynamics in perioperative patients. Especially, we are now studying the effects of beta1-selective antagonists on hemodynamics and prognosis in patients undergoing noncardiac surgery. In the laboratory, we have examined the effects of septic shock on vasoreactivity in the rat thoracic aorta or the mesenteric arteriole.

0540 Department of Physical and Rehabilitation Medicine

Faculty

Title	Name	Field of Specialization
Professor	KAGECHIKA Kenji	rehabilitation medicine, osteoporosis, disuse syndrome, higher brain dysfunction
Senior Assistant Professor(Additional Post)	NAKATA Minori	Treatment and rehabilitation of musculoskeletal disorders, caused by work-related, whiplash-injury-associated, and other origins

Keywords of Research

gait analysis, force plate, kinematic measurements, electromyogram, power spectrum, bone and joint problem, femoral neck fracture, low back pain, hemiplegia, paraplegia, osteoporosis, dysphagia, instruction of ADL

Outline of Research

- 1) Using spectral analysis in the EMG frequency, we will clarify the control in motor units of lower extremity muscles during walking cycle.
- 2) For the purpose of developing the therapeutic exercise, we are studying the sway paths of center of gravity for the patient with osteoarthritis of the hip who underwent hip surgery.
- 3) We have made the clinical pathway of the patient with femoral neck fracture. Hereafter we are going to study about the outcome, then to improve this clinical pathway, for the patient to return home with satisfaction.
- 4) We will establish the evaluation for dysphagia, analyzing results of videofluoroscopic and videoendoscopic examination of swallowing. Secondly, we are going to establish the standard of indication for swallowing training.

Publications

Originals

- 0540B001 (E.A.Kim), M.Nakata: Work-related musculoskeletal disorders in Korea and Japan: a comparative description, *Ann Occup Environ Med.*, 26:17;1-7, 2014.

Case Reports

- 0540D001 (Y.Takagi), H.Yamada, Y.Kanazawa, H.Ebara, K.Tanaka, Y.Takata, Y.Kitano, Y.Kitano, K.Kagechika, H.Tsuchiya: Upper migrated giant central type L1/2 disc herniation treated via the lateral approach by microendoscopy-assisted lumbar discectomy, *J Spine Res.*, 5:1212-1217, 2014.
- 0540D002 (Y.Takata), Y.Takagi, H.Yamada, Y.Kanazawa, H.Ebara, K.Takagi, Y.Kitano, K.Kagechika, H.Tsuchiya: Lumbar foraminal stenosis with lumbar spondylotic spondylolisthesis treated by microendoscopic foraminotomy: a case report, *J Spine Res.*, 5:1188-1191, 2014.

Presentations at Conference

International Conference (Presentations)

- 0540I001 K.Kagechika, M.Nakata, M.Tsubokawa, A.Nakanami, Y.Yakagi: By carotid artery echo we can evaluate the change in the dynamic property of vessel wall, dynamic deformability and strength of arteriosclerotic and ruptured blood vessel, The 24th Japanese-Korean Combined Orthopaedic Symposium, (Shizuoka, '14.06).
- 0540I002 K.Kagechika, T.Nakaki, M.Tsubokawa, A.Nakaki, Y.Takagi: Effect of rehabilitation of blood cancer, The 4th Asia-Oceanian Conference of Physical and Rehabilitation Medicine, (Bangkok, '14.12).

- 0540I003 T.Terai, T.Hashimoto, Y.Nitta, T.Monkawa, Y.Kawasaki, K.Kagechika: Follow-up of 2 years, the recovery of social function by vocational rehabilitation based on the "IPS" of medical institutions, The 4rd Asia-Oceanian Conference of Physical and Rehabilitation Medicine, (Bangkok, '14.12).
- 0540I004 A.Kobe, N.Ikeda, N.Yamazaki, Y.Funami, K.Kagechika, T.Maeno: Incidence and prevention of fall in rehabilitation intervention patients fore five years, The 4rd Asia-Oceanian Conference of Physical and Rehabilitation Medicine, (Bangkok, '14.12).

0550 Department of Emergency Medicine

Faculty

Title	Name	Field of Specialization
Professor	WATOH Yukihiro	Emergency, Emergency medical system, Disaster Medicine
Senior Assistant Professor	MASHIBA Satoru	Emergency, Anaphylaxis
Assistant Professor	IWAI Junichi	Emergency
Assistant Professor	GOTO Tetsuro	Emergency
Assistant Professor	MURASAKA Kenshi	Emergency, Neurosurgery
Assistant Professor	MORITA Hideki	Emergency
Assistant Professor	WATANABE Atsushi	Emergency
Assistant Professor	USHIMOTO Tomoyuki	Emergency

Keywords of Research

acute poisoning, resuscitation, disaster medicine, emergency room, intensive care

Outline of Research

Evaluative research of Emergency Medicine, EMS system, and Disaster management.

0570 District medical

Faculty

Title	Name	Field of Specialization
Professor	KANDA Tsugiyasu	Cardiovascular disease, Diabetes Mellitus, Mental disease
Senior Assistant Professor(Additional Post)	TAKAHASHI Masakatsu	clinical respiratory medicine, pulmonary tuberculosis

Keywords of Research

cytokine, myocarditis, atherosclerosis, chronic fatigue syndrome, immunotherapy

Outline of Research

The main investigation in our department is to find the cytokine effect as the immunotherapy in the animal model or clinical field.

1. The treatment of heart failure with myocarditis in an animal model.
2. The treatment trial of cytokine regulation in the atherosclerosis.
3. The cytokine treatment against chronic fatigue syndrome.

Publications

Originals

- 0570B001 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. Med. Univ., 39:67-74, 2014 (in Japanese) .

Case Reports

- 0570D001 T.Mizuno, K.Ishigami, S.Yamada, H.Tsuchiya, C.Nakajima, R.Sangen, M.Fukushima, H.Minato, T.Nojima, A.Saito, N.Hayashi, H.Atsumi, T.Ito, M.Iguchi, D.Usuda, H.Okamura, S.Urashima, M.Asano, J.Kiyosawa, A.Fukuda, N.Takekoshi, T.Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, Case Rep Oncol., 7:144-148, 2014.

0575 Department of Gastroenterological Endoscopy

Faculty

Title	Name	Field of Specialization
Professor	ITO Tohru	Diagnosis for esophagus, gastro-intestine, colon, liver & bile duct disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Associate Professor	KITAKATA Hidekazu	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Associate Professor	URASHIMA Sachio	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Senior Assistant Professor	KAWAURA Ken	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Assistant Professor	HAMADA Kazu	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Assistant Professor	AZUKISAWA Sadafumi	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Assistant Professor	ITO Rika	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Assistant Professor	OKAMURA Hideyuki	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopic treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer

Keywords of Research

Endoscopy, Diagnosis, treatment, Esophagus, Stomach, Colon, ESD, EMR

Outline of Research

1. A study for endoscopic diagnosis of early digestive organ cancer. (Esophagus, Stomach, Colon)
2. A study for endoscopic treatment of early digestive organ cancer. (Esophagus, Stomach, Colon)
3. A study for prediction of lymph node metastasis which early digestive organ cancer. (Esophagus, Stomach, Colon)

Publications

Case Reports

- 0575D001 T. Mizuno, K. Ishigami, S. Yamada, H. Tsuchiya, C. Nakajima, R. Sangen, M. Fukushima, H. Minato, T. Nojima, A. Saito, N. Hayashi, H. Atsumi, T. Ito, M. Iguchi, D. Usuda, H. Okamura, S. Urashima, M. Asano, J. Kiyosawa, A. Fukuda, N. Takekoshi, T. Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, Case Rep Oncol., 7:144-148, 2014.

Presentations at Conference

International Conference (Symposium)

- 0575H001 T.Ito: Surgical and oncological evidence of effectiveness, completeness and radical curability of EMR and ESD for Early Gastric cancer., The 16th Japan–Russia Endoscopy Symposium, (Moscow, '14.02).
- 0575H002 T.Ito: High definition (ExeraIII) white light, narrow-band imaging(NBI)and magnification endoscopy + endocytoscopy in diagnosis of the gastric epithelial neoplasia., The 16th Japan–Russia Endoscopy Symposium, (Moscow, '14.02).
- 0575H003 T.Ito: Endoscopic submucosal dissection of gastric neoplasia., The 16th Japan–Russia Endoscopy Symposium, (Moscow, '14.02).

0580 Department of Oral and Maxillofacial Surgery

Faculty

Title	Name	Field of Specialization
Professor	SEGAMI Natsuki	oral and maxillofacial surgery, temporomandibular joint disorders, oral cancer, orthognathic surgery
Associate Professor	DEMURA Noboru	orthodontics, stomatology
Assistant Professor	KATO Koichiro	Oral tumor
Assistant Professor	HASUMOTO Miho	Orthodontics

Keywords of Research

stomatology, oral and maxillofacial surgery, orthodontics, temporomandibular joint, arthroscopy, magnetic resonance imaging, oral cancer, metastasis, orthognathic surgery

Outline of Research

1. Basic and clinical research for disorders of temporomandibular joints.
2. Molecular biological research for growth and metastasis of tumors in oral region.
3. Pathophysiological research for abnormal development of oral and maxillofacial region.
4. Research for surgical orthognathics for jaw deformity.
5. Integration mechanisms of oral sensory information in the central nervous systems.

Publications

Originals

- 0580B001 (H.Yoshimura), M.Hasumoto, T.Sugai, N.Segami, N.Kato: Enhancement of oscillatory activity in the endopiriform nucleus of rats raised under abnormal oral conditions., *Neurosci. Lett.*, 561:162-165, 2014.

Case Reports

- 0580D001 K.Kato, N.Segami, H.Fukuda, H.Minato: Rheumatoid nodule in the lower lip of a patient with rheumatoid arthritis: a novel case report and review of literature., *J. Oral Maxillofac. Surg.*, 72:1532.e1-5, 2014.

University Hospital

0635 Hepatology

Faculty

Title	Name	Field of Specialization
Professor	TSUTSUMI Mikihiro	Mechanism of alcoholic liver disease
Associate Professor	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
Senior Assistant Professor	TOSHIKUNI Nobuyuki	Interventional therapy for hepatocellular carcinoma
Senior Assistant Professor	OZAKI Kazuaki	Mechanism of portal hypertension in alcoholic liver injury
Senior Assistant Professor	JOSEPH George	Mechanism of hepatic fibrosis
Assistant Professor	FUKUMURA Atsushi	Etiology and clinical feature of acute hepatitis
Assistant Professor	HAYASHI Nobuhiko	Mechanism of nonalcoholic fatty liver disease
Assistant Professor	SAITO Takashi	Treatment for metabolic syndrome

Keywords of Research

alcohol metabolism, alcoholic liver injury, carbohydrate deficient transferrin, cytochrome P4502E1, mitochondrial DNA mutation, hepatic fibrosis, hepatic stellate cell, hepatocyte apoptosis, chemical carcinogenesis, non-alcoholic steatohepatitis, FLS-ob mouse, metabolic syndrome, insulin resistance, leptin, adiponectin, oxidative stress, anti-oxidative enzyme, chronic type C hepatitis, HCV-RNA genotype, interferon therapy, chronic type B hepatitis, anti-viral treatment, treatment of hepatocellular carcinoma, radiofrequency ablation, arterial infusion therapy, early gastric cancer, endoscopic mucosal resection, endoscopic submucosal dissection, inflammatory bowel disease, ischemic colitis

Outline of Research

- 1 Basic and clinical study of digestive disease
 - ①Treatment for esophageal and gastric varices associated with portal hypertension
 - ②Hepatic support system for severe alcoholic hepatitis
 - ③Clinical feature and treatment for nonalcoholic steatohepatitis
- 2 Experimental study of alcoholic organ injury
 - ①Pathogenesis and treatment for alcoholic hepatitis
 - ②Pathogenesis of hepatic fibrosis induced by alcohol
 - ③Effect of alcohol on chemical carcinogenesis of the liver
- 3 Pathogenesis for nonalcoholic steatohepatitis

Publications

Originals

- 0635B001 K.Matsunaga, T.Tahara, H.Shiroeda, T.Otsuka, M.Nakamura, T.Shimasaki, N.Toshikuni, N.Kawada, T.Shibata, T.Arisawa: The *1244A>G polymorphism of MyD88(rs7744)is closely associated with susceptibility to ulcerative colitis, *Mol. Med. Report.*, 9:28-32, 2014.
- 0635B002 N.Toshikuni, M.Tsutsumi, Y.takuma, T.Arisawa: Real-time image fusion for successful percutaneous radiofrequency ablation of hepatocellular carcinoma., *J Ultrasound Med.*, 33:2005-2010, 2014.
- 0635B003 K.Ozaki, N.Toshikuni, J.George, T.Minato, Y.Matsue, T.Arisawa, M.Tsutsumi: Serum endocan as a novel prognostic biomarker in patients with hepatocellular carcinoma, *J Cancer.*, 5:221-230, 2014.

- 0635B004 T.Minato, M.Tsutsumi, M.Tsuchishima, N.Hayashi, T.Saito, Y.Matsue, N.Toshikuni, T.Arisawa, J.George: Binge alcohol consumption aggravates oxidative stress and promotes pathogenesis of NASH from obesity-induced simple steatosis, *Mol. Med.*, 20:490–502, 2014.

Reviews

- 0635C001 N.Toshikuni, T.Arisawa, M.Tsutsumi: Hepatitis C-related liver cirrhosis – strategies for the prevention of hepatic decompensation,hepatocarcinogenesis,and mortality, *World J. Gastroenterol.*, 20:2876–2887, 2014.
- 0635C002 N.Toshikuni, T.Arisawa, M.Tsutsumi: Nutrition and exercise in the management of liver cirrhosis, *World J. Gastroenterol.*, 20:7286–7297, 2014.
- 0635C003 N.Toshikuni, M.Tsutsumi, T.Arisawa: Clinical differences between alcoholic liver disease and nonalcoholic fatty liver disease, *World J. Gastroenterol.*, 20:8393–8406, 2014.
- 0635C004 M.Takeuchi, J.Takino, A.Sakasai-Sakai, T.Takata, T.Ueda, M.Tsutsumi, H.Hyogo, S.Yamagishi: Involvement of the TAGE-RAGE system in non-alcoholic steatohepatitis: Novel treatment strategies., *World J Hepatol.*, 6:880–893, 2014.
- 0635C005 N.Hayashi, T.Saito, M.Kakuda, Y.Matsue, T.Minato, A.Fukumura, K.Ozaki, M.Tsuchisima, M.Tsutsumi: Pathogenesis of alcoholic chronic hepatitis, *Jpn. J. Alcohol & Drug Dependence*, 49:219–226, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0635I001 N.Toshikuni, A.Fukumura, T.Arisawa, M.Tsutsumi: Do types of fatty liver disease influence the susceptibility of diabetes mellitus,hepertenstion,and dyslipidemia?, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0635I002 M.Nakamura, H.Shiroeda, T.Shimasaki, T.Otsuka, N.Toshikuni, T.Fukuyama, K.Matsunaga, R.Hayashi, T.Nomura, H.Yamada, K.Yamada, N.Kawada, T.Tahara, T.SHibata, T.Arisawa: The usefulness of nasal ESD performed with a new therapeutic transnasal endoscope for early esophageal cancer, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0635I003 T.Arisawa, T.Fukuyama, T.Tahara, K.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Otsuka, M.Nakamura, T.Shimasaki, N.Toshikuni, H.Shiroeda, T.SHibata: Genetic polymorphisms of DNMT3A are associated with the aberrant DNA methylation of CDH1 in japanese subjects, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0635I004 T.Shimasaki, N.Ueda, N.Kawada, T.Nomura, K.Yamada, H.Yamada, R.Hayashi, K.Matsunaga, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, H.Shiroeda, T.Kosaka, N.Tomosugi, T.Minamoto, T.Arisawa: Phase i clinical trial of the combination therapy using gemcitabine and GSK3beta inhibiting drugs for gemcitabine-resistant advanced pancreatic cancer patients, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0635I005 T.Arisawa, T.Otsuka, T.Tahara, K.Yamada, H.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Fukuyama, M.Nakamura, T.Shimasaki, N.Toshikuni, H.Shiroeda, T.SHibata: Genetic polymorphisms of DNMT3A are associated with the aberrant DNA methylation of DAPK in japanese subjects, *Didestive Disease Week 2014*, (Chicago, '14.05).
- 0635I006 T.Arisawa, H.Shiroeda, T.Tahara, K.Yamada, H.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, T.SHibata: A polymorphisms rs7521584 in pre-miR429 and pre-mir200s genes is associated with the aberrant DNA methylation in gastric mucosa, *Didestive Disease Week 2014*, (Chicago, '14.05).

0675 Health Evaluation Center

Faculty

Title	Name	Field of Specialization
Professor	ASAJI Takayoshi	Heartfailure
Professor	FURUTA Hisakazu	Clinical study on sleep-wake disorders
Professor(Additional Post)	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor(Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Senior Assistant Professor	NAKANISHI Yumiko	Preventive medicine
Associate Professor(Additional Post)	NAKAMURA Koshi	Epidemiology of Cardiovascular disease and Lifestyle-related disease Lifestyle/ Disease and Medical expenditure
Associate Professor(Additional Post)	ISHIZAKI Masao	Occupational health, Epidemiology for cardiovascular disease
Associate Professor(Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Associate Professor(Additional Post)	SAKURAI Masaru	Cardiovascular epidemiology, preventive cardiology
Assistant Professor	NAGASAWA Shinya	Cardiovascular epidemiology, preventive cardiology

Keywords of Research

health examination, screening, metabolic syndrome, obesity, hypertension, insulin resistance, hyperlipidemia, smoking, alcohol intake, life style, stress, dietary habits, nutrient intake, exercise

Outline of Research

Studies for improvement of total medical check system and method of health support.

Publications

Originals

- 0675B001 X.Zhao, A.Nogawa, T.Matsunaga, T.Takegami, H.Nakagawa, Y.Ishigaki: Proteasome inhibitors and knockdown of SMG1 cause accumulation of Upf1 and Upf2 in human cells., *Int. J. Oncol.*, 44:222-228, 2014.
- 0675B002 (H.Uzui), H.Hayashi, I.Nakae, T.Matsumoto, H.Uenishi, H.Hayasaki, T.Asaji, S.Matsui, M.Kunihisa, JD.Lee, H.Tada, T.Sawamura, M.Fujita: Pitavastatin decreases serum LOX-1 ligand levels and MT1-MMP expression in CD14-positive mononuclear cells in hypercholesterolemic patients, *Int. J. Cardiol.*, 176:1230-1232, 2014.
- 0675B003 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, T.Kido, T.Kido, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men, *Eur. J. Nutr.*, 53:251-258, 2014.
- 0675B004 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141-149, 2014.
- 0675B005 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661-3677, 2014.

- 0675B006 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1–11, 2014.
- 0675B007 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: HOMA-IR and the risk of hyperuricemia: a prospective study in non-diabetic Japanese men, *Diabetes Res. Clin. Pract.*, 106:154–160, 2014.
- 0675B008 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C-reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717–727, 2014.
- 0675B009 M.Nishijo, Y.Suwazono, W.Ruangyuttikarn, K.Nambunmee, W.Swaddiwudhipong, K.Nogawa, H.Nakagawa: Risk assessment for Thai population: benchmark dose of urinary and blood cadmium levels for renal effects by hybrid approach of inhabitants living in polluted and non-polluted areas in Thailand, *BMC Public Health*, 14:702;1–9, 2014.
- 0675B010 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid-stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669–674, 2014.
- 0675B011 S.Maruzeni, M.Nishijo, K.Nakamura, Y.Morikawa, M.Sakurai, M.Nakashima, T.Kido, R.Okamoto, K.Nogawa, Y.Suwazono, H.Nakagawa: Mortality and causes of deaths of inhabitants with renal dysfunction induced by cadmium exposure of the polluted Jinzu River basin, Toyama, Japan; a 26-year follow-up., *Environ Health.*, 13:18;1–12, 2014.
- 0675B012 (Emerging Risk Factors Collaboration), H.Nakagawa, M.Sakurai, K.Nakamura, Y.Morikawa, et al.: Glycated hemoglobin measurement and prediction of cardiovascular disease., *JAMA*, 311:1225–1233, 2014.
- 0675B013 (K.Asayama), M.Satoh, Y.Murakami, T.Ohkubo, SY.Nagasawa, I.Tsuji, T.Nakayama, A.Okayama, K.Miura, Y.Imai, H.Ueshima, T.Okamura, Evidence for Cardiovascular Prevention From Observational Cohorts in Japan (EPOCH-JAPAN) Research Group, H.Nakagawa, et al.: Cardiovascular risk with and without antihypertensive drug treatment in the Japanese general population: participant-level meta-analysis., *Hypertension*, 63:1189–1197, 2014.
- 0675B014 (K.Ishikura), H.Misu, M.Kumazaki, H.Takayama, N.Matsuzawa-Nagata, N.Tajima, K.Chikamoto, F.Lan, H.Ando, T.Ota, M.Sakurai, Y.Takeshita, K. Kato, A. Fujimura, KI.Miyamoto, Y.Saito, S.Kameo, Y.Okamoto, Y.Takuwa, K.Takahashi, H.Kidoya, N.Takakura, S.Kaneko, T.Takamura: Selenoprotein P as a diabetes-associated hepatokine that impairs angiogenesis by inducing VEGF resistance in vascular endothelial cells., *Diabetologia*, 57:1968–1976, 2014.
- 0675B015 (N.Miyagawa), K.Miura, N.Okuda, T.Kadowaki, N.Takashima, SY.Nagasawa, Y.Nakamura, Y.Matsumura, A.Hozawa, A.Fujiyoshi, T.Hisamatsu, K.Yoshita, A.Sekikawa, T.Ohkubo, RD.Abbott, T.Okamura, A.Okayama, H.Ueshima, the NIPPON DATA80 Research Group, H.Nakagawa, et al.: Long-chain n-3 polyunsaturated fatty acids intake and cardiovascular disease mortality risk in Japanese: A 24-year follow-up of NIPPON DATA80, *Atherosclerosis*, 232:384–389, 2014.
- 0675B016 (A.Okayama), N.Okuda, K.Nakamura, K.Miura, S.Yasumura, K.Sakata, H.Hidaka, T.Okamura, K.Nishimura: Method for evaluating health promotion programs using propensity score, *Health Evaluation and Promotion*, 41:418–427, 2014 (in Japanese) .
- 0675B017 (T.Koyama), K.Yoshita, Y.Arai, K.Nakamura, M.Sakurai, M.Nishijo, SY.Nagasawa, Y.Morikawa, M.Tabata, H.Nakagawa: Relationship between daily intake frequency of meals including a staple food, a main dish and a side dish and nutrient intake in independent elderly individuals, *Journal of Japanese Society of Nutrition and Food Science.*, 67:299–305, 2014 (in Japanese) .

Reviews

- 0675C001 K.Nakamura: Impact of cardiovascular risk factors on medical expenditure: evidence from epidemiological studies analysing data on health checkups and medical insurance, *J. Epidemiol.*, 24:437–443, 2014.

- 0675C002 K.Nakamura, T.Okamura, K.Miura, A.Okayama: Hypertension and medical expenditure in the Japanese population: Review of prospective studies., *World J Cardiol.*, 6:531–538, 2014.
- 0675C003 Y.Morikawa: The issue of sleep as a risk for occupational safety, *Hokuriku Japanese Journal of Public Health.*, 40:17–23, 2014 (in Japanese) .

Others

- 0675F001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido,, Y. Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men., *Eur. J. Nutr.*, 53:1137–1138, 2014.

Presentations at Conference

International Conference (Presentations)

- 0675I001 M.Sakurai, J.Kobayashi, Y.Takeda, S-Y.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi: Abdominal obesity, metabolic syndrome, and the risk of chronic kidney disease in Japanese males and females., 74th Scientific Sessions, American Diabetes Association., (San Francisco, '14.06).
- 0675I002 M.Nishijo, PT.Tai, TN.Nghi, NTN.Anh, H.Nakagawa, S.Maruzeni, HV.Luong, TH.Anh, NV.Trung, PT.Phuong, LK. Son, T.Kido, Y.Morikawa, H.Nishijo: Effects of dioxin exposure on neurodevelopment and urinary amino acid excretion of children in exposed areas of Vietnam., The 34th international Symposium on Halogenated Persistent Organic pollutants–Dioxin 2014, (Madrid, '14.08).
- 0675I003 M.Nishijo, PT.Tai, NTN.Anh, TN.Nghi, H.Nakagawa, T.Kido, T.Waseda, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014, (Bangkok, '14.11).
- 0675I004 TN.Nghi, HD.Manh, PT.Tai, M.Nishijo, H.Nakagawa, T.Kido, H.Nishijo: Dioxins and nonortho polychlorinated biphenyl concentrations in breast milk of Vietnamese nursing mothers living in the largest hot spot of dioxin contamination., The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014, (Bangkok, '14.11).
- 0675I005 (PT.Tai), M.Nishijo, H.Nakagawa, S.Maruzeni, NTN.Anh, HV.Luong, TH.Anh, TN.Nghi, Y.Morikawa, T.Kido, H.Nishijo: Dioxin effects on infant development from newborn until 3 years of age., The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014, (Bangkok, '14.11).
- 0675I006 S-Y.Nagasawa, K.Miura, T.Kadowaki, A.Fujiyoshi, T.Ohkubo, S.Kadowaki, A.Kadota, A.Sekikawa, H.Ueshima: Relationship of plasma asymmetrical dimethylarginine to carotid intima-media thickness in general population in Japanese: the ERA-JUMP Study and SESSA Study., Nutrition, Physical Activity and Metabolism /Cardiovascular Disease Epidemiology and Prevention 2014 Scientific Sessions, American Heart Association, (San Francisco, '14).

Medical Research Institute

7100 Department of Life Science

Faculty

Title	Name	Field of Specialization
Professor	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Professor	TANAKA Keiko	Clinical neurology, Neuroimmunology
Professor	TAKEGAMI Tsutomu	Molecular mechanism of flavivirus replication, interaction with host cells and viral carcinogenesis
Associate Professor	OTA Takahide	Molecular analysis of the mechanism of cancer metastasis
Associate Professor	TASAKI Takafumi	Protein regulation by the post-translational modifications and its underlying molecular mechanisms
Senior Assistant Professor	MIYAGOSHI Minoru	Cell biology
Senior Assistant Professor	MURAKAMI Manabu	Pathogenicity of flavivirus isolated from the field-collected mosquitoes
Senior Assistant Professor	TANIGUCHI Makoto	Molecular and Cellular Biology, Lipid Biochemistry
Research Associate	NAKAMURA Yuka	Molecular and Cellular Biology

Keywords of Research

cancer, carcinogenesis, metastasis, cell transformation, gene expression, HCV, JEV, virus replication, RNAi, micro RNA, centrosome, polyploid cells, polyploidization, triploid/tetraploid/octaploid cells, Meth-A cells, V79 cells, H-1(ES) cells, RhoGDI, Rho family, epithelial/mesenchymal, transfection, RNA surveillance, nonsense mediated mRNA decay, mutation, DNA microarray, "transcriptome, proteome, apoptosis, ultra micro structure", "mouse germ cells, DNA repair, fibroblast growth factor", tumor growth angiogenesis, Ubiquitin-proteasome system, Autophagy

Outline of Research

1. Study on viral replication and pathogenicity
2. Molecular mechanism of carcinogenesis and metastasis
3. Research on polyploidization and polyploid cells
4. Analyses of transcription and mRNA decay
5. Protein regulation by the post-translational modifications and its underlying molecular mechanisms

Books

- 7100A001 (T.Tsuda), E.Mochizuki, S.Kishida, N.Nemoto, Y.Ishigaki, S.Kuwabata: Room-Temperature Ionic Liquid-Bases SEM/EDX Techniques for Biological Specimens and in situ Electrode Reaction Observation, Molten Salts Chemistry and Technology(Marcelle Gaune-Escard, Geir Martin Haarberg, 373-389, Willy, United States of America, 2014.

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- 7100B009 (S.Nukuzuma), K.Nakamichi, M.Kamaoka, S.Sugiura, C.Nukuzuma, T.Tasaki, T.Takegami: TNF- α stimulates efficient JC virus replication in neuroblastoma cells, *J. Med. Virol.*, 86:2026-2032, 2014.
- 7100B010 (E.Tabata), M.Masuda, M.Eriguchi, M.Yokoyama, Y.Takahashi, K.Tanaka, M.Yukitake, E.Horikawa, H.Hara: Immunopathological significance of ovarian teratoma in patients with anti-N-methyl-D-aspartate receptor encephalitis, *Eur. Neurol.*, 71:42-48, 2014.
- 7100B011 (M.Akaza), K.Tanaka, M.Tanaka, T.Sekiguchi, T.Misawa, K.Nishina, I.Kawachi, M.Nishizawa, H.Mizusawa, T.Yokota: Can anti-AQP4 antibody damage the blood-brain barrier?, *Eur. Neurol.*, 72:273-277, 2014.
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- 7100E001 (M.Tanaka), K.Tanaka: Anti-MOG antibodies in adult patients with demyelinating disorders of the central nervous system, *J. Neuroimmunol.*, 270:98–99, 2014.
- 7100E002 M.Taniguchi, Y.Ishigaki: Case report of new building works adjacent to RI facility, *Japanese Journal of Radiation Safety Management*, 13:177–180, 2014 (in Japanese) .

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- 7100F001 (M.Tanaka), K.Tanaka: Dose reduction therapy of fingolimod for Japanese patients with multiple sclerosis:24-month experience, *Clin. Exp. Neuroimmunol.*, 5:383–384, 2014.
- 7100F002 (K.Fujita), K.Tanaka, Y.Takahashi: Neuronal antibodies in creutzfeldt-jakob disease, *JAMA Neurol.*, 71:514–515, 2014.
- 7100F003 (T.Kezuka), Dk. Sato, K.Tanaka: Distinction between MOG antibody-positive and AQP4 antibody-positive NMO spectrum disorders, *Neurology*, 83:475–476, 2014.

Presentations at Conference

International Conference (Presentations)

- 7100I001 M. Taniguchi, K. Kitatani, Y. Taguchi, T. Kawanami, T. Takegami, H. Umehara, T. Okazaki: Lysosomal ceramide generated by acid sphingomyelinase triggers cathepsin B-mediated apoptosis in IL-2-deprived natural killer cells, *Gordon Research Conferences, Glycolipid & Sphingolipid Biology*, (Ventura, '14.01).
- 7100I002 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocyte in a rat spinal cord hemisection model, *CSRS AP5 Viet Nam 2014*, (Ho Chi Minh, '14.04).
- 7100I003 K.Tanaka, Y.Li, L.Li Wang, N.Kato, M.Matsui, T.Takegami: Memory disturbance of the mice treated with intraventricular administration of CSF from NMDAR-encephalitis patients, *American Academy of Neurology 2014 Annual Meeting*, (Philadelphia, '14.05).
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- 7100I006 K.Iwai, T.Okuno, T.Morita, H.Yano, O.Iritani, M.Okuro, S.Morimoto, Y.Nakamura, Y.Ishigaki: CTCF is prerequisite for the fetal gene expression in the process of hypertrophy of the cardiomyocyte., *European Society of Cardiology Congress 2014*, (Barcelona, '14.09), *European Heart Journal*, 35:(Suppl.) 954–955, 2014.

- 7100I007 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, T.Shimasaki, K.Iwabuchi, N.Tomosugi: Role of RNA binding protein in cell cycle progression and centrosome maturation in human tumor cells., 19th World Congress on Advances in Oncology & 17th International Symposium of Molecular Medicine, (Greece, '14.10).
- 7100I008 M. Taniguchi, H. Ogiso, Y. Kitagawa, K. Hori, Y. Yamashita, S. Araya, S. Mitsutake, Y. Igarashi, T. Okazaki, T. Takegami: Deficiency of sphingomyelin synthase 1 prevents attachment and infection of Japanese Encephalitis Virus, 2nd International Workshop on Molecular Medicine of Sphingolipids, (Kloster Banz,, '14.10).
- 7100I009 Y.Shimizu, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Matsumoto: The relevance of hyaluronidase-4 and astrocytes in a rat spinal cord hemisection model, Neuroscience 2014, (Washington,DC, '14.11).

7200 Department of Advanced Medicine

Faculty

Title	Name	Field of Specialization
Professor	TOMOSUGI Naohisa	Clinical Proteomics
Professor	TAKEUCHI Masayoshi	AGEs, Life style-related disease
Professor(Additional Post)	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
Professor(Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
Associate Professor	NIIDA Yo	Genetic disease, Genetic diagnosis
Senior Assistant Professor	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics
Assistant Professor	UEDA Tadashi	cardiac muscle, lung, cell biology, cytochemistry
Assistant Professor	TAKATA Takanobu	Development of the method for diagnosis and therapy of the intractable disease by 'Proteome Analysis'
Assistant Professor	OZAKI Mamoru	cytogenetics, Molecular cytogenetics
Assistant Professor	SAKASAI Akiko	AGEs, Cell Biology
Research Associate	MURANO Hidekazu	Cardiac histology and immunohistochemistry
Researcher	TATSUNO Takanori	chemical biology

Keywords of Research

renal cell carcinoma, cytogenetics, metalloproteinase, mesangial cell, renal disease, chronic renal failure, glomerulonephritis, anti-aging, AGEs, heart failure, cardiomyopathy, neurohumoral factor, autoantibody, cell cycle, epigenetics, clinical oncology, gastroenterology, tumor biology, genetic counseling, genetic service, prenatal diagnosis, congenital abnormality, karyotype

Outline of Research

1. Heart failure by autoimmune pathway related with G-protein
2. Study on hepcidin-25 as iron regulatory factor in the hemodialysis patient
3. The role of AGE in the prevention of lifestyle related disease
4. Clinical research for the diagnosis and treatment of pancreatic cancer
5. Development and clinical application of fetal DNA diagnosis using mother's blood
6. Genetic diagnosis and analysis of hereditary developmental disability
7. Development of molecular method to detect the abnormality of chromosome, and risk evaluation about balance type of reciprocal translocation

Publications

Originals

- 7200B001 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, K.Iwabuchi, N.Tomosugi: RNA-binding protein RBM8A (Y14) and MAGOH localize to centrosome in human A549 cells., *Histochem. Cell Biol.*, 141:101-109, 2014.
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- 7200B013 T. Takata, Y. Motoo, N. Tomosugi: Effect of saikokeishito, a kampo medicine, on hydrogen peroxide-induced premature senescence of normal human dermal fibroblasts, *J Integr Med.*, 12:495-503, 2014.
- 7200B014 (K.Yanagisawa), J.Ashihara, S.Obata, N.Wada, M.Takeuchi, Y.Nishino, S.Maeda, Y.Ishibashi, S.Yamagishi: Switching to multiple daily injection therapy with glulisine improves glycaemic control, vascular damage and treatment satisfaction in basal insulin glargine-injected diabetic patients., *Diabetes Metab. Res. Rev.*, 30:693-700, 2014.
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Reviews

- 7200C001 M. Taniguchi, T. Okazaki: The role of sphingomyelin and sphingomyelin synthases in cell death, proliferation and migration - from cell and animal models to human disorders-, *BBA-MOL CELL BIOL L*, 1841:692–703, 2014.
- 7200C002 M.Takeuchi, J.Takino, A.Sakasai-Sakai, T.Takata, T.Ueda, M.Tsutsumi, H.Hyogo, S.Yamagishi: Involvement of the TAGE-RAGE system in non-alcoholic steatohepatitis: Novel treatment strategies., *World J Hepatol.*, 6:880–893, 2014.
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Case Reports

- 7200D001 (K.Fujiwara), T.Fukuhara, H.Kitano, T.Okazaki: Infiltration of the thyroid Gland by T-cell prolymphocytic leukemia, *Thyroid.*, 24:1314–1318, 2014.
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Short Communications

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Others

- 7200F001 (M.Shimizu), Y.Niida, S.Koizumi, A.Yachie: An infant with recurrent convulsive seizures of 3 weeks duration: Questions, *Pediatr. Nephrol.*, 29:1951, 2014.
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International Conference (Symposium)

- 7200H001 Y.Motoo: Role of Kampo medicine in multidisciplinary cancer therapy, 2014 Workshop on Integrative Medicine, Association of Korean Integrative Medicine (AKIM), (Seoul, '14.02).
- 7200H002 Y.Motoo: Advancements and challenges relevant to integrative traditional and modern medicine in the world: Japan, 2014 Integrative Traditional and Modern Medicine International Forum, (Taipei, '14.11).

7200H003 T.Shimasaki: Identification of the GSK3 beta-mediated secretory protein responsible for GEM-induced EMT in pancreatic cancer cells. , The 25th Annual Meeting of the Japanese Society for Gastroenterological Carcinogenesis, (Fukuoka, '14.11).

International Conference (Presentations)

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7200I002 (N.Kawada), K.Matsunaka, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomita: Usefulness of dual phase 18F-FDG-PET/CT for distinguishing malignancy from benign small pancreatic tumors, Digestive Disease Week 2014, (Chicago, '14.05).

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7200I006 T.Shimasaki, N.Ueda, N.Kawada, T.Nomura, K.Yamada, H.Yamada, R.Hayashi, K.Matsunaga, T.Fukuyama, T.Otsuka, M.Nakamura, N.Toshikuni, H.Shiroeda, T.Kosaka, N.Tomosugi, T.Minamoto, T.Arisawa: Phase I clinical trial of the combination therapy using gemcitabine and GSK3beta inhibiting drugs for gemcitabine-resistant advanced pancreatic cancer patients, Digestive Disease Week 2014, (Chicago, '14.05).

7200I007 (N.Kawada), K.Matsunaga, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomita: Nodule size and positive cytology as predictors of malignancy for intraductal papillary mucinous neoplasm of the pancreas, Digestive Disease Week 2014, (Chicago, '14.05).

7200I008 (N.Kawada), K.Matsunaga, T.Otsuka, M.Nakamura, T.Shimasaki, H.Shiroeda, T.Arisawa, Y.Tomita: Morphological changes of intraductal papillary mucinous neoplasm of the pancreas are not enough for indicators of the development of pancreatic carcinoma during follow up, Digestive Disease Week 2014, (Chicago, '14.05).

7200I009 T.Arisawa, T.Otsuka, T.Tahara, K.Yamada, H.Yamada, T.Nomura, R.Hayashi, K.Matsunaga, N.Kawada, T.Fukuyama, M.Nakamura, T.Shimasaki, N.Toshikuni, H.Shiroeda, T.Shibata: Genetic polymorphisms of DNMT3A are associated with the aberrant DNA methylation of DAPK in Japanese subjects, Digestive Disease Week 2014, (Chicago, '14.05).

7200I010 (K. Taguchi), K. Fukami, S. Yamagishi, Y. Higashimoto, M. Yokoro, N. Obara, R. Ando, Y. Nakayama, T. Matsui, M. Takeuchi, S. Ueda, S. Okuda: DNA-aptamer raised against RAGE blocks the progression of experimental diabetic neuropathy., The 14th Asian Pacific Congress of Nephrology (APCN 2014) 2014, (Tokyo, '14.05).

7200I011 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, T.Shimasaki, K.Iwabuchi, N.Tomosugi: Role of RNA binding protein in cell cycle progression and centrosome maturation in human tumor cells., 19th World Congress on Advances in Oncology & 17th International Symposium of Molecular Medicine, (Greece, '14.10).

7200I012 Y.Motoo, I.Arai, K.Tsutani: Use of Kampo diagnosis in randomized controlled trials of Kampo products in Japan: a systematic review, 2014 Integrative Traditional and Modern Medicine International Forum, (Taipei, '14.11).

7310 Division of HT Research

Faculty

Title	Name	Field of Specialization
Professor(Additional Post) Associate	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Professor(Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Postdoctoral Researcher	MATSUDA Yukihisa	cognitive psychology brain science
Postdoctoral Researcher	WANG Min	Neurophysiology

Keywords of Research

Epidemiology of health effects of environmental cadmium exposure, dioxins, Toxicology of environmental pollutants, neurovirology, Cancer chemoprevention by natural products

Outline of Research

1. Epidemiology of health effects of environmental cadmium exposure, and dioxins., Toxicology of environmental pollutants.
2. neurovirology.
3. Cancer chemoprevention by natural products.

Publications

Originals

- 7310B001 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661–3677, 2014.
- 7310B002 M.Nishijo, Y.Suwazono, W.Ruangyuttikarn, K.Nambunmee, W.Swaddiwudhipong, K.Nogawa, H.Nakagawa: Risk assessment for Thai population: benchmark dose of urinary and blood cadmium levels for renal effects by hybrid approach of inhabitants living in polluted and non-polluted areas in Thailand, *BMC Public Health*, 14:702;1–9, 2014.
- 7310B003 S.Maruzeni, M.Nishijo, K.Nakamura, Y.Morikawa, M.Sakurai, M.Nakashima, T.Kido, R.Okamoto, K.Nogawa, Y.Suwazono, H.Nakagawa: Mortality and causes of deaths of inhabitants with renal dysfunction induced by cadmium exposure of the polluted Jinzu River basin, Toyama, Japan; a 26-year follow-up., *Environ Health.*, 13:18;1–12, 2014.
- 7310B004 M.Nishijo, PT.Tai, TNA.Nguyen, TN.Nghi, H.Nakagawa, HV,Luong, AH.Tran, Y.Morikawa, HD.Manh, T.Kido, MN.Nui, NM.Hai, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., *Mol. Psychiatry.*, 19:1220–1226, 2014.
- 7310B005 (T.Kido), TV.Dao, MD.Ho, ND.Dang, NT.Pham, R.Okamoto, TT.Pham, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, SK.Le, HN.Nguyen: High cortisol and cortisone levels are associated with breast milk dioxin concentrations in Vietnamese women., *Eur. J. Endocrinol.*, 170:131–139, 2014.
- 7310B006 (HD.Manh), T.Kido, R.Okamoto, S.Xianliang, Le T.Anh, S.Supratman, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, T.Nakano, T.Takasuga, DD.Nhu, NN. Hung, LK.Son: Serum dioxin levels in vietnamese men more than 40 years after herbicide spraying., *Environ. Sci. Technol.*, 48:3496–3503, 2014.

- 7310B007 (H.Suzuki), T.Kido, R.Okamoto, DD.Nhu, M.Nishijo, H.Nakagawa, K.Tawara, H.Horikawa, Y.Sato, PT.Dung, LH.Thom, NN.Hung: The relationship between dioxin congeners in the breast milk of Vietnamese women and sister chromatid exchange., *Int. J. Mol. Sci.*, 15:7485–7499, 2014.
- 7310B008 (Y.Suwazono), K.Nogawa, Y.Morikawa, M.Nishijo, E.Kobayashi, T.Kido, H.Nakagawa, K.Nogawa: Impact of urinary cadmium on mortality in the Japanese general population in cadmium non-polluted areas., *Int. J. Hyg. Environ. Health.*, 217:807–812, 2014.
- 7310B009 Y.Matsuda, S.Takemoto, R.Hashimoto, A.Tamai, T.Kanda, M.Ishizaki, T.Miwa, S.Morimoto, O.Kitamura, Y.Kawasaki: Implementation report of screening investigation of dementia for inhabitants of rural areas in Himi, Toyama, J. Kanazawa. *Med. Univ.*, 39:67–74, 2014 (in Japanese) .
- 7310B010 (T.Koyama), K.Yoshita, Y.Arai, K.Nakamura, M.Sakurai, M.Nishijo, SY.Nagasawa, Y.Morikawa, M.Tabata, H.Nakagawa: Relationship between daily intake frequency of meals including a staple food, a main dish and a side dish and nutrient intake in independent elderly individuals, *Journal of Japanese Society of Nutrition and Food Science.*, 67:299–305, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 7310I001 M.Nishijo, PT.Tai, TN.Nghi, NTN.Anh, H.Nakagawa, S.Maruzeni, HV.Luong, TH.Anh, NV.Trung, PT.Phuong, LK.Son, T.Kido, Y.Morikawa, H.Nishijo: Effects of dioxin exposure on neurodevelopment and urinary amino acid excretion of children in exposed areas of Vietnam., *The 34th international Symposium on Halogenated Persistent Organic pollutants–Dioxin 2014*, (Madrid, '14.08).
- 7310I002 M.Nishijo, PT.Tai, NTN.Anh, TN.Nghi, H.Nakagawa, T.Kido, T.Waseda, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).
- 7310I003 TN.Nghi, HD.Manh, PT.Tai, M.Nishijo, H.Nakagawa, T.Kido, H.Nishijo: Dioxins and nonortho polychlorinated biphenyl concentrations in breast milk of Vietnamese nursing mothers living in the largest hot spot of dioxin contamination., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).
- 7310I004 (PT.Tai), M.Nishijo, H.Nakagawa, S.Maruzeni, NTN.Anh, HV.Luong, TH.Anh, TN.Nghi, Y.Morikawa, T.Kido, H.Nishijo: Dioxin effects on infant development from newborn until 3 years of age., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).

7320 Division of Vision Research for Environmental Health

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	SASAKI Hiroshi	cataract, epidemiology, uveitis
Professor(Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology
Assistant Professor(Additional Post)	HATSUSAKA Natsuko	ophthalmological optics
Researcher	TSAI Cheng yu	electromagnetic ocular injury

Keywords of Research

electromagnetic waves, micro waves, millimeter waves, ultraviolet rays, infrared rays, non ionizing-radiation, mobile phone, environmental health, cataract epidemiology, prevention of blindness, cataract, pterygium, "glaucoma, age related macular degeneration", "JICA, WHO, outdoor temperature, risk factors search", "Reykjavik eye study, Monzen eye study", "Liaoning eye study, racial differences"

Outline of Research

Main research themes are (1) Population based survey of ocular diseases in the farmers with low income living in the small village of Shanxi Province. China and (2) Radio frequency (RF) effects on health ; Acute ocular tissue damages by 60 GHz RF exposure. Study No.1 : The survey was carried as a part of JICA project on July 2006. Total number of participants was 710, response ratio was 93.9%. Cataract was a top ranked blindness cause. Although, number of patients was small, cases with diabetic retinopathy and age related macular degeneration were noticed. No.2 : The study on acute ocular tissues injuries induced in rabbit eyes by exposure of 60 GHz millimeter RF has been carried out. No ocular injuries were noticed without high dose of the above RF exposure. Among corneal superficial damages which were pointed out by previous investigators, no RF exposure specific damages were seen. No one has pointed out the above up to now.

Publications

Originals

- 7320B001 N.Mita, H.Sasaki, K.Kani, A.Tabuchi, H.Hara: Multiple comparisons for a psychophysical test in bootstrap logistic regression, *J Algorithm Comput Technol.*, 8:339-355, 2014.
- 7320B002 (K.Sasaki), T.Sakai, T.Nagaoka, K.Wake, S.Watanabe, M.Kojima, N.Hasanova, H.Sasaki, K.Sasaki, Y.Suzuki, M.Taki, Y.Kamimura, A.Hirata, H.Shirai: Dosimetry using a localized exposure system in the Millimeter-Wave band for in vivo studies on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 62:1554-1564, 2014.
- 7320B003 A.Arimoto, K.Kitagawa, N.Mita, Y.Takahashi, E.Shibuya, H.Sasaki: Effect of rebamipide ophthalmic suspension on signs and symptoms of keratoconjunctivitis sicca in sjogren syndrome patients with or without punctal occlusions, *Cornea*, 33:806-811, 2014.
- 7320B004 (T.Tokutake), T.Yamauchi, N.Mita, Ken-ichiro Kawamoto, H.Tabuchi, K.Kani, H.Hara, A.Tabuchi, H.Sasaki: Pepeatability of visua acuity testing using a psychometric function, *Jpn. J. Ophthalmol.*, 58:381-387, 2014.
- 7320B005 N.Hatsusaka, K.Sasaki, Y.Kawakami, M.Sasaki, H.Sasaki: Evaluation of casey eye Institute camera for photographic documentation of opaque crystalline lens, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 68:1413-1420, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 7320I001 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh: Tropomyosi: Its relationship to posterior capsule opacity, International Conference on the Lens, (Hawaii, '14.01).
- 7320I002 H.Sasaki, N.Hatsusaka, N.Shibata, S.Shibata, Y.Kurihara, CY.Tsai, E.Kubo: Comparison of ocular UV exposure by facial contour, International Conference on the Lens, (Hawaii, '14.01).
- 7320I003 N.Hatsusaka, N.Shibata, S.Shibata, N.Fujita, H.Osada, E.Kubo, H.Sasaki: Correlation of UV exposure dose between top of head and eye, International Conference on the Lens, (Hawaii, '14.01).
- 7320I004 M.Kojima, CY.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Lens damage induced by 40 GHz millimeter wave, International Conference on the Lens, (Hawaii, '14.01).
- 7320I005 T.Shibata, S.Shibata, E.Kiyokawa, H.Sasaki, E.Kubo: Tropomyosi: Inhibition of progression of sugar cataract in galactose-fed rats and induction of anti-oxidant protein, Peroxiredoxin 6, International Conference on the Lens, (Hawaii, '14.01).
- 7320I006 (P.Steinkamp), K.Sasaki, N.Hatsusaka, F.Fraunfelder, H.Sasaki: Correlating retroillumination images of lens opacity subtype with the change in vision, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I007 N.Mita, H.Osada, N.Shibata, E.Kubo, H.Sasaki: Influential factors in transparent crystalline lens accommodation, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I008 A.Okamoto, M.Sasaki, Y.Takahashi, E.Kubo, H.Sasaki: Correlation between axial length and visual function of eye with aspheric IOL, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I009 E.Shibuya, M.Takahashi, M.Sasaki, A.Okamoto, H.Sasaki: Pupil diameter size and visual function in eyes with multifocal intraocular lens, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I010 M.Takahashi, H.Osada, S.Enta, M.Sasaki, H.Sasaki: Correlation between visual acuity and contrast acuity by type of lens opacity, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I011 (M.Tamura), N.Hatsusaka, Y.Sakamoto, HM.Cheng, H.Sasaki: Regional differences in factors for ocular refraction related to myopia progression among teenagers living in east asia, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I012 N.Hatsusaka, Y.Sakamoto, K.Sasaki, E.Kubo, H.Sasaki: 10 years change in corneal astigmatism with aging, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I013 M.Fukuda, S.Shibata, H.Osada, E.Kubo, H.Sasaki: Delayed corneal wound healing resulting from the administration of fluoroquinolone antibacterial ophthalmic solutions and its causes, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I014 H.Sasaki, N.Hatsusaka, N.Fujita, S.Shibata, E.Kubo: Relationship between UV index and ocular UV-B exposure, World Ophthalmology Congress of the International Council of Ophthalmology, (Tokyo, '14.04).
- 7320I015 E.Kubo, H.Osada, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh: Tropomyosin regulation of stress fiber formation and EMT in lens epithelial cells, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 7320I016 S.Shibata, DP.Singh, N.Shibata, H.Sasaki, E.Kubo: Hyperglycemia- and oxidative stress-induced hyperoxidation of Prdx 6 during lens epithelial cell damage and rat lens opacity in vitro and in vivo, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 7320I017 N.Shibata, K.Sasaki, N.Yamanaka, N.Hatsusaka, H.Sasaki: Applicability of detecting auto fluorescence as early sign of pinguecula, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).
- 7320I018 H.Sasaki, N.Hatsusaka, N.Shibata, S.Shibata, Y.Kurihara, CY.Tsai, E.Kubo: Influence of difference between asian and western facial contours on ocular UV exposure, Association for Research in Vision and Ophthalmology, (Orlando, '14.05).

- 7320I019 (J.Chakarothai), M.Kojima, Kensuke Sasaki, K.Wake, Y.Suzuki, M.Taki, S.Watanabe: Millimeter-wave power absorbed into rabbit eye due to different exposure environments, EMC2014, (Tokyo, '14.05).
- 7320I020 M.Kojima, CY.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, M.Taki, K.Sasaki, H.Sasaki: Millimeter wave exposure induces cornea and lens epithelium damage, BioEM2014, (Cape Town, '14.06).
- 7320I021 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: 75 GHz millimeter wave exposure to eye: role of environment factors in effects, BioEM2014, (Cape Town, '14.06).
- 7320I022 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: Effect of relative Humidity during 40 GHz millimeter wave exposure, 31th URSI General Assembly and Scientific Symposium, (Beijing, '14.08).
- 7320I023 H.Sasaki, N.Hatsusaka, M.Takahashi, N.Shibata, Y.Takahashi, K.Sasaki, E.Kubo: 10 years change in refractive power of crystalline lens and relationship with opacification type in eyes with water clefts, XXXII Congress of the ESCRS, (London, '14.09).
- 7320I024 M.Kojima, CY.Tsai, T.Okuno, K.Sasaki, K.Sasaki, H.Sasaki: Ocular temperature measurements during infrared or millimeter wave exposure, 39th International Conference on Infrared, Millimeter, and THz Waves, (Tucson, '14.09).
- 7320I025 H.Sasaki, N.Mita, N.Hatsusaka, M.Takahashi, E.Shibuya, M.Sasaki, S.Enta, Y.Takahashi, T.Shibata, K.Sasaki, E.Kubo: Visual function of eyes by five types of lens opacities, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I026 H.Osada, N.Hatsusaka, E.Shibuya, M.Sasaki, M.Takahashi, A.Nakano, E.Kubo, T.Abe, K.Tsubota, H.Sasaki: Data-analysis pre-study of initial lenticular findings in emergency workers at Tokyo Electric Power Fukushima Nuclear Power Plant, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I027 K.Kitagawa, N.Shibata, Y.Takahashi, K.Hagiwara, H.Sasaki: Adverse effects of topical anti-glaucomatous agents in patients with severe dry eye, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I028 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Sasaki, H.Sasaki: Effects of environmental factors during millimeter wave exposure, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I029 M.Fukuda, K.Sasaki, H.Sasaki: Cytotoxic effects of 4 OTC ophthalmic solutions on cultured rabbit corneal cell line, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I030 A.Arimoto, K.Nagai, R.Honda, H.Osada, S.Shibata, T.Shibata, E.Kubo, H.Sasaki: Lens pathological change after intravitreal injection of bevacizumab, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I031 S.Shibata, K.Kitagawa, T.Shibata, N.Shibata, K.Hagihara, H.Sasaki: Eye disorders associated with colored contact lenses: 3 case studies, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I032 N.Hatsusaka, H.Sasaki: Measurement of ocular UV exposure with mannequin UV sensors, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I033 N.Mita, N.Hatsusaka, E.Shibuya, M.Sasaki, S.Enta, Y.Takahashi, T.Shibata, K.Sasaki, E.Kubo, H.Sasaki: Visual function of cataract sub-types, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 7320I034 N.Shibata, K.Sasaki, N.Hatsusaka, N.Yamanaka, H.Sasaki: Auto-fluorescence is an early sign of developing pinguecula, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).

7330 Division of Dermatomyiology

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	MOCHIZUKI Takashi	Medical mycology, Dermatomyiosis
Assistant Professor(Additional Post)	ANZAWA Kazushi	Medical mycology

Keywords of Research

fungi, dermatophytes, *Candida* species, *Sporothrix* species, dematiaceous fungi, mitochondrial DNA, restriction fragment length polymorphism, ribosomal DNA, ITS region, sequencing, phylogeny, taxonomy, molecular epidemiology, molecular typing

Outline of Research

Research activities in the Division of Dermatomyiology are as follows:

1. Improvement and application of genetic typing of *Candida albicans* to investigate the fungal flora in oral cavities of patients.
2. Improvement and application of DNA extraction from nail and PCR-RFLP methods for identification of fungal elements in nail for the diagnosis of onychomycosis.
3. Identification of isolates and isolation and identification of fungi from samples sent from nation-wide hospitals to support clinics without molecular biological facilities.
4. Conservation of a fungal collection held in the Department of Dermatology.
5. An epidemiological survey of *Trichophyton tonsurans*

Publications

Originals

- 7330B001 T.Iwanaga, K.Anzawa, T.Mochizuki: Quantification of dermatophyte viability for evaluation of antifungal effect by quantitative PCR, *Mycopathologia*, 177:241-249, 2014.
- 7330B002 (R.Kano), E.Yoshida, T.Yaguchi, V.Hubka, K.Anzawa, T.Mochizuki, A.Hasegawa, H.Kamata: Mating type gene (MAT1-2) of *Trichophyton verrucosum*, *Mycopathologia*, 177:87-90, 2014.

Case Reports

- 7330D002 K.Takeda, K.Anzawa, T.Mochizuki: A case of thermal burn on the extensor surface of forearm caused by a smartphone, *The Japanese Journal of Dermatology*, 124:1149-1151, 2014 (in Japanese) .
- 7330D003 (A.Takeuchi), Y.Hamaguchi, M.Fujimoto, K.Takehara, K.Anzawa, T.Mochizuki: A case of deep cutaneous mycosis by *Scedosporium apiospermum* in a pemphigus foliaceus patient under immunosuppressive condition, *The Japanese Journal of Dermatology*, 124:1135-1140, 2014 (in Japanese) .
- 7330D004 M.Nanbu, K.Kojima, J.Hatta, K.Takeda, T.Fujii, H.Tanabe, T.Mochizuki: A case of erosive pustular dermatosis of the scalp fairly well improved by topical application of corticosteroid, *Skin research*, 13:189-193, 2014 (in Japanese) .
- 7330D005 (S.Urano), Y.Suzuki, K.Anzawa, T.Ohishi, S.Kuroishi, N.Itoh, T.Okada, T.Mochizuki: Phaeomycotic cyst caused by *Exophiala xenobiotica* in a patient with rheumatoid arthritis and lung cancer, *Med. Mycol. J.*, 55:151-156, 2014 (in Japanese) .

7330D007 K.Ikemura, T.Fujii, S.Abe, T.Mochizuki, Y.Oikawa: The first case of *Amblyomma testudinarium* tick bite in Ishikawa prefecture, Japan, J. Kanazawa. Med. Univ., 39:42-44, 2014 (in Japanese) .

Others

7330F001 (M.Maeda), H.Iwata, A.Nakatani, K.Anzawa, T.Mochizuki: A girl infant case of tinea capitis, Annual of Gifu Prefectural General Medical Center, 35:17-20, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

7330I001 T.Mochizuki: Outbreaks of an epidemic of *Trichophyton tonsurans* infection in Japan, Taiwanese Dermatological Association Spring Meeting 2014, (Kaohsiung, '14.05).

7330I002 T.Mochizuki: What's new in 2014: What's new in fungal skin diseases, Taiwanese Dermatological Association Spring Meeting 2014, (Kaohsiung, '14.05).

7330I003 K.Takeda, T.Ushigami, A.Nishibu, K.Anzawa, T.Mochizuki: Molecular polymorphism of *Trichophyton rubrum* strains cultured from isolates from a Japanese patient with several lesions, 3rd Eastern Asia Dermatology Congress, (Jeju, '14.10).

7340 Division of Anticipatory Molecular Food Science and Technology

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	KOYA Daisuke	diabetes, hypertension, obesity, aging
Senior Assistant Professor(Additional Post)	KANASAKI Keizo	diabetes, hypertension, obesity, preeclampsia
Senior Assistant Professor(Additional Post)	KITADA Munehiro	diabetes, diabetical renal disease, hypertension

Publications

Originals

- 7340B001 T.Nagai, M.Kanasaki, SP.Srivastava, Y.Nakamura, Y.Ishigaki, M.Kitada, S.Shi, K.Kanasaki, D.Koya: N-acetyl-seryl-aspartyl-lysyl-proline inhibits diabetes-associated kidney fibrosis and endothelial-mesenchymal transition, *Biomed Res Int.*, 2014:696475;1-12, 2014.
- 7340B002 (FA.Pena), K.Kanasaki, M.Kanasaki, S.Vong, C.Rovira, R.Kalluri: Specific activation of K-rasG12D allele in the bladder urothelium results in lung alveolar and vascular defects, *PLoS ONE*, 9:e95888;1-9, 2014.
- 7340B003 (M.Yasuda), Y.Tanaka, S.Kume, Y.Morita, M.Chin-Kanasaki, H.Araki, K.Isshiki, S.Araki, D.Koya, M.Haneda, A.Kashiwagi, H.Maegawa, T.Uzu: Fatty acids are novel nutrient factors to regulate mTORC1 lysosomal localization and apoptosis in podocytes, *BBA. Mol. Basis Dis.*, 1842:1097-1108, 2014.
- 7340B004 (S.Kume), S.Araki, N.Ono, A.Shinhara, T.Muramatsu, H.Araki, K.Isshiki, K.Nakamura, H.Miyano, D.Koya, M.Haneda, S.Ugi, H.Kawai, A.Kashiwagi, T.Uzu, H.Maegawa: Predictive properties of plasma amino acid profile for cardiovascular disease in patients with type 2 diabetes, *PLoS ONE*, 9:e101219;1-7, 2014.
- 7340B005 K.Kanasaki, S.Shi, M.Kanasaki, J.He, T.Nagai, Y.Nakamura, Y.Ishigaki, M.Kitada, SP.Srivastava, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis in streptozotocin-induced diabetic mice by inhibiting endothelial-to-mesenchymal transition in a therapeutic regimen, *Diabetes*, 63:2120-2131, 2014.

Reviews

- 7340C001 M.Kitada, S.Kume, D.Koya: Role of sirtuins in kidney disease, *Curr. Opin. Nephrol. Hypertens.*, 23:75-79, 2014.
- 7340C002 (S.Kume), K.Yamahara, M.Yasuda, H.Maegawa, D.Koya: Autophagy: emerging therapeutic target for diabetic nephropathy, *Semin. Nephrol.*, 34:9-16, 2014.
- 7340C003 D.Koya, M.Kitada, S.Kume, K.Kanasaki: Interventions against nutrient-sensing pathways represent an emerging new therapeutic approach for diabetic nephropathy, *Clin. Exp. Nephrol.*, 18:210-213, 2014.
- 7340C004 K.Kanasaki, T.Nagai, K.Nitta, M.Kitada, D.Koya: N-acetyl-seryl-aspartyl-lysyl-proline: a valuable endogenous anti-fibrotic peptide for combating kidney fibrosis in diabetes, *Front Pharmacol.*, 5:1-11, 2014.
- 7340C005 S.Shi, Y.He, D.Koya, K.Kanasaki: Cancer biology in diabetes, *J Diabetes Investig*, 5:251-264, 2014.
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- 7340C007 M.Kitada, K.Kanasaki, D.Koya: Clinical therapeutic strategies for early stage of diabetic kidney disease, *World J Diabetes.*, 5:342-356, 2014.
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- 7340C011 SP.Srivastava, S.Shi, D.Koya, K.Kanasaki: Lipid mediators in diabetic nephropathy, *Fibrogenesis Tissue Repair*, 7:1-10, 2014.
- 7340C012 (M.Haneda), K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: A new classification of diabetic nephropathy 2014: a report from joint committee on diabetic nephropathy, *Diabetol Int.*, 5:207-211, 2014.
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- 7340C019 (Joint committee on diabetes nephropathy), M.Haneda, K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: Classification of diabetic nephropathy 2014, *Jpn. J. Nephrol.*, 56:547-552, 2014 (in Japanese) .
- 7340C025 (Joint committee on diabetes nephropathy), M.Haneda, K.Utsunomiya, D.Koya, T.Babazono, T.Moriya, H.Makino, K.Kimura, Y.Suzuki, T.Wada, S.Ogawa, M.Inaba, Y.Kanno, T.Shigematsu, I.Masakane, K.Tsuchiya, K.Honda, K.Ichikawa, K.Shide: Classification of diabetic nephropathy 2014, *The Journal of Metabolism and Clinical Nutrition*, 17:325-330, 2014 (in Japanese) .

Short Communications

- 7340E001 K.Kanasaki, A.Maeshima, G.Taduri, I.Revuelta: Combating kidney fibrosis, *Biomed Res Int.*, 2014:679154;1-2, 2014.

Others

- 7340F001 D.Koya: Dual protein kinase C alpha and beta inhibitors and diabetic kidney disease: a revisited therapeutic target for future clinical trials, *J Diabetes Investig*, 5:147-148, 2014.
- 7340F002 (T.Gohda), A.Mima, JY.Moon, K.Kanasaki: Combat diabetic nephropathy: from pathogenesis to treatment, *J Diabetes Res.*, 2014:207140;1-2, 2014.
- 7340F005 M.Kitada: Elucidation of the mechanisms of diabetic nephropathy, *Diabetic Complications*, 28:155-163, 2014 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 7340H001 K.Kanasaki: Workshop1 Pathophysiology of PE: I Pathogenesis of preeclampsia: COMT deficiency and relevans, The 46th International Congress on Pathophysiology of Pregnancy, (Tokyo, '14.09).
- 7340H002 D.Koya: Symposium7 Aging and metabolism Metabolic changes in aging Nutrient sensing and metabolic health, 2014 International Conference on Diabetes and Metabolism, (Gyeonggido, '14.10), 2014 International Conference on Diabetes and Metabolism abstract book, 65, 2014.

International Conference (Presentations)

- 7340I001 K.Konishi, S.Nakano, H.Ito, S.Tsuda, M.Kitada, K.Kanasaki, M.Nishizawa, A.Nakagawa, D.Koya: AST-120 ameliorates vascular endothelial dysfunctions and atherosclerosis in type 2 diabetic subjects with overt nephropathy, The 8th International Congress on Uremia Research and Toxicity, (Okinawa, '14.03), The 8th International Congress on Uremia Research and Toxicity Program and Abstract, 90, 2014.
- 7340I002 S.Shi, M.Kanasaki, T.Nagai, SP.Srivastava, K.Kanasaki, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis and endothelial-to-mesenchymal transition in streptozotocin-induced diabetic mice in associated with restration of microRNA 29s, The 14th Asian Pacific Congress of Nephrology 2014, (Tokyo, '14.05), Nephrology, 19:(Suppl.S2) 44, 2014.
- 7340I003 K.Kanasaki, M.Kanasaki, S.Shi, SP.Srivastava, D.Koya: Linagliptin-mediated DPP-4 inhibition ameliorates kidney fibrosis in streptozotocin-induced diabetic mice via restoring microRNA29s, American Diabetes Association 74rd Scientific Sessions, (San Francisco, '14.06).
- 7340I004 (N.Ueki), S.Takeda, D.Koya, K.Kanasaki: Deficiency in catechol-o-methyltransferase is associated with glucose intolerance, The 46th International Congress on Pathophysiology of Pregnancy, (Tokyo, '14.09), Abstracts for the 46th International Congress on Pathophysiology of Pregnancy, 90, 2014.
- 7340I005 K.Kanasaki, SP.Srivastava, D.Koya: The antifibrotic microRNA crosstalk in the action of N-acetyl-seryl-aspartyl-lysyl-proline, Cell Symposia: Regulatory RNAs 2014, (Berkeley, '14.10).
- 7340I006 D.Koya, K.Kanasaki, M.Kitada: The antifibrotic microRNA crosstalk in the action of N-acetyl-seryl-aspartyl-lysyl-proline, The 10th International Diabetes Federation-Western Pacific Region Congress / 6th the Asian Association for the Study of Diabetes, (Singapore, '14.11), Diabetes Res. Clin. Pract. Suppl., 106:(Suppl.1) S123-124, 2014.

7400 Core Facility Center

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor(Additional Post)	NAKAMURA Akira	Immunology

Publications

Originals

- 7400B001 X.Zhao, A.Nogawa, T.Matsunaga, T.Takegami, H.Nakagawa, Y.Ishigaki: Proteasome inhibitors and knockdown of SMG1 cause accumulation of Upf1 and Upf2 in human cells., *Int. J. Oncol.*, 44:222–228, 2014.
- 7400B002 (C.J.Treda), T.Fukuhara, T.Suzuki, A.Nakamura, J.Zaini, T.Kikuchi, M.Ebina, T.Nukiwa: Secretory leukocyte protease inhibitor modulates urethane-induced lung carcinogenesis, *Carcinogenesis.*, 35: 896–904, 2014.
- 7400B003 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, T.Kido, T.Kido, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men, *Eur. J. Nutr.*, 53:251–258, 2014.
- 7400B004 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141–149, 2014.
- 7400B005 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661–3677, 2014.
- 7400B006 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1–11, 2014.
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- 7400B008 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C-reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717–727, 2014.
- 7400B009 M.Nishijo, Y.Suwazono, W.Ruangyuttikarn, K.Nambunmee, W.Swaddiwudhipong, K.Nogawa, H.Nakagawa: Risk assessment for Thai population: benchmark dose of urinary and blood cadmium levels for renal effects by hybrid approach of inhabitants living in polluted and non-polluted areas in Thailand, *BMC Public Health*, 14:702;1–9, 2014.
- 7400B010 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid-stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669–674, 2014.
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- 7400B014 H.Shiga, J.Yamamoto, M.Kitamura, H.Nakagawa, T.Matsubasa, A.Seo, T.Miwa: Combinations of two odorants of smell identification test for screening of olfactory impairment., *Auris Nasus Larynx*, 41:523–527, 2014.
- 7400B015 (T.Hisamatsu), K.Miura, T.Ohkubo, T.Yamamoto, A.Fujiyoshi, N.Miyagawa, A.Kadota, N. Takashima, N.Okuda, K. Yoshita, Y.Kita, Y.Murakami, Y.Nakamura, T.Okamura, M.Horie, A.Okayama, H.Ueshima, NIPPON DATA80 Research Group, H.Nakagawa, et al.: High long-chain n-3 fatty acid intake attenuates the effect of high resting heart rate on cardiovascular mortality risk: a 24-year follow-up of Japanese general population., *J. Cardiol.*, 64:218–224, 2014.
- 7400B016 (N.Okuda), J.Stamler, IJ. Brown, H.Ueshima, K.Miura, A.Okayama, S.Saitoh, H.Nakagawa, K.Sakata, K.Yoshita, L.Zhao, P.Elliott, the INTERMAP Research Group: Individual efforts to reduce salt intake in China, Japan, UK, USA: what did people achieve? The INTERMAP population study., *J. Hypertens.*, 32:2385–2392, 2014.
- 7400B017 (TV.Pereira), L.Kimura, Y.Suwazono, H.Nakagawa, M.Daimon, T.Oizumi, T.Kayama, T.Kato, L.Li, S.Chen, D.Gu, W.Renner, W.März, Y.Yamada, PG.Bagos, RC.Mingroni-Netto: Multivariate meta-analysis of the association of G-protein beta 3 gene (GNB3) haplotypes with cardiovascular phenotypes., *Mol. Biol. Rep.*, 41:3113–3125, 2014.
- 7400B018 M.Nishijo, PT.Tai, TNA.Nguyen, TN.Nghi, H.Nakagawa, HV.Luong, AH.Tran, Y.Morikawa, HD.Manh, T.Kido, MN.Nui, NM.Hai, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., *Mol. Psychiatry.*, 19:1220–1226, 2014.
- 7400B019 (T.Kido), TV.Dao, MD.Ho, ND.Dang, NT.Pham, R.Okamoto, TT.Pham, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, SK.Le, HN.Nguyen: High cortisol and cortisone levels are associated with breast milk dioxin concentrations in Vietnamese women., *Eur. J. Endocrinol.*, 170:131–139, 2014.
- 7400B020 (HD.Manh), T.Kido, R.Okamoto, S.Xianliang, Le T.Anh, S.Supratman, S.Maruzeni, M.Nishijo, H.Nakagawa, S.Honma, T.Nakano, T.Takasuga, DD.Nhu, NN. Hung, LK.Son: Serum dioxin levels in vietnamese men more than 40 years after herbicide spraying., *Environ. Sci. Technol.*, 48:3496–3503, 2014.
- 7400B021 (H.Suzuki), T.Kido, R.Okamoto, DD.Nhu, M.Nishijo, H.Nakagawa, K.Tawara, H.Horikawa, Y.Sato, PT.Dung, LH.Thom, NN.Hung: The relationship between dioxin congeners in the breast milk of Vietnamese women and sister chromatid exchange., *Int. J. Mol. Sci.*, 15:7485–7499, 2014.
- 7400B022 (Y.Suwazono), K.Nogawa, Y.Morikawa, M.Nishijo, E.Kobayashi, T.Kido, H.Nakagawa, K.Nogawa: Impact of urinary cadmium on mortality in the Japanese general population in cadmium non-polluted areas., *Int. J. Hyg. Environ. Health.*, 217:807–812, 2014.
- 7400B023 (T.Inohara), S.Kohsaka, T.Okamura, M.Watanabe, Y.Nakamura, A.Higashiyama, A.Kadota, N.Okuda, Y.Murakami, T.Ohkubo, K.Miura, A.Okayama, H.Ueshima, the NIPPON DATA 80/90 Research Group, H.Nakagawa, et al.: Cumulative impact of axial, structural, and repolarization ECG findings on long-term cardiovascular mortality among healthy individuals in Japan: National Integrated Project for prospective observation of Non-Communicable disease and its trends in the aged, 1980 and 1990., *Eur J Prev Cardiol.*, 21:1501–1508, 2014.
- 7400B024 (N.Miyagawa), K.Miura, N.Okuda, T.Kadowaki, N.Takashima, SY.Nagasawa, Y.Nakamura, Y.Matsumura, A.Hozawa, A.Fujiyoshi, T.Hisamatsu, K.Yoshita, A.Sekikawa, T.Ohkubo, RD.Abbott, T.Okamura, A.Okayama, H.Ueshima, the NIPPON DATA80 Research Group, H.Nakagawa, et al.: Long-chain n-3 polyunsaturated fatty acids intake and cardiovascular disease mortality risk in Japanese: A 24-year follow-up of NIPPON DATA80, *Atherosclerosis*, 232:384–389, 2014.
- 7400B025 (Y.Kanari), A.Sugahara-Tobinai, H.Takahashi, M.Inui, A.Nakamura, S.Hirose, T.Takai: Dichotomy in Fc γ RIIB deficiency and autoimmune-prone SLAM haplotype clarifies the roles of the Fc receptor in development of autoantibodies and glomerulonephritis, *BMC Immunol.*, 15:47;1–13, 2014.

- 7400B026 (T.Koyama), K.Yoshita, Y.Arai, K.Nakamura, M.Sakurai, M.Nishijo, SY.Nagasawa, Y.Morikawa, M.Tabata, H.Nakagawa: Relationship between daily intake frequency of meals including a staple food, a main dish and a side dish and nutrient intake in independent elderly individuals, *Journal of Japanese Society of Nutrition and Food Science.*, 67:299–305, 2014 (in Japanese) .

Others

- 7400F001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido,, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men., *Eur. J. Nutr.*, 53:1137–1138, 2014.

Presentations at Conference

International Conference (Presentations)

- 7400I001 M.Nishijo, PT.Tai, TN.Nghi, NTN.Anh, H.Nakagawa, S.Maruzeni, HV.Luong, TH.Anh, NV.Trung, PT.Phuong, LK.Son, T.Kido, Y.Morikawa, H.Nishijo: Effects of dioxin exposure on neurodevelopment and urinary amino acid excretion of children in exposed areas of Vietnam., *The 34th international Symposium on Halogenated Persistent Organic pollutants–Dioxin 2014*, (Madrid, '14.08).
- 7400I002 M.Nishijo, PT.Tai, NTN.Anh, TN.Nghi, H.Nakagawa, T.Kido, T.Waseda, H.Nishijo: 2,3,7,8-tetrachlorodibenzo-p-dioxin in breast milk increases autistic traits of 3-year-old children in Vietnam., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).
- 7400I003 TN.Nghi, HD.Manh, PT.Tai, M.Nishijo, H.Nakagawa, T.Kido, H.Nishijo: Dioxins and nonortho polychlorinated biphenyl concentrations in breast milk of Vietnamese nursing mothers living in the largest hot spot of dioxin contamination., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).
- 7400I004 (PT.Tai), M.Nishijo, H.Nakagawa, S.Maruzeni, NTN.Anh, HV.Luong, TH.Anh, TN.Nghi, Y.Morikawa, T.Kido, H.Nishijo: Dioxin effects on infant development from newborn until 3 years of age., *The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014*, (Bangkok, '14.11).

School of Nursing

8010 Fundamental Nursing

Faculty

Title	Name	Field of Specialization
Professor	SAKAI Keiko	Proficiency and stressor of teachers in nursing
Associate Professor	SAKAI Keiko	Communication Skills
Associate Professor	MATSUI Yuko	Nursing skill
Senior Assistant Professor	SUGIMORI Chiyoko	Nursing Education, fall risk management
Assistant Professor	OKAYAMA Miki	Experiences of diabetic patients that hemodialysis begins hold family's desire
Research Associate	KOBATA Shizuka	fall risk management

Keywords of Research

fundamental nursing, nursing skills, nursing education, communication skills, skin care, wound care

Outline of Research

1. Verification of nursing skills
3. Study of nursing education

Publications

Originals

- 8010B002 (N.Nishio), Y.Matsui, A.Kitagawa, J.Sugama, H.Sanada: Changes in skin characteristics from the time of allogeneic hematopoietic stem cell transplantation, J. Jpn. WOCM, 18:9-19, 2014 (in Japanese) .
- 8010B003 Y.Matsui, R.Murayama, H.Tanabe, M.Oe, M.Fukuda, Y.Motoo, T.Wagatsuma, S.Kinoshita, K.Sakai, C.Konya, J.Sugama, H.Sanada: Analysis of thermographic images in an extravasation model of intravenous infusion in healthy adults, Journal of Nursing Science and Engineering, 1:4-11, 2014 (in Japanese) .

Short Communications

- 8010E002 (K.Aoki), Y.Matsui, A.Kitagawa, J.Sugama, H.Sanada: Morphological characteristics and healing process of pressure ulcers in terminal cancer patients and identification of worsening factors, J. Jpn. WOCM, 17:294-303, 2014 (in Japanese) .

8040 Adult Nursing

Faculty

Title	Name	Field of Specialization
Professor	KONYA Chizuko	Wound Care, Stoma care, Continence care
Associate Professor	MURAKADO Naoko	Chronic nursing, Diabetes nursing
Senior Assistant Professor	KINOSHITA Sachiko	Wound Care, Stoma care, Continence care
Assistant Professor	KITAMURA Yoshiko	Cancer Nursing
Assistant Professor	ASANO Kimi	Wound Care

Keywords of Research

Wound care, Stoma care, Continence care, Chronic Disease Nursing, Cancer Nursing, Terminal Care

Outline of Research

Clinical Medical-Surgical Nursing.

Publications

Originals

- 8040B001 (Y.Ichikawa-Shigeta), J.Sugama, H.Sanada, T.Nakatani, C.Konya, G.Nakagami, T.Minematsu, S.Yusuf, Supriadi, Y.Mugita: Physiological and appearance characteristics of skin maceration in elderly women with incontinence, *J. Wound Care*, 23:18-19,22-23,26, 2014.
- 8040B002 (S.Iizaka), M.Asada, H.Koyanagi, S.Sakaki, A.Naito, C.Konya, H.Sanada: The reliability and validity of color indicators using digital image analysis of peristomal skin photographs: results of a preliminary prospective clinical study, *Ostomy Wound Manage.*, 60:12-29, 2014.
- 8040B003 (Y.Ichikawa-Shigeta), H.Sanada, C.Konya, S.Yusuf, Supriadi, J.Sugama: Risk assessment tool for incontinence-associated dermatitis in elderly patients combining tissue tolerance and perineal environment predictors: a prospective clinical study., *Chronic Wound Care Management and Research.*, 1:41-47, 2014.
- 8040B004 Y.Matsui, R.Murayama, H.Tanabe, M.Oe, M.Fukuda, Y.Motoo, T.Wagatsuma, S.Kinoshita, K.Sakai, C.Konya, J.Sugama, H.Sanada: Analysis of thermographic images in an extravasation model of intravenous infusion in healthy adults, *Journal of Nursing Science and Engineering*, 1:4-11, 2014 (in Japanese) .

8050 Gerontological Nursing

Faculty

Title	Name	Field of Specialization
Professor	HIRAMATSU Tomoko	community/elderly nursing science
Associate Professor	KOIZUMI Yumi	community/elderly nursing science
Assistant Professor	HASHIMOTO Tomoe	community/elderly nursing science

Keywords of Research

gerontological nursing, tactile care, people with dementia and their families, menopausal women, elderly volunteers in the community, learning experience with reality, analyzing the learning effects, frailty in elderly community-dwelling, creation of personal plans for dementia, dementia enlightenment lecture, foot care, care workers, long-term care facilities, bathing care

Outline of Research

Effectiveness verification of tactile care interventions (for people with dementia and their families, menopausal women, etc.), Study of teaching methods Geriatric Nursing (improvement of teaching methods, analysis of learning effects, etc.), Association between hypertension status and the screening test for frailty in elderly community-dwelling, Thoughts on "Creation of personal plans for dementia" in the dementia enlightenment lecture for healthy elderly individuals, Foot care for the elderly, Study of bathing care in elderly long-term care facilities, Study on the cooperation of nurse and care worker

Publications

Originals

- 8050B001 O.Iritani, Y.Koizumi, Y.Hamazaki, H.Yano, T.Morita, T.Himeno, T.Okuno, M.Okuro, K.Iwai, S.Morimoto: Association between blood pressure and disability-free survival among community-dwelling elderly patients receiving antihypertensive treatment, *Hypertens. Res.*, 37:772-778, 2014.

8060 Pediatric Nursing

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	HASHI Shinobu	Single mother, asthma, child, belief, parenting stress
Assistant Professor	TERAI Takahiro	Prevention of Maltreatment, Family Nursing in Child&Maternal Health Care

Keywords of Research

school children, health promotion, families with a young child, child with a developmental disorder, rating scale for family's problem-solving ability, intervention program for families, maltreatment, abuse, assessment

Outline of Research

-
- 1.Psychometric development of a rating scale for family's problem-solving ability with a young child with a developmental disorder (FPAYCDD)
 - 2.Study of the efficacy of a support program for families with a young child with a developmental disorder
 - 3.Study of the efficacy of Lifestyle-improvement Program among Elementary School Children
 - 4.Study of the system for carrying out abuse prevention
-

8070 Maternity Nursing・Midwifery

Faculty

Title	Name	Field of Specialization
Professor	YANAGIHARA Machiko	Maternity Nursing, Midwifery
Senior Assistant Professor	BODA Hitomi	Maternity Nursing, Midwifery
Senior Assistant Professor	IWATANI Kumiko	Maternity Nursing, Midwifery
Assistant Professor	YAMAZAKI Chisato	Maternity Nursing
Research Associate	TAMURA Kana	Maternity Nursing, Midwifery

Keywords of Research

Practice, Pregnancy, Midwife, "Maternity Nursing, perinatal", after childbirth, breastfeeding, parenting stress maternity Nursing, Mother and child nursing, Child care, Mother, Mother-child relation

Outline of Research

Mother-child relation, Nursing education, Education effect, Breastfeeding, Parenting stress, Mother's feeling in child care.

Publications

Originals

- 8070B001 K.Iwatani, K.Shimada, Y.Fukumura: The perception of students towards the educational approach of clinical instructors during the maternity nursing clinical practicum:constructing a scale of students' perception and tendency of students' perception according to their background, J. Tsuruma Health Sci. Soc., 38:85-96, 2014.

8080 Public Health Nursing

Faculty

Title	Name	Field of Specialization
Professor	NAKASHIMA Motoko	public health nursing School hygiene Industrial health
Associate Professor	HAMAZAKI Yuko	public health nursing, study of elder abuse
Associate Professor	SAKURAI Shihomi	Public health nursing, Family nursing
Assistant Professor	TONOYAMA Noriko	Public health nursing

Keywords of Research

community nursing–care activity, community nursing education, Health promotion, activity of community organization, Non-smoking education, School hygiene, Industrial health

Outline of Research

The community nursing study field aims at the science-of-nursing research which can contribute to improvement in the residents of the area, especially the quality of a life of people with health disturbance, and health maintenance.

Publications

Originals

- 8080B001 O.Iritani, Y.Koizumi, Y.Hamazaki, H.Yano, T.Morita, T.Himeno, T.Okuno, M.Okuro, K.Iwai, S.Morimoto: Association between blood pressure and disability-free survival among community-dwelling elderly patients receiving antihypertensive treatment, *Hypertens. Res.*, 37:772–778, 2014.
- 8080B002 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141–149, 2014.
- 8080B003 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1–11, 2014.
- 8080B004 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: HOMA-IR and the risk of hyperuricemia: a prospective study in non-diabetic Japanese men, *Diabetes Res. Clin. Pract.*, 106:154–160, 2014.
- 8080B005 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C-reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717–727, 2014.
- 8080B006 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid-stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669–674, 2014.
- 8080B007 S.Maruzeni, M.Nishijo, K.Nakamura, Y.Morikawa, M.Sakurai, M.Nakashima, T.Kido, R.Okamoto, K.Nogawa, Y.Suwazono, H.Nakagawa: Mortality and causes of deaths of inhabitants with renal dysfunction induced by cadmium exposure of the polluted Jinzu River basin, Toyama, Japan; a 26-year follow-up., *Environ Health.*, 13:18;1–12, 2014.

8080B008 S.Sakurai, Y.Kohno, M.Hirai: Chronic stress and sleep disorder in family caregivers living with frail elderly-A study using indices of subjective evaluation, salivary cortisol, and secretory immunoglobulin A in saliva-, Journal of Japan Academy of Home Care., 17:53-59, 2014 (in Japanese) .

8085 Psychiatric and Mental Health Nursing

Faculty

Title	Name	Field of Specialization
Professor	HASEGAWA Masami	depression, suicide prevention, therapeutic nursing, narrative approach
Senior Assistant Professor	TANAKA Koji	life-world led care, patient-nurse interrelationship, empathy, psychiatric and mental health nursing
Senior Assistant Professor	NAGAYAMA Yutaka	Minimization for the action limitation, psychiatric nursing for acute phase

Keywords of Research

depression, suicide prevention, therapeutic nursing, narrative approach, life-world led care, patient-nurse interrelationship, empathy, psychiatric and mental health nursing, minimizing for the action limitation, physical restraint, seclusion, Emotion Modulation Therapy

Outline of Research

The purpose of our study is to clarify the suicide prevention effect for the depression people by Narrative approach and Emotion Modulation Therapy(EMT). We are trying the effect of these methods as new therapeutic nursing for depression people between our nursing clinic in Japan and Griffith University clinic in Australia.

Publications

Originals

- 8085B001 K.Tanaka, M.Hasegawa: Narratives of a patient with chronic multiple psychiatric disorders and status of the patient-nurse relationship: Achievement of rapport through the narrative approach, *J. So. Nurs. Pract.*, 26:32-45, 2014.
- 8085B002 Y.Nagayama, M.Hasegawa: Nursing care process for releasing psychiatric inpatients from long-term seclusion in Japan: Modified grounded theory approach, *Nurs Health Sci.*, 16:284-290, 2014.
- 8085B003 K.Tanaka, M.Hasegawa: Recovery from depression in the elderly in relation to the life-world, *Journal of Japan Academy of Nursing Science.*, 34:1-10, 2014 (in Japanese) .
- 8085B005 (M.Oe), M.Hasegawa, Y.Nagayama, K.Tanaka, S.Oe, K.Nakanishi, M.Kaneda, K.Morino, A.Fukutsuka, H.Yamagata, K.Nagata, K.Kawamura: Psychiatric nurses' distress in their care for patients with physical complications, *J. So. Nurs. Pract.*, 27:1-8, 2014 (in Japanese) .
- 8085B006 (M.Oe), S.Tsukahara, Y.Nagayama, C.Nishimura: Acquisition process of the motivation to remain in nursing among new graduate nurses, *Journal of Japan Academy of Nursing Science.*, 34:217-225, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 8085I001 K.Tanaka, M.Hasegawa, Y.Toshikazu, Y.Nagayama, M.Oe: Structure of Psychiatric Nurse Empathy, 35th International Association for Human Caring Conference, (Kyoto, '14.05).

- 8085I002 Y.Nagayama, M.Hasegawa: Nursing care process for releasing psychiatric inpatients from long-term seclusion in Japan, 35th International Association for Human Caring Conference, (Kyoto, '14.05).
- 8085I003 M.Hasegawa, M.Oe, K.Tanaka, Y.Nagayama: The efficacy of support groups for people with depression and the possibility of self-help groups, 14th international forum on mood and anxiety disorders, (Vienna, '14.12).

8090 Home Care Nursing

Faculty

Title	Name	Field of Specialization
Professor	MAEDA Shuko	home care, home health care nurse
Senior Assistant Professor	KOHNO Yumiko	home care nursing, home care nursing teaching method, discharge support
Assistant Professor	NAKAI Hisao	Home healthcare, Disaster Nursing, Care Management
Assistant Professor	FUKUDA Moriyoshi	Nursing care of pressure ulcer, Home care

Keywords of Research

Psychiatric Disorder, Community based Workshop, "Recovery" concept, psychiatric service, Public health nursing

home healthcare nursing, home visit nursing, infection control, visiting nurse service station, continuing education, education program

Outline of Research

In this article, we showed clearly that the Community based Workshops for Persons with Psychiatric Disorder, where introduced "Recovery" concept, prevent the exclusion and separation from the community as functioned of the psychiatric service institution in the community.

Practice and restructuring of the infection control education program for home visiting nurses

Publications

Originals

- 8090B002 Y.Matsui, R.Murayama, H.Tanabe, M.Oe, M.Fukuda, Y.Motoo, T.Wagatsuma, S.Kinoshita, K.Sakai, C.Konya, J.Sugama, H.Sanada: Analysis of thermographic images in an extravasation model of intravenous infusion in healthy adults, *Journal of Nursing Science and Engineering*, 1:4-11, 2014 (in Japanese) .
- 8090B004 S.Sakurai, Y.Kohno, M.Hirai: Chronic stress and sleep disorder in family caregivers living with frail elderly—A study using indices of subjective evaluation, salivary cortisol, and secretory immunoglobulin A in saliva—, *Journal of Japan Academy of Home Care.*, 17:53-59, 2014 (in Japanese) .

Others

- 8090F001 H.Nakai, Y.Morishita: Awareness of disaster preparedness that takes physical condition into account among individuals requiring medical care, *Journal of Japan Society of Disaster Nursing*, 16:16-26, 2014 (in Japanese) .

8095 Comprehensive Nursing

Faculty

Title	Name	Field of Specialization
Professor	TAMURA Sachiko	Nephrology Nursing, Transplant Nursing, Paliative Care, Chronic Disease Nursing

Keywords of Research

nephrology, nursing, chronic kidney disease, hemodialysis

nursing, cancer survivors, care development

nursing, live donor, transplants

Outline of Research

Development of A Care for Cancer Survivors

Development of A Care for Live Donor for Transplants

Development of A Care for Patients under Chronic Kidney Disease or Hemodialysis

Publications

Originals

- 8095B002 S.Tamura: Experience perception by living donors who are mothers of patients in renal transplants, The Journal of Japan Academy of Nephrology Nursing, 16:52-58, 2014 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 8095I001 S.Tamura, K.Shintani: The necessity of nursing support for pain management seen from chronic phase cancer survivors' pain and treatment, 18th International Conference on Cancer Nursing, (Panama, '14.09), 2014.
- 8095I002 (K.Shintani), S.Tamura: Current Situation and Issues for Self-Management of Breast Cancer Patients, 18th International Conference Cancer Nursing, (Panama, '14.09), 2014.

8100 Medical Science

Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Cardiovascular Pharmacology
Professor	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Professor	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Professor	KOJIMA Masami	Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature
Professor	HONDA Ryumon	Environment and health, Epidemiology
Professor	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Associate Professor	FUJII Ryota	perinatal medicine, reproductive endocrinology

Keywords of Research

T. Ishibashi/ Nitric Oxide, T. Ishibashi/ Nitrite, T. Ishibashi/ Vasodilators, M. Okada/ Calcaneal fracture, M. Okada/ carpal tunnel syndrome, M. Kojima/electromagnetic radiation, M. Kojima/ultraviolet exposure, M. Kojima/infrared rays exposure

Outline of Research

T. Ishibashi: Studies of kinetics of NO and NO related compound in vivo and mechanism of action of NO releasing vasodilators.
M. Okada: Percutaneous osteosynthesis of calcaneal fractures. Endoscopic surgical treatment of carpal tunnel syndrome.
M. Kojima: Study of ocular effect from electromagnetic radiation (electric wave, ultraviolet rays, and infrared rays) exposure.

Publications

Originals

- 8100B001 O.Iritani, Y.Koizumi, Y.Hamazaki, H.Yano, T.Morita, T.Himeno, T.Okuno, M.Okuro, K.Iwai, S.Morimoto: Association between blood pressure and disability-free survival among community-dwelling elderly patients receiving antihypertensive treatment, *Hypertens. Res.*, 37:772-778, 2014.
- 8100B002 (K.Sasaki), T.Sakai, T.Nagaoka, K.Wake, S.Watanabe, M.Kojima, N.Hasanova, H.Sasaki, K.Sasaki, Y.Suzuki, M.Taki, Y.Kamimura, A.Hirata, H.Shirai: Dosimetry using a localized exposure system in the Millimeter-Wave band for in vivo studies on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 62:1554-1564, 2014.
- 8100B003 Y.Oka, M.Rahman, C.Sasakura, T.Waseda, Y.Watanabe, R.Fujii, S.Makinoda: Prenatal diagnosis of fetal respiratory function: evaluation of fetal lung maturity using lung-to-liver signal intensity ratio at magnetic resonance imaging, *Prenat. Diagn.*, 34:1289-1294, 2014.
- 8100B004 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, T.Kido, T.Kido, Y.Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar-sweetened beverage and diet soda consumption and the 7-year risk for type 2 diabetes mellitus in middle-aged Japanese men, *Eur. J. Nutr.*, 53:251-258, 2014.
- 8100B005 Y.Morikawa, K.Nakamura, M.Sakurai, SY.Nagasawa, M.Ishizaki, M.Nakashima, T.Kido, Y.Naruse, H.Nakagawa: The effect of age on the relationships between work-related factors and heavy drinking, *J. Occup. Health*, 56:141-149, 2014.

- 8100B006 (D.Suvagandha), M.Nishijo, W.Swaddiwudhipong, R.Honda, M.Ohse, T.Kuhara, H.Nakagawa, W.Ruangyuttikarn: A biomarker found in cadmium exposed residents of Thailand by metabolome analysis, *Int J Environ Res Public Health.*, 11:3661–3677, 2014.
- 8100B007 S.Yoneyama, K.Nakamura, K.Nakamura, Y.Morikawa, K.Miura, M.Nakashima, K.Yoshita, M.Ishizaki, T.Kido, Y.Naruse, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Associations between rice, noodle, and bread intake and sleep quality in Japanese men and women, *PLoS ONE*, 9:e105198;1–11, 2014.
- 8100B008 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: HOMA–IR and the risk of hyperuricemia: a prospective study in non-diabetic Japanese men, *Diabetes Res. Clin. Pract.*, 106:154–160, 2014.
- 8100B009 K.Nakamura, M.Sakurai, K.Miura, Y.Morikawa, SY.Nagasawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Overall sleep status and high sensitivity C–reactive protein: a prospective study in Japanese factory workers, *J. Sleep. Res.*, 23:717–727, 2014.
- 8100B010 M.Sakurai, K.Nakamura, K.Miura, K.Yoshita, T.Takamura, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Association between a serum thyroid–stimulating hormone concentration within the normal range and indices of obesity in Japanese men and women., *Intern. Med.*, 53:669–674, 2014.
- 8100B011 S.Maruzeni, M.Nishijo, K.Nakamura, Y.Morikawa, M.Sakurai, M.Nakashima, T.Kido, R.Okamoto, K.Nogawa, Y.Suwazono, H.Nakagawa: Mortality and causes of deaths of inhabitants with renal dysfunction induced by cadmium exposure of the polluted Jinzu River basin, Toyama, Japan; a 26–year follow–up., *Environ Health.*, 13:18;1–12, 2014.
- 8100B012 (Emerging Risk Factors Collaboration), H.Nakagawa, M.Sakurai, K.Nakamura, Y.Morikawa, et al.: Glycated hemoglobin measurement and prediction of cardiovascular disease., *JAMA*, 311:1225–1233, 2014.
- 8100B013 M.Nishijo, PT.Tai, TNA.Nguyen, TN.Nghi, H.Nakagawa, HV,Luong, AH.Tran, Y.Morikawa, HD.Manh, T.Kido, MN.Nui, NM.Hai, H.Nishijo: 2,3,7,8–tetrachlorodibenzo–p–dioxin in breast milk increases autistic traits of 3–year–old children in Vietnam., *Mol. Psychiatry.*, 19:1220–1226, 2014.
- 8100B014 (Y.Suwazono), K.Nogawa, Y.Morikawa, M.Nishijo, E.Kobayashi, T.Kido, H.Nakagawa, K.Nogawa: Impact of urinary cadmium on mortality in the Japanese general population in cadmium non–polluted areas., *Int. J. Hyg. Environ. Health.*, 217:807–812, 2014.
- 8100B015 (T.Koyama), K.Yoshita, Y.Arai, K.Nakamura, M.Sakurai, M.Nishijo, SY.Nagasawa, Y.Morikawa, M.Tabata, H.Nakagawa: Relationship between daily intake frequency of meals including a staple food,a main dish and a side dish and nutrient intake in independent elderly individuals, *Journal of Japanese Society of Nutrition and Food Science.*, 67:299–305, 2014 (in Japanese) .

Reviews

- 8100C001 Y.Morikawa: The issue of sleep as a risk for occupational safety, *Hokuriku Japanese Journal of Public Health.*, 40:17–23, 2014 (in Japanese) .

Others

- 8100F001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, SY.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido., Y. Naruse, Y.Suwazono, S.Sasaki, H.Nakagawa: Sugar–sweetened beverage and diet soda consumption and the 7–year risk for type 2 diabetes mellitus in middle–aged Japanese men., *Eur. J. Nutr.*, 53:1137–1138, 2014.

Presentations at Conference

International Conference (Presentations)

- 8100I001 M.Kojima, CY.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Lens damage induced by 40 GHz millimeter wave, *International Conference on the Lens*, (Hawaii, '14.01).

- 8100I002 (J.Chakarothai), M.Kojima, Kensuke Sasaki, K.Wake, Y.Suzuki, M.Taki, S.Watanabe: Millimeter-wave power absorbed into rabbit eye due to different exposure environments, EMC2014, (Tokyo, '14.05).
- 8100I003 M.Kojima, CY.Tsai, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, M.Taki, K.Sasaki, H.Sasaki: Millimeter wave exposure induces cornea and lens epithelium damage, BioEM2014, (Cape Town, '14.06).
- 8100I004 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: 75 GHz millimeter wave exposure to eye: role of environment factors in effects, BioEM2014, (Cape Town, '14.06).
- 8100I005 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Wake, S.Watanabe, M.Taki, Y.Kamimura, A.Hirata, K.Sasaki, H.Sasaki: Effect of relative Humidity during 40 GHz millimeter wave exposure, 31th URSI General Assembly and Scientific Symposium, (Beijing, '14.08).
- 8100I006 M.Nishijo, PT.Tai, TN.Nghi, NTN.Anh, H.Nakagawa, S.Maruzeni, HV.Luong, TH.Anh, NV.Trung, PT.Phuong, LK.Son, T.Kido, Y.Morikawa, H.Nishijo: Effects of dioxin exposure on neurodevelopment and urinary amino acid excretion of children in exposed areas of Vietnam., The 34th international Symposium on Halogenated Persistent Organic pollutants-Dioxin 2014, (Madrid, '14.08).
- 8100I007 M.Kojima, CY.Tsai, T.Okuno, K.Sasaki, K.Sasaki, H.Sasaki: Ocular temperature measurements during infrared or millimeter wave exposure, 39th International Conference on Infrared, Millimeter, and THz Waves, (Tucson, '14.09).
- 8100I008 K.Iwai, T.Morita, H.Yano, O.Iritani, M.Okuro, S.Morimoto, Y.Nakamura, Y.Ishigaki: CTCF regulates the formation of apoptosis by conjugating the two opposite pathways in arterial smooth muscle cell, European Society of Cardiology Congress 2014, (Barcelona, '14.09), European Heart Journal, 35 (Suppl.) :612-613, 2014.
- 8100I009 K.Iwai, T.Okuno, T.Morita, H.Yano, O.Iritani, M.Okuro, S.Morimoto, Y.Nakamura, Y.Ishigaki: CTCF is prerequisite for the fetal gene expression in the process of hypertrophy of the cardiomyocyte., European Society of Cardiology Congress 2014, (Barcelona, '14.09), European Heart Journal, 35:(Suppl.) 954-955, 2014.
- 8100I010 CY.Tsai, M.Kojima, Y.Suzuki, Kensuke Sasaki, K.Sasaki, H.Sasaki: Effects of environmental factors during millimeter wave exposure, 13th Congress of the International Society of Ocular Toxicology, (Kanazawa, '14.10).
- 8100I011 (PT.Tai), M.Nishijo, H.Nakagawa, S.Maruzeni, NTN.Anh, HV.Luong, TH.Anh, TN.Nghi, Y.Morikawa, T.Kido, H.Nishijo: Dioxin effects on infant development from newborn until 3 years of age., The 3rd International Conference of Asian Environmental Chemistry, ICAEC 2014, (Bangkok, '14.11).
- 8100I012 K.Iwai, T.Okuno, T.Morita, O.Iritani, M.Okuro, S.Morimoto: Nucleostemin and Nucleophosmin Express with Up-regulating Telomere Reverse Transcriptase in the Arteriosclerotic Lesions, Scientific Sessions 2014, American Heart Association, (Chicago, '14.11), Circulation, 130(Suppl):A17204, 2014.

Department of General Education

8610 Natural Sciences

Faculty

Title	Name	Field of Specialization
Professor	TANAKA Ichiro	Scientific sociology, History of technology
Professor	MATSUDA Hiroo	Lorentz manifolds, Curves in Euclidean space
Associate Professor	SHOJI Hiroki	Developmental Biology, Molecular Biology, Biochemistry
Associate Professor	HASHIMOTO Mitsumasa	Radiation Biology, Cell Biology
Senior Assistant Professor	ARIKAWA Tomohiro	Immunology, Developmental Biology
Senior Assistant Professor	MAEDA Masayo	Molecular oncology, Metastasis of Cancer Cells
Senior Assistant Professor	INOUE Tomoki	Graph theory in topology
Assistant Professor	OKUDA Koichi	Fixed-quantity rating system in the heart nuclear medicine

Keywords of Research

Bertrand curve,, Mannheim curve, isotropy group, harmonic form, class number, ideal class group, cyclotomic field,, Mannheim curve, Frenet frame, graph theory in topology, topological polyhedron

Nuclear medicine,, Nuclear cardiology, Imaging, Image processing,, SPECT, DNA repair, 53BP1, NHEJ, HR, Ionizing Radiation, DNA double strand breaks (DSBs)

Metastasis, Metastasis Inducing Gene, RhoGDI β (LyGDI/D4GDI/RhoGDI2)

history of science, history of technology,, Galileo Galilei,, Isaac Newton,, Venetian patent law

ultrastructure, pharynx,, sponge,, metamorphosis, immunoelectron microscopy, neurosynaps,, neurosecretory cell, lectin, galectin,, β -galactoside, Xenopus,, development, placenta

Outline of Research

"Hashimoto:Function of DNA repair enzymes, especially protection mechanisms against DNA double strand breaks induced ionizing radiation

Okuda:The aim of our research is to develop a computer algorithm for the quantitative assessment of myocardial perfusion and sympathetic nerve activity in the nuclear cardiology."

"Matsuda : We define a generalized Mannheim curve in Euclidean space. And we give characterizations of generalized Mannheim curve and examples of generalized Mannheim curve.

Inoue:We extend the Graph Theory, and define a topologicalpolyhedron which covered on closed surface of genus g . We give characterizations and example of the topological polyhedron."

"1) Functional analysis of Galectins, a family of β -galactosides binding proteins.

a) Roles of Galectins in animal development.

b) Roles of Galectins in the placentation and immune tolerance.

"

MAEDA:"Rho guanine nucleotide dissociation inhibitors (RhoGDIs) regulate the activity of Rho family GTPases. Our studies have indicated that RhoGDI β LyGDI/D4GDI/RhoGDI2) plays a role in cancer metastasis.

Further investigation of the details of RhoGDI β 's role in cancer progression and metastasis is important. It will lead to a better treatment for cancer."

TANAKA: The research theme is the history of early modern science and technology. The topics being studied include Galileo Galilei and Venetian Patent Law enacted in 15th century.

Publications

Originals

- 8610B001 K.Okuda, K.Nakajima, M.Yamada, H.Wakabayashi, H.Ichikawa, H.Arai, S.Matsuo, J.Taki, M.Hashimoto, S.Kinuya: Optimization of iterative reconstruction parameters with attenuation correction, scatter correction and resolution recovery in myocardial perfusion SPECT/CT., *Ann. Nucl. Med.*, 28:60–68, 2014.
- 8610B002 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, K.Iwabuchi, N.Tomosugi: RNA-binding protein RBM8A (Y14) and MAGOH localize to centrosome in human A549 cells., *Histochem. Cell Biol.*, 141:101–109, 2014.
- 8610B003 (K.Nakajima), K.Okuda, M.Yoshimura, S.Matsuo, H.Wakabayashi, Y.Imanishi, S.Kinuya: Multicenter cross-calibration of I-123 metaiodobenzylguanidine heart-to-mediastinum ratios to overcome camera-collimator variations, *J. Nucl. Cardiol.*, 21:970–978, 2014.

Reviews

- 8610C001 T.Arikawa, E.Simamura, H.Shimada, T.Nakamura, T.Hatta, H.Shoji: Significance of sugar chain recognition by galectins and its involvement in disease-associated glycosylation, *Congenit. Anom. (Kyoto)*, 54:77–81, 2014.

Presentations at Conference

International Conference (Presentations)

- 8610I001 K.Okuda, K. Nakajima, Y.Kirihara, S.Sugino, S.Matsuo, J. Taki, M.Hashimoto, S.Kinuya: Proposal for standardization of cardiac 123I-metaiodobenzylguanidine washout rate., 11th WFNMB, (Cancun, '14.08).
- 8610I002 (T.Konishi), M.Onoguchi, K.Nakajima, S.Matsuo, H. Wakabayashi, R.Hunayama, K.Okuda, Y.Matsuura: Clinical study to evaluate the performance and impact of attenuation and scatter correction in 201TlCl myocardial perfusion SPECT using a SMARTZOO Mcollimator., 11th WFNMB, (Cancun, '14.08).
- 8610I003 (S.Matsuo), K.Nakajima, M.Yamagishi, H.Wakabayashi, K.Okuda, S.Kinuya: Apical Metabolic Abnormalities is one of the typical features of Takotsubo Cardiomyopathy., 11th WFNMB, (Cancun, '14.08).
- 8610I004 (H.Shiga), J.Taki, K.Okuda, N.Watanabe, H.Tonami, S.Kinuya, M.Furukawa,, T.Miwa: Assessment of peripheral olfactory nerve image in patients with idiopathic olfactory impairments in comparison to healthy volunteers., European Chemoreception Research Organization, (Dijon, '14.09).
- 8610I005 Y.Ishigaki, Y.Nakamura, T.Tatsuno, M.Hashimoto, T.Shimasaki, K.Iwabuchi, N.Tomosugi: Role of RNA binding protein in cell cycle progression and centrosome maturation in human tumor cells., 19th World Congress on Advances in Oncology & 17th International Symposium of Molecular Medicine, (Greece, '14.10).
- 8610I006 (K. Nakajima), K.Okuda, M. Yoshimura, S. Matsuo, H. Wakabayashi, Y. Imanishi, S. Kinuya: Proposal to unify MIBG heart-to-mediastinum ratio using a cross-calibration phantom method: Multi-centre experiments and a clinical validation study., 27th Annual Congress of the European Association of Nuclear Medicine, (Gothenburg, '14.10).
- 8610I007 M.Hashimoto: Analysis of the interaction between 53BP1 and Rad18 for Telomere Ends Fusion, 15thUBMB, (taipei, '14.10).
- 8610I008 R.Sakasai, Y.Sunatani, T.Matsui, M.Hashimoto, K.Iwabuchi: Ubiquitin-dependent activation of DNA-PKcs in response to DNA replication-mediated DNA double strand breaks, The 9th 3R Symposium Together with National Institute of Genetics 2014 International Symposium, (Gotenba, '14.11), Abstracts, 105, 2014.

8620 Human Sciences

Faculty

Title	Name	Field of Specialization
Professor	SHIBUYA Yoshiho	English linguistics, Phonetics
Professor	HARA Akira	Austria literature led by Hofmannsthal
Associate Professor	TAKEDA Koichi	Philosophy, History of logic
Associate Professor	KOCHI Munehiro	Interpretationen von Goethes Werken, Begriff von Bildung
Senior Assistant Professor	HONDA Kojiro	Ethics of technology
Senior Assistant Professor	IKENAKA Masami	English Education
Senior Assistant Professor	CRAIG Woods	English, Medical English
Senior Assistant Professor	BURKE STEVEN Thomas	English
Senior Assistant Professor	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education

Keywords of Research

articulatory phonetics, acoustic phonetics, English phonology, Japanese phonology, pronunciation, L2 research,, language acquisition, medical research article, novel, individualism, quest, existentialism, Bildungsroman, humor, irony, narration, suffering, humanity cross-cultural differences, cultural variation, NLP, Python programming language, medical English,, e-learning

end of the century, culture, the middle Ages, Modern times, Europe

exercise prescription, lifestyle-related diseases, improvement of physical fitness, soccer, PE class

logic, metaphysics, form, content, predicate, category, deduction, induction, matter,, being, substance, definion, Phenomenology, Philosophy of Technology, Ethics of Technology, Engineering Ethics, Robo-ethics, Medical Ethics, Cognitive Science of Learning, History of Science, Philosophy of Science

Outline of Research

"Hara : In the German-language area from the end of the 19th century to the beginning of the 20th century, many prominent intellects appeared in various fields of culture. Hofmannsthal is also one of such intellects in the field of literature. He almost spent the entirety of his life in Vienna, but his influence reaches the whole spiritual world of modern Europe. I analyze his acquaintanceship with intellects of that time and extract the essence of the modern culture in the German-language area and furthermore in all Europe.

Kouchi : Das Europa im zweiten Hälfte des 18. Jahrhunderts ist die Wendezeit von der noch einflussreichen mittelalterlichen Denkweise zur neuen modernen, wie sie der Historiker Reinhart Koselleck die „Sattelzeit“ nennt. Wie man sich damals mit dem Wechsel des Paradigmas auseinander setzte, möchte ich im Fall vom deutschen Dichter Goethe untersuchen und in seinen Werken wie Romanen und Dramen zeigen"

"Our research includes prevention of lifestyle-related diseases for middle aged and elderly persons. In addition, our research focuses on improvement of physical fitness through soccer in PE classes for children."

"Shibuya: Main research topic is Japanese speakers' pronunciation of English. How phonology (what is in the mind of speakers) and phonetics (mostly the gestural movement of articulators) of L1 (here, Japanese) influence the pronunciation of Japanese speakers of English is studied.

Burke:My most recent research interest has been the connection and power that extensive reading has on English

acquisition for EFL students.

Woods:Using computer software for natural language processing of the English found in medical articles to determine the most commonly used words, forms and structures.

Ikenaka:My research topic is how to utilize e-learning materials effectively to raise the motivation of students.”

”TAKEDA:It has been asserted that logic and metaphysics are different to each other in Aristotle because his logic is a organon of science. However, his logic is the system where reasonings are dependent on the contents of propositions, while modern formal logic involves abstraction of any content. In Aristotle, Metaphysics studys the order of things which are contents of logic. From this point, I aim to explicate the relation between logic and metaphysics in Aristotle.

HONDA:It is inquiring about the ethics of technology.

””Tradition of knowledge”” has considered the problem what kind of responsibility occurs why in possible one and the side which inherits knowledge again, by the mainly phenomenological technique.”

Publications

Originals

- 8620B001 (K.Saito), K.Yamaguchi, R.Tsuda: A study of performance in basketball games : focusing on games with a change in number of player, Hiroshima Journal of School education, 20:103-108, 2014 (in Japanese) .
- 8620B002 (M.Hirashita), Y.Nho, S.Omori, K.Miyaguchi, R.Tsuda, T.Murayama: Investigation of physical activity level and motor ability in early childhood in ishikawa prefecture, The Journal of Kanazawa Gakuin University, 20:139-145, 2014 (in Japanese) .
- 8620B003 R.Tsuda, A.Inoue, K.Suzuki, K.Saito: The effect of the soccer class taking into account improvement in physical fitness:focusing on 8vs8 games with changes in pitch area, Football Science, 11:29-38, 2014 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 8620H001 K.Honda: Developing a 'Charter of Roboethics':from a retrospective to a proactive approach in robot techonology engineering, "Roboethics" Technology Assessment and Responsible Innovation in Japan and Germany, (Berlin, '14.12).

International Conference (Presentations)

- 8620I001 K.Honda: Robots? Design and Ethics of Enhancement, Japanese-Dutch workshop in philosophy of technology, (Enschede, '14.06).
- 8620I002 R.Tsuda: The effect on physical fitness of changing pitch area per player in small-sided soccer games in PE classes, 19th annual Congress of the European College of Sport Science, (Amsterdam, '14.07).
- 8620I003 K.Honda: Robotics and Ethics of Enhancement, The 9th International Conference on Applied Ethics, (Sapporo, '14.11).

Affiliated Institution

9030 Northern Noto Institute for Community Medicine

Faculty

Title	Name	Field of Specialization
Professor	NAKASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology

Keywords of Research

The Elderly, Rural Medicine, Medical Needs

Outline of Research

The aim of the research is to clarify the changes of diseases in the aging area and to consider the future medical needs.

9050 Center for FDD-MB

Faculty

Title	Name	Field of Specialization
Director	TAKABAYASHI Haruo	fetal medicine, DNA medicine.

Keywords of Research

FDD-MB, single cell technology, NRBC, noninvasive fetal diagnosis, DNA diagnosis, fetal cell, woman's health, DNA array, Lab on a Chip

Outline of Research

Mission of Center for FDD-MB

1. elucidation of the relationship between fetal cells and mother's health
2. development of fetal DNA diagnosis from maternal blood (FDD-MB)
3. development of single cell technology

Presentations at Conference

International Conference (Key Note Lecture)

- 9050G001 H.Takabayashi, M.Kita: Prenatal Diagnosis using fetal cell, Fetal DNA Diagnosis in Maternal Blood World Wide Researcher Congress and Prenatal Diagnosis, (Jakarta, '14.01).
- 9050G002 H.Takabayashi: Prenatal Diagnosis using Fetal Cells _by FDD-MB System, 12th Congress of the Indian Society for Prenatal Diagnosis and Therapy (ISPAT), (Mumbai, '14.09).

Himi Municipal Hospital

9100 Himi Municipal Hospital

Faculty

Title	Name	Field of Specialization
Director	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Professor	FUKUDA Akihiro	Cardiology
Professor	SAKAMOTO Shigeru	Cardiovascular Surgery
Professor	MORIYAMA Manabu	Kidney transplantation, Urolithiasis
Professor	HATASHIMA Sunao	Anesthesiology/Resuscitation studies
Professor	MATSUKI Nobuo	Oncology Surgery
Associate Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Associate Professor	IGUCHI Masaharu	Respiratory Medicine
Associate Professor	KUGINUKI Yasuaki	Medical Radiography
Associate Professor	KUZAWA Yutaka	Cardio Vascular Surgery
Associate Professor	IKEBUCHI Kimihiro	Orthopaedic Surgery
Associate Professor	MATSUNO Hideo	Allergy, Otorhinolaryngology
Associate Professor	MATSUI Toshiaki	Oral & Maxillofacial Surgery
Senior Assistant Professor	ASANO Masamitsu	Cardiology
Senior Assistant Professor	KIYOSAWA Jun	Cardiology
Senior Assistant Professor	SAITO Atsushi	Nephrology
Senior Assistant Professor	AOKI Nobuyuki	Orthopaedic Surgery
Senior Assistant Professor	OHURA Kazuko	Otorhinolaryngology
Senior Assistant Professor	KAWASAKI Masanori	Anesthesiology/Resuscitation studies
Assistant Professor	MIZUNO Takuro	Cardiology
Assistant Professor	HIGASHIKAWA Toshihiro	Gerontology
Assistant Professor	ISHIGAMI Keiichiro	Gerontology
Assistant Professor	MUKAI Hirokado	Oncology Surgery
Assistant Professor	HAYASHI Kei	Oncology Surgery
Assistant Professor	NAKAMURA Kisuke	Oncology Surgery
Assistant Professor	SAKAMOTO Daisuke	Cardiovascular Surgery
Assistant Professor	ARISAWA Akiko	Orthopaedic Surgery
Assistant Professor	KUSABA Eizo	neurosurgery

Publications

Originals

- 9100B001 M.Matoba, H.Tsuji, Y.Shimode, I.Toyota, Y.Kuginuki, T.Miwa, H.Tonami: Fractional change in apparent diffusion coefficient as an imaging biomarker for predicting treatment response in head and neck cancer treated with chemoradiotherapy, AJNR Am J Neuroradiol., 35:379-385, 2014.

- 9100B002 K.Usuda, M.Sagawa, N.Motono, M.Ueno, M.Tanaka, Y.Machida, S.Maeda, M.Matoba, Y.Kuginuki, M.Taniguchi, H.Tonami, Y.Ueda, T.Sakuma: Diagnostic performance of diffusion weighted imaging of malignant and benign pulmonary nodules and masses: comparison with positron emission tomography, *Asian Pac. J. Cancer Prev.*, 15:4629–4635, 2014.

Case Reports

- 9100D001 T.Mizuno, K.Ishigami, S.Yamada, H.Tsuchiya, C.Nakajima, R.Sangen, M.Fukushima, H.Minato, T.Nojima, A.Saito, N.Hayashi, H.Atsumi, T.Ito, M.Iguchi, D.Usuda, H.Okamura, S.Urashima, M.Asano, J.Kiyosawa, A.Fukuda, N.Takekoshi, T.Kanda: Endocardial invasion of lung cancer undiagnosable before autopsy, *Case Rep Oncol.*, 7:144–148, 2014.
- 9100D002 (K.Kaneko), Y.Matsuta, M.Moriyama, M.Yasuda, N.Chishima, N.Yamaoka, T.Fukuuchi, K.Miyazawa, K.Suzuki: Proteomic analysis of a rare urinary stone composed of calcium carbonate and calcium oxalate dihydrate: A case report, *Int. J. Urol.*, 21:341–346, 2014.