Kanazawa Medical University Research Activities and Publications

VOL. 23 2011



Kanazawa Medical University

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Code

Department

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Basic Medicine

0100 Department of Anatomy I

Faculty

Title	Name	Field of Specialization
Professor	HATTA Toshihisa	developmental biology, neuroscience
Associate 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 blodd vessels.
- 5. Comparative anatomical studies on the brain evolution

Publications

Originals

0100B001 (R.Hashimoto), J.Udagawa, Y.Kagohashi, A.Matsumoto, T.Hatta, H.Otani: Direct and indirect effects of neuropeptide Y and neurotrophin 3 on myelination in the neonatal brains, Brain Res., 1373:55-66, 2011.

Reviews

0100C001 E.Simamura, H.Shimada, H.Shoji, H.Otani, T.Hatta: Effects of melanocortins on fetal development, Congenit. Anom. (Kyoto), 51:47-54, 2011.

Presentations at Conference

International Conference (Presentations)

01001001 E.Simamura, H.Shimada, H.Shoji, H.Otani, T.Hatta: Maternal-placental-fetal leukemia inhibitory factor signal pathway contributes stage-specific differentiation from fetal neural stem/progenitor cells to astrocytes, Society for Neuroscience 2011, (Washington, '11.11).

01001002 T.Hatta, H.Shimada, E.Simamura, H.Shoji, N.Higashi: Leukemia inhibitory factor induces expression of insulin-like growth factor 1 and 2 in the forebrain of rat fetuses via maternal-fetal leukemia inhibitory factor signal pathway, Society for Neuroscience 2011, (Washington, '11.11).

0110 Department of Anatomy II

Faculty

Title	Name	Field of Specialization
Professor	SHINOHARA Harumichi	gross anatomy, embryology, lymphatic vessels, microscopy
Associate Professor	SHIMOKAWA Takash	ni regeneration of skeletal muscle, development of peripheral nerve
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

Outline of Research

Theme of researches

- 1) Anatomical study of brain white matter by using fiber dissection technique
- 2) Immuno-histochemical study of pituitary gland
- 3) Tissue regeneration in urodele amphibian

Publications

Reviews

0110C002 H.Shinohara: Fundamentals of white matter dissection, Jpn. J. Neursurg, 20(suppl2):105-110, 2011 (in Japanese).

0120 Department of Physiology I

Faculty

Name	Field of Specialization
KATO Nobuo	Brain Science
SUGAI Tokio	Neurophysiology
YAMAMOTO Ryo	Neuroscience
WANG Furong	Analysis of Alzheimer disease model mice in search for new therapeutic approaches
LUO Xianwen	Analysis of Alzheimer disease model mice in search for new therapeutic approaches
	KATO Nobuo SUGAI Tokio YAMAMOTO Ryo WANG Furong

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, receptor, GABA, 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 K.Yamamoto, Y.Ueta, L.Wang, R.Yamamoto, N.Inoue, K.Inokuchi, A.Aiba, H.Yonekura, N.Kato: Suppression of a neocortical potassium channel activity by intracellular amyloid-β and its rescue with homer1a, J. Neurosci., 31:11100-11109, 2011.

0120B002 H.Yoshimura, M.Honjyo, T.Sugai, K.Kaneyama, N.Segami, N.Kato: Correlation between stimulation strength and onset time of signal traveling within the neocortical neural circuits under caffeine application, Neurosci. Res., 70:370-375, 2011.

0120B003 H.Yoshimura, M.Honjyo, T.Sugai, M.Kawabe, K.Kaneyama, N.Segami, N.Kato: Influences of audio-visual environments on feelings of deliciousness during having sweet foods: an electroencephalogram frequency analysis study, Nutr. Neurosci., 14:210-215, 2011.

0120B004 P.Sun, F-R.Wang, L.Wang, Yu.Zhang, R.Yamamoto, T.Sugai, Q.Zhang, Z-D.Wang, N.Kato: Increase in cortical pyramidal cell excitability accompanies depression-like behavior in mice: a transcranial magnetic stimulation study, J. Neurosci., 31:16464-16472, 2011.

Presentations at Conference

- 01201001 T.Okuda, Y.Tachi, N.Kawahara, N.Kato, Y.Ishigaki, E.Hatano, Y.Yasuda, T.Matsumoto: Hyaluronidase-4 expression in a rat spinal cord hemisection model, Second Annual Meeting of Cervical Spine Research Society Asia Pacific Section (CSRS-AP 2011), (Busan, '11.04).
- 91201002 Y.Tachi, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Hato, E.Hatano, T.Matsumoto: Does Hyaluronidase-4 digest chondroitin sulfate proteoglycans in a rat spinal cord hemisection model?, Neuroscience 2011, (Washington, '11.11).

0130 Department of Physiology II

Faculty

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Title	Name	Field of Specialization
Professor	SHIBAMOTO Toshishige	Circulatory Physiology
Associate Professor	KURATA Yasutaka	Cardiac Electrophysiology
Senior Assistant Professor	MIYAMAE Shunichi	Cardiac Electrophysiology
Researcher	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, arthery, 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	W.Zhang, T.Shibamoto, Y.Kurata, H.Kohno: Effects of β -adrenoceptor antagonists on anaphylactic hypotension in conscious, Eur. J. Pharmacol., 650:303–308, 2011.
0130B002	W.Zhang, T.Shibamoto, Y.Kuda, C.Omukai, Y.Kurata: Pulmonary vasoconstrictive and bronchoconstrictive responses to anaphylaxis are weakened via β 2-adrenoceptor activation by endogenous epinephrine in anesthetized rats, Anesthesiology, 114:614-623, 2011.
0130B003	C.Kamikado, T.Shibamoto, W.Zhang, Y.Kuda, C.Omukai, Y.Kurata: Portacaval shunting attenuates portal hypertension and systemic hypotension in rat anaphylactic shock, J. Physiol. Sci., 61:161-166, 2011.
0130B004	T.Shibamoto, M.Tsutsumi, C.Omukai, Y.Kuda, W.Zhang, Y.Kurata: Ethanol predominantly constricts presinusoids of isolated perfused livers of rat, guinea pig and mouse, Alcohol Alcohol., 46:117-122, 2011.
0130B005	(T.Urashima), Y.Kurata, J.Miake, M.Kato, K.Ogura, A.Yano, M.Adachi, Y.Tanaka, K.Yamada, T.Hamada, E.Mizuta, M.Kuwabara, M.Kato, Y.Yamamoto, K.Ogino, A.Yoshida, Y.Shirayoshi, I.Hisatome: Enhancing effects of salicylate on quinidine-induced block of human wild type and LQT3 related mutant cardiac Na+ channels, Biomed. Res., 32:303-312, 2011.

- 0130B006 (U.Bahrudin), K.Morikawa, A.Takeuchi, Y.Kurata, J.Miake, E.Mizuta, K.Adachi, K.Higaki, Y.Yamamoto, Y.Shirayoshi, A.Yoshida, M.Kato, K.Yamamoto, E.Nanba, H.Morisaki, T.Morisaki, S.Matsuoka, H.Ninomiya, I.Hisatome: Impairment of ubiquitin-proteasome system by E334K cMyBPC modifies channel proteins, leading to electrophysiological dysfunction, J. Mol. Biol., 413:857-878, 2011.
- 0130B007 (YK.Ting), K.Morikawa, Y.Kurata, P.Li, U.Bahrudin, E.Mizuta, M.Kato, J.Miake, Y.Yamamoto, A.Yoshida, M.Murata, T.Inoue, A.Nakai, G.Shiota, K.Higaki, E.Nanba, H.Ninomiya, Y.Shirayoshi, I.Hisatome: Transcriptional activation of the anchoring protein SAP97 by heat shock factor (HSF)-1 stabilizes K(v) 1.5 channels in HL-1 cells., Br. J. Pharmacol., 162:1832-1842, 2011.
- 0130B008 (P.Li), H.Ninomiya, Y.Kurata, M.Kato, J.Miake, Y.Yamamoto, O.Igawa, A.Nakai, K.Higaki, F.Toyoda, J.Wu, M.Horie, H.Matsuura, A.Yoshida, Y.Shirayoshi, M.Hiraoka, I.Hisatome: Reciprocal control of hERG stability by Hsp70 and Hsc70 with implication for restoration of LQT2 mutant stability, Circ. Res., 108:458-468, 2011.

Presentations at Conference

- 0130I001 T.Shibamoto, W.Zhang, Y.Kurata: Pulmonary vaso- and broncho-constrictive responses to anaphylaxis are attenuated by b2-adrenoceptor activation by endogenous catecholamines in the anesthetized rats, 2011 American Thoracic Society International Conference, (Denver, '11.05).
- 0130I002 T.Shibamoto: The responses of the hepatic and splanchnic vascular beds to vasopressin in mice, as compared with that in rats., The 7th Congress of the Federation of Asian and Oceanian Physiological Societies, (Taipei, '11.10), Abstract, 415, 2011.

0140 Department of Biochemistry I

Faculty

Title	Name	Field of Specialization
Professor	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
Professor	DATE Takayasu	Function of protein Kinase, PKU- β /TLK1 and PKU- α /TLK2
Senior Assistant Professor	HASHIMOTO Mitsumasa	Cell biology, DNA repair, Cell cycle, p53-binding proteins
Assistant Professor	MATSUI Tadashi	Molecular biology, DNA repair, p53-binding proteins
Assistant Professor	SUNATANI Yumi	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.

0150 Department of Biochemistry II

Faculty

Title	Name	Field of Specialization
Professor	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing, MicroRNA function
Associate Professor	YOSHITAKE Yoshino	MicroRNA involved in angiogenesis, Functions of FGF-2 binding protein
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

Publications

Originals

- 0150B001 H.Osada, Y.Yoshitake, T.Ikeda, Y.Ishigaki, T.Takata, N.Tomosugi, H.Sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, Mol. Vis., 17:159–169, 2011.
- 0150B002 (Y.Yamamoto), A.Harashima, H.Saito, K.Tsuneyama, S.Munesue, S.Motoyoshi, D.Han, T.Watanabe, M.Asano, S.Takasawa, H.Okamoto, S.Shimura, T.Karasawa, H.Yonekura, H.Yamamoto: Septic shock is associated with receptor for advanced glycation end products ligation of LPS, J. Immunol., 186:3248–3257, 2011.
- 0150B003 H.Yaguchi, T.Ikeda, H.Osada, Y.Yoshitake, H.Sasaki, H.Yonekura: Identification of the *COL2A1* mutation in patients with type I Stickler syndrome using RNA from freshly isolated peripheral white blood cells, Genet. Test. Mol. Biomarkers, 15:231–237, 2011.
- 0150B004 T.Ikeda, L.Sun, N.Tsuruoka, Y.Ishigaki, Y.Yoshitomi, Y.Yoshitake, H.Yonekura: Hypoxia down-regulates sFlt-1 (sVEGFR-1) expression in human microvascular endothelial cells by a mechanism involving mRNA alternative processing, Biochem. J., 436:399-407, 2011.
- 0150B005 K.Yamamoto, Y.Ueta, L.Wang, R.Yamamoto, N.Inoue, K.Inokuchi, A.Aiba, H.Yonekura, N.Kato: Suppression of a neocortical potassium channel activity by intracellular amyloid-β and its rescue with homer1a, J. Neurosci., 31:11100-11109, 2011.

Presentations at Conference

International Conference (Synposium)

0150H001 T.Ikeda, Y.Yoshitomi, Y.Ishigaki, Y.Yoshitake, H.Yonekura: Soluble VEGFR-1 production is down-regulated under hypoxia in human microvascular endothelial cells by a mechanism involving alternative mRNA 3′ -end processing, The Molecular Biology Society of Japan The 11th Spring Symposium International Symposium on Tumor Biology in Kanazawa, (Kanazawa, '11.05).

- 0150I001 T.Ikeda, Y.Yoshitomi, Y.Ishigaki, Y.Yoshitake, H.Yonekura: Hypoxia doun-regulates sFlt-1(sVEGFR-1) expression in human microvascular endothelial cells by a mechanism involving mRNA alternative processing, 36th FEBS Congress, (Torino, '11.06).
- 9150I002 Y.Yoshitake, H.Osada, T.Ikeda, Y.Yoshitomi, Y.Ishigaki, H.sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, 36th FEBS Congress, (Torino, '11.06).

0160 Department of Pharmacology

Faculty

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

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, intracellular Ca²⁺, coronary circulation, nitric oxide, hemodynamics, nitric oxide-releasing vasodilators, nitrosothiols, signal transduction, anti-tumor drug, proliferation, cell biology

Outline of Research

- $1 \quad \text{Electrophysiological and pharmacological study on the regulatory mechanisms of excitable and non-excitable cells} \\$
- 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

Publications

Originals

0160B001 T.Ishibashi, N.Nishizawa, M.Nakamoto, F.Abe, H.Liu, J.Yoshida, T.Kawada, M.Nishio: Differrent disappearance rates of plasma nitrite (NO₂⁻) contribute to apparent steady-state arterio-venous differences in anesthetized animals, Biol.Pharm.Bull., 34:528-537, 2011.

0160B002 T.Ishibashi, T.Miwa, N.Nishizawa, I.Shinkawa, J.Yoshida, T.Kawada, M.Nishio: Role of plasma S-nitrosothiols in regulation of blood pressure in anesthetized rabbits with special references to hypotensive effects of acetylcholine and nitrovasodilators, Biol.Pharm.Bull., 34:1307-1313, 2011.

0170 Department of Oncologic Pathology

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	KOHNO Hiroyuki	Experimental pathology, Tumor immunology.
Assistant Professor	OYAMA Takeru	Mechanisms of carcinogenesis.

Keywords of Research

cancer chemoprevention, antioxidant, flavonoid, carotenoid, COX-2 inhibitor, organoselenium, intercelluar communication, intermediate biomarker, detoxification enzyme, PCNA, BrdU, apoptosis, cytology, hepatocellular carcinoma, Min mice, inflammation

Outline of Research

Cancer is the result of abnormal genetic control of cell growth that arises from structural alterations in DNA or mutations. Many mutations occur in somatic cells during the lifetime of an individual and some may result in cancer. There is evidence that dietary factors can impede this process. For example, epidemiological studies reveal that the quarter of the population with the lowest dietary intake of fruits and vegetables has roughly twice the cancer risk for most types of cancer compared with the quarter with the highest intake. In recent years the possible chemoprevention of cancer by specific chemical constituents of fruits and vegetables has attracted much attention. Also, several drugs, i.e., COX-2 inhibitors and iNOS inhibitors have been found to effectively inhibit cancer development in animal carcinogenesis models and human clinical studies. Our mission of The Department of Oncologic Pathology is to advance the science and application of cancer prevention through multidisciplinary strategies in research, clinical service, and education using novel animal models and imaging system.

Publications

Originals

0170B001 W.Zhang, T.Shibamoto, Y.Kurata, H.Kohno: Effects of β -adrenoceptor antagonists on anaphylactic hypotension in conscious, Eur. J. Pharmacol., 650:303–308, 2011.

Presentations at Conference

International Conference (Presentations)

0170I001 (A.Sakurai), M.Matsuda, E.Kiyokawa: Mechanism of Ras-induced polyp formation in vitro, FASEB Summer Research Conference on Gastrointestinal Tract XIV: Stem Cells, Adaptation, Inflammation & Cancer, (Colorado, '11.08).

0170I002 (R.Mizuno), E.Kiyokawa, Y.Sakai, M.Matsuda: Live imaging of the mouse intestine with two-photon excitation microscopy, FASEB Summer Research Conference on Gastrointestinal Tract XIV: Stem Cells, Adaptation, Inflammation & Cancer, (Colorado, '11.08).

0180 Department of Pathophysiological and Experimental Pathology

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 Y.Machida, Y.Ueda, M.Shimasaki, K.Sato, M.Sagawa, S.Katsuda, T.Sakuma: Relationship of aquaporin 1,3,and 5 expression in lung cancer cells to cellular differentiation, invasive growth, and metastasis potential, Hum. Pathol., 42:669-678, 2011.
- 0180B002 (N.Nese), G.Martignoni, C.D.Fletcher, R.Gupta, C-C.Pan, H.Kim, J.Y.Ro, I..S.Hwang, K.Sato, F.Bonetti, M.Pea, M.B.Amin, O.Hes, A.Svec, M.Kida, M.Vankalakunti, D.Berel, A.Rogatko, A.M.Gown, M.B.Amin: Pure epithelioid PEComas (so-called epithelioid angiomyolipoma) of the kidney: A clinicopathologic study of 41 cases: detailed assessment of morphology and risk stratification, Am. J. Surg. Pathol., 35:161-176, 2011.
- 0180B003 K.Usuda, Xi.Zhao, M.Sagawa, M.Matoba, Y.Kuginuki, M.Taniguchi, Y.Ueda, T.Sakuma: Diffusion-weighted imaging is superior to positron emission tomography in the detection and nodal assessment of lung cancers, Ann. Thorac. Surg., 91:1689-1695, 2011.
- 0180B004 M.Yamada, H.Shiroeda, R.Hayashi, H.Yano, K.Sato, M.Tsutsumi, T.Arisawa: Survival rates of early-stage HCV-related liver cirrhosis patients without hepatocellular carcinoma are decreased by alcohol, J. Clin. Biochem. Nutr., 48:167-169, 2011.
- 0180B005 (J.F.Guo), K.Higashi, Y.Ueda, Y.Ishigaki, T.Sakuma, M.Oguchi, T.Takegami, Y.Ohta, L.Zhang, K.Xu, H.Nishida, H.Tonami: VEGF-A and its isoform VEGF₁₂₁ mRNA expression measured by quantitative real-time RT-PCR: correlation with F-18 FDG uptake and aggressiveness of lung adenocarcinoma: preliminary study, Ann. Nucl. Med., 25:29-36, 2011.

Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.

Case Reports

- 0180D001 S.Maeda, M.Sugita, M.Sagawa, Y.Ueda, T.Sakuma: Solitary fibrous tumor of the pleura suddenly induced hypoglycemia before surgical treatment, Ann. Thorac. Cardiovasc. Surg., 17:293-296, 2011.
- 0180D002 M.Yamada, H.Shiroeda, T.Nomura, R.Hayashi, K.Sato, M.Tsutsumi, T.Arisawa: Colon cancer arising in an ulcer scar due to intestinal Behçet's disease, Intern. Med., 50:429-32, 2011.
- 0180D003 I.Chikazawa, N.Morita, K.Suga, M.Moriyama, K.Miyazawa, T.Tanaka, K.Suzuki, H.Astumi, H.Minato, K.Sato: Adrenal myelolipoma: A report of two cases, J. Kanazawa. Med. Univ., 36:86-89, 2011 (in Japanese).
- 0180D004 I.Chikazawa, T.Tanaka, K.Suzuki, K.Sato: A case of renal oncocytonma with cystic change, Japanese Journal of Clinical Urology, 65:1031-1033, 2011 (in Japanese).

Short Communications

0180E001 T.Ichiseki, A.Kaneuji, Y.Ueda, S.Nakagawa, T.Mikami, K.Fukui, T.Matsumoto: Osteonecrosis development in a novel rat model characterized by a single application of oxidative stress, Arthritis Rheum, 63:2138-2141, 2011.

Others

0180F001 M.Yamada, H.Shiroeda, K.Sato, R.Hayashi, T.Nomura, M.Tsutsumi, T.Arisawa: Accelerated progression of hepatocellular carcinoma with cytokeratin 19 expression during treatment with lamivudine for hepatitis B virus-related liver cirrhosis, Scand. J. Gastroenterol., 45:249-251, 2011.

Presentations at Conference

- 0180I001 M.Shimasaki, Y.Ueda, K.Sato: Relationship of aquaporin 1, 3 and 5 expression in lung cancer cells to cellular differentiation, invasive growth and metastasis potential., Congress of European Respiratory Society 2011, (Amsterdam, '11.08).
- 0180I002 (Y.Kanazawa), Y.Ueda, M.Shimasaki: Involvement of aquaporin 1 and 5 overexpression in metastasis potential of human osteosarcoma., International Society of Lim Salbage, (Beijing, '11.09).

0190 Department of Microbiology

Faculty

Title	Name	Field of Specialization
Professor	OHARA Yoshiro	Neurovirology, Neuroimmunology.
Associate Professor	MURAKI Yasushi	Virology.
Senior Assistant 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	T.Himeda, T.Okuwa, M.Nojiri, Y.Muraki, Y.Ohara: The anti-apoptotic protein L* of Theiler's murine
	encephalomyelitis virus (TMEV) contains a mitochondrial targeting signal, Virus Res., 155:381-388, 2011.

- 0190B002 Y.Muraki, T.Okuwa, T.Furukawa, Y.Matsuzaki, K.Sugawara, T.Himeda, S.Hongo, Y.Ohara: Palmitoylation of CM2 is dispensable to influenza C virus replication, Virus Res., 157:99–105, 2011.
- 0190B003 T.Himeda, T.Hosomi, N.Asif, H.Shimizu, T.Okuwa, Y.Muraki, Y.Ohara: The Preparation of an infectious full-length cDNA clone of saffold virus, Virol. J., 8:110, 2011.
- 0190B004 (T.Furukawa), Y.Muraki, T.Noda, E.Takashita, R.Sho, K.Sugawara, Y.Matsuzaki, Y.Shimotai, S.Hongo: Role of the CM2 protein in the Influenza C virus replication cycle, J. Virol., 85:1322-1329, 2011.

Reviews

0190C001 T.Himeda, Y.Ohara: Roles of two non-structural viral proteins in virus-induced demyelination, Clin. Exp. Neuroimmunol., 2:49-58, 2011.

Others

- 0190F001 Y.Ohara, T.Himeda: A new member of Cardiovirus: Unknown pathogenicity to humans, J. Plant. Pathol. Microbiol., 2:4, 2011.
- 0190F002 T.Himeda, M.Nojiri, T.Okuwa, Y.Muraki, Y.Ohara: Reverse genetic analysis of the recombination in theilovirus based on the infectious cDNA clones, J. Plant. Pathol. Microbiol., 2:4, 2011.

Presentations at Conference

- 91901001 Y.Muraki, T.Okuwa, T.Himeda, Y.Ohara: The cysteine residues in the extracellular domain of CM2 are dispensable but influence the influenza C virus replication., XV International Congress of Virology, (Sapporo, '11.09).
- 01901002 T.Himeda, T.Hosomi, N.Asif, H.Shimizu, T.Okuwa, Y.Muraki, Y.Ohara: Synthesis of infectious Saffold virus type 3 RNA by T7 RNA polymerase in terminated by a human prepraparathyroid hormone (PTH) signal in the viral genome, XV International Congress of Virology, (Sapporo, '11.09).
- T.Okuwa, Y.Muraki, T.Himeda, Y.Ohara: Glycosylation of influenza C virus CM2 protein affects the early phase of viral replication, XV International Congress of Virology, (Sapporo, '11.09).

0200 Department of Immunology

Faculty

Title	Name	Field of Specialization
Professor	NAKAMURA Akira	Immunology.
Assistant Professor	MATSUBA Shintaro	Immunological pharmacology.

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

Reviews

0200C001 A.Nakamura: Regulation of immune responses by inhibitory receptors, J. Kanazawa. Med. Univ., 36:11-18, 2011 (in Japanese).

0210 Department of Medical Zoology

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	OIKAWA Yosaburo	diagnosis of parasitic disease, tick-borne disease
Senior Assistant Professor	ICHIKAWA Hidetaka	Immunological study for parasitic diseases

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 tickborn diseases in the Noto Peninsula, Ishikawa Prefect.

Publications

Originals

0210B001

(A.Takano), M.Nakao, T.Masuzawa, N.Takada, Y.Yano, F.Ishiguro, H.Fujita, T.Ito, X.Ma, Y.Oikawa, F.Kawamori, K.Kumagai, T.Mikami, N.Hanaoka, S.Ando, N.Honda, K.Taylor, T.Tsubota, S.Konnai, H.Watanabe, M.Ohnishi, H.Kawabata: Multilocus sequence typing implicates rodents as the main reservoir host of human-pathogenic *Borrelia garinii* in Japan, J. Clin. Microbiol., 49:2035-2039, 2011.

Presentations at Conference

International Conference (Presentations)

0210I001

M.Murakami, K. Kamimura, Y.Oikawa, T.Takegami: Isolation and characterization of Japanese encephalitis virus from mosquitoes in Ishikawa, Japan in 2010, XV International Congress of Virology, (Sapporo, '11.09).

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	KINOSHITA Eriko	surgical pathology, molecular pathology		
Assistant Professor	NAKADA Satoko	surgical pathology		
Assistant Professor	FUKUSHIMA Mana	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.

Publications

Originals

0220B001 (T.Daniels), D.Cox, C.Shiboski, M.Schiodt, A.Wu, H.Lanfranchi, H.Umehara, Y.Zhao, S.Challacombe, M.Lam, Y.Souza, J.Schiodt, H.Holm, P.Bisio, M.Gandolfo, T.Sawaki, M.Li, W.Zhang, B.Varghese-Jacob, P.Ibsen, A.Keszler, N.Kurose, T.Nojima, E.Odell, L.Criswell, R.Jordan, J.Greenspan: Associations between salivary gland histopathologic diagnoses and phenotypic features of Sjögren's syndrome among 1,726 registry participants, Arthritis Rheum, 63:2021-2030, 2011.

0220B002 Y.Masaki, M.Miki, Y.Sun, T.Nakamura, H.Iwao, A.Nakajima, N.Kurose, T.Sakai, Z.Jin, T.Sawaki, T.Kawanami, Y.Fujita, M.Tanaka, T.Fukushima, Y.Hirose, H.Umehara: High-dose methotrexate with R-CHOP therapy for the treatment of patients with primary central nervous system lymphoma, Int. J. Hematol., 93:720-726, 2011.

Reviews

0220C001 Y.Masaki, N.Kurose, H.Umehara: IgG4-related disease: a novel lymphoproliferative disorder discovered and established in Japan in the 21st century, J. Clin. Exp. Hematop., 51:13-20, 2011.

Case Reports

- 0220D001 (S.Tanaka), M.Nakada, Y.Hayashi, S.Nakada, S.Sawada-Kitamura, N.Furuyama, T.Suzuki, T.Kamide, Y.Hayashi, S.Yano, J.Hamada: Epithelioid glioblastoma changed to typical glioblastoma: the methylation status of MGMT promoter and 5-ALA fluorescence, Brain Tumor Pathol., 28:59-64, 2011.
- 0220D002 (J.Shimizu), Y.Arano, I.Adachi, M.Morishita, B.Fuwa, M.Saitoh, H.Minato: Adenosquamous carcinoma of the lung in a patient with complete situs inversus, Ann. Thorac. Cardiovasc. Surg., 17:178-81, 2011.
- 0220D003 (H.Suzuki), K.Yamashiro, H.Takeda, T.Nojima, M.Usui: Extra-axial soft tissue chordoma of wrist, Pathol. Res. Pract., 207: 327-331, 2011.
- 0220D004 (I.Ishikawa), K.Morita, S.Hayama, T.Nakagawa, I.Araki, K.Higashi, K.Miyazawa, K.Suzuki, T.Nojima: Imaging of acquired cystic disease—associated renal cell carcinoma by contrast—enhanced ultrasonography with perflubutane microbubbles and positron emission tomography—computed tomography, Clin. Exp. Nephrol., 15:136–140, 2011.
- 0220D005 A.Tempaku, T.Mizuno, M.Hasegawa, A.Saito, N.Yamashita, H.Atsumi, T.Ito, K.Ishigami, M.Miura, Y.Izumi, N.Kurose, H.Minato, T.Nojima, T.Kanda, N.Takekoshi: Interleukin-6 expressing colon cancer with multiple hepatic metastases, J. Kanazawa. Med. Univ., 36:106-110, 2011.
- 0220D006 E.Kinoshita, N.Kurose, H.Minato, T.Nojima, Y.Nakano: Clear cell adenocarcinoma coexisting with squamous cell carcinoma in situ of the uterine cervix-A case report-, J. Jpn. Soc. Clin. Cytol., 50:132-133, 2011 (in Japanese).
- 0220D008 N.Nakaya, I.Sato, T.Shimasaki, H.Nakajima, N.Kurose, T.Nojima, Y.Motoo: A Case of primary cardiac angiosarcoma associated with cardiac tamponade, Cancer & chemotherapy., 38:1353-1355, 2011 (in Japanese).
- 0220D009 I.Chikazawa, K.Miyazawa, T.Tanaka, K.Suzuki, A.Nakagawa, N.Kurose: Composite pheochromocytoma with ganglioneuroma in the adrenal gland: A case report, J. Kanazawa. Med. Univ., 36:83-85, 2011 (in Japanese).
- 0220D010 I.Chikazawa, N.Morita, K.Suga, M.Moriyama, K.Miyazawa, T.Tanaka, K.Suzuki, H.Astumi, H.Minato, K.Sato: Adrenal myelolipoma: A report of two cases, J. Kanazawa. Med. Univ., 36:86–89, 2011 (in Japanese).
- 0220D011 M.Kaito, H.Iwao, E.Kinoshita, H.Funaki, O.Tachibana, M.Matsui: A case of Castleman disease with status epileptics originating from focal cortical dysplasia, Clinical Neurology, 51:487-492, 2011 (in Japanese).

Others

0220F001 H.Minato, T.Nojima, M.Nakano, M.Yamazaki: Safety management in pathology laboratory: from specimen handling to confirmation of reports, Rinsho Byori, 59:299-304, 2011 (in Japanese).

Presentations at Conference

- 92201001 Y.Ono, T.Onishi, Y.Tomita, M.Yokoi, H.Funaki, S.Kinami, K.Omote, N.Ueda, Y.Nakano, M.Noguchi, T.Kosaka, N.Kurose: A breast cancer case having metastasis to the intramammary sentinel lymph node, The International college of Surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi, (Nagoya, '11.06), The International college of Surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi proceedings, 68, 2011.
- 0220I002 H.Minato, N.Kurose, M.Fukushima, T.Nojima, M.Ueno, K.Usuda, M.Sagawa, T.Sakuma: Hepatoid adenocarcinoma with a peripheral mucinous bronchioloalveolar growth pattern, 2011 Pulmonary pathology society biennial meeting, (New York, '11.08).
- 02201003 Y.Masaki, N.Kurose, S.Sugai, H.Umehara: Analysis of serum IgG4 cut-off value to distinguish Sjögren's syndrome from IgG4-related disease, 11th International symposium on Sjögren's syndrome, (Athens, '11.09).

0230 Department of Social and Environmental Medicine

Faculty

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

Keywords of Research

occupation, work-related disease, mental health, cardiovascular disease, non-specific pulmonary disease, musculoskeletal disease, metabolic syndrome, hypertension, job stress, abscentism, 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.Nakashima, Y.Morikawa, M.Sakurai, K.Nakamura, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: Association between long working hours and sleep problems in white-collar workers, J. Sleep. Res., 20:110-116, 2011.

O230B002 Y.Hamazaki, Y.Morikawa, K.Nakamura, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: The effects of sleep duration on the incidence of cardiovascular events among middle-aged male workers in Japan, Scand. J. Work Environ. Health, 37:411-417, 2011.

Reviews

0230C001 Y.Noborisaka, M.Ishizaki, Y.Yamada: Paradoxical signs of smoking-induced chronic kidney disease (CKD) in generally healthy populations, especially those from workplaces, J. Kanazawa. Med. Univ., 36:98-105, 2011.

0230C002 Y.Yamada, Y.Noborisaka, M.Ishizaki: Cigarette smoking and renal damage -recent knowledge from epidemiological studies, J. Kanazawa. Med. Univ., 36:1-10, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

0230H001 M.Nakata: Criteria for acknowledgement and compensation for occupational musculoskeletal disorders in Japan, and their related arguments, The first Japan-Korea joint symposium on Work-related Musculoskeletal Disorders, (Hiroshima, '11.02).

International Conference (Presentations)

0230I001 Y.Morikawa, M.Sakurai, K.Nakamura, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Sift work and heavy drinking, Biological mechanisms, recovery and risk management in the 24th society, (Stockholm, '11.07).

0240 Department of Epidemiology and Public Health

Faculty

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

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 Prevension 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	(QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer PANC-1 cells, Pancreas, 40:55-60, 2011.
0240B002	(Y.Murakami), K.Miura, T.Okamura, H.Ueshima, H.Nakagawa, and for the EPOCH-JAPAN Research Group: Population attributable numbers and fractions of deaths due to smoking: A pooled analysis of 180,000 Japanese, Prev. Med., 52:60-65, 2011.
0240B003	(D.D.Nhu), T.Kido, N.N.Hung, L.T.H.Thom, R.Naganuma, L.K.Son, S.Honma, S.Maruzeni, M.Nishijo, H.Nakagawa: Dioxin levels in the breast milk and estradiol and androgen levels in the saliva of Vietnamese primiparae, Toxicol. Environ. Chem., 93:824-838, 2011.
0240B004	Y.Ishigaki, Y.Nakamura, T.Takehara, N.Nemoto, T.Kurihara, H.Koga, H.Nakagawa, T.Takegami, N.Tomosugi, S.Miyazawa, S.Kuwabata: Ionic liquid enables simple and rapid sample preparation of human culturing cells for

scanning electron microscope analysis, Microsc. Res. Tech., 74:415-420, 2011.

- 0240B005 K.Tawara, M.Nishijo, S.Maruzeni, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, D.D.Nhu, N.N.Hung, L.T.H.Thom: Residual congener pattern of dioxins in human breast milk in southern Vietnam, Chemosphere, 84:979-986, 2011.
- 0240B006 P.T.Tai, M.Nishijo, T.Kido, H.Nakagawa, S.Maruzeni, R.Naganuma, N.T.N.Anh, Y.Morikawa, H.V.Luong, T.H.Anh, N.N.Hung, L.K.Son, K.Tawara, H.Nishijo: Dioxin concentrations in breast milk of Vietnamese nursing mothers: a survey four decades after the herbicide spraying, Environ. Sci. Technol., 45:6625–6632, 2011.
- 0240B007 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 0240B008 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Kurihara, H.Koga, T.Takegami, H.Nakagawa, N.Nemoto, N.Tomosugi, S.Kuwabata, S.Miyazawa: Comparative study of hydrophilic and hydrophobic ionic liquids for observing cultured human cells by scanning electron microscopy., Microsc. Res. Tech., 74:1104-1108, 2011.
- 0240B009 (J.D.Curb), H.Ueshima, B.L.Rodriguez, Q.He, T.A.Koropatnick, H.Nakagawa, K.Sakata, S.Saitoh, A.Okayama, for the INTERLIPID study group: Differences in lipoprotein particle subclass distribution for Japanese Americans in Hawaii and Japanese in Japan: the INTERLIPID study, J. Clin. Lipidol., 5:30-36, 2011.
- 0240B010 M.Nakashima, Y.Morikawa, M.Sakurai, K.Nakamura, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: Association between long working hours and sleep problems in white-collar workers, J. Sleep. Res., 20:110-116, 2011.
- 0240B011 M.Sakurai, J.Stamler, K.Miura, I.J.Brown, H.Nakagawa, P.Elliott, H.Ueshima, Q.Chan, I.Tzoulaki, A.r.Dyer, A.Okayama, L.Zao, for the INTERMAP Research Group: Relationship of dietary cholesterol to blood pressure: the INTERMAP stydy, J. Hypertens., 29:222-228, 2011.
- 0240B012 M.Nagai, Y.Morikawa, K.Kitaoka, K.Nakamura, M.Sakurai, M.Nishijo, Y.Hamazaki, S.Maruzeni, H.Nakagawa: Effects of fatigue on immune function in nurses performing shift work, J. Occup. Health, 53:312-319, 2011.
- 0240B013 Y.Hamazaki, Y.Morikawa, K.Nakamura, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: The effects of sleep duration on the incidence of cardiovascular events among middle-aged male workers in Japan, Scand. J. Work Environ. Health, 37:411-417, 2011.
- 0240B014 (M.Sugihara), R.Oka, M.Sakurai, K.Nakamura, T.Moriuchi, S.Miyamoto, Y.Takeda, K.Yagi, M.Yamagishi: Agerelated changes in abdominal fat distribution in Japanese adults in the general population, J. Int. Med., 50:679-685, 2011.
- 0240B015 (The Emerging Risk Factors Collaboration), D.Wormser, S.Kaptoge, E.A.Di, E.Angelantonio, AM.Wood,
 L.Pennells, A.Thompson, N.Sarwar, JR.Kizer, DA.Lawlor, BG.Nordestgaard, P.Ridker, V.Salomaa, J.Stevens,
 M.Woodward, N.Sattar, R.Collins, SG.Thompson, G.Whitlock, J.Danesh, H.Nakagawa, M.Sakurai, K.Nakamura,
 Y.Morikawa: Separate and combined associations of body-mass index and abdominal adiposity with cardiovascular disease: collaborative analysis of 58 prospective studies, Lancet, 377:1085-1095, 2011.
- 0240B016 (A.Kadota), K.Miura, T.Okamura, A.Hozawa, Y.Murakami, A.Fujiyoshi, N.Takashima, T.Hayakawa, Y.Kita, A.Okayama, Y.Nakamura, H.Ueshima, H.Nakagawa, for the NIPPON DAYA90 research group: Relationship of moderate metabolic risk factor clustering to cardiovascular disease mortality in non-lean Japanese: A 15-year follow-up of NIPPON DATA90, Atherosclerosis, 215:209-213, 2011.
- 0240B017 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Ke Le: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, Organohalogen Compounds., 73:1745-1748, 2011.
- 0240B018 (K.Nambunmee), R.Honda, M.Nishijo, W.Swaddiwudhipong, H.Nakagawa, W.Ruangyuttikarn: High cadmium exposure in Mae Sot's population is associated with high anemia prevalence, Thai J. Toxicology, 26:29-43, 2011.
- 0240B019 Q.Li, M.Nishijo, H.Nakagawa, Y.Morikawa, M.Sakurai, K.Nakamura, T.Kido, K.Nogawa, M.Dai: Relationship between urinary cadmium and mortality in habitants of a cadmium-polluted area: a 22-year follow-up study in Japan, Chin. Med. J., 124:3504-3509, 2011.

- 0240B020 (T.Kido), R.Naganuma, XL.Sun, S.Maruzeni, HD.Manh, E.Koh, H.Suzuki, M.Nishijo, H.Nakagawa, S.Honma, DD.Nhu, LTH.Thom, NN.Hung, LK.Son: Comparison of prostate specific antigen levels in serum between herbicides/dioxin-hot spot and non-sprayed areas in Vietnam, Organohalogen Compounds., 73:1729-1732, 2011.
- 0240B021 M.Nishijo, K.Tawara, T.Seto, Y.Morikawa, R.Naganuma, T.Kido, A.Nguen Thi Nguyet, H.Nakagawa: Relationships between food intake and dioxin concentrations in breast milk of motehrs in Ishikawa prefecture, Japan, Hokuriku Japanese Journal of Public Health., 38:1-8, 2011 (in Japanese).
- 0240B022 (Y.Ohashi), K.Shimamoto, S.Sato, H.Iso, Y.Kita, A.Kitamura, I.Saito, Y.Kiyohara, H.Kawano, H.Nakagawa, H.Toyoshima, T.Ando, M.Taguri, A.Harada, H.Ueshima: Association of obesity and other cardiovascular risk factors with stroke The Japan Arteriosclerosis Longitudinal Study- Exisiting Cohorts Combined (JALS-ECC), Japanese Journal of Public Health., 58:1007-1015, 2011 (in Japanese).

Reviews

0240C001 M.Sakurai: Impact of metabolic syndrome on the risk of atherosclerosis, Hokuriku Japanese Journal of Public Health., 37:21-26, 2011 (in Japanese).

Short Communications

- 0240E001 (Y.Suwazono), K.Nogawa, M.Uetani, K.Miura, K.Sakata, A.Okayama, H.Ueshima, J.Stamuler, H.Nakagawa:
 Application of hybrid approach for estimating the benchmark dose of urinary cadmium for adverse renal effects in the general population of Japan, J. Appl. Toxicol., 31:89-93, 2011.
- 0240E002 (Y.Suwazono), K.Nogawa, M.Uetani, T.Kido, H.Nakagawa: Reassessment of the threshold of urinary cadmium by using hybrid approach in a cadmium non-pulluted area in Japan, Int. J. Hyg. Environ. Health., 214:175-178, 2011.
- 0240E003 (Y.Nakade), T.Takamura, M.Sakurai, H.Misu, M.Nagata, Y.Nanbu, H.Oe, T.Takamura, Y.Sakai, S.Kaneko, T.Wada: Association between coefficients of variation of the R-R intervals on electrocardiograms and post-challenge hyperglycemia in patients with newly diagnosed type 2 diabetes, JDI., 2:324-327, 2011.
- 0240E004 (Y.Suwazono), K.Nogawa, M.Uetani, S.Nakada, T.Kido, H.Nakagawa: Application of the hybrid approach to the benchmark dose of urinary cadmium as the reference level for renal effects in cadmium polluted and non-polluted areas in Japan, Environ. Res., 111:312-314, 2011.

Presentations at Conference

- 0240I001 (Y.Nakamura), Y.Kiyohara, T.Okamura, A.Higashiyama, M.Watanabe, A.Kadota, S.Nagasawa, K.Miura, H.Ueshima, for the NIPPON DATA Research Group: Saturated Fatty Acids Intake and Coronary Heart Disease Mortality in Japan: NIPPON DATA90 1990–2005. Nutrition, Physical Activity and Metabolism, Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions, American Heart Association, (Atlanta, USA, '11.03).
- 9240I002 Y.Morikawa, M.Sakurai, K.Nakamura, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Sift work and heavy drinking, Biological mechanisms, recovery and risk management in the 24th society, (Stockholm, '11.07).
- 0240I003 Y.Hamazaki, Y.Morikawa, K.Nakamura, A.Yonekura, H.Nakagawa: Relationship between participation in a secondary screening for identifying frail elderly and new onset of need for care among the elderly in a rural town, Japan, 2st Japan Korea joint Conference on Community Health Nursing, (Kobe, '11.07).
- 0240I004 (Y.Nakamura), Y.Kiyohara, T.Okamura, A.Higashiyama, M.Watanabe, A.Kadota, S.Nagasawa, K.Miura, H.Ueshima: Saturated fatty acids intake, polyunsaturated fatty acid intake and coronary heart disease mortality in Japan: NIPPON DATA90 1990-2005., European Society of Cardiology, (Paris, France, '11.08).

- 02401005 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Le Ke: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 02401006 S.Maruzeni, T.Kido, HD.Manh, R.Naganuma, S.Homma, XL.Sun, TT.Pham, M.Nishijo, H.Nakagawa, DD.Mhu, LTH.Thom, NN.Hung, LK.Son: Impact of dioxin in breast milk on salivary steroid hormone of Vietnamese primiparas, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 02401007 (T.Kido), R.Naganuma, XL.Sun, S.Maruzeni, HD.Manh, E.Koh, H.Suzuki, M.Nishijo, H.Nakagawa, S.Honma, DD.Nhu, LTH.Thom, NN.Hung, LK.Son: Comparison of prostate specific antigen leveles in serum between herbicides/dioxin-hot spot and non-sprayed in Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 02401008 K.Kitaoka, Y.Morikawa, H.Nakagawa: Burnout and stress coping styles among Japanese psychiatric nurses, 17th International Network for Psychiatric Nursing Research Conference, (Oxford, '11.09).
- 02401009 (MN.Nguyen), E.Hori, S.Urakawa, TNA.Nguyen, T.Pham, M.Nishijo, H.Nakagawa, S.Maruzeni, HA.Tran, T.Ono, H.Nishijo: Effects of maternal exposure to TCDD on parvalbumin-positive neurons in the limbic system of rat offspring, The 6th International Conference of Neurons and Brain Diseases, (Toyama, '11.12).

0250 Department of Legal Medicine

Faculty

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

Keywords of Research

drug abuse, methamphtcamine, brain damage, forensic autopsy, drowning, immunohistochemistry, protinase K

Outline of Research

Mechanism of methamphetamine abuse

Immunohistochemical analysis of brain damage in foreusic autopy cases

Application of proteinase K for diatome detection in the diagnosis of drowning

Publications

Originals

0250B001 T.Takeichi, M.Takarada-Iemata, K.Hashida, H.Sudo, T.Okuda, K.Kokame, T.Hatano, M.Takanashi, S.Funabe, N.Hattori, O.Kitamura, Y.Kitao, O.Hori: The effect of Ndrg2 expression on astroglial activation, Neurochem. Int., 59:21-27, 2011.

0260 Department of Medical Education

Faculty

Title	Name	Field of Specialization
Professor	YASUDA Yukio	undergraduate clinical teaching, graduate education of physicians, medical education
Professor	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
Senior Assistant Professor	FUKUNAGA Toshiharu	laboratory medicine, standardization of blood gas analysis, pulmonary function test.
Assistant Professor	KURODA Naohiro	medical informatics, electronic medical record system, medical educatin

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-shyllabi.

Publications

Others

0260F001 A.Ishimaru, K.Yamashita, N.Tsuji, Y.Yasuda: An educational program of endotracheal suctioning using simulators for physical therapists, J. Jpn. Assoc. Simul. Med. Educ., 4:37-40, 2011 (in Japanese).



0300 Department of Cardiovascular Medicine

Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Koji	Atherosclerosis, lipid metabolism
Professor	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
Associate Professor	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
Associate Professor (Additional Post)	ASAJI Takayoshi	Heart failure
Senior Assistant Professor	AKAO Hironobu	Ischemic heart disease, Coronary intervention
Senior Assistant Professor	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
Assistant Professor	TAKEDA Kenji	Molecular Biology
Assistant Professor	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor	KASENO Kenichi	Arrhythmia, Catheter ablation
Assistant Professor	MOTOYAMA Atsushi	Ischemic heart disease, Coronary intervention
Assistant Professor	IWADARE Mizuho	Atherosclerosis, hypertension
Assistant Professor	WAKASA Minoru	Heart failure

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

Reviews

0300C001 Y.Kawai, R.Ishida, A.Motoyama, K.Kajinami: Place of pitavastatin in the statin armamentarium: promising evidence for a role in diabetes mellitus, Drug Des. Devel. Ther., 5:283-297, 2011.

Others

0300F001 K.Kajinami, Y.Kawai: Beyond C-reactive Protein; new evidence for another inflammatory biomarker predicting cardiovascular disease risk, Atherosclerosis, 214:39-40, 2011.

Presentations at Conference

- 03001001 H.Aoki, I.Matsunari, K.Kajinami: Do myocardial strain and strain rate reflect oxidative, ICNC10, (Amsterdam, '11.05).
- 03001002 H.Aoki, K.Kajinami, I.Matsunari: 2D speckle tracking echocardiography and sympathetic neuronal function in patients with left ventricular dysfunction, ICNC10, (Amsterdam, '11.05).
- 03001003 R.Saito, Y.Kawai, M.Watanabe, A.Motoyama, R.Ishida, M.Kitayama, K.Kajinami: Atherogenic Lipid Profile and Development of Multivessel Coronary Artery Disease in Women, 79th EAS CONGRESS, (Göteborg, '11.06).
- 03001004 M.Wakasa, Y.Kawai, H.Aoki, A.Motoyama, R.Ishida, H.Akao, M.Kitayama, K.Kajinami: Association of Transmyocardial Gradient of n-3 Polyunsaturated Fatty Acid with the Washout Rate of Tc-99m Sestamibi in Patients with Idiopathic Dilated Cardiomyopathy, ESC2011, (Paris, '11.08).
- 03001005 M.Wakasa, Y.Kawai, M.Watanabe, H.Aoki, A.Motoyama, R.Ishida, N.Fujioka, H.Akao, M.Kitayama, K.Kajinami: 3-Methylglutaconic Aciduria (3MGA) in Adult Patients with Left Ventricular Systolic, ESC2011, (Paris, '11.08).
- 03001006 H.Akao, E.Polisecki, K.Kajinami, S.Trompet, J.W.Jukema, Anton J.M. de Craen, Rudi G.J.Westendorp, J.Shepherd, C.Packard, B.M.Buckley, E.J.Schaefer: Genetic Variation at SLCO1B1 Gene Locus and Low Density Lipoprotein Cholesterol Lowering Response to Pravastatin in the Elderly, AHA2011, (Orlando, '11.11).
- 03001007 H.Akao, E.Polisecki, K.Kajinami, S.Trompet, J.W.Jukema, Anton J.M. de Craen, Rudi G.J. Westendorp, J.Shepherd, C.Packard, B.M.Buckley, E.J.Schaefer: KIF6, LPA, TAS2R50, and VAMP8 Genetic Variation, Low Density Lipoprotein Cholesterol Lowering Response to Pravastatin and Heart Disease Risk Reduction in the Elderly, AHA2011, (Orlando, '11.11).

0310 Department of Respirology (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
Senior Assistant Professor	HUANG Jyongsu	lung physiology, sleep disordered breathing
Senior Assistant Professor	MIZUNO Shiro	lung cell and molecular biology, COPD
Senior Assistant Professor	TAKAHASHI Masakatsu	clinical respiratory medicine, pulmonary tuberculosis
Assistant Professor	TOBE Takeyasu	clinical respiratory medicine
Assistant Professor	TSUCHIHARA Katsuma	clinical respiratory medicine, lung cancer
Assistant Professor	OIKAWA Taku	clinical respiratory medicine, lung cancer
Assistant Professor	NAKAGAWA Ken	clinical respiratory medicine, lung cancer
Assistant Professor	FUJIMOTO Yuki	clinical respiratory medicine
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	YAMAYA Atsuyo	clinical respiratory medicine
Assistant Professor	TAKAHARA Yutaka	clinical respiratory medicine

Keywords of Research

acute lung injury, cytokine, nitoric 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

Reviews

0310C001 (N.F.Voelker), J.G.Arroyo, S.Mizuno: COPD/emphysema: The vascular story, Pulm. Circ., 1:320-326, 2011.
 0310C003 A.Yamaya, K.Osanai: Cytokines and proteases involved in pathogenesis of COPD, Japanese Journal of Clinical Medicine, 69:1748-1753, 2011 (in Japanese).

Case Reports

- 0310D001 M.Saito, S.Shinomiya, S.Kitadate, Y.Takahara, A. Yamaya, K.Kouji, Y.Fujimoto, T.Oikawa, K.Nakagawa, K.Tsishihara, M.Iguchi, K.Osanai, H.Toga: A Case of rapidly progressing pulmonary mycosis caused by *Aspergillus niger* developing fungus ball-like shadows, The Journal of the Japan Society for Respiratory Endoscopy, 33:33-37, 2011 (in Japanese).
- 0310D002 K.Nakagawa, S.Kitadate, M.Saito, Y.Fujimoto, K.Kojima, T.Oikawa, K.Oikawa, M.Iguchi, J.Huang, K.Osanai, H.Toga, K.Araida: Two cases of Birt-Hogg-Dube' syndrome in a family, Jpn. j. clin. Radiol., 56:133-137, 2011 (in Japanese).

Presentations at Conference

- 0310I001 S.Mizuno, J.R.Klinger, R.J.White, L.E.Fredenburgh, S.Adnot, K.A.Fagan, N.F.Voelkel, G.Choudhary, N.N.Bauer, M.Oka, T.Lahm, I.R.Preston, R.A.Dweik: Pulmonary arterial remodeling induced by su5416 and allergic airway inflammation, American Thoracic Society International Conference 2011, (Denver, '11.05), Am. J. Respir. Crit. Care Med., 183:A3406, 2011.
- 0310I002 S.Mizuno, J.R.Klinger, R.J.White, L.E.Fredenburgh, S.Adnot, K.A.Fagan, N.F.Voelkel, G.Choudhary, N.N.Bauer, M.Oka, T.Lahm, I.R.Preston, R.A.Dweik: Increased expression of miR34a and miR199a-5 in lung yissues from COPD patinents, Amerivan Thoracic Society International Conference 2011, (Denver, '11.05), Am. J. Respir. Crit. Care Med., 183:A3524, 2011.
- 03101003 S.Mizuno, J.R.Klinger, R.J.White, L.E.Fredenburgh, S.Adnot, K.A.Fagan, N.F.Voelkel, G.Choudhary, N.N.Bauer, M.Oka, T.Lahm, I.R.Preston, R.A.Dweik: Effect of tumor suppressor p53 on hypoxic pulmonary arterial remodeling, American Thoracic Society International Conference 2011, (Denver, '11.05), Am. J. Respir. Crit. Care Med., 183:A3428, 2011.
- 0310I004 K.Osanai, M.Kobayashi, J.Higuchi, M.Zhou, J.Huang, H.Toga: Abeerant lung surgactant homeostasis in Rab38 small GTP ase-mutated rat lungs, American Thoracic Society International Conference 2011, (Denver, '11.05), Am. J. Respir. Crit. Care Med., 183:A5164, 2011.
- 0310I005 S.Mizuno: microRNA-34a and microRNA 199a-5p in COPD and their control of HIF-1alpha, European Respiratory Society Annual Conference 2011, (Amsterdam, '11.09).

0320 Department of Gastroenterology

Faculty

Title	Name	Field of Specialization
Professor	ARISAWA Tomiyasu	Gastro-intestinal disorders
Professor	TSUTSUMI Mikihiro	Mechanism of alcoholic liver disease
Associate Professor	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
Associate Professor	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer
Senior Assistant Professor	JOSEPH George	Mechanism of hepatic fibrosis
Senior Assistant Professor	NAKAMURA Masakatsu	Endoscopic therapy of early gastric cancer
Senior Assistant Professor	OZAKI Kazuaki	Mechanism of portal hypertention in alcoholic liver injury
Assistant Professor	SHIROEDA Shoko	Clinical feature and treatment of severe acute pancreatitis
Assistant Professor	FUKUMURA Atsushi	Etiology and clinical feature of acute hepatitis
Assistant Professor	OTSUKA Toshimi	Clinico-pathological study of nonalcoholic steatohepatitis
Assistant Professor	FUKUYAMA Tomoki	Chemotherapy for gastrointestinal malignant disease
Assistant Professor	HAYASHI Nobuhiko	Mechanism of nonalcoholic fatty liver disease
Assistant Professor (Additional Post)	SAITO Takashi	Treament 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, 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
 - 3 Hepatic support system for severe alcoholic hepatitis
 - (4) Clinical 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
 - 3 Effect of alcohol on chemical carcinogenesis of the liver
 - 4 Pathogenesis for nonalcoholic steatohepatitis

Publications

Originals

- 0320B001 M.Yamada, H.Shiroeda, R.Hayashi, H.Yano, K.Sato, M.Tsutsumi, T.Arisawa: Survival rates of early-stage HCV-related liver cirrhosis patients without hepatocellular carcinoma are decreased by alcohol, J. Clin. Biochem. Nutr., 48:167-169, 2011.
- 0320B002 T.Shibamoto, M.Tsutsumi, C.Omukai, Y.Kuda, W.Zhang, Y.Kurata: Ethanol predominantly constricts presinusoids of isolated perfused livers of rat, guinea pig and mouse, Alcohol Alcohol., 46:117-122, 2011.
- 0320B003 (T.Shibata), T.Tahara, T.Arisawa, I.Hirata: Polymorphism of the salt sensitivity gene angiotensinogen and gastric cancer risk, Mol. Med. Report., 4:723-726, 2011.
- 0320B004 (T.Tahara), T.Shibata, M.Nakamura, H.Yamashita, D.Yoshioka, M.Okubo, J.Yonemura, Y.Kamiya, T.Ishizuka, Y.Nakagawa, M.Nagasaka, M.Iwata, I.Hirata, T.Arisawa: Association between genetic polymorphisms related to DNA repair or xenobiotic pathways and gastric premalignant conditions, Anticancer Res., 31:1459-65, 2011.
- 0320B005 (T.Tahara), T.Shibata, M.Nakamura, M.Okubo, H.Yamashita, D.Yoshioka, J.Yonemura, Y.Kmiya, T.Ishizuka, H.Fujita, M.Nagasaka, H.Yamada, I.Hirata, T.Arisawa: Host genetic factors, related to inflammatory response, influence the CpG island methylation status in colonic mucosa in ulcerative colitis, Anticancer Res., 31:933-938, 2011.
- 0320B006 (T.Tahara), T.Shibata, M.Nakamura, M.Okubo, H.Yamashita, D.Yoshioka, J.Yonemura, T.Ishizuka, I.Hirata, T.Arisawa: Polymorphisms of DNA repair and xenobiotic genes predispose to CpG island methylation in non-neoplastic gastric mucosa, Helicobacter., 16:99-106, 2011.
- 0320B007 (T.Tahara), T.Shibata, M.Nakamura, H.Yamashita, D.Yoshioka, M.Okubo, J.Yonemura, Y.Kamiya, T.Ishizuka, I.Hirata, T.Arisawa: Effect of polymorphisms of IL-1 β and TNF- α genes on CpG island hyper methylation (CIHM) in the nonneoplastic gastric mucosa, Mol. Carcinog., 31:705-10, 2011.
- 0320B008 (M.Okubo), T.Tahara, T.Shibata, M.Nakamura, Y.Kamiya, D.Yoshioka, Y.Maeda, J.Yonemura, T.Ishizuka, T.Arisawa, I.Hirata: Usefulness of magnifying narrow-band imaging endoscopy in the *Helicobacter pylori*-related chronic gastritis, Digestion, 83:161-166, 2011.
- 0320B009 (T.Tahara), T.Shibata, M.Nakamura, H.Yamashita, D.Yoshioka, M.Okubo, J.Yonemura, Y.Maeda, N.Maruyama, T.Kamano, Y.Kamiya, H.Fujita, Y.Nakagawa, M.Nagasaka, M.Iwata, I.Hirata, T.Arisawa: Effect of IL-1 β and TNF- α polymorphisms on the prognosis and survival of gastric cancer patients, Clin. Exp. Med., 11:211-217, 2011.
- 0320B010 (T.Tahara), T.Shibata, M.Nakamura, M.Okubo, H.Yamashita, D.Yoshioka, J.Yonemura, I.Hirata, T.Arisawa:
 Association between polymorphisms in the XRCC1 and GST genes, and CpG island methylation status in colonic mucosa in ulcerative colitis, Virchows Arch., 458:205-211, 2011.
- 0320B011 (M.Okubo), T.Tahara, T.Shibata, M.Nakamura, D.Yoshioka, Y.Maeda, J.Yonemura, T.Ishizuka, T.Arisawa, I.Hirata: Changes in gastric mucosal patterns seen by magnifying NBI during *H. pylori* eradication, J. Gastroenterol., 46:175–182, 2011.
- 0320B012 (T.Tahara), T.Shibata, H.Yamashita, I.Hirata, T.Arisawa: Influence of MDR1 polymorphism on *H. pylori*-related chronic gastritis, Dig. Dis. Sci., 56:103-108, 2011.
- 0320B013 M.Nakamura, T.Shibata, T.Tahara, D.Yoshioka, M.Okubo, J.Yonemura, T.Arisawa, I.Hirata: Usefulness of transnasal endoscopy where endoscopic submucosal dissection is difficult, Gastric Cancer, 14:378–384, 2011.
- 0320B014 (M.Okubo), T.Tahara, T.Shibata, H.Yamashita, M.Nakamura, D.Yoshioka, J.Yonemura, Y.Kamiya, T.Ishizuka, Y.Nakagawa, M.Nagasaka, M.Iwata, H.Yamada, I.Hirata,, T.Arisawa: Association study of common genetic variants in pre-microRNAs in patients with ulcerative colitis, J. Clin. Immunol., 31:69-73, 2011.

Others

0320F001 M.Yamada, H.Shiroeda, K.Sato, R.Hayashi, T.Nomura, M.Tsutsumi, T.Arisawa: Accelerated progression of hepatocellular carcinoma with cytokeratin 19 expression during treatment with lamivudine for hepatitis B virus-related liver cirrhosis, Scand. J. Gastroenterol., 45:249-251, 2011.

Presentations at Conference

- 0320I001 M.Nakamura, T.Arisawa, T.Shibata, T.Tahara, M.Okubo, H.Shiroeda, T.Fukuyama, K.Ozaki, T.Otsuka, I.Hirata: Comparison of cost-effectiveness of three treatments(Rabeprazole with rebamipide combination therapy;lansoprazole with rebamipide combination therapy;raberazole monotherapy)for gastric ulcers post-ESD, DDW2011 (ASGE), (Chicago, '11.05).
- 03201002 H.Shiroeda, T.Tahara, M.Nakamura, H.Yamada, T.Nomura, R.Hayashi, T.Saito, T.Fukuyama, N.Hayashi, T.Otsuka, H.Yano, K.Ozaki, M.Tsuchishima, M.Tsutsumi, T.Shibata, T.Arisawa: Effects of -1018 G>a polymorphism of HRH2 gene,coding histamine H2 receptor,on dap-kinase hypermenthylation in human gastric mucosa, DDW2011(AGA), (Chicago, '11.05).
- 03201003 M.Nakamura, T.Arisawa, T.Shibata, T.Tahara, M.Okubo, H.Shiroeda, T.Fukuyama, K.Ozaki, T.Otsuka, Y.Takakuwa, M.Kuroda, I.Hirata: Prospective study of collagenous colitis onset associated with long-term administration of proton pump inhibitors, DDW2011(ASGE), (Chicago, '11.05).
- 03201004 T.Fukuyama, T.Tahara, M.Nakamura, H.Yamada, T.Nomura, R.Hayashi, T.Otsuka, H.Yano, K.Ozaki, H.Shiroeda, M.Tsuchishima, M.Tsutsumi, T.Shibata, T.Arisawa: The pre-microRNA 325,targeting Slc6a4 3'-Utr,gene polymorphism is closely associated with the risk of functional dyspesia in Japan, DDW2011(AGA), (Chicago, '11.05).
- 03201005 K.Ozaki, T.Tahara, M.Nakamura, T.Fukuyama, T.Otsuka, M.Okubo, T.Shibata, T.Arisawa: The-1018 G>a polymorphism of HRH2 gene, coding histamine H2 receptor, affects the susceptibility to the gastric carcinogenesis in Japan, DDW2011(AGA), (Chicago, '11.05).
- 0320I006 T.Arisawa, T.Tahara, M.Nakamura, T.Fukuyama, T.Otsuka, H.Shiroeda, M.Okubo, T.Shibata: The-449 C>G polymorphism of NFKVB1 gene,coding nuclear factor-kappa B,is associated with the susceptibility to the gastric carcinogenesis in Japan, DDW2011(AGA), (Chicago, '11.05).
- 0320I007 J.George, T.Fukuyama, N.Hayashi, K.Ozaki, H.Shiroeda, T.Arisawa, M.Tsutsumi: Oxxasional alcohol intake promotes nonalcoholic steatohepatitis in obese rats, ALPD2011, (Fukuoka, '11.10).
- 03201008 J.George, J.D'Armiento, M.Tsutsumi: Human MMP-1 transgene protects expermentally induced hepatic fibrosis in mice, AASLD2011, (San Francisco, '11.10).
- 0320I009 M.Tsuchishima, J.George, H.Shiroeda, T.Saito, T.Arisawa, M.Tsutsumi: Mechanism of the pathogenesis of hepatocellular carcinoma during chronic administration of ethanol in mice, AASLD2011, (San Francisco, '11.11).
- O320I010 Y.Kuginuki, H.Tonami, M.Tsutumi, T.Arisawa: Diffusion-weighted MR imaging with navigator -triggered prospective acquisition correction at 3 T for the assessment of hepatic fibrosis, 97th Radiological Society of North America, (Chicago, '11.11).

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	YAMAYA Hideki	Clinical nephrology
Senior Assistant Professor	OKUYAMA Hiroshi	Clinical nephrology
Assistant Professor	ADACHI Hiroki	Clinical nephrology
Assistant Professor	CHIKAZAWA Yoshihiro	Clinical nephrology
Assistant Professor	NAKAGAWA Masaru	Clinical nephrology
Assistant Professor	HAYAMA Satoshi	Clinical nephrology
Assistant Professor	ATSUMI Hirokatsu	Clinical nephrology
Assistant Professor	IMURA Junko	Clinical nephrology
Assistant Professor	FUJIMOTO Keiji	Clinical nephrology
Assistant Professor	KIMURA Shogo	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 (H.Sugiyama), H.Yokoyama, H.Sato, T.Saito, Y.Kohda, S.Nishi, K.Tsuruya, H.Kiyomoto, H.Iida, T.Sasaki, M.Higuchi, M.Hattori, K.Oka, S.Kagami, M.Nagata, T.Kawamura, M.Honda, Y.Fukasawa, A.Fukatsu, K.Morozumi, N.Yoshikawa, Y.Yuzawa, S.Matsuo, Y.Kiyohara, K.Joh, T.Taguchi, H.Makino: Japan renal biopsy registry: the first nationwide, web-based, and prospective registry system of renal biopsies in Japan, Clin. Exp. Nephrol., 15:493–503, 2011.
- 0330B002 (K.Furuichi), Y.Hisada, M.Shimizu, T.Okumura, K.Kitagawa, K.Yoshimoto, Y.Iwata, H.Yokoyama, S.Kaneko, T.Wada: Matrix metalloproteinase-2 (MMP-2) and membrane-type 1 MMP (MT1-MMP) affect the remodeling of glomerulosclerosis in diabetic OLETF rats, Nephrol. Dial. Transplant., 26:3124-3131, 2011.
- 0330B003 Y.Ishigaki, Y.Nakamura, T.Takehara, N.Nemoto, T.Kurihara, H.Koga, H.Nakagawa, T.Takegami, N.Tomosugi, S.Miyazawa, S.Kuwabata: Ionic liquid enables simple and rapid sample preparation of human culturing cells for scanning electron microscope analysis, Microsc. Res. Tech., 74:415-420, 2011.
- 0330B004 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 0330B005 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Kurihara, H.Koga, T.Takegami, H.Nakagawa, N.Nemoto, N.Tomosugi, S.Kuwabata, S.Miyazawa: Comparative study of hydrophilic and hydrophobic ionic liquids for observing cultured human cells by scanning electron microscopy., Microsc. Res. Tech., 74:1104-1108, 2011.
- 0330B007 H.Atsumi, I.Ishikawa, K.Morita, T.Nakazawa, H.Yokoyama: Computerized Decision Support (CDS) for Dosing of Iron and Erythropoiesis-stimulating Agents in Hemodialysis Patients, J. Kanazawa. Med. Univ., 36:119-123, 2011 (in Japanese).

Reviews

- 0330C001 H.Yokoyama, H.Okuyama, H.Yamaya: Clinicopathological insights into lupus glomerulonephritis in Japanese and Asians, Clin. Exp. Nephrol., 15:321–330, 2011.
- 0330C003 J.Imura, H.Yokoyama: Renal complications in Sjogren syndrome, Clinic all-round; Sogo rinsho., 60:1365-1370, 2011 (in Japanese).

Presentations at Conference

- 0330I001 S.Kimura, J.Imura, H.Atsumi, K.Fujimoto, Y.Chikazawa, M.Nakagawa, S.Hayama, H.Okuyama, H.Yamaya, H.Yokoyama: A new insight into circulating fibrocytes and peritubular pericytes in renal allograft nephropathy, XLVIII ERA-EDTA Congress, (Prague, '11.06).
- 0330I002 H.Yokoyama, A.Saito, I.Ishikawa: Cinacalcet loading test predicts the effect of long-term cinacalcet treatment in hemodialysis patients with secondary hyperparathyroidism, ASN Kidney Week 2011 Annual Meeting, (Philadelphia, '11.11).

0340 Department of Endocrinology and Metabolism

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	KONISHI Kazunori	diabetes, arteriosclerosis
Senior Assistant Professor	TSUDA Shinichi	diabetes, hypertension, arteriosclerosis
Senior Assistant Professor	KITADA Munehiro	diabetes, diabetical renal disease, hypertension
Senior Assistant Professor	KANASAKI Keizo	diabetes, hypertenstion, obesity, preeclampsia
Assistant Professor	ITO Hiroki	diabetes, thyroid diseases
Research Doctor	KANASAKI Megumi	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 X.Yang, S.Kume, Y.Tanaka, K.Isshiki, S.Araki, M.Chin-Kanasaki, T.Sugimoto, D.Koya, M.Haneda, T.Sugaya, D.Li, P.Han, Y.Nishio, A.Kashiwagi, H.Maegawa, T.Uzu: GW501516, a PPAR δ agonist, ameliorates tubulointerstitial inflammation in proteinuric kidney disease via inhibition of TAK1-NF κ B pathway in mice, PLoS ONE, 6:e25271, 2011.

0340B002 M.Kitada, S.Kume, N.Imaizumi, D.Koya: Resveratrol improves oxidative stress and protects against diabetic nephropathy through normalization of Mn-SOD dysfunction in AMPK/SIRT1-independent pathway, Diabetes, 60:634-643, 2011.

- 0340B003 H.Astumi, M.Kitada, K.Kanasaki, D.Koya: Reversal of redox-dependednt inhibition of diacylglycerol kinase by antioxidants in mesangial cells exposed to high glucose, Mol. Med. Report., 4:923-927, 2011.
- 0340B004 M.Kitada, A.Takeda, T.Nagai, H.Ito, K.Kanasaki, D.Koya: Dietary restriction ameliorates diabetic nephropathy through anti-inflammatory effects and regulation of the autophagy via restoration of Sirt1 in diabetic Wistar fatty (fa/fa) rats: a model of type 2 diabetes, Exp. Diabetes Res., 2011/908185;1-11, 2011.
- 0340B005 (T.Koyama), S.Kume, D.Koya, S.Araki, K.Isshiki, M.Chin-Kanasaki, T.Sugimoto, M.Haneda, T.Sugaya, A.Kashiwagi, H.Maegawa, T.Uzu: SIRT3 attenuates palmitate-induced ROS production and inflammation in proximal tubular cells., Free Radic. Biol. Med., 51:1258-67, 2011.
- 0340B006 (T.Uzu), H.Yokoyama, H.Ito, D.Koya, A.Nakagawa, M.Nishizawa, H.Maegawa, Y.Yokomaku, S.Araki, A.Abiko, M.Haneda: Elevated serum levels of interleukin-18 in patients with overt diabetic nephropathy: effects of miglitol, Clin. Exp. Nephrol., 15:58-63, 2011.
- 0340B007 (S.Maeda), D.Koya, S.Araki, T.Babazono, T.Umezono, M.Toyoda, K.Kawai, M.Imanishi, T.Uzu, D.Suzuki, H.Maegawa, A.Kashiwagi, Y.Iwamoto, Y.Nakamura: Association between single nucleotide polymorphisms within genes encoding sirtuin families and diabetic nephropathy in Japanese subjects with type 2 diabetes, Clin. Exp. Nephrol., 15:381-390, 2011.

Reviews

- 0340C001 M.Kanasaki, T.Nagai, M.Kitada, D.Koya, K.Kanasaki: Elevation of the antifibrotic peptide N-acetyl-seryl-aspartyl-lysyl-proline: a blood pressure-independent beneficial effect of angiotensin I-converting enzyme inhibitors, Fibrogenesis Tissue Repair, 4:25;1-12, 2011.
- 0340C002 F.Liang, R.Chen, A.Nakagawa, M.Nishizawa, S.Tsuda, H.Wang, D.Koya: Low-Frequency Electroacupuncture Improves Insulin Sensitivity in Obese Diabetic Mice through Activation of SIRT1/PGC-1 α in Skeletal Muscle, Evid Based Complement Alternat Med, 2011/197636;1-9, 2011.
- 0340C003 K.Kanasaki, D.Koya: Biology of obesity: lessons from animal models of obesity, J. Biomed. Biotechnol., 2011/735297;1-11, 2011.
- 0340C004 D.Koya, S.Araki, M.Haneda: Therapeutic management of diabetic kidney disease, JDI., 2:248-254, 2011.
- 0340C007 A.Nakagawa, M.Nishizawa, D.Koya: Food intake—suppressing action of incretin and anti—obesity therapy, Japanese Journal of Clinical Medicine, 69:826-830, 2011 (in Japanese).
- 0340C011 A.Nakagawa, M.Nishizawa, D.Koya: Food intake-suppressing action of incretin and anti-obesity therapy, Japanese Journal of Clinical Medicine, 69:826-830, 2011 (in Japanese).

Case Reports

- 0340D001 I.Chikazawa, K.Miyazawa, T.Tanaka, K.Suzuki, A.Nakagawa, N.Kurose: Composite pheochromocytoma with ganglioneuroma in the adrenal gland: A case report, J. Kanazawa. Med. Univ., 36:83-85, 2011 (in Japanese).
- 0340D002 I.Chikazawa, N.Morita, K.Suga, M.Moriyama, K.Miyazawa, T.Tanaka, K.Suzuki, H.Astumi, H.Minato, K.Sato: Adrenal myelolipoma: A report of two cases, J. Kanazawa. Med. Univ., 36:86-89, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

- 0340H001 K.Kanasaki: Role of 2-ME, PIGF and Stox1 Transcriptional Factor in Preeclampsia, World Congress Of Nephrology 2011, (Vancouver, '11.04).
- 0340H002 K.Kanasaki: Natural History of Diabetic Nephropathy in Japanese, The 3rd Annual Scientific Meeting of the Asian Association for the Study of Diabetest, (Beijing, '11).

- 0340I001 M.Kanasaki, K.Kanasaki, D.Koya: Catechol-o-Methyltransferase Deficiency Is Associated with Abnormal Adiposity and Glucose Intolerance: Implication for a New Mechanism of Metabolic Syndrome, American Diabetes Association 71th Scientific Sessions, (San Diego, '11.06).
- 03401002 A.Watanabe, K.Kanasaki, A.Nakagawa, M.Nishizawa, M.Kanasaki, M.Kitada, K.Konishi, S.Tsuda, K.Furuya, D.Koya: Diverse homeostasis in micronutrients and homocysteine in type 2 diabetic patients, American Diabetes Association 71th Scientific Sessions, (San Diego, '11.06).
- 0340I003 D.Koya, M.Kitada, K.Kanasaki: Dietary restriction-induced Sirt1 activation protects obesity related metabolic alteration in overweight male, 10th Japan-Korea Diabetic Nephropathy Seminer, (Korea, '11.09), 10th Japan-Korea Diabetic Nephropathy Seminer Program Abstracts, 11, 2011.
- 03401004 K.Kanasaki, M.Kanasaki, D.Koya: Catechol-o-methyltrase deficiency is liked to metabolic syndrome, 10th Japan-Korea Diabetic Nephropathy Seminer, (Korea, '11.09), 10th Japan-Korea Diabetic Nephropathy Seminer Program•Abstracts, 17, 2011.
- 03401005 K.Kanasaki: Catechol-o-methyltransferase deficiency is linked to metabolic syndrome, The 10th Japan-Korea Diabetic Nephropathy Seminar, (Korea, '11.09).
- 0340I006 K.Kanasaki: Identification of Stox1 Transcriptional Factor as a Spcific Repressor of Placental Renin and Its Deficiency Leads to Vascular Defects and Gestational Hypertension, American Society of Nephrology 44th Annual Meeting, (Philadelphia, '11.11).

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
Professor	UMEHARA Hisanori	Hematology and Immunology
Professor	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
Associate Professor	FUKUSHIMA Toshihiro	Hematology and Immunology, Clinical Parmacology
Associate Professor	MASAKI Yasufumi	Hematology and Immunology, Transfusion Medicine
Associate Professor	TANAKA Masao	Rheumatology, Immunology
Senior Assistant Professor	FUJITA Yoshimasa	Rheumatology, Immunology
Assistant Professor	SAWAKI Toshioki	Hematology and Immunology
Assistant Professor	KAWANAMI Takafumi	Hematology and Immunology
Assistant Professor	SAKAI Tomoyuki	Hematology and Immunology
Assistant Professor	MIKI Miyuki	Hematology and Immunology
Assistant Professor	IWAO Haruka	Hematology and Immunology
Assistant Professor	NAKAJIMA Akio	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.

A)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.

B)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.

Publications

Originals

- 0350B001 (T.Daniels), D.Cox, C.Shiboski, M.Schiodt, A.Wu, H.Lanfranchi, H.Umehara, Y.Zhao, S.Challacombe, M.Lam, Y.Souza, J.Schiodt, H.Holm, P.Bisio, M.Gandolfo, T.Sawaki, M.Li, W.Zhang, B.Varghese-Jacob, P.Ibsen, A.Keszler, N.Kurose, T.Nojima, E.Odell, L.Criswell, R.Jordan, J.Greenspan: Associations between salivary gland histopathologic diagnoses and phenotypic features of Sjögren's syndrome among 1,726 registry participants, Arthritis Rheum, 63:2021-2030, 2011.
- 0350B002 T.Fukushima, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sato, T.Sakai, T.Sawaki, Y.Fujita, M.Tanaka, Y.Masaki, H.Nakajima, Y.Motoo, H.Umehara: Efficacy and safety of bortezomib plus dexamethasone therapy for refractory or relapsed multiple myeloma: once-weekly administration of bortezomib may reduce the incidence of gastrointestinal adverse events, Anticancer Res., 31:2297-2302, 2011.
- 0350B003 (M.Kawano), T.Saeki, H.Nakashima, S.Nishi, Y.Yamaguchi, S.Hisano, N.Yamanaka, D.Inoue, M.Yamamoto, H.Takahashi, H.Nomura, T.Taguchi, H.Umehara, H.Makino, T.Saito: Proposal for diagnostic criteria for IgG4–related kidney disease, Clin. Exp. Nephrol., 15:615–626, 2011.
- 0350B004 (A.Shakor), M.Taniguchi, K.Kitatani, M.Hashimoto, S.Asano, A.Hayashi, K.Nomura, J.Bielawski, A.Bielawska, K.Watanabe, T.Kobayashi, Y.Igarashi, H.Umehara, H.Takeya, T.Okazaki: Sphingomyelin synthase 1-generated sphingomyelin plays an important role in transferrin trafficking and cell proliferation, J. Biol. Chem., 286:36053-36062, 2011.
- 0350B005 Y.Masaki, M.Miki, Y.Sun, T.Nakamura, H.Iwao, A.Nakajima, N.Kurose, T.Sakai, Z.Jin, T.Sawaki, T.Kawanami, Y.Fujita, M.Tanaka, T.Fukushima, Y.Hirose, H.Umehara: High-dose methotrexate with R-CHOP therapy for the treatment of patients with primary central nervous system lymphoma, Int. J. Hematol., 93:720-726, 2011.
- 0350B006 (M.Yano), K.Watanabe, T.Yamamoto, K.Ikeda, T.Senokuchi, M.Lu, T.Kadomatsu, H.Tsukano, M.Ikawa, M.Okabe, S.Yamaoka, T.Okazaki, H.Umehara, T.Gotoh, W.Song, K.Node, R.Taguchi, K.Yamagata, Y.Oike: Mitochondrial dysfunction and increased reactive oxygen species impair insulin secretion in sphingomyelin synthase 1-null mice, J. Biol. Chem., 286:3992-4002, 2011.
- 0350B007 (K.Fujiwara), K.Kitatani, K.Fukushima, H.Yazama, H.Umehara, M.Kikuchi, Y.Igarashi, H.Kitano, T.Okazaki: Inhibitory effecs of dietary glucosylceramides on squamous cell carcinoma of the head and neck in NOD/SCID mice, Int. J. Clin. Oncol., 16:133-140, 2011.
- 0350B008 (K.Ghoreschi), M.I.Jesson, X.Li, J.L.Lee, S.Ghosh, J.W.Alsup, J.D.Warner, M.Tanaka, S.M.Steward-Tharp, M.Gadina, C.J.Thomas, J.C.Minnerly, C.E.Storer, , , , Head RD., Z.A.Radi, M.E.Dowty, R.D.Head, D.M.Meyer, N.Kishore, J.J.O'Shea: Modulation of innate and adaptive immune responses by tofacitinib (CP-690,550), J. Immunol., 186:4234-4243, 2011.

Reviews

- 0350C001 Y.Masaki, H.Iwao, A.Nakajima, M.Miki, S.Sugai, H.Umehara: IgG4-related disease (IgG4+MOLPS)-diagnostic criteria and diagnostic problems, Curr. Immunol. Rev., 7:172-177, 2011.
- 0350C002 Y.Masaki, N.Kurose, H.Umehara: IgG4-related disease: a novel lymphoproliferative disorder discovered and established in Japan in the 21st century, J. Clin. Exp. Hematop., 51:13-20, 2011.
- 0350C004 Y.Masaki, M.Miki, T.Sakai, T.Sawaki, T.Fukushima, H.Umehara: Intravascular large B-cell lymphoma: an important cause of fever of unknown origin, Brain and nerve., 63:435-441, 2011 (in Japanese).
- 0350C005 H.Umehara: Functions of IgG4, and pathogenesis of IgG4-related disease (IgG4RD), Journal of Medical Technology, 55:731-735, 2011 (in Japanese).
- 0350C006 Y.Masaki, T.Nakamura, H.Iwao, A.Nakajima, H.Umehara: IgG4-related Mikulicz's disease and Sjögren's syndrome, Journal of Medical Technology, 55:763-769, 2011 (in Japanese).

Case Reports

- 0350D001 T.Fukushima, H.Kawabata, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sakai, T.Sawaki, Y.Fujita, M.Tanaka, Y.Masaki, Y.Hirose, H.Umehara: Iron chelation therapy with deferasirox induced complete remission in a patient with chemotherapy—resistant acute monocytic leukemia, Anticancer Res., 31:1741–1744, 2011.
- 0350D002 (F.Kim), K.Yamada, D.Inoue, K.Nakajima, I.Mizushima, Y.Kakuchi, H.Fujii, K.Narumi, M.Matsumura, H.Umehara, M.Yamagishi, M.Kawano: IgG4-related tubulointerstitial nephritis and hepatic inflammatory pseudotumor without hypocomplementemia, Intern. Med., 50:1239-1244, 2011.
- 0350D003 (Y.Kakuchi), K.Yamada, Y.Suzuki, N.Ito, K.Yagi, M.Matsumura, M.Yamagishi, H.Umehara, Y.Zen, M.Hasegawa, K.Takehara, M.Kawano: IgG4-related skin lesions in a patient with IgG4-related chronic sclerosing dacryoadenitis and sialoadenitis, , 50:1465-1469, 2011.
- 0350D004 M.Kaito, H.Iwao, E.Kinoshita, H.Funaki, O.Tachibana, M.Matsui: A case of Castleman disease with status epileptics originating from focal cortical dysplasia, Clinical Neurology, 51:487-492, 2011 (in Japanese).

Others

- 0350F001 (K.Miura), H.Takasaki, H.Tsujimura, M.Kanno, Y.Maeda, N.Tomita, K.Takai, Y.Masaki, J.Takizawa, H.Mori, Y.Terasaki, T.Yoshida, J.Takeuchi, S.Motomura: Does more intensive therapy have effects on mantle cell lymphoma? A clinical experience from the lymphoma treatment study group in Japan, Int. J. Hematol., 93:684-686, 2011.
- 0350F002 T.Fukushima, T.Nakamura, H.Iwao, H.Umehara: Rapid response of plasmacytomas to lenalidomide plus low-dose dexamethasone therapy in a patient with relapsed multiple myeloma, Am. J. Hematol., 86:893, 2011.

Presentations at Conference

- 9350I001 Y.Masaki, N.Kurose, S.Sugai, H.Umehara: Analysis of serum IgG4 cut-off value to distinguish Sjögren's syndrome from IgG4-related disease, 11th International symposium on Sjögren's syndrome, (Athens, '11.09).
- 03501002 (M.Kawano), T.Saeki, H.Nakashima, S.Nishi, Y.Yamaguchi, S.Hisano, N.Yamanaka, D.Inoue, M.Yamamoto, H.Takahashi, H.Nomura, T.Taguchi, H.Umehara, H.Makino, T.Saito: Proposal for diagnostic criteria for IgG4-related kidney disease, The First International Conference On IgG4-Related Disease (IgG4-RD), (Boston, '11.10).
- 0350I003 (I.Mizushima), M.Kawano, K.Yamada, H.Fujii, D.Inoue, H.Umehara, M.Yamagishi, Y.Yamaguchi, M.Nagata, M.Matsumura: Clinicopathological changes associated with corticosteroid therapy in IgG4-related tubulointerstitial nephriti, The First International Conference On IgG4-Related Disease (IgG4-RD), (Boston, '11.10).

0360 Department of Neurology

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Makoto	Clinical neurology, Neuroimmunology, Clinical Immunology
Professor	TANAKA Keiko	Clinical neurology, Neuroimmunology
Senior Assistant Professor	NAGAYAMA Shigemi	Clinical neurology, Neuroimmunology
Assistant Professor	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
Assistant Professor	NAKATA Michiyo	Clinical neurology
Assistant Professor	MINATO Naomi	Clinical neurology
Research Associate	INADA Hiroyuki	Applied animal science

Keywords of Research

clinical neurophysiology, epilepsy, apoptosis, cerebrovascular diseases, neuropathies, molecular genetics, ischemic strokes, autoantibody, neuroinnunology, 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 N.Hashiba, S.Nagayama, S.Arara, H.Inada, Y.Sonobe, A.Suzumura, M.Matsui: Phenytoin at optimum doses ameliorates experimental autoimmune encephalomyelitis via modulation of immunoregulatory cells, J. Neuroimmunol., 223:112-119, 2011.
- 0360B002 (K.Arima), A.Kinoshita, H.Mishima, N.Kanazawa, T.Kaneko, T.Mizushima, K.Ichinose, H.Nakamura, A.Tsujino, A.Kawakami, M.Matsunaka, S.Kasagi, S.Kawano, S.Kumagai, K.Ohmura, T.Mimori, M.Hirano, S.Ueno, K.Tanaka, M.Tanaka, I.Toyoshima, H.Sugino, A.Yamakawa, K.Tanaka, N.Niikawa, F.Furukawa, S.Murata, K.Eguchi, H.Ida, K.Yoshiura: Proteasome assembly defect due to a proteasome subunit beta type 8 (PSMB8) mutation causes the autoinflammatory disorder, Nakajo-Nishimura syndrome, Proc. Natl. Acad. Sci. U.S.A., 108:14914-14919, 2011.
- 0360B003 (A.Nagaishi), M.Takagi, A.Umemura, M.Tanaka, Y.Kitagawa, M.Matsui, M.Nishizawa, K.Sakimura, K.Tanaka:
 Clinical features of neuromyelitis optica in a large Japanese cohort: comparison between phenotypes, J. Neurol.
 Neurosurg. Psychiatry, 82:1360-1364, 2011.
- 0360B004 (M,Tanaka), M.Kousaka, M.Tahara, M.Matsui, K.Tanaka: Causes of death in Japanese patients with multiple sclerosis and neuromyelitis optica, Neurological Medicine, 74:604-606, 2011 (in Japanese).

Case Reports

0360D001 (K.Tojo), K.Nitta, W.Ishii, Y.Sekijima, H.Morita, Y.Takahashi, K.Tanaka, S.Ikeda: A young man with Anti-NMDAR encephalitis following Guillain Barré syndrome, Case Rep. Neurol., 3:7-13, 2011.

- 0360D002 (T.Serikawa), T.Shimohata, M.Akashi, A.Yokoseki, M.Tsuchiya, A.Hasegawa, K.Haino, R.Koike, K.Takakuwa, K.Tanaka, K.Tanaka, M.Nishizawa: Successful twin pregnancy in a patient with parkin-associated autosomal recessive juvenile parkinsonism, BMC Neurol., 11:72;1-3, 2011.
- 0360D003 S.Nagayama, Y.Gondo, M.Kaito, M.Nakanishi, M.Matsui: A case of left thalamic infarction causing dysgeusia in the right half of the tongue: Follw-up examinations using electrogustometry, Japanese Journal of Stroke., 33:370-373, 2011 (in Japanese).
- 0360D004 M.Kaito, H.Iwao, E.Kinoshita, H.Funaki, O.Tachibana, M.Matsui: A case of Castleman disease with status epileptics originating from focal cortical dysplasia, Clinical Neurology, 51:487-492, 2011 (in Japanese).
- 0360D005 (M.Kitada), H.Suzuki, J.Ichihashi, Y.Mitsui, K.Tanaka, S.Kusunoki: Dramatic improvement in two cases of anti-NMDA receptor encephalitis after immunomodulating therapy, Clinical Neurology, 51:683-687, 2011 (in Japanese).
- 0360D006 (H.Nakano), R.Motoyama, K.Tanaka, M.Tanaka: A case of neuromyelitis optica with varicella zoster virus meningitis during mitoxantrone treatment, Clinical Neurology, 51:703-705, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

0360I001 K.Tanaka, M.Nakata, Q.Zhang, R.Sun, K.Sakimura, M.Makoto, N.Kato: Functional effects of the CSF from anti-NMDA receptor encephalitis patient on NMDAR-mediated synaptic transmission, 63th American Academy of Neurology Annual Meeting, (Honolulu, '11.04).

0560 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology
Associate Professor	NAKAJIMA Hideo	Medical Oncology, Immunology, Molecular Biology
Senior Assistant Professor	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, BioInformatics
Assistant Professor	NAKAYA Naoki	Medical Oncology

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

- 0560B001 (QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer PANC-1 cells, Pancreas, 40:55-60, 2011.
- T.Fukushima, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sato, T.Sakai, T.Sawaki, Y.Fujita, M.Tanaka, Y.Masaki, H.Nakajima, Y.Motoo, H.Umehara: Efficacy and safety of bortezomib plus dexamethasone therapy for refractory or relapsed multiple myeloma: once-weekly administration of bortezomib may reduce the incidence of gastrointestinal adverse events, Anticancer Res., 31:2297-2302, 2011.
- V.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 0560B004 T.Shimasaki, K.Miyazawa, M.Moriyama, T.Tanaka, I.Sato, N.Nakaya, H.Nakajima, A.Kubo, K.Suzuki, Y.Motoo: Combination chemotherapy of docetaxel and uft against hormone refractory prostate cancer, Acta Urol. Jpn., 57:163-166, 2011 (in Japanese).

Reviews

0560C001 Y.Motoo, T.Seki, K.Tsutani: Traditional Japanese medicine, Kampo: Its history and current status, Chin. J. Integr. Med., 17:85-87, 2011.

0560C002 Y.Motoo, T.Shimasaki, Y.Ishigaki, H.Nakajima, K.Kawakami, T.Minamoto: Metabolic disorder, inflammation, and deregulated molecular pathways converging in pancreatic cancer development: Implications for new therapeutic strategies, Cancers (Basel)., 3:446-460, 2011.

Case Reports

0560D002 N.Nakaya, I.Sato, T.Shimasaki, H.Nakajima, N.Kurose, T.Nojima, Y.Motoo: A Case of primary cardiac angiosarcoma associated with cardiac tamponade, Cancer & chemotherapy., 38:1353-1355, 2011 (in Japanese).

Others

- 0560F009 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 0560F010 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 0560F011 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

- 0560H001 Y.Motoo: Chemotherapy for pancreatic cancer: molecular analysis and clinical application, Asian Oncology Summit 2011, (Hong Kong SAR, '11.04).
- 0560H002 (K.Ogawa), M.Ogawa, Y.Motoo: Kampo Therapy for Cancer Care: Significance as Supportive Measure, 1st International Symposium for Japanese Kanpo Medicine, (Munich, '11.11).

- 9560I001 Y.Motoo: Proposal of comparative analysis of herbal medicines among CJK and alignment of the ICTM Herbal Interventions with other international initiatives, WHO ICTM TAG Classification of Interventions, (Hong Kong SAR, China, '11.04).
- 05601002 Y.Motoo: Japanese viewpoint of ISO/TC249, The Second Plenary Meeting of ISO/TC249, (The Hague, the Netherlands, '11.05).
- 05601003 Y.Motoo: Evaluation of Japanese clinical practice guidelines based on Kampo descriptions, Guidelines International Network Conference 2011, (Seoul, Korea, '11.08).
- 0560I004 Y.Motoo: Pancreatic cancer: experimental sensitization to gemcitabine and patient care with traditional Japanese medicine, International Conference on Cancer Prevention, (Seoul, Korea, '11.08).
- 0560I005 H.Nakajima, T.Minamoto, Y.Motoo: HITS(FAM107B): Novel heat-shock induced protein as a maker for cancer progression and diagnosis, 16th World Congress on Advances in Oncology and 14th International Symposium on Molecular Medicine, (Rhodes Island, Greece, '11.10).
- 95601006 Y.Motoo, I.Arai, K.Tsutani: Evidence Reports on Kampo Treatment (EKAT), The First International Symposium for Japanese Kampo Medicine, (Munich, Germany, '11.11).
- 05601007 N.Nakaya, Y.Ishigaki, Q.Bian, S.Ma, T.Shimasaki, H.Nakajima, Y.Motoo: Molecular mechanisms of TP531NP1 in the gemcitabine sensitivity, The International Pancreatic Research Forum 2011, (Osaka, '11.11).

95601008 Y.Motoo, I.Arai, T.Hakamatsuka: Japanese viewpoint on ICTM Interventions, Informal Consultation on Interventions Modeling, (Geneva, Switzerland, '11.12).

0565 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

- 0565B001 (Y.Matsumura), Y.Shindo, Y.Iinuma, M.Yamamoto, M.Shirano, A.Matsushima, M.Nagao, Y.Ito, S.Takakura, Y.Hasegawa, S.Ichiyama: Clinical characteristics of pneumocystis pneumonia in non-HIV patients and prognostic factors including microbiological genotypes, BMC Infect. Dis., 11:76,1-9, 2011.
- 0565B002 (K.Maekawa), Y.Ito, T.Hirai, T.Kubo, S.Imai, S.Tatsumi, K.Fujita, S.Takakura, A.Niimi, Y.Iinuma, S.Ichiyama, K.Togashi, M.Mishima: Environmental risk factors for pulmonary *Mycobacterium avium-intracellulare* complex disease, Chest., 140:723-729, 2011.
- 0565B003 (S.Imai), Y.Ito, T.Ishida, T.Hirai, I.Ito, K.Yoshimura, K.Maekawa, S.Takakura, A.Niimi, Y.Iinuma, S.Ichiyama, M.Mishima, the Kansai Community Acquired Pneumococcal Pneumonia Study Group: Distribution and clonal relationship of cell surface virulence genes among streptococcus pneumoniae isolates in Japan, Clin. Microbiol. Infect., 17:1409-1414, 2011.
- 0565B004 (M.Nagao), Y.Iinuma, J.Igawa, T.Saito, K.Yamashita, T.Kondo, A.Matsushima, S.Takakura, A.Takaori-Kondo, S.Ichiyama: Control of an outbreak of carbapenem-resistant *Pseudomonas aeruginosa* in a haemato-oncology unit, J. Hosp. Infect., 79:49-53, 2011.

Short Communications

0565E001 (M.Suzuki), K.Yamada, M.Nagao, E.Aoki, M.Matsumoto, T.Hirayama, H.Yamamoto, R.Hiramatsu, S.Ichiyama, Y.Iinuma: Antimicrobial ointments and methicillin-resistant *Staphylococcus aureus* USA300, Emerging Infect. Dis., 17:1917-1920, 2011.

0630 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	YAMAKAWA Junichi	General medicine,Kampo medicine
Senior Assistant Professor	MORIYA Junji	General medicine, Kampo medicine

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

0630B001 J.Moriya, R.Chen, J.Yamakawa, K.Sasaki, Y.Ishigaki, T.Takahashi: Resveratrol improves hippocampal atrophy in chronic fatigue mice by enhancing neurogenesis and inhibiting apoptosis of granular cells, Arch. Oral Biol., 34:354–359, 2011.

0370 Department of Geriatric Medicine

Faculty

Title	Name	Field of Specialization
Professor	MORIMOTO Shigeto	Geriatrics, Hypertension, Calcium Metabolism, Dementia, Osteoporosis
Professor (Additional Post)	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Professor (Additional Post)	NAKAHASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology
Senior Assistant Professor	TSUCHIYA Hiroshi	Geriatrics, Circulation, Atherosclerosis
Senior Assistant Professor	OKURO Masashi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Senior Assistant Professor (Additional Post)	NOMURA Koji	Geriatrics, Circulation
Assistant Professor	SATO Kazuto	Geriatrics, Circulation
Assistant Professor	IRITANI Osamu	Geriatrics, Circulation
Assistant Professor	ATSUMI Mikiko	Geriatrics, Circulation
Assistant Professor	YANO Hiroshi	Geriatrics, Circulation
Research Doctor	OHASHI Isao	Geriatrics, Hypertension, Atherosclerosis
Research Doctor	TAKATA Meiko	Geriatrics

Keywords of Research

elderly, cardiac function, mitral stenosis, dynamic exercise, flow convergence region, dementia, computer, diastolic function, ultrasound, aortic distensidility, adenocarcinoma, stroke volume, carotid arterial stiffness, high frequency ultrasound, hypertension, antihypertensive treatment, color Doppler echocardiography, echocardiography, diabetes mellitus, cardiac disease, carotid artery, atherosclerosis, isolated systolic hypertension, Double cancer, squamous carcinoma, cardicac output, carotid arterial elastic modulus, Hasegawa \mathfrak{I} s dementia scale, eicosapentaenoic acid, nitrendipine

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 L.Zeng, R.Chen, K.Ishigami, M.Atsumi, Y.Koizumi, K.Sato, O.Iritani, M.Okuro, S.Morimoto: Association between human metapneumovirus seroprevalence and hypertension in elderly subjects in a long-term care facility, Hypertens. Res., 34:474-478, 2011.

0370B002 (M.Shiraki), T.Kuroda, N.Miyakawa, N.Fujinawa, K.Tanzawa, A.Ishizuka, S.Tanaka, Y.Tanaka, T.Hosoi, E.Itoi, S.Morimoto, A.Itabashi, T.Sugimoto, T.Yamashita, I.Gorai, S.Mori, H.Kishimoto, H.Mizunuma, N.Endo, Y.Nishizawa, K.Takaoka, Y.Ohashi, H.Ohta, M.Fukunaga, T.Nakamura, M.Orimo: Design of a pragmatic approach to evaluate the effectiveness of concurrent treatment for the prevention of osteoporotic fractures: rationale, aims and organization of a Japanese Osteoporosis Intervention Trial (JOINT) initiated by the Research Group of Adequate Treatment of Osteoporosis (A-TOP), J. Bone Miner. Metab., 29:37-43, 2011.

Reviews

- 0370C001 (T.Takahashi), K.Iijima, M.Kuzuya, H.Hattori, K.Yokono, S.Morimoto: Guidelines for non-medical care providers to manage the first steps of emergency triage of elderly evacuees, Geriatr. Gerontol. Int., 11:383-394, 2011.
- 0370C004 S.Morimoto: Detection and management of illnesses in elderly evacuees by medical teams, Journal of the Japan Diabetes Society., 54:715-718, 2011 (in Japanese).
- 0370C006 M.Okuro, S.Morimoto: Forntiers in vitamin D; Basic research and clinical application. Activated vitamin D in psoriasis, Clin. Calcium, 21:1621-1626, 2011 (in Japanese).

Others

- 0370F001 S.Morimoto, K.Iijima, M.Kuzuya, H.Hattori, K.Yokono, T.Takahashi: Guidelines for non-medical care providers to detect illnesses in elderly evacuees after the 2011 earthquake off the Pacific coast of Tohoku, J. Am. Geriatr. Soc., 59:2189-2191, 2011.
- 0370F002 (K.Iijima), K.Shimokado, T.Takahashi, S.Morimoto, Y.Ouchi: Actions of the Japan Geriatric Society in response to the 2011 off the Pacific Coast of Tohoku Earthquake: first report, Geriatr. Gerontol. Int., 11:525–526, 2011.

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	Infectionus disease in children, Moleculer biology, Child neurology, Inborn errors of metabolism
Senior Assistant Professor	KOBAYASHI Azusa	Neonatology
Senior Assistant Professor	NAKAMURA Toshimi	Pediatric allergy, Pediatric immunology
Assistant Professor	AKITA Chisato	Pediatric cardiology
Assistant Professor	OKADA Naoki	Pediatric hematology, Pediatric oncology
Assistant Professor	HIRAMATSU Masayuk	ri Pediatric allergy, Pediatric immunology
Assistant Professor	HORISAWA Torou	Pediatric hematology, Pediatric oncology
Assistant Professor	KITAOKA Chika	Pediatric cardiology
Assistant Professor	YAMASHITA Yoko	Pediatric allergy, Pediatric immunology
Research Doctor	KITO Toshiyuki	Pediatric allergy, Pediatric immunology
Research Doctor	YAMAMOTO Akiko	Child neurology

Keywords of Research

DNA diagnosis, fatty acid oxidation, malignancy in childhood, peripheral blood stem cell, pituitary dwarfism, growth disorders in children, Kawasaki's disease, Adriamycine-induced cardiomyopathy, methylmalonic acidemia, infant botulism, leukemia in children, juvenile diabetes, congenital adrenal hyperplasa, 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 (M.Taguchi), F.Ichida, K.Hirono, T.Miyawaki, N.Yoshimura, T.Nakamura, C.Akita, T.Nakayama, T.Saji, Y.Kato, I.Horiuchi, Y.Hashimoto: Pharmacokinetics of bosentan in routinely treated Japanese pediatric patients with pulmonary arterial hypertension, Drug Metab. Pharmacokinet., 26:280-287, 2011.

0380B002 (T.Taga), Y.Shimomura, Y.Horikoshi, A.Ogawa, M.Itoh, M.Okada, J.Ueyama, T.Higa, A.Watanabe, H.Kanegane, A.Iwai, Y.Saikawa, K.Kogawa, J.Yamanaka, M.Tsurusawa: Continuous and high-dose cytarabine combined chemotherapy in children with down syndrome and acute myeloid leukemia: Report from the Japanese children's cancer and leukemia study group (JCCLSG) AML 9805 down study, Pediatr Blood Cancer, 57:36-40, 2011.

Case Reports

- 0380D001 (H.Takamatsu), H.Yagasaki, Y.Takahashi, A.Hama, Y.Saikawa, A.Yachie, S.Koizumi, S.Kojima, S.Nakano: Aplastic anemia successfully treated with rituximab: the possible role of aplastic anemia—associated autoantibodies as a marker for response, Eur. J. Haematol., 86:541–545, 2011.
- 0380D002 (K.Nagasaki), M.Ito, O.Naoki, M.Kubota, T.Kikuchi, M.Uchiyama: Two cases of 22q11.2 deletion syndrome with anorectal anomalies and growth retardation, J. Pediatr. Endocrinol. Metab., 24:585-586, 2011.
- 0380D003 (K.Ohta), T.Yokoyama, M.Shimizu, K.Mizuno, S.Sakazume, T.Fujiki, Y.Saikawa, A.Yachie: Diffusion-weighted MRI of exercise-induced acute renal failure (ALPE), Pediatr. Nephrol., 26:1321-1324, 2011.

0390 Department of Neuropsychiatry

Faculty

Title	Name	Field of Specialization
Professor	KAWASAKI Yasuhiro	Cognitive neurosciences, Neuropsychology, Neuroimaging, Psychopharmacology, Neurophysiology
Professor	KUBOTA Takashi	Schizophrenia, Psychopharmacology, Epilepsy
Senior Assistant Professor	WATANABE Kenichir	o Neuropsychology, 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	KOIZUMI Hazuki	Clinical Psychology, Cognitive-behaviora ltherapy
Assistant Professor	KOSEKI Yojyu	Brain imaging
Assistant Professor	SHOU Masaya	Psychopharmacology
Assistant Professor	MASUDA Shinji	Schizophrenia

Keywords of Research

aged patients, age of onset, agramatism, amitriptyline, amnesic syndrome, amnesia, amnesies, amoxaplne, an interdict, anorexia nervose, 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

Books

0390A001

(T. Sumiyoshi), Y.Higuchi, T.Ito, Y.Kawasaki: Electrophysiological Imaging Evaluation of Schizophrenia and Treatment Response, Handbook of Schizophrenia Spectrum Disorders VolumeⅢ, 135–148, Springer, Tokyo, 2011.

Presentations at Conference

International Conference (Presentations)

0390I001

(M. Suzuki), Y,Takayanagi, Y.Kawasaki, T.Takahashi, K.Nakamura: Structural MRI-based Classification of Individual Patients with Schizophrenia:Possible Contributions to Clinical Diagnosis, The 2nd Asian Congress on Schizophrenia Research, (Seoul, '11.02).

- 0390I002 Y.Kawasaki: longitudinal voxel-based morphometry to evaluate progressive gray mater changes in first-episode schizophrenia, 19th European Congress of Psychiatry, (WIen, '11.03).
- 03901003 M.Shou, T.Kubota, T.Monkawa, Y.Koseki, K.Watanabe, Y.Kawasaki: Effects of risperidone and blonanserin on excitatory synaptic transmission, and dopamine and serotonin leves in the hippocampus in rabbits, 10th World Congress of Biological Psychiatry, (Puraha, '11.06).
- 0390I004 Y.Kawasaki: Diminished limbic activation associated with face perception in patients with schizophrenia, 24th ECNP Congress, (Paris, '11.09).
- 03901005 Y.Kawasaki: Reduced white matter fractional anisotropy and clinical symptoms schizophrenia:a voxel-based diffusion tensor imaging study, ISNIP2011, (heidlberg, '11.09).
- 03901006 H.Koizumi, K.Watanabe, K.Hirata, M.Takahashi, Y.Kawasaki: Functional MRI study of neuronal activation during generation of ideas in patients with OCD before and after cognitive-behavioral therapy, 41th EABCT Annual Congress, (Reykjavik, Iceland, '11.09).

0400 Department of Diagnostic and Therapeutic Radiology

Faculty

Title	Name	Field of Specialization
Professor	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
Professor	WATANABE Naoto	Nuclear Medicine
Associate Professor	MATOBA Munetaka	Interventional Radiology, Diagnostic Imaging
Associate Professor	TANIGUCHI Mitsuru	Cardiac Nuclear Medicine
Senior Assistant Professor (Additional Post)	KUGINUKI Yasuaki	Diagnostic Imaging
Assistant Professor	KONDO Tamaki	Diagnostic Imaging
Assistant Professor	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging
Assistant Professor	KITADATE Masataka	Diagnostic Imaging
Assistant Professor	DOAI Mariko	Diagnostic Imaging
Assistant Professor	TOYOTA Ichiro	Diagnostic Imaging
Assistant Professor	TSUNEYAMA Nao	Diagnostic Imaging
Assistant Professor (Additional Post)	OTA Kiyotaka	Radiation Therapy

Keywords of Research

MRI, MRS, CT, US, IVR, radiotherapy, RI, PET, BAI, lung cancer, perfusion, diffusion, FDG, MTC, radiosurgery, brachitherapy, PEI, Sjögren, radiation, MRA, MRCP, color doppler, bone mineral, biopsy, RN, upper GI, TAE, meltalic 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.

Publications

Originals

0400B001 K.Usuda, Xi.Zhao, M.Sagawa, M.Matoba, Y.Kuginuki, M.Taniguchi, Y.Ueda, T.Sakuma: Diffusion-weighted imaging is superior to positron emission tomography in the detection and nodal assessment of lung cancers, Ann. Thorac. Surg., 91:1689-1695, 2011.

0400B002 (J.F.Guo), K.Higashi, Y.Ueda, Y.Ishigaki, T.Sakuma, M.Oguchi, T.Takegami, Y.Ohta, L.Zhang, K.Xu, H.Nishida, H.Tonami: VEGF-A and its isoform VEGF₁₂₁ mRNA expression measured by quantitative real-time RT-PCR: correlation with F-18 FDG uptake and aggressiveness of lung adenocarcinoma: preliminary study, Ann. Nucl. Med., 25:29-36, 2011.

0400B003 M.Matoba, I.Toyota, Y.Kuginuki, H.Tonami, T.Miyazawa, Y.Shimode, H.Tsuji, T.Miwa: Efficacy of diffusion—weighted MR imaging and PET/CT for predicting and detecting early response to chemoradiation therapy squamous cell carcinoma in the head and neck, J. J. M. R. M., 31:115–123, 2011 (in Japanese).

Presentations at Conference

- 04001001 K.Usuda, M.Sagawa, X.Zhao, H.Aikawa, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, T.Sakuma: Comparative study of diffusion-weighted magnetic resonance imaging and PET-CT to detect non-small cell lung cancer and its nodal involvement, 23rd European Congress of Radiology 2011, (Vienna, '11.03).
- 04001002 Y.Kuginuki, H.Tonami, M.Tsutumi, T.Arisawa: Diffusion-weighted MR imaging with navigator -triggered prospective acquisition correction at 3 T for the assessment of hepatic fibrosis, 97th Radiological Society of North America, (Chicago, '11.11).

0410 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
Professor	AKITA Toshiaki	Cardiovascular surgery
Professor	SHIKATA Hiroo	Vascular surgery
Associate Professor	MORIOKA Koichi	Cardiovascular surgery
Senior Assistant Professor	KOBATA Takashi	Vascular surgery
Assistant Professor	NISHIZAWA Hisateru	Cardiovascular surgery
Assistant Professor	NONAKA Toshimichi	Cardiovascular surgery
Assistant Professor	NOGUCHI Yasuhisa	Vascular surgery
Assistant Professor	MIZUNO Fumito	Cardiovascular surgery
Assistant Professor	MIKAMI Naofusa	Cardiovascular 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 tailor-made cardiac reshaping net for heart failure patients
- 3.Endovascular stent-grafting for a ortic aneurysm
- 4. Minimally invasive catheter ablation for varicose vein

0660 Department of Respirology (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
Senior Assistant Professor	AIKAWA Hirokazu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery
Assistant Professor	MACHIDA Yuichiro	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	UENO Masakatsu	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	TANAKA Makoto	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

- 0660B001 Y.Machida, Y.Ueda, M.Shimasaki, K.Sato, M.Sagawa, S.Katsuda, T.Sakuma: Relationship of aquaporin 1,3,and 5 expression in lung cancer cells to cellular differentiation, invasive growth, and metastasis potential, Hum. Pathol., 42:669-678, 2011.
- 0660B002 K.Usuda, Xi.Zhao, M.Sagawa, M.Matoba, Y.Kuginuki, M.Taniguchi, Y.Ueda, T.Sakuma: Diffusion-weighted imaging is superior to positron emission tomography in the detection and nodal assessment of lung cancers, Ann. Thorac. Surg., 91:1689-1695, 2011.
- 0660B003 (J.F.Guo), K.Higashi, Y.Ueda, Y.Ishigaki, T.Sakuma, M.Oguchi, T.Takegami, Y.Ohta, L.Zhang, K.Xu, H.Nishida, H.Tonami: VEGF-A and its isoform VEGF₁₂₁ mRNA expression measured by quantitative real-time RT-PCR: correlation with F-18 FDG uptake and aggressiveness of lung adenocarcinoma: preliminary study, Ann. Nucl. Med., 25:29-36, 2011.
- 0660B004 (K.Hiroshima), H.Dosaka-Akita, K.Usuda, S.Ogura, Y.Kusunoki, T.Kodama, Y.Saito, M.Sato, Y.Tagawa, M.Baba, T.Hirano, T.Horai, Y.Matsuno: Cytological characteristics of pulmonary pleomorphic and giant cell carcinomas, Acta Cytol., 55:173-179, 2011.
- 0660B005 (Y.Kibe), C.Uotani, M.Tabata, M.Sagawa, T.Kobayashi: How well are the guidelines of the Japanese society of CT screening known? -Result of a survey by questionnaire performed among medical facilities for detailed examinations-, The Journal of the Japanese Society of CT Screening, 18:82-87, 2011 (in Japanese).
- 0660B006 M.Sagawa, H.Saito, R.Machii, T.Nakayama, T.Sobue, C.Hamashima, T.Kakizoe, K.Usuda, H.Aikawa, M.Ueno, Y.Machida, M.Tanaka, T.Sakuma: A method of quality control of cancer screening using "Checklist for cancer screening", Japanese Association for Cancer Detection and Diagnosis., 19:145–155, 2011 (in Japanese).

Case Reports

0660D001 S.Maeda, M.Sugita, M.Sagawa, Y.Ueda, T.Sakuma: Solitary fibrous tumor of the pleura suddenly induced hypoglycemia before surgical treatment, Ann. Thorac. Cardiovasc. Surg., 17:293-296, 2011.

Short Communications

0660E001 M.Sagawa, M.Tanaka, S.Mizukami, K.Nishida, K.Nishii, K.Usuda, H.Aikawa, Y.Machida, M.Ueno, T.Sakuma: Recruitment for "A pilot study of randomized controlled trial to evaluate the efficacy of lung cancer screening by thotacic CT", J. Kanazawa. Med. Univ., 36:25–32, 2011 (in Japanese).

Presentations at Conference

- 0660I001 K.Usuda, M.Sagawa, X.Zhao, H.Aikawa, M.Ueno, M.Tanaka, Y.Machida, M.Matoba, T.Sakuma: Comparative study of diffusion-weighted magnetic resonance imaging and PET-CT to detect non-small cell lung cancer and its nodal involvement, 23rd European Congress of Radiology 2011, (Vienna, '11.03).
- 06601002 H.Minato, N.Kurose, M.Fukushima, T.Nojima, M.Ueno, K.Usuda, M.Sagawa, T.Sakuma: Hepatoid adenocarcinoma with a peripheral mucinous bronchioloalveolar growth pattern, 2011 Pulmonary pathology society biennial meeting, (New York, '11.08).

0420 Department of Surgical Oncology

Faculty

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

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

- · A treatment strategy for advanced pancreato-biliary cancer, based on the pattern of tumor invasion
- Investigation concerning laparoscopic surgical procedure for safe and secure operation, and its establishment.
- · Study of generalization and standardization for laparoscopic surgery in the gastrointestinal disease.
- $\bullet \ \ \text{Study of safeness in the laparoscopic surgery for malignant disease and functional preserving laparoscopic operation.}$
- · Study on the education and training for laparoscopic surgery.
- Introduction of the recently evolving engineering and robotics to laparoscopic surgery.

Books

0420A001 M.Noguchi, M.Yokoi, Y.Nakano, Y.Ono, T.Kosaka: Axillary Reverse Mapping in Breast Cancer, Radioisotopes – Applications in bio-medical science (Nirmal Singh), 273-288, Intech, Croatia, 2011.

Publications

Originals

0420B001 (M.Sugiyama), C.Kunisaki, H.Kato, T.Imada, H.Shimada, K.Hirata, T.Kosaka, M.Yoshida, M.Kitajima, T.Aiko: Utility of alendronate in metabolic bone diseases after gastrectomy, Jpn. J. Gastroenterol Surg, 44:361–373, 2011 (in Japanese).

0420B002 N.Ueda, T.Sawa, T.Kosaka: Type of lymph node metastasis and significance of lymphadenectomy in intrahepatic bile duct carcinoma of the left lobe, J. Kanazawa. Med. Univ., 36:19-24, 2011 (in Japanese).

0420B003 N.Ueda, T.Sawa, T.Kosaka: Improvement of the outcome of surgical treatment for hilar cholangiocarcinoma, J. Kanazawa. Med. Univ., 36:77-82, 2011 (in Japanese).

Reviews

0420C001 M.Noguchi, M.Inokuchi, Y.Ohno, M.Yokoi-Noguchi, Y.Nakano, T.Kosaka: Oncological and cosmetic outcome in breast cancer patients undergoing "moving window" operation, Breast Cancer Res. Treat., 129:849-856, 2011.

Case Reports

0420D002 M.Kaito, H.Iwao, E.Kinoshita, H.Funaki, O.Tachibana, M.Matsui: A case of Castleman disease with status epileptics originating from focal cortical dysplasia, Clinical Neurology, 51:487-492, 2011 (in Japanese).

Presentations at Conference

- 0420I001 T.Ohnishi, S.Kinami, Y.Tomita, Y.Ohno, M.Yokoi, H.Funaki, K.Omote, N.Ueda, Y.Nakano, T.Kosaka: The application of USAD or EBVS for the prevention of the postoperative lymphorrhea after the lymph node dissection in gastric cancer surgery, 9th International gastric cancer congress, (Seoul, '11.04), 9th International gastric cancer congress program book, 177, 2011.
- 04201002 S.Kinami, T.Kosaka, T.Ohnishi, Y.Ohno, Y.Tomita, M.Yokoi, H.Funaki, K.Omote, N.Ueda, Y.Nakano, S.Fushida, T.Fujimura, T.Ohta: The life prognosis of patients performed the function-preserving gastrectomy for gastric cancer, 9th International gastric cancer congress, (Seoul, '11.04), 9th International gastric cancer congress program book, 200, 2011.
- 0420I003 T.Kosaka, D.Kaida, T.Ohnishi, Y.Tomita, Y.Ohno, M.Noguchi, H.Funaki, S.Kinami, K.Omote, Y.Nakano, N.Ueda, M.Noguchi: S-1 and cisplatin regimen followed by conversion gastrectomy for borderline resectable AGC, 9th International gastric cancer congress, (Seoul, '11.04), 9th International gastric cancer congress program book, 214, 2011.
- 04201004 Y.Tomita, S.Kinami, T.Ohnishi, Y.Ohno, M.Yokoi, H.Funaki, K.Omote, N.Ueda, Y.Nakano, M.Noguchi, T.Kosaka: The occurrence and the measures of the delayed gastric empting after gastric surgery, 9th International gastric cancer congress, (Seoul, '11.04), 9th International gastric cancer congress program book, 297, 2011.
- 94201005 Y.Ono, T.Onishi, Y.Tomita, M.Yokoi, H.Funaki, S.Kinami, K.Omote, N.Ueda, Y.Nakano, M.Noguchi, T.Kosaka, N.Kurose: A breast cancer case having metastasis to the intramammary sentinel lymph node, The International college of Surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi, (Nagoya, '11.06), The International college of Surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi proceedings, 68, 2011.
- 04201006 T.Onishi, S.Kinami, Y.Tomita, Y.Ono, M.Yokoi, H.Funaki, K.Omote, N.Ueda, Y.Nakano, T.Kosaka: The effect of the surgical energy devices for the prevention of the postoperative lymphorrhea after the gastrectomy followed by the lymph node dissection, The international college of surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi, (Nagoya, '11.06), The international college of surgeons The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi proceedings, 80, 2011.
- 04201007 Y.Tomita, S.Kinami, T.Ohnishi, Y.Ohno, M.Yokoi, H.Funaki, K.Omote, N.Ueda, Y.Nakano, T.Kosaka: The strategy for prevention of the delayed gastric empting after gastric surgery., The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi, (Nagoya, '11.06), The 57th Annual congress of the Japan section and the 27th colorectal conference in Aichi proceedings, 81, 2011.
- 04201008 T.Ito, H.Kitakata, S.Kinami, K.Kawaura, T.Kosaka: Endoscopic full-thickness resection for sentinel node negative submucosal invasive gastric can-cer:fundamental experience in a procine model, UEGW2011, (Stockholm, '11.10).
- 9420I009 Y.Ohno, M.Noguchi, Y.Nakano, M.Noguchi, T.Kosaka: Oncologic and cosmetic outcome in breast cancer patients who underwent "moving window" operation, San Antonio Breast Cancer Symposium, (San Antonio, '11.12).

0420I010 M.Noguchi, Y.Ohno, Y.Nakano, M.Noguchi, T.Kosaka: Feasibility of axillary reverse mapping during sentinel lymph node biopsy in breast cancer, San Antonio Breast Cancer Symposium, (San Antonio, '11.12).

0430 Department of Orthopedics Surgery

Faculty

D . C		
Professor	MATSUMOTO Tadami	Hip surgery
Professor	KAWAHARA Norio	Spinal surgery
Professor (Additional Post)	OKADA Masato	Peripheral nerve surgery, Trauma
Associate Professor	KANEUJI Ayumi	Hip and Knee surgery, Sports medicine
Senior Assistant Professor	SUGIMORI Tanzo	Hip and Knee surgery, Sports medicine
Senior Assistant Professor	OKUDA Tetsuhito	Spinal surgery
Senior Assistant Professor	MAEOKA Hayato	Trauma
Senior Assistant Professor	ICHISEKI Toru	Hip surgery
Assistant Professor	HATO Taizo	Spinal surgery
Assistant Professor	HOSOKAWA Hidetaka	Spinal surgery
Assistant Professor	HATANO Eijyu	Spinal surgery
Assistant Professor	MIAKI Kohei	Hip surgery
Assistant Professor	HIROMURA Kentaro	Trauma
Assistant Professor	YASUDA Yoshihito	Spinal surgery
Assistant Professor	FUKUI Kiyokazu	Hip surgery
Assistant Professor	KITAMURA Kenji	Hip surgery
Assistant Professor	TOMIDOKORO Jun	Hip Surgery
Assistant Professor	NAKAGAWA Shintaro	Hip surgery
Assistant Professor	MIKAMI Tomoaki	Hip surgery
Research Doctor	AKAGAWA Makoto	orthopaedic surgery
Research Doctor	ORITA Yugo	orthopaedic surgery
Research Doctor	TACHI Yoshiyuki	Spinal surgery

Keywords of Research

herniated nucleus pulposus, spondylosis, spondylolysis, spondylolisthesis, degenerative spondylolisthesis, giant cell tumor, coxarthrosis, gonarthrosis, carpal tunnel syndrome, acromioclavicular dislocation, gonaarthritis purulenta, nerve graft, patellar tendon rupture, rheumatiod 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 an intravascular obstructive lesion or oxidative stress that would be 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 expressed at injured spinal cord. It have been thought that Hyaluronidase-4 is a digestive enzyme of CSPG. In future, we will clarify the mechanism.

Publications

Originals

- 0430B001 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, K.Kitamura, T.Matsumoto: Wear comparison between a highly cross-linked polyethylene and conventional polyethylene against a zirconia femoral head: Minimum 5-year Follow-Up, J. Arthroplasty., 26:45-49, 2011.
- 0430B002 Y.Yasuda, T.Fujita, E.Hatano, T.Okuda, H.Hosokawa, T.Matsumoto: Perioperative complications of spine surgery for lumbar canal stenosis in elderly patients, J Spine Res., 2:372-375, 2011.
- 0430B003 (S.Jingushi), S.Ohfuji, M.Sofue, Y.Hirota, M.Itoman, T.Matsumoto, Y.Hamada, H.Shindo, Y.Takatori, H.Yamada, Y.Yasunaga, H.Ito, S.Mori, I.Owan, G.Fuji, H.Ohashi, Y.Iwamoto, K.Miyanishi, T.Iga, N.Takahira, T.Sugimori, H.Sugiyama, K.Okano, T.Karita, K.Ando, T.Hamaki, T.Hirayama, K.Iwata, S.Nakasone, M.Matsuura, T.Mawatari: Osteoarthritis hip joints in Japan: involvement of acetabular dysplasia, J. Orthop. Sci., 16:156-164, 2011.
- 0430B004 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, K.Kitamura, T.Matsumoto: Should the well-fixed, uncemented femoral components be revised during isolated acetabular revision?, Arch. Orthop. Trauma. Surg., 131:481-485, 2011.
- 0430B005 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, T.Matsumoto: A radiological study of the true anatomical position of the acetabulum in Japanese women, Hip Int., 21:311-316, 2011.
- 0430B007 M.Okada, M.Akagawa, S.Kaneko, K.Hiromura, H.Maeoka, T.Matsumoto: Clinical results of tongue type, Sanders type 2 fractures of the calcaneus treated by percutaneous osteosynthesis, The Journal of the Japanese Society for Surgery of the Foot., 32:128-132, 2011 (in Japanese).
- 0430B009 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, T.Matsumoto: The influence of femoroacetabular impingement after surgery for slipped capital femoral epiphysis, Japanese Journal of Joint Diseases, 30:153-157, 2011 (in Japanese).
- 0430B010 (T.Fujita), T.Okuda, H.Hosokawa, E.Hatano, Y.Yasuda, N.Kawahara, T.Matsumoto: Microscopic bilateral fenestration via a unilateral approach for lumbar spinal canal stenosis, J Spine Res., 2:1372-1376, 2011 (in Japanese).
- 0430B014 (D.Tawara), J.Sakamoto, H.Murakami, N.Kawahara: Biomechanical assessment of changes in vertebral strength in osteoporosis during drug treatment by patient-specific CT-based finite element analysis, Japanese Journal of Clinical Biomechanics., 32:113-119, 2011 (in Japanese).
- 0430B015 (Y.Endo), J.Sakamoto, T.Okayama, H.Murakami, N.Kawahara, K.Tomita: Stress analysis of the spinal cord in circumspinal decompression. -On influence of nerve root-, Japanese Journal of Clinical Biomechanics., 32:161-166, 2011 (in Japanese).
- 0430B016 (N.Takano), K.Shintani, H.Sasaki, A.Kaneuji: Examination of the stress environment in hip osteoarthritis using a solid model, Japanese Journal of Clinical Biomechanics., 32:197-202, 2011 (in Japanese).
- 0430B017 A.Kumagai, J.Sugama, M.Okuwa, T.Okuda, N.Kakiuti, A.Kanno, T.Nakatani: Relationship between interface pressure and development of pressure ulcer in prone position surgery using hall frame, Jpn. J. P. U., 13:576-582, 2011 (in Japanese).

Case Reports

0430D002 (Y.Okamoto), H.Murakami, S.Demura, S.Kato, H.Hayashi, K.Inoue, N.Kawahara, K.Tomita, H.Tsuchiya: Total en bloc spondylectomy for cervicothoracic spine(C7-T2): a case report, J Spine Res., 2:1696-1698, 2011 (in Japanese).

Short Communications

0430E001 T.Ichiseki, A.Kaneuji, Y.Ueda, S.Nakagawa, T.Mikami, K.Fukui, T.Matsumoto: Osteonecrosis development in a novel rat model characterized by a single application of oxidative stress, Arthritis Rheum, 63:2138-2141, 2011.

Presentations at Conference

International Conference (Key Note Lecture)

- 0430G001 N.Kawahara: Total en-bloc spondylectomy for spinal tumors, 9th International Turkish Spine Congress, (Istanbul, '11.04).
- 0430G002 N.Kawahara: Timing of surgery around radiation and chemotherapy, 2nd Charité Spine Tumor Days, (Berlin, '11.05).
- 0430G003 N.Kawahara: Thoracic metastasis with cord compression, AOSpine Masters Knowledge Forum, (Davos, '11.12).

International Conference (Synposium)

- 0430H001 N.Kawahara: Corrective osteotomy for angular deformity of the spine, 9th International Turkish Spine Congress, (Istanbul, '11.04).
- 0430H002 N.Kawahara: Surgical strategy for spinal matastases, 9th International Turkish Spine Congress, (Istanbul, '11.04).

- 0430I001 T.Okuda, Y.Tachi, N.Kawahara, N.Kato, Y.Ishigaki, E.Hatano, Y.Yasuda, T.Matsumoto: Hyaluronidase-4 expression in a rat spinal cord hemisection model, Second Annual Meeting of Cervical Spine Research Society Asia Pacific Section (CSRS-AP 2011), (Busan, '11.04).
- 0430I002 T.Okuda, N.Kawahara, T.Fujita, A.Kaneuji, E.Hatano, T.Ichiseki, Y.Yasuda, K.Fukui, T.Matsumoto: Severe hip contracture affects the contralateral side scoliosis in lumbar spine, The International Society for the Study of the Lumbar Spine (ISSLS 2011), (Gothenburg, '11.06).
- 04301003 A.Kaneuji, J.Tomidokoro, E.Takahashi, T.Sugimori, T.Ichiseki, K.Fukui, T.Matsumoto: Stem subsidence and strain in the cement of polished tapered femoral stems versus rough stem, International Society of Orthopaedic Surgery and Traumatology (SICOT 2011), (Prague, '11.09).
- 04301004 K.Fukui, A.Kaneuji, T.Sugimori, T.Ichiseki, T.Matsumoto: How far above the true anatomical position can the cup be placed during total hip arthroplasty?, International Society of Orthopaedic Surgery and Traumatology (SICOT 2011), (Prague, '11.09).
- 0430I005 Y.Tachi, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Hato, E.Hatano, T.Matsumoto: Does Hyaluronidase-4 digest chondroitin sulfate proteoglycans in a rat spinal cord hemisection model?, Neuroscience 2011, (Washington, '11.11).

0440 Department of Neurosurgery

Faculty

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

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

Case Reports

- 0440D001 Y.Sasagawa, T.Akai, S.Itou, H.Iizuka: Multiple inraosseous inflammatory myofibroblastic tumors presenting with an aggressive clinical course, Neurosurgery, 69:1010-1015, 2011.
- 0440D002 Y.Sasagawa, T.Akai, S.Itou, H.Iizuka: De novo aneurysm in he feeding artery of a recurrent malignant glioma case report –, Neurol. Med. Chir. (Tokyo), 51:306–310, 2011.
- 0440D003 M.Kaito, H.Iwao, E.Kinoshita, H.Funaki, O.Tachibana, M.Matsui: A case of Castleman disease with status epileptics originating from focal cortical dysplasia, Clinical Neurology, 51:487-492, 2011 (in Japanese).

Others

- 0440F001 T.Akai, H.Iizuka, Y.Sasagawa, S.Siraga, S.Kawakami, M.Yamashita: Troubleshooting distraction osteogenesis for craniosynostosis, Childs Nerv. Syst., 27:1770-1771, 2011.
- 0440F007 K.Okamoto, T.Akai, O.Tachibana, H.Iizuka: Clinical study of patients with metastatic brain tumor from lung cancer, survived more than two years, Stereotactic Radiotherapy., 15:129-134, 2011 (in Japanese).

Presentations at Conference

- 04401001 T.Iida, K.Torigoe, J.Yamamoto, T.Akai, H.Iizuka: Transarticular screw fixation in subaxial cervical spin, 2nd Annual meeting of asia spine 9th Japan-Korea conference on spinal surgery, (Fukuoka, '11.09).
- 0440I002 T.Akai, H.Iizuka, Y.Sasagawa, S.Siraga, S.Kawakami, M.Yamashita: Troubleshooting destraction osteogenesis for craniosynostosis, 39th Annual meeting of the international society for pediatric neurosurgery, (Goa, India, '11.10).
- 0440I003 M.Yamashita, T.Akai, M.Kishibe, S.Kawakami: Craniosynostosis: A retrospective study of 46 cases, The 21st Japan China joint congress on plastic surgery, (Fukuoka, '11.11).

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	MORITA Reiji	Plastic and Reconstructive Surgery
Senior Assistant Professor	KISHIBE Miyuki	Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMAMOTO Yasunor	i Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
Assistant Professor	NISHIBU Yasuhiro	Plastic and Reconstructive Surgery
Assistant Professor	HIMI Yuji	Plastic and Reconstructive Surgery
Assistant Professor	NISHIO Akiko	Plastic and Reconstructive Surgery
Assistant Professor	DAIZO Haruhisa	Plastic and Reconstructive Surgery
Assistant Professor	MIYANAGA Toru	Plastic and Reconstructive Surgery
Assistant Professor	KOMURO Akito	Plastic and Reconstructive Surgery
Assistant Professor	KOIZUMI Naoko	Plastic and Reconstructive Surgery
Assistant Professor	TAGUCHI Hisao	Plastic and Reconstructive Surgery
Assistant Professor	DOI Yujin	Plastic and Reconstructive Surgery
Assistant Professor	KADOHIRA Mitsuhiro	Plastic and Reconstructive Surgery

Keywords of Research

fibroblasts, FGF recptor, pressure ulcer, TGF-beta, TGF-beta receptor, keratinocytes, wound healing, craniofacial surgery, zygoma, cleft lip, clept palate, microtia, tissue expansion, crainofacial cleft, orbital advancement, microsurgery, free flap, medialis pedis flap, adipofascial turu-over flap, burn reconstruction, burn wound management, MRI in cougenital anomaly

Outline of Research

- 1) Wound healing
- Promoting effects of wound dressings or drugs in wound healing process are studied clinicaly.
- 2) Tissue engineering
 Regeneration of the skin and subcutaneous tissue using artificial materials
 are studied clinicaly and experimentally
- 3) Cranio-maxillo-facial surgery

 New operative procedures in cranio-maxillo-facial fields are attempted to develope.

Publications

Others

0450F001 T.Akai, H.Iizuka, Y.Sasagawa, S.Siraga, S.Kawakami, M.Yamashita: Troubleshooting distraction osteogenesis for craniosynostosis, Childs Nerv. Syst., 27:1770-1771, 2011.

Presentations at Conference

0450I001	T.Akai, H.lizuka, Y.Sasagawa, S.Siraga, S.Kawakami, M.Yamashita: Troubleshooting destraction osteogenesis for
	craniosynostosis, 39th Annual meeting of the international society for pediatric neurosurgery, (Goa, India, '11.10).

- 0450I002 M.Yamashita, T.Akai, M.Kishibe, S.Kawakami: Craniosynostosis: A retrospective study of 46 cases, The 21st Japan China joint congress on plastic surgery, (Fukuoka, '11.11).
- 0450I003 A.Nishio, M.Yamashita, M.Kishibe, S.Kawakami: Rhinoplasty using spreader grafts for Japanese, The 21st Japan China joint congress on plastic surgery, (Fukuoka, '11.11).

0460 Department of Pediatric Surgery

Faculty

Title	Name	Field of Specialization
Professor	KOHNO Miyuki	Pediatric surgery, Pediatric endoscopic surgery, Pediatric urolgy
Professor	IKAWA Hiromichi	Pediatric surgery, Defecatory function, Liver transplantation
Senior Assistant Professor	MASUYAMA Hiroaki	Pediatric surgery, Liver transplantation
Assistant Professor	OSHIKIRI Takahiro	Pediatric surgery
Assistant Professor	YASUI Yoshitomo	Pediatric surgery
Research Doctor	KUWAHARA Tsuyosh	ni Pediatric surgery
Research Doctor	TAKAHASHI Sadayoshi	Pediatric surgery

Keywords of Research

inguinal hernia, hydrocele of the cord, acute abdomen, quality of life, endoscopy, congestive gastroenteropathy, biriary atresia, epidemiology, spontaneous cure, prevalence, neonatal surgery, vesicoureteral reflux, urostoma, intravenous hyperalimentation, hydrocele testis, cryptorchism, appendicitis, anorectal malformation, endoscopic surgery, gastroesophageal 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.

Presentations at Conference

International Conference (Presentations)

0460I001

M.Kohno, H.Ikawa, H.Masuyama, T.Oshikiri, Y.Yasui, S.Takahashi, T.Kuwahara: Extended perineal anorectoplasty to avoid damaging the rectal branch of pelvic plexus of imperforate anus with rectoprostatic urethral fistula, International Surgical Week/ISW2011, (Yokohama, '11.08).

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, Sjoegren's syndrome, keratoconjunctivitis sicca, lacrimal fluid, proteomics
Associate Professor (Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiolgy
Senior Assistant Professor	FUKUDA Masamichi	ocular pharmacdogy, intraocular, penetration
Senior Assistant Professor	KAWAKAMI Yutaka	cataract, thyroid ocular
Assistant Professor	FUJITA Nobuyuki	uveitis
Assistant Professor	YAGUCHI Hiromoto	corneal epithelium, glsucoma
Assistant Professor	HAGIWARA Kenta	ocular infection
Assistant Professor	SHIBATA Shinsuke	cataract, ophthalmology
Assistant Professor	OSADA Hiromi	cataract, ophthalmology
Assistant Professor	SHIBATA Naoko	cataract, ophthalmology
Assistant Professor	HATSUSAKA Natsuko	ophthalmological optics

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, herapetic keratitis, intraocular drug dynamics, lens epithelium, light scattering, retroillumination image, Sjogren's syndrome, threedimentional 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 precious 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 H.Osada, Y.Yoshitake, T.Ikeda, Y.Ishigaki, T.Takata, N.Tomosugi, H.Sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, Mol. Vis., 17:159-169, 2011.
- 0470B002 Y.Yamashiro, H.Sasaki, N.Ibaraki, K.Nagai, Y.Kawakami, H.Yaguchi, N.Fujita, H.Osada, K.Sasaki: Cyclindependent kinase inhibitor p16 and p21 expression, and cell cycle change in human lens epithelial cell line SRA 01/04 following contact inhibition in normal culture, Ophthalmic Res., 46:38-43, 2011.
- 0470B003 H.Sasaki, Y.Sakamoto, C.Schnider, N.Fujita, N.Hatsusaka, DH.Sliney, K.Sasaki: UV-B exposure to the eye depending on solar altitude, Eye Contact Lens, 37:191-195, 2011.
- 0470B004 H.Yaguchi, T.Ikeda, H.Osada, Y.Yoshitake, H.Sasaki, H.Yonekura: Identification of the *COL2A1* mutation in patients with type I Stickler syndrome using RNA from freshly isolated peripheral white blood cells, Genet. Test. Mol. Biomarkers, 15:231–237, 2011.
- 0470B005 M.Fukuda, N.Shibata, H.Osada, Y.Yamashiro, H.Sasaki: Vitreous and aqueous penetration of orally and topically administered moxifloxacin, Ophthalmic Res., 46:113-117, 2011.
- 0470B006 (N.Fatma), P.Singh, B.Chhunchha, E.Kubo, T.Shinohara, B.Bhargavan, DP.Singh: Deficiency of Prdx6 in lens epithelial cells induces ER stress response-mediated impaired homeostasis and apoptosis, Am. J. Physiol., Cell Physiol., 301:C954-C967, 2011.
- 0470B007 (D.Oyama), Y.Adachi, N.Hatsusaka, T.Kasahara, M.Yumoto, I.Hashimoto, G.Uehara: Evaluation of an Isosceles—Triangle-Coil phantom for magnetoencephalography, IEEE Trans. Magn., 47:3853-3856, 2011.
- 0470B008 (N.Fujii), T.Kawaguchi, H.Sasaki, N.Fujii: Simultaneous stereoinversion and isomerization at the Asp-4 residue in β B2-crystallin from the aged human eye lenses, Biochemistry, 50:8628-8635, 2011.
- 0470B009 (B.Chhunchha), N.Fatma, B.Bhargavan, E.Kubo, A.Kumar, DP.Slngh: Specificity protein, Sp1-mediated increased expression of Prdx6 as a curcumin-induced antioxidant defense in lens epithelial cells against oxidative stress, Cell Death. Dis., 2, e234; 1-13, 2011.
- 0470B011 M.Fukuda, H.Yaguchi, N.Fujita, I.Shibata, H.Osada, N.Shibata, H.Sasaki: Effect of sodium hyaluronate eyedrops on corneal cells, Journal of the eye., 28:549-552, 2011 (in Japanese).
- 0470B012 M.Fukuda, I.Shibata, K.Hagiwara, H.Yaguchi, H.Sasaki: Generic versions of latanoprost ophthalmic solution evaluated for safety to corneal epithelial cells, Journal of the eye., 28:849-854, 2011 (in Japanese).
- 0470B013 N.Mita, N.Hatsusaka, E.Shibata, Y.Sakamoto, H.Osada, I.Shibata, N.Shibata, H.Yaguchi, K.Sasaki, H.Sasaki:
 Assessing predictive accuracy of lens transparency property via 10-year follow-up in Japanese, Journal of the eye., 28:1503-1507, 2011 (in Japanese).

Presentations at Conference

- 04701001 H.Sasaki, N.Mita, N.Hatsusaka, E.Shibuya, F.Jonasson, Y.Sakamoto, K.Sasaki: Factors influencing retinal image contrast -Reykjavik Eye Study, The Association for Research in Vision and Ophthalmology, (Florida, '01.05).
- 0470I002 M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki: Acute ocular damage threshold of 60 GHz millimeter—wave band exposure, 10th International Conference European Bioelectromagnetics Association, (Rome, '11.02).
- 0470I003 N.Mita, N.Hatsusaka, E.Shibuya, Y.Sakamoto, N.Yamamoto, H.Sasaki: Aging change of retinal image contrast in the eyes with transparent lenses of Japanese, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).

- 0470I004 (K.Nagai), Y.Sakamoto, N.Hatsusaka, N.Mita, M.Kojima, Y.Kawakami, K.Sasaki, H.Sasaki, F.Jonasson: Evaluation of crystalline lens waterclefts by image analysis Reykjavik Eye Study, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 04701005 M.Kojima, S.Yamaguchi, T.Okuno, Y.Ishiba, K.Sasaki, H.Sasaki: Investigation of the mechanism of near-infrared induced cataract, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 0470I006 N.Hatsusaka, E.Shibuya, N.Mita, Y.Sakamoto, H.Yaguchi, S.Inagaki, H.Osada, N.Shibata, K.Sasaki, H.Sasaki: Relationship between 10-year-change in refraction of crystallines lens and aging, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 0470I007 M.Fukuda, S.Inagaki, K.Hagiwara, H.Yaguchi, H.Osada, N.Shibata, H.Sasaki: Safety evaluation of feneric versions of latanoprost ophthalmic solution for corneal epithelial cells, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 0470I008 Y.Yoshitake, H.Osada, T.Ikeda, Y.Yoshitomi, Y.Ishigaki, H.sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, 36th FEBS Congress, (Torino, '11.06).
- 04701009 (A.Koike), Y.Suzuki, M.Kojima, T.Sakai, K.Wakw, S.Watanabe, M.Taki, H.Sasaki, K.Sasaki: An investigation of the hest transport mechanism under the millimeter -wave exposure considering the convection in the anterior chamber of rabbiy's eye, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).
- 0470I010 M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K/Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki: Investigation of acute ocular in jury threshold by 76 Ghz band exposure in rabbits, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).

0480 Department of Otolaryngology

Faculty

Title	Name	Field of Specialization
Professor	MIWA Takaki	Otorhinolaryngology, Head and Neck Surgery
Professor	SUZUKA Yuko	Otology, Audiology, Equiribrium, Neuro-otology, phonation, Medical education
Professor	TSUJI Hiroyuki	Head and neck oncology, Head and neck surgery
Senior Assistant Professor	SHIGA Hideaki	Rhinology, Olfactory disorders
Senior Assistant Professor	HORIGUTI Akiko	Equilibrium, Vestibular research, Laryngology, Voice restration
Senior Assistant Professor	SHIMODE Yuzo	Head and neck oncology, surgery, Thyroid gland tumor research
Assistant Professor	MIYAZAWA Toru	Otorhinolaryngology
Assistant Professor	YAMADA Kanako	Rhinology, generel otology
Assistant Professor	SAKAI Aya	Sleep apnea syndrome
Assistant Professor	YAMAMOTO Junpei	General otorhinolaryngology, Olfactory disorders
Assistant Professor	NOMURA Yuko	Otorhinolaryngology

Keywords of Research

olfactory disorders, molecular imaging, virtual education for endoscopic nasal surgery, navigation surgery, audiology, head and neck tumor surgery, thyroid tumor surgery, skull base surgery, sleep apnea & snoar surgery

Outline of Research

Basic and clinical research for the diagnosis and treatment of olfactory disorders

Central mechanism of auduological function by MEG

Clinical research for head and neck tumor and oncology

Research for thyroid and parathyroid gland

Clinical reserach for snoar and sleep apnea

Books

0480A003 H.Shiga, T.Miwa: Innovative imaging of olfactory nerve connectivity "Thallium-201 olfacto-scintigraphy", Reimer, A. (eds); Horizons in World Physics 273, 223-231, Nova Science Publishers, New York, 2011.

Publications

Originals

0480B001 (K.Washiyama), H.Shiga, K.Hirota, A.Tsuchida, J.Yamamoto, S.Yagi, T.Yoshizaki, M.Furukawa, R.Amano, T.Miwa: Biological safety of nasal thallium-201 administration: a preclinical study for olfacto-scintigraphy, J. Radiat. Res.,

52:450-455, 2011.

0480B002 H.Shiga, J.Taki, M.Yamada, K.Washiyama, R.Amano, Y.Matsuura, O.Matsui, S.Tatsutomi, S.Yagi, A.Tsuchida, T.Yoshizaki, M.Furukawa, S.Kinuya, T.Miwa: Evaluation of the olfactory nerve transport function by SPECT-MRI fusion image with nasal thallium-201 administration, Mol. Imaging Biol., 13:1262-1266, 2011.

0480B004 M.Matoba, I.Toyota, Y.Kuginuki, H.Tonami, T.Miyazawa, Y.Shimode, H.Tsuji, T.Miwa: Efficacy of diffusion—weighted MR imaging and PET/CT for predicting and detecting early response to chemoradiation therapy squamous cell carcinoma in the head and neck, J. J. M. R. M., 31:115–123, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

0480H001 T.Miwa: Visualization of Olfactory Nerve Transduction using Thallium-201 Intranasal Administration, 14th International Rhinologic Society & 30th International symposium on infection and allergy of the nose, (Tokyo, '11.09).

- 0480I001 H.Shiga, J.Taki, S.Kinuya, N.Watanabe, H.Tonami, K.Washiyama, R.Amano, M.Furukawa, T.Miwa: Olfactory bulb neurogenesis and olfactory nerve transport., Keystone symposia, Adult neurogenesis, (Taos, USA, '11.01).
- 04801002 H.Shiga, J.Taki, S.Kinuya, N.Watanabe, H.Tonami, K.Washiyama, R.Amano, M.Furukawa, T.Miwa: Reduced olfactory nerve transport function and olfactory bulb volume in patients with olfactory disorders., The 14th Congress of the International Rhinologic Society. The 30th International Symposium on Infection and Allergy of the Nose, (Tokyo, '11.09).
- 0480I003 J.Yamamoto, H.Shiga, K.Washiyama, R.Amano, T.Miwa: Increase of olfactory nerve viability by pre-medication of Kampo medicine TJ-137 after paclitaxel administration in vivo, International Rhinologic Society International Symposium on Infection and Allergy of the Nose, (Tokyo, '11.09).
- 0480I004 Y.Suzuka, A.Horiguti, K.Yamada, A.Sakai, T.Miwa: Long-term cases of eosinophilic otitis media, 28th Polizter society meeting, (Athens, '11.09), 28th Polizter society meeting proceeding, 2011.

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
Professor	MOCHIZUKI Takashi	Medical mycology , Dermatomycosis
Associate Professor	NISHIBU Akiko	Immunology
Senior Assistant Professor	ABE Shinya	Skin tumor and growth factores
Senior Assistant Professor	FUJII Toshiki	Dermatopathology
Senior Assistant Professor	ISHIZAKI Yasuko	Dermatopathology, cutaneous malignant tumor
Assistant Professor	TAKEDA Kiminobu	Medical mycology
Assistant Professor	FUJITA Jun	Medical mycology
Assistant Professor	HASEI Maki	Skin tumor and growth factores, Medical mycology
Assistant Professor	USHIGAMI Tsuyoshi	Medical mycology
Assistant Professor	ANZAWA Kazushi	Medical mycology
Research Doctor	HATTA Jyunko	Image analysis
Research Doctor	NANBU Masayuki	Dermatopathology
Research Doctor	YOSHIMURA Rieko	Medical mycology
Research Doctor	KOJIMA Kiyoto	genetic diagnosis

Keywords of Research

fungi, dermatophytes, *Candida* spesies, *Sporothrix* spesies, dematiaceous fungi, mitochondrial DNA, restriction fragment length polymorphism, ribosomal DNA, phylogeny, taxonomy, molecular epidemiology, molecular typing, electron microscopy, dermatopathology, skin tumor, decubitus, 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.

Books

0490A002 T.Mochizuki, K.Anzawa: Deep mycoses in Japan, World Congress of Dermatology 2011, 393-397, Special Book, Seoul Korea, 2011.

0490A003 T.Mochizuki, M.Kawasaki, K.Anzawa: Genetic variation of fungus in Asia, World Congress of Dermatology 2011, 375-379, Special Book, Seoul Korea, 2011.

Publications

Originals

- 0490B001 (R.Kano), T.Yamada, K.Makimura, M.Kawasaki, T.Mochizuki, H.Kamata, A.Hasegawa: *Arthroderma benhamiae* (The Teleomorph of *Trichophyton mentagrophytes*) Mating Type-Specific Genes, Mycopathologia, 171:333-337, 2011.
- 0490B002 M.Kawasaki, K.Anzawa, T.Ushigami, J.Kawanishi, T.Mochizuki: Multiple gene analyses are necessary to understand accurate phylogenetic relationships among *Trichophyton* Species, Med. Mycol. J., 52:245–254, 2011.
- 0490B003 K.Anzawa, M.Kawasaki, M.Hironaga, T.Mochizuki: Genetic relationship between *Trichophyton mentagrophytes* var. *interdigitale* and *Arthroderma vanbreuseghemii*, Med. Mycol. J., 52:223-227, 2011.
- 0490B004 K.Anzawa, T.Mochizuki, A.Nishibu, H.Ishizaki, K.Kamei, Y.Takahashi, M.Fujihiro, H.Shinoda: Molecular epidemiology of *Trichophyton tonsurans* strains isolated in Japan between 2006 and 2010 and their susceptibility to oral antimycotics, Jpn. J. Infect. Dis., 64:458–462, 2011.
- 0490B005 K.Takeda, T.Ushigami, M.Terada, N.Wakamatsu, A.Nishibu, H.Tanabe, M.Yanagimoto, K.Anzawa, M.Kawasaki, T.Mochizuki, H.Ishizaki: Twenty-three cases of tinea capitis at the Kanazawa Medical University Hospital in the past 10 years, The Japanese Journal of Dermatology, 121:1057-1061, 2011 (in Japanese).

Reviews

0490C001 M.Kawasaki: Verificatin of taxonomy of dermatophytes based on mating results and phylogenetic analyses, Med. Mycol. J., 52:291-295, 2011.

Others

- 0490F001 M.Terada, J.Fujita, S.Watanabe, M.Kawasaki, H.Tanabe, K.Anzawa, T.Mochizuki: Olecranon bursa with *Fusarium solani* infection in an otherwise healthy patient, Mycoses, 54:853-855, 2011.
- 0490F002 (Y.Kato), N.Kikuchi, A.Nishibu, M.Ohtsuka, T.Yamamoto: Letter:Two cases of metastases to the scalp bone mimicking epidermoid cyst, Dermatol Online J., 17:13, 2011.

Presentations at Conference

International Conference (Key Note Lecture)

0490G001 T.Mochizuki: Recent Molecular Approaches for the Epidemiology of Dermatomycoses, 18th Annual meeting of Korean Society for Medical Mycology, (Seoul, '11.09).

International Conference (Synposium)

0490H001 T.Mochizuki: Recent advances and problems in diagnosis of fungal diseases in dermatology, 13th International Congress of Mycology, (Sapporo, '11.09).

International Conference (Presentations)

0490I001 M.Hasei, K.Anzawa, M.Kawasaki, H.Tanabe, T.Mochizuki: A case of phaeohyphomycosis caused by exophiala jeanselmei producing multiple skin lesions, The 22nd World Congress of Dermatology 2011 (WCD 2011), (Korea, '11.05).

0500 Department of Urogenital Surgery

Faculty

Title	Name	Field of Specialization
Professor	SUZUKI Koji	kidney stone disease, kidney transplantation, hyperparathyroidism
Professor	TANAKA Tatsuro	kidney transplantation, endourology
Associate Professor	MIYAZAWA Katsuhito	kidney stone disease, endourology, prostate cancer
Associate Professor	MORIYAMA Manabu	kidney transplantation, kidney stone disease
Senior Assistant Professor	MORITA Nobuyo	general urology
Assistant Professor	SUGA Koudai	general urology
Assistant Professor	CHIKAZAWA Ippei	general urology
Assistant Professor	TOKUNAGA Kousuke	general urology
Assistant Professor	TACHIBANA Hiromichi	general urology
Assistant Professor	ISHII Takeo	general urology

Keywords of Research

chronic renal failure, renal transplantation, acquired cystic disease of the kidney, secondary hyperparathyroidism, acute rejection, immosuppression, 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	(T.Tanaka), K.Miyazawa, T.Tsukamoto, T.Kuno, K.Suzuki: Pathobiology and chemoprevention of bladder cancer,
	J. Oncol., 2011:528353;1-23, 2011.
0500B002	N Morita M Morivama K Miyazawa T Tanaka K Suzuki: Evolution of strategy to measure urinary

supersaturation, Acta Urol. Jpn., 57:35-38, 2011 (in Japanese).

0500B003 (K.Fujimoto), Y.Hirao, Y.Ohashi, Y.Shibata, K.Fuji, H.Tsuji, N.Shimizu, K.Miyazawa, M.Nagata, M.Ohtani, R.Furuya, E.Boku: Changes in serum prostate specific antigen and testosterone levels after chlormadinone acetate treatment in patients with benign prostatic hyperplasia: A prospective multicenter clinical study, Acta Urol. Jpn., 57:177-183, 2011 (in Japanese).

T.Shimasaki, K.Miyazawa, M.Moriyama, T.Tanaka, I.Sato, N.Nakaya, H.Nakajima, A.Kubo, K.Suzuki, Y.Motoo: Combination chemotherapy of docetaxel and uft against hormone refractory prostate cancer, Acta Urol. Jpn., 57:163-166, 2011 (in Japanese).

Reviews

- 0500C002 K.Miyazawa, K.Suzuki: Gene expression and its role on urolithiasis, Clin. Calcium, 21:1473-1479, 2011 (in Japanese).
- 0500C003 M.Moriyama: Diet therapy and life guidance to prevent calcium stones, Clin. Calcium, 21:1522-1529, 2011 (in Japanese).

Case Reports

- 0500D001 (I.Ishikawa), K.Morita, S.Hayama, T.Nakagawa, I.Araki, K.Higashi, K.Miyazawa, K.Suzuki, T.Nojima: Imaging of acquired cystic disease–associated renal cell carcinoma by contrast–enhanced ultrasonography with perflubutane microbubbles and positron emission tomography–computed tomography, Clin. Exp. Nephrol., 15:136–140, 2011.
- 0500D003 I.Chikazawa, K.Miyazawa, T.Tanaka, K.Suzuki, A.Nakagawa, N.Kurose: Composite pheochromocytoma with ganglioneuroma in the adrenal gland: A case report, J. Kanazawa. Med. Univ., 36:83-85, 2011 (in Japanese).
- 0500D004 I.Chikazawa, N.Morita, K.Suga, M.Moriyama, K.Miyazawa, T.Tanaka, K.Suzuki, H.Astumi, H.Minato, K.Sato: Adrenal myelolipoma: A report of two cases, J. Kanazawa. Med. Univ., 36:86-89, 2011 (in Japanese).
- 0500D005 I.Chikazawa, T.Tanaka, K.Suzuki, K.Sato: A case of renal oncocytonma with cystic change, Japanese Journal of Clinical Urology, 65:1031-1033, 2011 (in Japanese).

Others

- 0500F003 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 0500F004 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 0500F005 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (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
Associate 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	WATANABE Yukio	perinatal medicine, reproductive endocrinology, perinatal diagnosis
Senior Assistant Professor	WASADA Tomoo	reproductive medicine, perinatal medicine, gynecologic oncology
Senior Assistant Professor	OKA Yasuko	perinatal medicine, reproductive medicine
Senior Assistant Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine, gynecologic oncology
Senior Assistant Professor	TOMIZAWA Hideki	perinatal medicine, reproductive medicine
Senior Assistant Professor	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	SASAKURA Chihaya	perinatal medicine, perinatal diagnosis
Assistant Professor	NEYATANI Natsuko	perinatal medicine, climacteric medicine
Assistant Professor	YAMAGUCHI Naotaka	perinatal medicine
Assistant Professor	SHIBATA Takeo	perinatal 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 (K.Matsushita), T.Sasagawa, M.Miyashita, A.Ishizaki, A.Morishita, N.Hosaka, K.Saikawa, S.Hoshina, X.Bi, H.Ichimura: Oral and cervical human papillomavirus infection among female sex workers in Japan, Jpn. J. Infect. Dis., 64:34-39, 2011.
- 0510B002 (K.Shigehara), T.Sasagawa, J.Doorbar, S.Kawaguchi, Y.Kobori, T.Nakashima, M.Shimamura, Y.Maeda, T.Miyagi, Y.Kitagawa, Y.Kadono, H.Konaka, A.Mizokami, E.Koh, M.Namiki: Etiological role of human papillomavirus infection for inverted papilloma of the bladder, J. Med. Virol., 83:277-285, 2011.
- 0510B003 (K.Shigehara), S.Kawaguchi, T.Sasagawa, K.Furubayashi, M.Shimamura, Y.Maeda, H.Konaka, A.Mizokami, E.Koh, M.Namiki: Prevalence of genital *Mycoplasma, Ureaplasma, Gardnerella,* and human papillomavirus in Japanese men with urethritis, and risk factors for detection of urethral human papillomavirus infection, J. Infect. Chemother., 17:487-492, 2011.
- 0510B004 (K.Shigehara), T.Sasagawa, S.Kawaguchi, T.Nakashima, M.Shimamura, Y.Maeda, H.Konaka, A.Mizokami, E.Koh, M.Namiki: Etiologic role of human papillomavirus infection in bladder carcinoma, Cancer, 117:2067-2076, 2011.
- 0510B005 M.Rahman, T.Sasagawa, R.Yamada, A.Kingoro, H.Ichimura, S.Makinoda: High prevalence of intermediate-risk human papillomavirus infection in uterine cervices of Kenyan women infected with human immunodeficiency virus, J. Med. Virol., 83:1988-1996, 2011.

Presentations at Conference

- 05101001 R.Fujii: The involvement of granulocyte colony-stimulating factor (G-CSF) in the release of a mature oocyte, The 27th of Annual Meeting of the ESHRE, (Stockholm, '11.07).
- 05101002 H.Tomizawa: A novel treatment of luteinized unruptured follicle caused by ovulation induction using clomiphene human chorionic gonadotropin, The 27th of Annual Meeting of the ESHRE, (Stockholm, '11.07).
- 0510I003 H.Takagi, N.Yamaguchi, N.Neyatani, T.Waseda, H.Tomizawa, Y.Oka, S.Makinoda: Efficacy and safety of long-term Dienogest therapy for endometriosis, 11th World Congress on Endometriosis, (Montpellier, '11.09).
- 0510I004 T.Sasagawa: The Prevalance of Cervical Intraepithelial Neoplasia and Condyloma Acuminata in Japanese Women, 27th International Papillomavirus Conference, (Berlin, '11.09).
- 0510I005 T.Waseda, S.Makinoda: Evaluation of the transcatheter arterial infusion of CDDP as NAC for cervical cancer by MRI and its prognosis, 21st World Congress on Ultrasound in OB/GYN, (Los Angels, '11.09).
- 0510I006 T.Shibata, N.Neyatani, T.Waseda, R.Fujii, S.Makinoda: A useful case of PET-CT in the diagnosis of malignant transformation of mature cystic teratoma, 2nd Biennial Meeting of Asian Society of Gynecologic Oncology, (Seoul, '11.11).

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
Professor	TSUCHIDA Hideaki	Cardiovascular effects of anesthetics
Senior Assistant Professor	SHIRAISHI Miharu	Clinical anesthesia, Pain medicine, Palliative medicine
Senior Assistant Professor	OGAWA Masao	Clinical anesthesia, Palliative medicine
Assistant Professor	NISHIIKE Satoshi	Clinical anesthesia, Nerve block, Vascular reactivity
Assistant Professor	SUGIURA Soichiro	Clinical anesthesia, Intensive care medicine, Vascular reactivity
Assistant Professor	HORIUCHI Katsura	Clinical anesthesia, Intensive care medicine
Assistant Professor	KIDA Hiromasa	Clinical anesthesia, Pediatric anesthesia, Shock
Assistant Professor	YAMAOKA Yuko	Clinical anesthesia, Palliative medicine
Assistant Professor	HIRAMATSU Akiko	Clinical anesthesia
Assistant Professor	MURATA Yuriko	Clinical anesthesia
Assistant Professor	HIRAMATSU Toshiaki	Clinical anesthesia, Vascular reactivity
Assistant Professor	BEN Asami	Clinical anesthesia
Assistant Professor	YUGI Haruka	Clinical anesthesia
Assistant Professor	TANAKA Yasunori	Clinical anesthesia
Assistant Professor	ARAKI Hideharu	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.

Publications

Originals

0520B001 (Z.Wajima), H.Tsuchida, T.Shiga, K.Imanaga, T.Inoue: Intravenous landiolol, a novel β_1 -adrenergic blocker, reduces the minimum alveolar concentration of sevoflurane in women, J. Clin. Anesth., 23:292-296, 2011.

O520B002 A.Magara, Y.Yamaoka, Y.Murata, M.Shiraishi, H.Tsuchida: Is the incidence of postoperative pulmonary thromboembolism in Japan lower than that in the western countries?, The Japanese journal of anesthesiology., 60:511-515, 2011 (in Japanese).

Reviews

0520C001 H.Tsuchida: Lifelines in the affected area after an earthquake, Journal of clinical anesthesia., 35:1774-1779, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

0520H001 (K.Ogawa), M.Ogawa, Y.Motoo: Kampo Therapy for Cancer Care: Significance as Supportive Measure, 1st International Symposium for Japanese Kanpo Medicine, (Munich, '11.11).

- 0520I001 H.Tsuchida, Y.Tanaka, T.Hiramatsu: Hemodynamic effects of landiolol, an ultra-short-acting beta-1 selective blocker, on endotracheal intubation in elderly hypertensive patients, Annual Meeting of the American Society of Anesthesiologists, (Chicago, '11.10).
- 05201002 S.Nishiike, T.Hiramatsu, Y.Tanaka, H.Tsuchida: he decrease in alpha-adrenergic vasoconstriction of septic rat aorta is partly antagonized by the administration of high mobility group box-1 antibody, Annual Meeting of the American Society of Anesthesiologists, (Chicago, '11.10).

0650 Department of 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, disphagia, 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 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.

Presentations at Conference

International Conference (Synposium)

0650H001 M.Nakata: Criteria for acknowledgement and compensation for occupational musculoskeletal disorders in Japan, and their related arguments, The first Japan-Korea joint symposium on Work-related Musculoskeletal Disorders, (Hiroshima, '11.02).

0550 Department of Emergency Medicine

Faculty

Title	Name	Field of Specialization
Professor	WATOH Yukihiro	Emergency, Emergency medical syctem, Disaster Medicine
Associate Professor	OGURA Kenichi	Emergency, Neurosurgery
Senior Assistant Professor	MASHIBA Satoru	Emergency, Anaphylaxis
Assistant Professor	MURASAKA Kenshi	Emergency, Neurosurgery
Assistant Professor	MORITA Hideki	Emergency
Assistant Professor	GOTO Tetsuro	Emergency
Research Doctor	IWAI Junichi	Emergency
Research Doctor	WATANABE Atsushi	Emergency

Keywords of Research

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

Outline of Research

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

0570 District medical

Faculty

Title	Name	Field of Specialization
Professor	KANDA Tsugiyasu	Cardiovascular distase, Diabetes Mellitus, Mental distase
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

Case Reports

- 0570D001 A.Tempaku, T.Mizuno, M.Hasegawa, A.Saito, N.Yamashita, H.Atsumi, T.Ito, K.Ishigami, M.Miura, Y.Izumi, N.Kurose, H.Minato, T.Nojima, T.Kanda, N.Takekoshi: Interleukin-6 expressing colon cancer with multiple hepatic metastases, J. Kanazawa. Med. Univ., 36:106-110, 2011.
- 0570D002 T.Mizuno, K.Ishigami, D. Sakamoto, R.Isahii, T.Kanda: Two types of Brugada-like ST-elevation in patients with febrile infection, J. Kanazawa. Med. Univ., 36:124-126, 2011.

Others

- 0570F001 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 0570F002 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 0570F003 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

05701001 Y.Izumi, N.Takekoshi, T.Kanda, T.Mizuno, Y.Ozawa, Y.Kasamaki, M.Ohta, T.Nakayama, H.Kawamura, M.Mahemuti, D.Himit: Differences in organ damage for dipper and non-dipper patterns in 2 ethnic groups, European Society of Hypertension (ESH) 2011: 21st European Meeting on Hypertension, (Milan, '11.06).

0530 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	YOSHIMURA Hiroshi	temporomandibular joint disorders, stomatology, neuroscience
Associate Professor	DEMURA Noboru	orthodontics, stomatology
Senior Assistant Professor	KANEYAMA Keiseki	oral cancer, stomatology, oral and maxillofacial surgery, orthognathic surgery
Senior Assistant Professor	AOKI Hideaki	Rehabilitation Medicine, Oral and Maxillofacial Surgery
Senior Assistant Professor	ONO Tohru	oral and maxillofacial surgery, oral infection, temporomandibular joint disorders, oral oncology, dental implant
Assistant Professor	HONJYO Miho	Orthodontics
Assistant Professor	TAKAHASHI Motohiro	o temporomandibular joint disorders, stomatology

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.
- Integration mechanisms of oral sensory information in the central nervous systems.

Publications

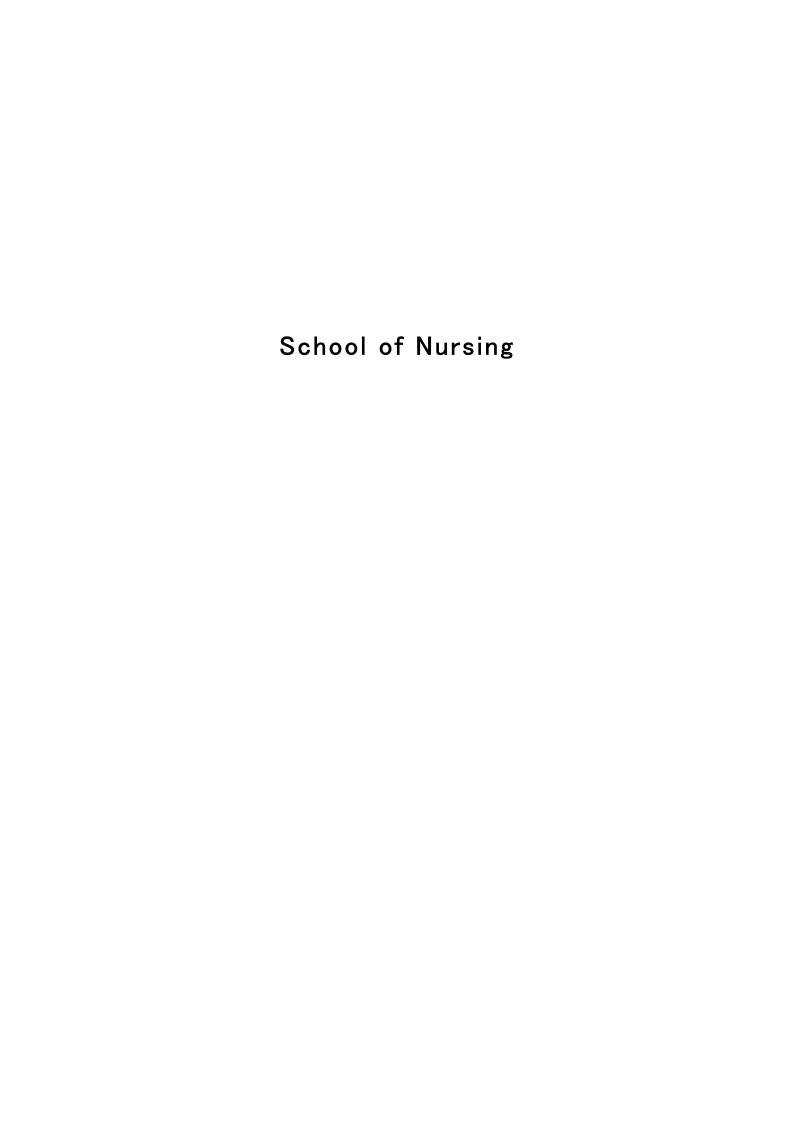
Originals

0530B001 H.Yoshimura, M.Honjyo, T.Sugai, K.Kaneyama, N.Segami, N.Kato: Correlation between stimulation strength and onset time of signal traveling within the neocortical neural circuits under caffeine application, Neurosci. Res., 70:370-375, 2011.

0530B002 H.Yoshimura, M.Honjyo, T.Sugai, M.Kawabe, K.Kaneyama, N.Segami, N.Kato: Influences of audio-visual environments on feelings of deliciousness during having sweet foods: an electroencephalogram frequency analysis study, Nutr. Neurosci., 14:210-215, 2011.

Case Reports

0530D001 K.Kaneyama, N.Segami, R.Nishiura, H.Yoshmura: Internal derangement of the temporomandibular joint with mouth-closing disturbance caused by a thickness of retrodiscal tissue: A case report., J. Oral Maxillofac. Surg., 69:1052-1055, 2011.



8010 Basic Nursing

Faculty

Title	Name	Field of Specialization
Professor	SAKAI Keiko	Proficiency and stressor of teachers in nursing
Associate Professor	SAKAI Keiko	Communication Skills
Senior Assistant Professor	MATSUI Yuko	Fundamental Nursing
Assistant Professor	KYUJI Kazuyo	Nursing Students and Proffessional Sprit
Assistant Professor	OKAYAMA Miki	Experiences of diabetic patients that hemodialysis begins hold family's desire

Keywords of Research

teachers in nursing, proficiency, stressor, sleep apnea syndrome, QOL, bi-cultural nursing, feelings and QOL, sinior sitizen, care-house

Outline of Research

- 1. Feelings and QOL of sinior sitizuns living care-house run by a manicipal government or private sector.
- 2. Proficiency and stressor of teachers in nursing.
- 3. Quality of life of persons with sleep apnea syndrome.

Publications

Others

8010F002	K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
8010F003	Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the

8010F003 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).

8010F004 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

8010I001 (K.Kasai), K.Kyuji: Self-evaluation and peer evaluation of nursing practice ability in terms of background of clinical nurses, The 3rd Korea-China-Japan Nursing Conference, (Korea, '11.10), The 3rd Korea-China-Japan Nursing Conference Nurses` Social responsibility and Role, 126-128, 2011.

8030 Psychiatric and Mental Health Nursing

Faculty

Title	Name	Field of Specialization
Professor	KITAOKA Kazuyo	Occupational Mental Health, Job Stress, Burnout, Rehabilitation of People with Mental Disability
Senior Assistant Professor	NAGAI Makie	Occupational Mental Health

Keywords of Research

occupational health, occupational mental health, job stress, burnout, the Maslach Burnout Inventory, MBI, rehabilitation, mental disability

Outline of Research

The major research theme is 'Occupational Mental Health' and 'Rehabilitation of People with Mental Disability'. We've been doing the burnout study for banishing it. The professor has published the Japanese version of *the Maslach Burnout Inventory (MBI)*, global scale for measure of burnout. We also put our effort to seek the methodology to support those people with mental disability.

Publications

Originals

8030B001	(K.Ohnishi), K.Kitaoka, L.Bowers, D.Stewart, M.VanDerMerwe, M.Nakano, Y.Ohgushi, H.Tanaka, H.Fujii:
	Comparison of moral distress and burnout experienced by mental health nurses in Japan and England: a cross-
	sectional questionnaire survey,, Journal of Japan Health Medicine Association, 20:73-86, 2011.

M.Nagai, Y.Morikawa, K.Kitaoka, K.Nakamura, M.Sakurai, M.Nishijo, Y.Hamazaki, S.Maruzeni, H.Nakagawa: Effects of fatigue on immune function in nurses performing shift work, J. Occup. Health, 53:312-319, 2011.

Presentations at Conference

8030I001	(S.Kendall), L.Bloomfield, J.Appleton, K.Kitaoka: The effects of group based community support for parents in Japan and the UK, 10th International Family Nursing Conference, (Kyoto, '11.06).
8030I002	K.Kitaoka, H.Moto, N.Nakai, M.Mori: The effects of 123 Magic parenting support program, 2nd Japan-Korea Joint Conference on Community Health Nursing, (Kobe, '11.07).
80301003	M.Nagai, Y.Morikawa, K.Kitaoka, H.Nakagawa: A cross-sectional study of stress coping among new employees in Japan, The 2nd Japan-Korea Joint Conference on Community Health Nursing, (Kobe, '11.07).
8030I004	K.Kitaoka, Y.Morikawa, H.Nakagawa: Burnout and stress coping styles among Japanese psychiatric nurses, 17th International Network for Psychiatric Nursing Research Conference, (Oxford, '11.09).
8030I005	(K.Ohnishi), K.Kitaoka, J.Nakahara, M.Nagai: Relationships between moral distress and moral sensitivity experienced by Japanese psychiatric nurses, 17th International Network for Psychiatric Nursing Research Conference, (Oxford, '11.09).

8040 Adult Nursing

Faculty

Title	Name	Field of Specialization
Professor	KONYA Chizuko	Wound Care, Stoma care, Continence care
Associate Professor	HIRAYAMA Emiko	Nursing Ethics, Medical Ethics, Caring
Senior Assistant Professor	UCHIDA Maki	Cancer Nursing, Terminal Care
Assistant Professor	KITAMURA Yoshiko	Cancer Nursing
Assistant Professor	YAMAZAKI Matsumi	Therapeutic Exercise in patients with Chronic Disease

Keywords of Research

Nephrology Nursing, Transplant Nursing, Cronic Disease Nursing, Terminal Care, Cancer Nursing, Nursing Ethics, Wound care, Stoma care, Continence care

Outline of Research

Clinical Medical-Surgical Nursing.

Publications

Originals

	Originals
8040B001	(S.Iizaka), J.Sugama, G.Nakagami, T.Kaitani, A.Naito, H.Koyanagi, J.Matsuo, T.Kadono, C.Konya, H.Sanada: Concurrent validation and reliability of digital image analysis of granulation tissue color for clinical pressure ulcers, Wound Repair. Regen., 19:455-463, 2011.
8040B002	(J.Matsuo), J.Sugama, H.Sanada, M.Okuwa, T.Nakatani, C.Konya, J.Sakamoto: Development and validity of a new model for assessing pressure redistribution properties of support surfaces, J. Tissue. Viability, 20:55–66, 2011.
8040B003	(S.Iizaka), H.Sanada, G.Nakagami, H.Koyanagi, C.Konya, J.Sugama: Quantitative estimation of exudate volume for full-thickness pressure ulcers: the ESTimation method, J. Wound Care, 20:453-463, 2011.
8040B004	(M.Ueta), J.Sugama, C.Konya, J.Matsuo, M.Matsumoto, K.Yabunaka, T.Nakatani, K.Tabata: Use of ultrasound in assessment of necrotic tissue in pressure ulcers with adjacent undermining, J. Wound Care, 20:503-510, 2011.
8040B005	(J.Sugama), Y.Shigeta, S.Fukuda, J.Matsuo, A.Kitagawa, C.Konya, E.Murasawa, M.Sedo, M.Okada, N.Matsuoka: Skin physiology and skin manifestations and relationship to degree of obesity in Japanese subjects aged between 20 and 59 years, J. So. Nurs. Pract., 23:24–29, 2011 (in Japanese).
8040B007	(K.Kimori), J.Sugama, T.Nakatani, S.Fukuda, T.Miyati, C.Konya, M.Okuwa, H.Sanada: Investigation of invisible peripheral veins for certain and safe venipuncture in catheter placement: Non-invasive measurement of width, depth, and skin color, Japanese Journal of Nursing Art and Science, 10:103-110, 2011 (in Japanese).
8040B008	(S.Iizaka), G.Nakagami, A.Naito, H.Koyanagai, J.Matsuo, C.Konya, J.Sugama, H.Sanada: Development of an algorithm to quantitatively estimate wound fluid volume for full-thickness pressure ulcers, J. Jpn. WOCM, 15:231-238, 2011 (in Japanese).

Presentations at Conference

- 8040I001 (S.Iizaka), G.Nakagami, T.Kaitani, A.Naito, C.Konya, J.Sugama, H.Sanada: Predictive validity of granulation tissue color by digital image analysis for pressure ulcer healing in a prospective cohort study, 21st Conference of the European Wound Management Association, (Brussels, '11.05).
- 80401002 (J.Matsuo), J.Sugama, M.Okuwa, C.Konya, H.Sanada: Effects on air mattress pressure redistribution caused by differences in bed making, 21st Conference of the European Wound Management Association, (Brussels, '11.05).
- 80401003 E.Hirayama, M.Kanaya, M.Koda: A research on the living conditions of and support for elderly citizens living alone during a disaster recovery period-Interviewing elderly citizens who continue to live alone in the disaster zone after the Noto earthquake-, 1st NUS-NUH International Nursing Conference, (Republic of Singapore, '11.11), Alice Lee Centre for Nursing Studies National University of Singapole, 151, 2011.

8050 Elderly Nursing

Faculty

Title	Name	Field of Specialization
Associate Professor	TAKAYAMA Naoko	community/elderly unrsing science
Senior Assistant Professor	KOIZUMI Yumi	community/elderly unrsing science
Assistant Professor	HASHIMOTO Tomoe	community/elderly nursing science

Keywords of Research

gerontological nursing, influenza infection, influenza vaccine, long-term care facilities, taktil care, care worker, medical practice, sputum suction, tube feeding

Outline of Research

Survey of influenza infection and vaccination status for elderly in long-term care facilities, Validation of the Effect of Tactile care, medical practice education for care workers

Publications

Originals

8050B001

L.Zeng, R.Chen, K.Ishigami, M.Atsumi, Y.Koizumi, K.Sato, O.Iritani, M.Okuro, S.Morimoto: Association between human metapneumovirus seroprevalence and hypertension in elderly subjects in a long-term care facility, Hypertens. Res., 34:474-478, 2011.

8060 Child Nursing

Faculty

Title	Name	Field of Specialization
Associate Professor	MIYAUCHI Tamaki	Caring for Children with Chronic illness, Family Nursing in Child & Maternal Health Care
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

- •Psychometric development of a rating scale for family's problem–solving ability with a young child with a developmental disorder (FPAYCDD)
- ·Study of the efficacy of a support program for families with a young child with a developmental disorder
- $\bullet \textbf{Study of the efficacy of } \ \textbf{Lifestyle-improvement Program among Elementary School Children }$
- •Study of the system for carrying out abuse prevention

Publications

Originals

8060B001 (M.Yoshimoto), A.Mimura, K.Otaguro, T.Terai: Parent's Desires after Their Children Died —Through the Interview with Mothers after the Loss of Children—, Journal of Japanese Society of Pediatric Oncology Nursing, 6:26-33, 2011 (in Japanese).

8070 Maternity Nursing and Midwifery

Faculty

Title	Name	Field of Specialization
Professor	OCHIAI Fumie	Maternity Health, Child Health, Midwifery
Associate Professor	SASANO Kyoko	Crinical nursing, Nursing education
Assistant Professor	TSUBOMOTO Takiko	Maternity Nursing
Assistant Professor	YAMAZAKI Chisato	Maternity Nursing
Assistant Professor	YORITSUNE Kaoru	Life development nursing

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.

8080 Community Nursing

Faculty

Title	Name	Field of Specialization
Professor	NAKASHIMA Motoko	public health nursing
Senior Assistant Professor	SAKURAI Shihomi	Community Health Nursin
Senior Assistant Professor	HAMAZAKI Yuko	public health nursing, study of elder abuse

Keywords of Research

community nursing-care activity, community nursing education, Health promotion, activity of cmmunity 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	M.Nagai, Y.Morikawa, K.Kitaoka, K.Nakamura, M.Sakurai, M.Nishijo, Y.Hamazaki, S.Maruzeni, H.Nakagawa:
	Effects of fatigue on immune function in nurses performing shift work, J. Occup. Health, 53:312-319, 2011.
00000000	VII. II VM II. VNI MCI I VMI MIII II TVII VN VC.
8080B002	Y.Hamazaki, Y.Morikawa, K.Nakamura, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono,

H.Nakagawa: The effects of sleep duration on the incidence of cardiovascular events among middle-aged male workers in Japan, Scand. J. Work Environ. Health, 37:411-417, 2011.

8080B003 (E.Kishi), S.Yoshioka, S.Nomura, M.Konagaya, Y.Hamazaki, J.Yonezawa, Y.Nojiri, Y.Mochizuki: Cases of elder self-neglect involving specialists and their counter-measures, Journal of the Japan Academy for the Prevention of Elder Abuse, 7:125-138, 2011 (in Japanese).

Y.Hamazaki, E.Kishi, S.Nomura, Y.Nijiri, S.Yosioka, M.Konagaya, Y.Mochizuki, J.Yonezawa: Self-neglect intervention methods and the dilemmas and difficulties faced by professionals at a community comprehensive support center, Journal of Japan Academy of Home Care., 15:26–34, 2011 (in Japanese).

Short Communications

Y.Hamazaki: Investigation of what the nursing students have learnt from the narrative of intractable disease patient in the participating class—in close cooperation between university and 'the project of enlightenment and diffusion of living support for intractable diseasa patients' by intractable disease counseling and support centre—, J. J. Intrac. Ill. Nurs., 15:199-207, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

8080I001 S.Sakurai, M.Hirai: Health conditions of family caregivers of Alzheimer patients with no or modest gait disturbances, 10th International Family Nursing Conference, (Kyoto, '11.06).

8080I002 Y.Hamazaki, M.Nagai: Investigation into needs about health of the functionally independent elderly, 1st GCQHR congress, (Seoul, Korea, '11.06).

Y.Hamazaki, Y.Morikawa, K.Nakamura, A.Yonekura, H.Nakagawa: Relationship between participation in a secondary screening for identifying frail elderly and new onset of need for care among the elderly in a rural town, Japan, 2st Japan Korea joint Conference on Community Health Nursing, (Kobe, '11.07).

8090 Home Care Nursing

Faculty

Title	Name	Field of Specialization
Professor	KATO Kinko	Home Care Nursing, Public Health Nursing, Psychiatric Mental Health Nursing in Community
Associate Professor	MAEDA Shuko	home care, home health care nurse
Senior Assistant Professor	KOHNO Yumiko	home care nursing, home care nursing teaching method, discharge support

Keywords of Research

Psychiatric Disorder, Community besed Workshop, "Recoverry" consept, psychatric 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 syowed clearly that the Community besed Work shops for Persons with Psychiatric Disorder, where introduced "Recoverry" consept, prevent the exclusion and separation from the community as functioned of the psychatric service institution in the community.

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

Publications

Originals

8090B001 (T.Komatsu), S.Maeda, T.Takiuti: Effectiveness of workshop on infection control of home-use mechanical ventilation for home-visiting nurses, Japanese Journal of Environmental Infections, 26:41-48, 2011 (in Japanese).

Others

- 8090F001 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 8090F002 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 8090F003 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (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

Presentations at Conference

International Conference (Presentations)

80951001

S.Tamura: Initial Development of a Care System for Living Donors, Based on Experience Perception by Donors in Kidney Transplants, World Academy of Nursng Science 2nd International Nursing Research Conference, (Cancun, Mexico, '11.07), Sigma Theta Tau International 22nd International Nursing Research Congress, 60, 2011.

8100 Medical Sciences and Clinical Medicine

Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Cardiovascular Pharmacology
Professor	OKADA Masato	Peripheral nerve surgery, Trauma
Professor	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Professor	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Professor	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Associate Professor	KOJIMA Masami	Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature
Associate Professor	HONDA Ryumon	Environment and health, Epidemiology
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
- 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 T.Ishibashi, N.Nishizawa, M.Nakamoto, F.Abe, H.Liu, J.Yoshida, T.Kawada, M.Nishio: Differrent disappearance rates of plasma nitrite (NO₂⁻) contribute to apparent steady-state arterio-venous differences in anesthetized animals, Biol.Pharm.Bull., 34:528-537, 2011.
- 8100B002 P.T.Tai, M.Nishijo, T.Kido, H.Nakagawa, S.Maruzeni, R.Naganuma, N.T.N.Anh, Y.Morikawa, H.V.Luong, T.H.Anh, N.N.Hung, L.K.Son, K.Tawara, H.Nishijo: Dioxin concentrations in breast milk of Vietnamese nursing mothers: a survey four decades after the herbicide spraying, Environ. Sci. Technol., 45:6625-6632, 2011.
- 8100B003 T.Ishibashi, T.Miwa, N.Nishizawa, I.Shinkawa, J.Yoshida, T.Kawada, M.Nishio: Role of plasma S-nitrosothiols in regulation of blood pressure in anesthetized rabbits with special references to hypotensive effects of acetylcholine and nitrovasodilators, Biol.Pharm.Bull., 34:1307-1313, 2011.
- 8100B004 M.Nakashima, Y.Morikawa, M.Sakurai, K.Nakamura, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: Association between long working hours and sleep problems in white-collar workers, J. Sleep. Res., 20:110-116, 2011.
- 8100B005 M.Nagai, Y.Morikawa, K.Kitaoka, K.Nakamura, M.Sakurai, M.Nishijo, Y.Hamazaki, S.Maruzeni, H.Nakagawa: Effects of fatigue on immune function in nurses performing shift work, J. Occup. Health, 53:312-319, 2011.

- 8100B006 Y.Hamazaki, Y.Morikawa, K.Nakamura, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: The effects of sleep duration on the incidence of cardiovascular events among middle-aged male workers in Japan, Scand. J. Work Environ. Health, 37:411-417, 2011.
- 8100B007 (The Emerging Risk Factors Collaboration), D.Wormser, S.Kaptoge, E.A.Di, E.Angelantonio, AM.Wood, L.Pennells, A.Thompson, N.Sarwar, JR.Kizer, DA.Lawlor, BG.Nordestgaard, P.Ridker, V.Salomaa, J.Stevens, M.Woodward, N.Sattar, R.Collins, SG.Thompson, G.Whitlock, J.Danesh, H.Nakagawa, M.Sakurai, K.Nakamura, Y.Morikawa: Separate and combined associations of body-mass index and abdominal adiposity with cardiovascular disease: collaborative analysis of 58 prospective studies, Lancet, 377:1085-1095, 2011.
- 8100B008 W.Zhang, T.Shibamoto, Y.Kurata, H.Kohno: Effects of β-adrenoceptor antagonists on anaphylactic hypotension in conscious, Eur. J. Pharmacol., 650:303-308, 2011.
- 8100B009 (K.Nambunmee), R.Honda, M.Nishijo, W.Swaddiwudhipong, H.Nakagawa, W.Ruangyuttikarn: High cadmium exposure in Mae Sot's population is associated with high anemia prevalence, Thai J. Toxicology, 26:29-43, 2011.
- 8100B010 Q.Li, M.Nishijo, H.Nakagawa, Y.Morikawa, M.Sakurai, K.Nakamura, T.Kido, K.Nogawa, M.Dai: Relationship between urinary cadmium and mortality in habitants of a cadmium-polluted area: a 22-year follow-up study in Japan, Chin. Med. J., 124:3504-3509, 2011.
- 8100B011 M.Okada, M.Akagawa, S.Kaneko, K.Hiromura, H.Maeoka, T.Matsumoto: Clinical results of tongue type, Sanders type 2 fractures of the calcaneus treated by percutaneous osteosynthesis, The Journal of the Japanese Society for Surgery of the Foot., 32:128-132, 2011 (in Japanese).
- 8100B012 M.Nishijo, K.Tawara, T.Seto, Y.Morikawa, R.Naganuma, T.Kido, A.Nguen Thi Nguyet, H.Nakagawa: Relationships between food intake and dioxin concentrations in breast milk of motehrs in Ishikawa prefecture, Japan, Hokuriku Japanese Journal of Public Health., 38:1–8, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

- 81001001 M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki: Acute ocular damage threshold of 60 GHz millimeter—wave band exposure, 10th International Conference European Bioelectromagnetics Association, (Rome, '11.02).
- 81001002 (K.Nagai), Y.Sakamoto, N.Hatsusaka, N.Mita, M.Kojima, Y.Kawakami, K.Sasaki, H.Sasaki, F.Jonasson: Evaluation of crystalline lens waterclefts by image analysis Reykjavik Eye Study, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 81001003 M.Kojima, S.Yamaguchi, T.Okuno, Y.Ishiba, K.Sasaki, H.Sasaki: Investigation of the mechanism of near-infrared induced cataract, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- Y.Morikawa, M.Sakurai, K.Nakamura, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Sift work and heavy drinking, Biological mechanisms, recovery and risk management in the 24th society, (Stockholm, '11.07).
- 81001005 Y.Hamazaki, Y.Morikawa, K.Nakamura, A.Yonekura, H.Nakagawa: Relationship between participation in a secondary screening for identifying frail elderly and new onset of need for care among the elderly in a rural town, Japan, 2st Japan Korea joint Conference on Community Health Nursing, (Kobe, '11.07).
- 81001006 (A.Koike), Y.Suzuki, M.Kojima, T.Sakai, K.Wakw, S.Watanabe, M.Taki, H.Sasaki, K.Sasaki: An investigation of the hest transport mechanism under the millimeter -wave exposure considering the convection in the anterior chamber of rabbiy's eye, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).
- M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K/Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki:
 Investigation of acute ocular in jury threshold by 76 Ghz band exposure in rabbits, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).
- 8100I008 K.Kitaoka, Y.Morikawa, H.Nakagawa: Burnout and stress coping styles among Japanese psychiatric nurses, 17th International Network for Psychiatric Nursing Research Conference, (Oxford, '11.09).

Liberal Arts

0040 Department of Life Science (Natural Science:Physics)

Faculty

Title	Name	Field of Specialization
Associate Professor	SUGITANI Michio	Oprical imaging of signal propagation in the piriform cortex
Associate Professor	NAKAMURA Kiyoshi	Study on Physics Education for Medical College, Study on Room Acoustics

Keywords of Research

piriform cortex, signal propagation, physical experiment, demonstration, elementary particle physics, acoustic environment, optical recording

Outline of Research

Sugitani:Optical imaging of signal propagation in the piriform cortex

Nakamura: I sutdy physics education for a medical student. 1.A computer support physics learning system. 2.Development of An experimental device. 3.University lectures on physics for beginners.

0050 Department of Life Science (Natural Science:Chemistry)

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	MAEDA Masayo	Molecular oncology, Metastasis of Cancer Cells

Keywords of Research

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

Outline of Research

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.

0060 Department of Life Science (Natural Science:Biology)

Faculty

Title	Name	Field of Specialization
Professor	HORI Isao	Development of ascidians
Associate Professor	SHOJI Hiroki	Developmental Biology, Molecular Biology, Biochemistry

Keywords of Research

planaria, acoel, regeneration, differentiation, ultrastructure, pharynx, sponge, metamorphosis, immunoelectron microscopy, neurosynaps, neurosecretory cell, lectin, galectin, β -galactoside, Xenopus, development, placenta, trophoblast

Outline of Research

- 1) Functional analysis of Galectins, a family of •-galactosides binding proteins.
- a) Roles of Galectins in animal development.
- b) Roles of Galectins in the placentation and immune tolerance.
- 2) Electron microscopic analysis of the mechanisms of regeneration of planarians.

Publications

Reviews

0060C001 E.Simamura, H.Shimada, H.Shoji, H.Otani, T.Hatta: Effects of melanocortins on fetal development, Congenit. Anom. (Kyoto), 51:47-54, 2011.

Presentations at Conference

International Conference (Presentations)

0060I001 E.Simamura, H.Shimada, H.Shoji, H.Otani, T.Hatta: Maternal-placental-fetal leukemia inhibitory factor signal pathway contributes stage-specific differentiation from fetal neural stem/progenitor cells to astrocytes, Society for Neuroscience 2011, (Washington, '11.11).

T.Hatta, H.Shimada, E.Simamura, H.Shoji, N.Higashi: Leukemia inhibitory factor induces expression of insulin-like growth factor 1 and 2 in the forebrain of rat fetuses via maternal-fetal leukemia inhibitory factor signal pathway, Society for Neuroscience 2011, (Washington, '11.11).

0090 Department of Life Science (Physical Education)

Faculty

Title	Name	Field of Specialization
Professor	TAMURA Nobuki	OtherGraduate School, Division of Physical Recreation
Associate Professor	UEDA Fumio	Physical strength and a study about the athletic capability, A basketball competition
Senior Assistant Professor	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education

Keywords of Research

hygiene of exercise, physical fitness, near-infrared spectroscopy, muscle strength, small group learning, helth rerated training, prescribed execise, wheel chair basketball, sports medicine, motor ability, working skeletal muscle wxygenation, lower leg, problem learning, effects in iron deficiency, prescription of exercise program, improvement of physical fitness, physical fitness, exercise prescription, soccer

Outline of Research

Tamura: I do the exercise tolerance test for the people who must attempt the healthy physical fitness. Based on the result, I make the appropriate prescription in the people and guide them in the motion. After two, four, six and twelve month, I investigate the effects of the motion. The prescription is made again again, if the good effect by the motion is not obtained. Ueda: To evaluate the students' physical fitness and healthcondition collectively, Ipractice the physical fitness and the motor ability test, measure their physique, and understand their condition. Making them as a basis on the guidance of teaching, I try to promote the students physical fitness and health condition.

Tsuda: 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 soccre for dhildren taing physical education in school.

0010 Department of Human Science (Humanities)

Faculty

Title	Name	Field of Specialization
Associate Professor	TAKEDA Koichi	Philosophy, History of logic

Keywords of Research

logic, metaphysics, form, content, predicate, category, deduction, induction, matter, being, substance, definion

Outline of Research

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.

Publications

Originals

0010B001 Koichi Takeda: The third interpretation on Aristotle's syllogisms, Mem. Lib. Kanazawa Med. Univ., 39:1-12, 2011 (in Japanese).

0030 Department of Human Science (Mathematics)

Faculty

Title	Name	Field of Specialization
Professor	MATSUDA Hiroo	Lorentz manifolds, Curves in Euclidean space
Associate Professor	YOSHINO Kenichi	Algebra theory, number theory

Keywords of Research

Bertrand curve, Mannheim curve, isotropy group, harmonic form, class number, ideal class group, cyclotomic field,
Mannheim curve, Frenet frame, curvature, Lie group, Lorentzian manifold, harmonic analysis, isometry group, abelian field,
class number parity, cyclotomic unit

Outline of Research

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

Yoshino: The determination of class number and the ideal class group of the cyclotomic field

0070 Department of Human Science (Foreign Languages:English)

Faculty

Title	Name	Field of Specialization
Professor	SHIBUYA Yoshiho	English linguistics, Phonetics
Senior Assistant Professor	KAKIZAKI Kenichi	Contemporary Jewish American Authors' Works
Senior Assistant Professor	BURKE STEVEN Thomas	English
Senior Assistant Professor	CRAIG Woods	English, Medical English
Senior Assistant Professor	IKENAKA Masami	English

Keywords of Research

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

Outline of Research

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.

kakizaki: To understand about contemporary American Jewish author and a Nobel laureate, Saul Bellow's idea on the fundamental questions about human existence: "Where are we going? What are we doing here?" To understand his writing techinique of novels and his idea on the art.

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.

Publications

Originals

0070B001 Steven Burke: English-through-movies course: Will it english study motivation?, Mem. Lib. Kanazawa Med. Univ., 39:13-18, 2011.

Presentations at Conference

International Conference (Presentations)

00701001	(E.Donna), Y.Shibuya, A.Suemitsu: American English Rhythm, 2011 Symposium on Modeling of Speech and Audio-
	Visual Mechanism, (Kanazawa, '11.02).

00701002 (E.Donna), Y.Shibuya, A.Suemitsu: Rhythm & Emphasis in American English: Comparison of native & non-native speakers' productions, 9th international Seminar on Speech Production (ISSP), (Canada, '11.06).

- 0070I003 (E.Donna), Y.Shibuya, A.Suemitsu: Electromagnetic articulographic (EMA) study of English thythm as a produced by native and non-native speakers., Acoustica societh of A,erica meeting, (San Digo, '11.10).
- 00701004 (E.Donna), A.Suemitsu, Y.Shibuya, S.Lee, Y.Tanaka: Comparative electromagnetic articulographic study of English rhythm as produced bynative and non-native speakers, 162nd Acoustical Society of America Meeting, (San Diego, '11.11).

0080 Department of Human Science (Foreign Languages:German)

Faculty

Title	Name	Field of Specialization
Professor	HARA Akira	Austria literature led by Hofmannsthal
Associate Professor	KOCHI Munehiro	Interpretationen von Goethes Werken, Begriff von Bildung

Keywords of Research

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

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 Germanlanguage area and furthermore in all Europe.

Kouchi: Das Europa im zweiten Hälfte des 18. Jahrhunderts ist die Wendezeit von der noch einflussreichen mittelalterlichnen 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.

Publications

Others

0080F001 Munehiro.Kouchi: Wilhelm Mommsen: Die politischen anschauungen Goethes(5), Mem. Lib. Kanazawa Med. Univ., 39:19-40, 2011 (in Japanese).



0690 Department of Endoscopy

Faculty

Title	Name	Field of Specialization
Professor	ITO Tohru	Diagnosis for esophagus, gastro-intestine, colon, liver & bileduct disease. Endoscopical 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, liver & bileduct disease. Endoscopical treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer
Senior Assistant Professor	KITAKATA Hidekazu	Diagnosis for esophagus, gastro-intestine, colon, disease. Endoscopical 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. Endoscopical 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. Endoscopical 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. Endoscopical treatment of its disease, especially, superficial type esophageal cancer, early gastric cancer, early colon cancer

Keywords of Research

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

Outline of Research

- 1.A study for endoscopical diagnosis of early digestive organ cancer.(Esophagus,Stomach,Colon)
- 2.A study for endoscopical treat ment of early digestive organ cancer.

(Esophagus, Stomach, Colon)

3. A study for prediction of lymphnode metastasis which early diagestive organ cancer. (Esophagus, Stomach, Colon)

Presentations at Conference

International Conference (Presentations)

06901001 T.Ito, H.Kitakata, S.Kinami, K.Kawaura, T.Kosaka: Endoscopic full-thickness resection for sentinel node negative submucosal invasive gastric can-cer:fundamental experience in a procine model, UEGW2011, (Stockholm, '11.10).

0620 Department of Pathology

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	MINATO Hiroshi	Anatomical pathology, Laboratory medicine, Pathological study of pulmonary and mediastinal lesion, Pathological study of head & neck tumor
Senior Assistant Professor (Additional Post)	KUROSE Nozomu	surgical pathology, molecular pathology
Assistant Professor (Additional Post)	KINOSHITA Eriko	surgical pathology, molecular pathology

Keywords of Research

surgical pathology, cytopathology, molecular pathology, ultrastructual pathology, general pathology, clinical pathology, diagnosis, histochemistry, immunostaining, PCR, in situ hybridization

Outline of Research

- 1. Anatomical pathology, Laboratory medicine, Pathological study of pulmonary and mediastinal lesion, Pathological study of head & neck tumor.
- 2.cellular pathology.
- 3.molecular pathology.

Publications

Case Reports

- 0620D001 E.Kinoshita, N.Kurose, H.Minato, T.Nojima, Y.Nakano: Clear cell adenocarcinoma coexisting with squamous cell carcinoma in situ of the uterine cervix-A case report-, J. Jpn. Soc. Clin. Cytol., 50:132-133, 2011 (in Japanese).
- 0620D002 I.Chikazawa, K.Miyazawa, T.Tanaka, K.Suzuki, A.Nakagawa, N.Kurose: Composite pheochromocytoma with ganglioneuroma in the adrenal gland: A case report, J. Kanazawa. Med. Univ., 36:83-85, 2011 (in Japanese).

Others

0620F001 H.Minato, T.Nojima, M.Nakano, M.Yamazaki: Safety management in pathology laboratory: from specimen handling to confirmation of reports, Rinsho Byori, 59:299-304, 2011 (in Japanese).

0640 Endoscopy Center

Faculty

Title	Name	Field of Specialization
Assistant Professor	SAITO Takashi	Treatment for metabolic syndrome

Keywords of Research

early esophageal cancer, gastric esophageal reflux disorder, esophageal ulcer, esophageal varix, thrombosis of esophageal varix, peptic ulcer, acute gastric mucosal lesion, proton pump inhibitor, lansoplazole metabolism, helicobacter pylori, eradication therapy of helicobacter pylori, early gastric cancer, endoscopic mucosal resection, endoscopic submucosal dissection, endoscopic ultrasound, marking rivet, early colon cancer, apoptosis, vascular endothelial growth factor, ulcerative colitis, Crohn disease

Outline of Research

- 1. Endoscopic treatment for early cancer of digestive organ
- 2. Endoscopic treatment for esophageal and gastric varices associated with portal hypertension
- 3. Endoscopic treatment for choledochal stone
- 4. Endoscopic diagnosis for pulmonary cancer

Presentations at Conference

International Conference (Presentations)

0640I001	H.Shiroeda, T.Tahara, M.Nakamura, H.Yamada, T.Nomura, R.Hayashi, T.Saito, T.Fukuyama, N.Hayashi,
	T.Otsuka, H.Yano, K.Ozaki, M.Tsuchishima, M.Tsutsumi, T.Shibata, T.Arisawa: Effects of -1018 G>a
	polymorphism of HRH2 gene, coding histamine H2 receptor, on dap-kinase hypermenthylation in human gastric
	mucosa, DDW2011(AGA), (Chicago, '11.05).

0640I002 M.Tsuchishima, J.George, H.Shiroeda, T.Saito, T.Arisawa, M.Tsutsumi: Mechanism of the pathogenesis of hepatocellular carcinoma during chronic administration of ethanol in mice, AASLD2011, (San Francisco, '11.11).

0700 Multidisciplinary Cancer Center

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	TANAKA Tatsuro	Urology
Professor (Additional Post)	TSUJI Hiroyuki	Head & Neck Surgery
Associate Professor (Additional Post)	MATOBA Munetaka	Radiation Oncology
Associate Professor (Additional Post)	MASAKI Yasufumi	Hematology/ Oncology
Associate Professor (Additional Post)	OMOTE Kazuhiko	Surgical treatment of gastric cancer
Senior Assistant Professor (Additional Post)	WASADA Tomoo	reproductive medicine, perinatal medicine, gynecologic oncology
Senior Assistant Professor (Additional Post)	OKAMOTO Kazuya	brain tumor, stereotactic radiosurgery
Assistant Professor (Additional Post)	TSUCHIHARA Katsuma	clinical respiratory medicine, lung cancer
Assistant Professor (Additional Post)	FUKUYAMA Tomoki	Chemotherapy for gastrointestinal malignant disease

Keywords of Research

out patient chmotherapy, clinical investigation, biomarker, multidisciplinary cancer

Outline of Research

Our main task is outpatient chemotherapy, which is requested by other Departments of the hospital. We are also involved in clinical trials on chemotherapy, and in translational research using clinical samples such as blood and urine of patients.

Publications

Originals

0700B001	(QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human
	SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer
	PANC-1 cells, Pancreas, 40:55-60, 2011.

- 0700B002 T.Fukushima, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sato, T.Sakai, T.Sawaki, Y.Fujita, M.Tanaka, Y.Masaki, H.Nakajima, Y.Motoo, H.Umehara: Efficacy and safety of bortezomib plus dexamethasone therapy for refractory or relapsed multiple myeloma: once-weekly administration of bortezomib may reduce the incidence of gastrointestinal adverse events, Anticancer Res., 31:2297-2302, 2011.
- 0700B003 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 0700B004 T.Shimasaki, K.Miyazawa, M.Moriyama, T.Tanaka, I.Sato, N.Nakaya, H.Nakajima, A.Kubo, K.Suzuki, Y.Motoo: Combination chemotherapy of docetaxel and uft against hormone refractory prostate cancer, Acta Urol. Jpn., 57:163-166, 2011 (in Japanese).

Case Reports

0700D002 N.Nakaya, I.Sato, T.Shimasaki, H.Nakajima, N.Kurose, T.Nojima, Y.Motoo: A Case of primary cardiac angiosarcoma associated with cardiac tamponade, Cancer & chemotherapy., 38:1353-1355, 2011 (in Japanese).

Others

- 0700F011 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 0700F012 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 0700F013 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (in Iapanese).

Presentations at Conference

International Conference (Synposium)

- 0700H001 Y.Motoo: Chemotherapy for pancreatic cancer: molecular analysis and clinical application, Asian Oncology Summit 2011, (Hong Kong SAR, '11.04).
- 0700H002 (K.Ogawa), M.Ogawa, Y.Motoo: Kampo Therapy for Cancer Care: Significance as Supportive Measure, 1st International Symposium for Japanese Kanpo Medicine, (Munich, '11.11).

International Conference (Presentations)

- 0700I001 Y.Motoo: Proposal of comparative analysis of herbal medicines among CJK and alignment of the ICTM Herbal Interventions with other international initiatives, WHO ICTM TAG Classification of Interventions, (Hong Kong SAR, China, '11.04).
- 0700I002 Y.Motoo: Japanese viewpoint of ISO/TC249, The Second Plenary Meeting of ISO/TC249, (The Hague, the Netherlands, '11.05).
- 07001003 M.Nakamura, T.Arisawa, T.Shibata, T.Tahara, M.Okubo, H.Shiroeda, T.Fukuyama, K.Ozaki, T.Otsuka, I.Hirata: Comparison of cost-effectiveness of three treatments(Rabeprazole with rebamipide combination therapy;lansoprazole with rebamipide combination therapy;raberazole monotherapy)for gastric ulcers post-ESD, DDW2011 (ASGE), (Chicago, '11.05).
- 07001004 H.Shiroeda, T.Tahara, M.Nakamura, H.Yamada, T.Nomura, R.Hayashi, T.Saito, T.Fukuyama, N.Hayashi, T.Otsuka, H.Yano, K.Ozaki, M.Tsuchishima, M.Tsutsumi, T.Shibata, T.Arisawa: Effects of -1018 G>a polymorphism of HRH2 gene, coding histamine H2 receptor, on dap-kinase hypermenthylation in human gastric mucosa, DDW2011(AGA), (Chicago, '11.05).
- 07001005 M.Nakamura, T.Arisawa, T.Shibata, T.Tahara, M.Okubo, H.Shiroeda, T.Fukuyama, K.Ozaki, T.Otsuka, Y.Takakuwa, M.Kuroda, I.Hirata: Prospective study of collagenous colitis onset associated with long-term administration of proton pump inhibitors, DDW2011(ASGE), (Chicago, '11.05).
- 07001006 T.Fukuyama, T.Tahara, M.Nakamura, H.Yamada, T.Nomura, R.Hayashi, T.Otsuka, H.Yano, K.Ozaki, H.Shiroeda, M.Tsuchishima, M.Tsutsumi, T.Shibata, T.Arisawa: The pre-microRNA 325,targeting Slc6a4 3'-Utr,gene polymorphism is closely associated with the risk of functional dyspesia in Japan, DDW2011(AGA), (Chicago, '11.05).

- 07001007 K.Ozaki, T.Tahara, M.Nakamura, T.Fukuyama, T.Otsuka, M.Okubo, T.Shibata, T.Arisawa: The-1018 G>a polymorphism of HRH2 gene, coding histamine H2 receptor, affects the susceptibility to the gastric carcinogenesis in Japan, DDW2011(AGA), (Chicago, '11.05).
- 07001008 T.Arisawa, T.Tahara, M.Nakamura, T.Fukuyama, T.Otsuka, H.Shiroeda, M.Okubo, T.Shibata: The-449 C>G polymorphism of NFKVB1 gene, coding nuclear factor-kappa B, is associated with the susceptibility to the gastric carcinogenesis in Japan, DDW2011(AGA), (Chicago, '11.05).
- 07001009 Y.Motoo: Evaluation of Japanese clinical practice guidelines based on Kampo descriptions, Guidelines International Network Conference 2011, (Seoul, Korea, '11.08).
- 07001010 Y.Motoo: Pancreatic cancer: experimental sensitization to gemcitabine and patient care with traditional Japanese medicine, International Conference on Cancer Prevention, (Seoul, Korea, '11.08).
- 0700I011 H.Nakajima, T.Minamoto, Y.Motoo: HITS(FAM107B): Novel heat-shock induced protein as a maker for cancer progression and diagnosis, 16th World Congress on Advances in Oncology and 14th International Symposium on Molecular Medicine, (Rhodes Island, Greece, '11.10).
- 0700I012 J.George, T.Fukuyama, N.Hayashi, K.Ozaki, H.Shiroeda, T.Arisawa, M.Tsutsumi: Oxxasional alcohol intake promotes nonalcoholic steatohepatitis in obese rats, ALPD2011, (Fukuoka, '11.10).
- 0700I013 Y.Motoo, I.Arai, K.Tsutani: Evidence Reports on Kampo Treatment (EKAT), The First International Symposium for Japanese Kampo Medicine, (Munich, Germany, '11.11).
- 0700I014 N.Nakaya, Y.Ishigaki, Q.Bian, S.Ma, T.Shimasaki, H.Nakajima, Y.Motoo: Molecular mechanisms of TP531NP1 in the gemcitabine sensitivity, The International Pancreatic Research Forum 2011, (Osaka, '11.11).
- 0700I015 Y.Motoo, I.Arai, T.Hakamatsuka: Japanese viewpoint on ICTM Interventions, Informal Consultation on Interventions Modeling, (Geneva, Switzerland, '11.12).

0670 Lifestyle-related Diseases Center

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Shinobu	Clinical cardiology
Professor (Additional Post)	TAMURA Nobuki	Physical physiology(The exercise testing and prescription from the physiological and biochemical research), Effects of the anemia on the physical activitiy, Exercise therapy for the lifestyle-related disease, Training for health Medical Education
Professor (Additional Post)	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
Associate Professor	ASAJI Takayoshi	Heart failure
Associate Professor (Additional Post)	ITO Tomohiko	Endocrinology
Senior Assistant Professor	UENISHI Hiroaki	Cardiovascular Medicine
Senior Assistant Professor	KUDOH AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology
Senior Assistant Professor (Additional Post)	NAKANISHI Yumiko	Preventive medicine
Senior Assistant Professor (Additional Post)	KITADA Munehiro	diabetes, hypertension
Assistant Professor	KAMODA Sachiko	lifestyle-related disease, Preventive medicine
Assistant Professor	HAYASAKI Hisae	lifestyle-related disease

Keywords of Research

life-style related disease, metabolic syndorome, impaired glucose tolerance, hypertension, hyperlipidemia, smoking, stroke, myocardial infarction, diet, exercise, smoking

Outline of Research

Prevention of life-style-related diseases by exercise, diet and stop-smoking.

Publications

Others

0670F001 M.Terada, J.Fujita, S.Watanabe, M.Kawasaki, H.Tanabe, K.Anzawa, T.Mochizuki: Olecranon bursa with *Fusarium solani* infection in an otherwise healthy patient, Mycoses, 54:853–855, 2011.

0610 Health Management Center

Faculty

Title	Name	Field of Specialization
Professor	KAWAHARA Hiromu	Liver injury and oxidative stress
Professor (Additional Post)	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor (Additional Post)	YASUDA Yukio	evidence-based health care
Professor (Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational 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
Senior Assistant Professor	NAKANISHI Yumiko	Preventive medicine
Senior Assistant Professor	KUGINUKI Yasuaki	hemodynamics
Assistant Professor	OTA Kiyotaka	Radiology
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

0610B001	(QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human			
	SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer			
	PANC-1 cells, Pancreas, 40:55-60, 2011.			
0610B002	(Y.Murakami), K.Miura, T.Okamura, H.Ueshima, H.Nakagawa, and for the EPOCH-JAPAN Research Group:			
	Population attributable numbers and fractions of deaths due to smoking: A pooled analysis of 180,000 Japanese.			

Population attributable numbers and fractions of deaths due to smoking: A pooled analysis of 180,000 Japanese, Prev. Med., 52:60-65, 2011.

0610B003 K.Usuda, Xi.Zhao, M.Sagawa, M.Matoba, Y.Kuginuki, M.Taniguchi, Y.Ueda, T.Sakuma: Diffusion-weighted imaging is superior to positron emission tomography in the detection and nodal assessment of lung cancers, Ann. Thorac. Surg., 91:1689-1695, 2011.

0610B004 (D.D.Nhu), T.Kido, N.N.Hung, L.T.H.Thom, R.Naganuma, L.K.Son, S.Honma, S.Maruzeni, M.Nishijo, H.Nakagawa: Dioxin levels in the breast milk and estradiol and androgen levels in the saliva of Vietnamese primiparae, Toxicol. Environ. Chem., 93:824-838, 2011.

- V.Ishigaki, Y.Nakamura, T.Takehara, N.Nemoto, T.Kurihara, H.Koga, H.Nakagawa, T.Takegami, N.Tomosugi, S.Miyazawa, S.Kuwabata: Ionic liquid enables simple and rapid sample preparation of human culturing cells for scanning electron microscope analysis, Microsc. Res. Tech., 74:415-420, 2011.
- 0610B006 K.Tawara, M.Nishijo, S.Maruzeni, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, D.D.Nhu, N.N.Hung, L.T.H.Thom: Residual congener pattern of dioxins in human breast milk in southern Vietnam, Chemosphere, 84:979-986, 2011.
- 0610B007 P.T.Tai, M.Nishijo, T.Kido, H.Nakagawa, S.Maruzeni, R.Naganuma, N.T.N.Anh, Y.Morikawa, H.V.Luong, T.H.Anh, N.N.Hung, L.K.Son, K.Tawara, H.Nishijo: Dioxin concentrations in breast milk of Vietnamese nursing mothers: a survey four decades after the herbicide spraying, Environ. Sci. Technol., 45:6625–6632, 2011.
- O610B008 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- V.Ishigaki, Y.Nakamura, T.Takehara, T.Kurihara, H.Koga, T.Takegami, H.Nakagawa, N.Nemoto, N.Tomosugi, S.Kuwabata, S.Miyazawa: Comparative study of hydrophilic and hydrophobic ionic liquids for observing cultured human cells by scanning electron microscopy., Microsc. Res. Tech., 74:1104-1108, 2011.
- 0610B010 (J.D.Curb), H.Ueshima, B.L.Rodriguez, Q.He, T.A.Koropatnick, H.Nakagawa, K.Sakata, S.Saitoh, A.Okayama, for the INTERLIPID study group: Differences in lipoprotein particle subclass distribution for Japanese Americans in Hawaii and Japanese in Japan: the INTERLIPID study, J. Clin. Lipidol., 5:30-36, 2011.
- 0610B011 M.Nakashima, Y.Morikawa, M.Sakurai, K.Nakamura, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: Association between long working hours and sleep problems in white-collar workers, J. Sleep. Res., 20:110-116, 2011.
- 0610B012 M.Nagai, Y.Morikawa, K.Kitaoka, K.Nakamura, M.Sakurai, M.Nishijo, Y.Hamazaki, S.Maruzeni, H.Nakagawa: Effects of fatigue on immune function in nurses performing shift work, J. Occup. Health, 53:312-319, 2011.
- 0610B013 Y.Hamazaki, Y.Morikawa, K.Nakamura, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, H.Nakagawa: The effects of sleep duration on the incidence of cardiovascular events among middle-aged male workers in Japan, Scand. J. Work Environ. Health, 37:411-417, 2011.
- 0610B014 (M.Sugihara), R.Oka, M.Sakurai, K.Nakamura, T.Moriuchi, S.Miyamoto, Y.Takeda, K.Yagi, M.Yamagishi: Agerelated changes in abdominal fat distribution in Japanese adults in the general population, J. Int. Med., 50:679-685, 2011.
- (The Emerging Risk Factors Collaboration), D.Wormser, S.Kaptoge, E.A.Di, E.Angelantonio, AM.Wood,
 L.Pennells, A.Thompson, N.Sarwar, JR.Kizer, DA.Lawlor, BG.Nordestgaard, P.Ridker, V.Salomaa, J.Stevens,
 M.Woodward, N.Sattar, R.Collins, SG.Thompson, G.Whitlock, J.Danesh, H.Nakagawa, M.Sakurai, K.Nakamura,
 Y.Morikawa: Separate and combined associations of body-mass index and abdominal adiposity with cardiovascular disease: collaborative analysis of 58 prospective studies, Lancet, 377:1085-1095, 2011.
- 0610B016 (A.Kadota), K.Miura, T.Okamura, A.Hozawa, Y.Murakami, A.Fujiyoshi, N.Takashima, T.Hayakawa, Y.Kita, A.Okayama, Y.Nakamura, H.Ueshima, H.Nakagawa, for the NIPPON DAYA90 research group: Relationship of moderate metabolic risk factor clustering to cardiovascular disease mortality in non-lean Japanese: A 15-year follow-up of NIPPON DATA90, Atherosclerosis, 215:209-213, 2011.
- 0610B017 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Ke Le: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, Organohalogen Compounds., 73:1745-1748, 2011.
- 0610B018 (K.Nambunmee), R.Honda, M.Nishijo, W.Swaddiwudhipong, H.Nakagawa, W.Ruangyuttikarn: High cadmium exposure in Mae Sot's population is associated with high anemia prevalence, Thai J. Toxicology, 26:29-43, 2011.
- 0610B019 Q.Li, M.Nishijo, H.Nakagawa, Y.Morikawa, M.Sakurai, K.Nakamura, T.Kido, K.Nogawa, M.Dai: Relationship between urinary cadmium and mortality in habitants of a cadmium-polluted area: a 22-year follow-up study in Japan, Chin. Med. J., 124:3504-3509, 2011.

- 0610B020 M.Nishijo, K.Tawara, T.Seto, Y.Morikawa, R.Naganuma, T.Kido, A.Nguen Thi Nguyet, H.Nakagawa: Relationships between food intake and dioxin concentrations in breast milk of motehrs in Ishikawa prefecture, Japan, Hokuriku Japanese Journal of Public Health., 38:1–8, 2011 (in Japanese).
- 0610B021 (Y.Ohashi), K.Shimamoto, S.Sato, H.Iso, Y.Kita, A.Kitamura, I.Saito, Y.Kiyohara, H.Kawano, H.Nakagawa, H.Toyoshima, T.Ando, M.Taguri, A.Harada, H.Ueshima: Association of obesity and other cardiovascular risk factors with stroke The Japan Arteriosclerosis Longitudinal Study- Exisiting Cohorts Combined (JALS-ECC), Japanese Journal of Public Health., 58:1007-1015, 2011 (in Japanese).

Short Communications

- 0610E001 (Y.Suwazono), K.Nogawa, M.Uetani, K.Miura, K.Sakata, A.Okayama, H.Ueshima, J.Stamuler, H.Nakagawa:
 Application of hybrid approach for estimating the benchmark dose of urinary cadmium for adverse renal effects in the general population of Japan, J. Appl. Toxicol., 31:89-93, 2011.
- 0610E002 (Y.Suwazono), K.Nogawa, M.Uetani, T.Kido, H.Nakagawa: Reassessment of the threshold of urinary cadmium by using hybrid approach in a cadmium non-pulluted area in Japan, Int. J. Hyg. Environ. Health., 214:175-178, 2011.
- 0610E003 (Y.Suwazono), K.Nogawa, M.Uetani, S.Nakada, T.Kido, H.Nakagawa: Application of the hybrid approach to the benchmark dose of urinary cadmium as the reference level for renal effects in cadmium polluted and non-polluted areas in Japan, Environ. Res., 111:312-314, 2011.

Presentations at Conference

International Conference (Presentations)

- 06101001 (Y.Nakamura), Y.Kiyohara, T.Okamura, A.Higashiyama, M.Watanabe, A.Kadota, S.Nagasawa, K.Miura, H.Ueshima, for the NIPPON DATA Research Group: Saturated Fatty Acids Intake and Coronary Heart Disease Mortality in Japan: NIPPON DATA90 1990-2005. Nutrition, Physical Activity and Metabolism, Cardiovascular Disease Epidemiology and Prevention 2011 Scientific Sessions, American Heart Association, (Atlanta, USA, '11.03).
- 9610I002 Y.Morikawa, M.Sakurai, K.Nakamura, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Sift work and heavy drinking, Biological mechanisms, recovery and risk management in the 24th society, (Stockholm, '11.07).
- 0610I003 (Y.Nakamura), Y.Kiyohara, T.Okamura, A.Higashiyama, M.Watanabe, A.Kadota, S.Nagasawa, K.Miura, H.Ueshima: Saturated fatty acids intake, polyunsaturated fatty acid intake and coronary heart disease mortality in Japan: NIPPON DATA90 1990-2005., European Society of Cardiology, (Paris, France, '11.08).
- 06101004 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Le Ke: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 06101005 S.Maruzeni, T.Kido, HD.Manh, R.Naganuma, S.Homma, XL.Sun, TT.Pham, M.Nishijo, H.Nakagawa, DD.Mhu, LTH.Thom, NN.Hung, LK.Son: Impact of dioxin in breast milk on salivary steroid hormone of Vietnamese primiparas, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 06101006 (T.Kido), R.Naganuma, XL.Sun, S.Maruzeni, HD.Manh, E.Koh, H.Suzuki, M.Nishijo, H.Nakagawa, S.Honma, DD.Nhu, LTH.Thom, NN.Hung, LK.Son: Comparison of prostate specific antigen leveles in serum between herbicides/dioxin-hot spot and non-sprayed in Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 0610I007 K.Kitaoka, Y.Morikawa, H.Nakagawa: Burnout and stress coping styles among Japanese psychiatric nurses, 17th International Network for Psychiatric Nursing Research Conference, (Oxford, '11.09).
- 0610I008 Y.Kuginuki, H.Tonami, M.Tsutumi, T.Arisawa: Diffusion-weighted MR imaging with navigator -triggered prospective acquisition correction at 3 T for the assessment of hepatic fibrosis, 97th Radiological Society of North America, (Chicago, '11.11).

0610I009 (MN.Nguyen), E.Hori, S.Urakawa, TNA.Nguyen, T.Pham, M.Nishijo, H.Nakagawa, S.Maruzeni, HA.Tran, T.Ono, H.Nishijo: Effects of maternal exposure to TCDD on parvalbumin-positive neurons in the limbic system of rat offspring, The 6th International Conference of Neurons and Brain Diseases, (Toyama, '11.12).

0680 Medical Genetic Center

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor (Additional Post)	ITO Masatsune	child endocrinology
Assistant Professor (Additional Post)	SATO Hitoshi	clinical virology, child infectious disease

Keywords of Research

Medical genetics, Genetic services, Genetic counseling, Genetic testing, DNA diagnosis, Molecular diagnosis, Chromosomal study

Outline of Research

Studies and practices of useful methods of genetic concerning Development of exhaustive and comprehensive genetic testing Total health care of patients with genetic diseases

Publications

Case Reports

0680D001 K.Nakagawa, S.Kitadate, M.Saito, Y.Fujimoto, K.Kojima, T.Oikawa, K.Oikawa, M.Iguchi, J.Huang, K.Osanai, H.Toga, K.Araida: Two cases of Birt-Hogg-Dube' syndrome in a family, Jpn. j. clin. Radiol., 56:133-137, 2011 (in Japanese).

Medical Research Institute

7100 Department of Life Science

Faculty

Name	Field of Specialization	
TAKEGAMI Tsutomu	Molecular mechanism of flavivirus replication, interaction with hos cells and viral carcinogenesis	
FUJIKAWA Kohzaburo polyploid cells, cell cycle, transformation		
OTA Takahide	Molecular analysis of the mechanism of cancer metastasis	
ISHIGAKI Yasuhito	Molecular and Cellular Biology	
MIYAGOSHI Minoru	Cell biology	
MURAKAMI Manabu	Pathogenicity of flavivirus isolated from the field-collected mosquitoes	
NAKAMURA Yuka	Molecular and Cellular Biology	
_	TAKEGAMI Tsutomu FUJIKAWA Kohzabur OTA Takahide ISHIGAKI Yasuhito MIYAGOSHI Minoru MURAKAMI Manabu	

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, epitherial/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

Outline of Research

- 1.Study on viral replication and pathogenicity
- 2. Molecular mechanism of carcinogenesis and metastasis
- 3. Research on plolyploidization and polyploid cells
- 4. Analyses of transcription and mRNA decay

Publications

Originals

- 7100B001 (QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer PANC-1 cells, Pancreas, 40:55-60, 2011.
- 7100B002 H.Osada, Y.Yoshitake, T.Ikeda, Y.Ishigaki, T.Takata, N.Tomosugi, H.Sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, Mol. Vis., 17:159-169, 2011.
- 7100B003 (H.Suzuki), K.Ozaki, K.Sano, A.H.M.Khurshid Alam, Y.Nakamura, Y.Ishigaki, K.Kawahara, T.Tsukahara: Comprehensive analysis of alternative splicing and functionality in neuronal differentiation of P19 cells., PLoS ONE, 6:e16880,1-11, 2011.
- 7100B004 (T.Murayama), C.Bi, Y.Li, Y.Ishigaki, F.Takano, T.Takegami, T.Ohta, H.Sumino, K.Ubukata, T.Takahashi: Inhibitory effects of statins on cytomegalovirus production in human cells: comprehensive analysis of gene expression profiles, J. Exp. Clin. Med., 3:40-45, 2011.

- 7100B005 Y.Ishigaki, Y.Nakamura, T.Takehara, N.Nemoto, T.Kurihara, H.Koga, H.Nakagawa, T.Takegami, N.Tomosugi, S.Miyazawa, S.Kuwabata: Ionic liquid enables simple and rapid sample preparation of human culturing cells for scanning electron microscope analysis, Microsc. Res. Tech., 74:415-420, 2011.
- 7100B006 (J.F.Guo), K.Higashi, Y.Ueda, Y.Ishigaki, T.Sakuma, M.Oguchi, T.Takegami, Y.Ohta, L.Zhang, K.Xu, H.Nishida, H.Tonami: VEGF-A and its isoform VEGF₁₂₁ mRNA expression measured by quantitative real-time RT-PCR: correlation with F-18 FDG uptake and aggressiveness of lung adenocarcinoma: preliminary study, Ann. Nucl. Med., 25:29-36, 2011.
- 7100B007 T.Ikeda, L.Sun, N.Tsuruoka, Y.Ishigaki, Y.Yoshitomi, Y.Yoshitake, H.Yonekura: Hypoxia down-regulates sFlt-1 (sVEGFR-1) expression in human microvascular endothelial cells by a mechanism involving mRNA alternative processing, Biochem. J., 436:399-407, 2011.
- 7100B008 (A.Iwai), T.Takegami, T.Shiozaki, T.Miyazaki: Hepatitis C Virus NS3 Protein Can Activate the Notch-Signaling Pathway through Binding to a Transcription Factor, SRCAP, PLoS ONE, 6:e20718,1-12, 2011.
- 7100B009 (R.Kurayama), N.Ito, Y.Nishibori, D.Fukuhara, Y.Akimoto, E.Higashihara, Y.Ishigaki, Y.Sai, K.Miyamoto, H.Endou, Y.Kanai, K.Yan: Role of amino acid transporter LAT2 in the activation of mTORC1 pathway and the pathogenesis of crescentic glomerulonephritis, Lab. Invest., 91:992-1006, 2011.
- 7100B010 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 7100B011 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Kurihara, H.Koga, T.Takegami, H.Nakagawa, N.Nemoto, N.Tomosugi, S.Kuwabata, S.Miyazawa: Comparative study of hydrophilic and hydrophobic ionic liquids for observing cultured human cells by scanning electron microscopy., Microsc. Res. Tech., 74:1104–1108, 2011.
- 7100B012 J.Moriya, R.Chen, J.Yamakawa, K.Sasaki, Y.Ishigaki, T.Takahashi: Resveratrol improves hippocampal atrophy in chronic fatigue mice by enhancing neurogenesis and inhibiting apoptosis of granular cells, Arch. Oral Biol., 34:354–359, 2011.
- 7100B013 K.Fujikawa-Yamamoto, M.Miyagoshi, X.Luo, H.Yamagishi: DNA-unstable decaploid mouse H1 (ES) cells established from DNA-stable pentaploid H1 (ES) cells polyploidized using demecolcine, Cell Prolif., 44:111-119, 2011.
- 7100B014 K.Fujikawa-Yamamoto, M.Miyagoshi, X.Luo, H.Yamagishi: Hexaploid H1 (ES) cells established from octaploid H1 cells are as DNA stable as pentaploid H1 cells, Hum. Cell., 24:13-20, 2011.
- 7100B015 K.Fujikawa-Yamamoto, M.Miyagoshi, H.Yamagishi, T.Ota: Haploid unit-ploidy transition of tetraploid and octaploid H1 (ES) cells in long-term culturing, Hum. Cell., 24:78-85, 2011.

Reviews

7100C001 Y.Motoo, T.Shimasaki, Y.Ishigaki, H.Nakajima, K.Kawakami, T.Minamoto: Metabolic disorder, inflammation, and deregulated molecular pathways converging in pancreatic cancer development: Implications for new therapeutic strategies, Cancers (Basel)., 3:446-460, 2011.

Presentations at Conference

International Conference (Synposium)

7100H001 T.Ikeda, Y.Yoshitomi, Y.Ishigaki, Y.Yoshitake, H.Yonekura: Soluble VEGFR-1 production is down-regulated under hypoxia in human microvascular endothelial cells by a mechanism involving alternative mRNA 3′-end processing, The Molecular Biology Society of Japan The 11th Spring Symposium International Symposium on Tumor Biology in Kanazawa, (Kanazawa, '11.05).

International Conference (Presentations)

- 71001001 T.Okuda, Y.Tachi, N.Kawahara, N.Kato, Y.Ishigaki, E.Hatano, Y.Yasuda, T.Matsumoto: Hyaluronidase-4 expression in a rat spinal cord hemisection model, Second Annual Meeting of Cervical Spine Research Society Asia Pacific Section (CSRS-AP 2011), (Busan, '11.04).
- 71001002 K.Fujikawa-Yamamoto, M.Miyagoshi, H.Yamagishi, X.Luo: Haploid unit-ploidy transition of tetraploid and octaploid H1(ES) cells in long-term culturing, ISAC XXVI International Congress, (Baltimore, '11.05).
- 71001003 T.Ikeda, Y.Yoshitomi, Y.Ishigaki, Y.Yoshitake, H.Yonekura: Hypoxia doun-regulates sFlt-1(sVEGFR-1) expression in human microvascular endothelial cells by a mechanism involving mRNA alternative processing, 36th FEBS Congress, (Torino, '11.06).
- 7100I004 Y.Yoshitake, H.Osada, T.Ikeda, Y.Yoshitomi, Y.Ishigaki, H.sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, 36th FEBS Congress, (Torino, '11.06).
- 71001005 T.Takegami, M.Murakami, M.Nukuzuma, Y.Ishigaki: Physiological function of Japanese encephalitis virus protein NS4a., XV International Congress of Virology, (Sapporo, '11.09).
- 7100I006 M.Murakami, K. Kamimura, Y.Oikawa, T.Takegami: Isolation and characterization of Japanese encephalitis virus from mosquitoes in Ishikawa, Japan in 2010, XV International Congress of Virology, (Sapporo, '11.09).
- 7100I007 N.Nakaya, Y.Ishigaki, Q.Bian, S.Ma, T.Shimasaki, H.Nakajima, Y.Motoo: Molecular mechanisms of TP531NP1 in the gemcitabine sensitivity, The International Pancreatic Research Forum 2011, (Osaka, '11.11).
- 71001008 Y.Tachi, T.Okuda, N.Kawahara, N.Kato, Y.Ishigaki, T.Hato, E.Hatano, T.Matsumoto: Does Hyaluronidase-4 digest chondroitin sulfate proteoglycans in a rat spinal cord hemisection model?, Neuroscience 2011, (Washington, '11.11).

7200 Department of Advanced Medicine

Faculty

Title	Name	Field of Specialization
Professor	TOMOSUGI Naohisa	Clinical Proteomics
Professor	TAKEUCHI Masayosh	i AGEs, Life style-related disease
Professor	KUHARA Tomiko	Noninvasive metabolome analysis for diagnosis of metabolic disorders and personalized medicine
Professor (Additional Post)	MATSUI Shinobu	Clinical cardiology
Professor (Additional Post)	DATE Takayasu	Function of protein Kinase, PKU– β /TLK1 and PKU– α /TLK2
Professor (Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
Associate Professor	NAGAO Yosinobu	spermatogenesis, epigenetics, endocrine disruptors
Associate Professor	TAKABAYASHI Haru	o fetal medicine, DNA medicine
Senior Assistant Professor (Additional Post)	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, BioInformatics
Assistant Professor	UEDA Tadashi	cardiac muscle, lung, cell biology, cytochemistry
Assistant Professor	TAKATA Takanobu	Deveropment of the method for diacrisis and therapy of the intractable disease by 'Ptoteome Analysis'
Assistant Professor	OZAKI Mamoru	cytogenetics, Molecular cytogenetics
Research Associate	MURANO Hidekazu	Cardial histology and immunohistochemistry

Keywords of Research

renal cell carcinoma, cytogenetics, metalloproteinase, mesangial cell, renal disease, chronic renal failure, glomerulonephritis, anti-aging, AGEs, heart failure, cardiomyopathy, nerohumoral 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
- ${\bf 6.} Genetic\ diagnosis\ and\ analysis\ of\ hereditary\ developmental\ disability$
- 7.Development of molecular method to detect the abnormality of chromosome, and risk evaluation about balance type of reciprocal translocation

Publications

Originals

7200B001 (QS.Xia), Y.Ishigaki, X.Zhao, T.Shimasaki, H.Nakajima, H.Nakagawa, T.Takegami, ZH.Chen, Y.Motoo: Human SMG-1 is involved in gemcitabine-induced primary microRNA-155/BIC up-regulation in human pancreatic cancer PANC-1 cells, Pancreas, 40:55-60, 2011.

- 7200B002 H.Osada, Y.Yoshitake, T.Ikeda, Y.Ishigaki, T.Takata, N.Tomosugi, H.Sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, Mol. Vis., 17:159-169, 2011.
- 7200B003 Y.Ishigaki, Y.Nakamura, T.Takehara, N.Nemoto, T.Kurihara, H.Koga, H.Nakagawa, T.Takegami, N.Tomosugi, S.Miyazawa, S.Kuwabata: Ionic liquid enables simple and rapid sample preparation of human culturing cells for scanning electron microscope analysis, Microsc. Res. Tech., 74:415-420, 2011.
- 7200B004 T.Kuhara, M.Ohse, Y.Inoue, A.J.L.Cooper: A GC/MS-based metabolomic approach for diagnosing citrin deficiency, Anal. Bioanal. Chem., 400:1881-1894, 2011.
- 7200B005 T.Kuhara, Y.Inoue, M.Ohse, B.F.Krasnikov, A.J.L.Cooper: Urinary 2-hydroxy-5-oxoproline, the lactam form of α -ketoglutaramate, is markedly increased in urea cycle disorders, Anal. Bioanal. Chem., 400:1843-1851, 2011.
- 7200B006 (Y.Ishibashi), T.Matsui, M.Takeuchi, S.Yamagishi: Rosuvastatin blocks advanced glycation end products-elicited reduction of macrophage cholesterol efflux by suppressing NADPH oxidase activity via inhibition of geranylgeranylation of Rac-1, Horm. Metab. Res., 43: 619-624, 2011.
- 7200B007 T.Fukushima, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sato, T.Sakai, T.Sawaki, Y.Fujita, M.Tanaka, Y.Masaki, H.Nakajima, Y.Motoo, H.Umehara: Efficacy and safety of bortezomib plus dexamethasone therapy for refractory or relapsed multiple myeloma: once-weekly administration of bortezomib may reduce the incidence of gastrointestinal adverse events, Anticancer Res., 31:2297-2302, 2011.
- 7200B008 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Shimasaki, T.Tatsuno, F.Takano, Y.Ueda, Y.Motoo, T.Takegami, H.Nakagawa, S.Kuwabata, N.Nemoto, N.Tomosugi, S.Miyazawa: Scanning electron microscopy with an ionic liquid reveals the loss of mitotic protrusions of cells during the epithelial-mesenchymal transition, Microsc. Res. Tech., 74:1024-1031, 2011.
- 7200B009 Y.Ishigaki, Y.Nakamura, T.Takehara, T.Kurihara, H.Koga, T.Takegami, H.Nakagawa, N.Nemoto, N.Tomosugi, S.Kuwabata, S.Miyazawa: Comparative study of hydrophilic and hydrophobic ionic liquids for observing cultured human cells by scanning electron microscopy., Microsc. Res. Tech., 74:1104-1108, 2011.
- 7200B010 (T.Saheki), K.Inoue, H.Ono, A.Tushima, N.Katsura, M.Yokogawa, Y.Yoshidumi, T.Kuhara, M.Ohse, K.Eto, T.Kadowaki, D.S.Sinasac, K.Kobayashi: Metabolomic analysis reveals hepatic metabolite perturbations in citrin/mitochondrial glycerol-3-phosphate dehydrogenase double-knockout mice, a model of human citrin deficiency, Mol. Genet. Metab., 104:492-500, 2011.
- 7200B011 T.Shimasaki, K.Miyazawa, M.Moriyama, T.Tanaka, I.Sato, N.Nakaya, H.Nakajima, A.Kubo, K.Suzuki, Y.Motoo: Combination chemotherapy of docetaxel and uft against hormone refractory prostate cancer, Acta Urol. Jpn., 57:163-166, 2011 (in Japanese).

Reviews

- 7200C001 Y.Motoo, T.Seki, K.Tsutani: Traditional Japanese medicine, Kampo: Its history and current status, Chin. J. Integr. Med., 17:85-87, 2011.
- 7200C002 Y.Motoo, T.Shimasaki, Y.Ishigaki, H.Nakajima, K.Kawakami, T.Minamoto: Metabolic disorder, inflammation, and deregulated molecular pathways converging in pancreatic cancer development: Implications for new therapeutic strategies, Cancers (Basel)., 3:446-460, 2011.

Case Reports

7200D002 N.Nakaya, I.Sato, T.Shimasaki, H.Nakajima, N.Kurose, T.Nojima, Y.Motoo: A Case of primary cardiac angiosarcoma associated with cardiac tamponade, Cancer & chemotherapy., 38:1353-1355, 2011 (in Japanese).

Others

7200F001 Y.Inoue, M.Ohse: Prenatal diagnosis of methylmalonic aciduria by measuring methylmalonic acid in dried amniotic fluid on filter paper using gas chromatography-mass spectrometry, Anal. Bioanal. Chem., 400:1953-1958, 2011.

- 7200F002 (S.Maeda), T.Matsui, M.Takeuchi, S.Yamagishi: Pigment epithelium-derived factor (PEDF) blocks advanced glycation end products (AGEs)- RAGE-induced suppression of adiponectin mRNA level in adipocytes by inhibiting NADPH oxidase- mediated oxidative stress generation, Int. J. Cardiol., 152:408-410, 2011.
- 7200F011 K.Kyuji, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno: The anxiety and types of problems encountered by homecare patients during an intermittent self-catheterization, Cancer & chemotherapy., 38(suppl I): 103-105, 2011 (in Japanese).
- 7200F012 Y.Kohno, S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, K.Kyuji: Self purchase of catheter supplies and the hardship associated with urinary homecare patients, Cancer & chemotherapy., 38(suppl I):106-108, 2011 (in Japanese).
- 7200F013 S.Maeda, M.Moriyama, T.Shimasaki, T.Kanda, Y.Kohno, K.Kyuji: A study of the goods supply system from hospital to outpatients with intermittent self-catheterization(ISC), Cancer & chemotherapy., 38(suppl I):109-111, 2011 (in Japanese).

Presentations at Conference

International Conference (Synposium)

7200H001 Y.Motoo: Chemotherapy for pancreatic cancer: molecular analysis and clinical application, Asian Oncology Summit 2011, (Hong Kong SAR, '11.04).

International Conference (Presentations)

- 7200I001 Y.Motoo: Proposal of comparative analysis of herbal medicines among CJK and alignment of the ICTM Herbal Interventions with other international initiatives, WHO ICTM TAG Classification of Interventions, (Hong Kong SAR, China, '11.04).
- 72001002 Y.Motoo: Japanese viewpoint of ISO/TC249, The Second Plenary Meeting of ISO/TC249, (The Hague, the Netherlands, '11.05).
- 7200I003 Y.Motoo: Evaluation of Japanese clinical practice guidelines based on Kampo descriptions, Guidelines International Network Conference 2011, (Seoul, Korea, '11.08).
- 72001004 Y.Motoo: Pancreatic cancer: experimental sensitization to gemcitabine and patient care with traditional Japanese medicine, International Conference on Cancer Prevention, (Seoul, Korea, '11.08).
- 72001005 H.Nakajima, T.Minamoto, Y.Motoo: HITS(FAM107B): Novel heat-shock induced protein as a maker for cancer progression and diagnosis, 16th World Congress on Advances in Oncology and 14th International Symposium on Molecular Medicine, (Rhodes Island, Greece, '11.10).
- 72001006 Y.Motoo, I.Arai, K.Tsutani: Evidence Reports on Kampo Treatment (EKAT), The First International Symposium for Japanese Kampo Medicine, (Munich, Germany, '11.11).
- 72001007 N.Nakaya, Y.Ishigaki, Q.Bian, S.Ma, T.Shimasaki, H.Nakajima, Y.Motoo: Molecular mechanisms of TP531NP1 in the gemcitabine sensitivity, The International Pancreatic Research Forum 2011, (Osaka, '11.11).
- 72001008 Y.Motoo, I.Arai, T.Hakamatsuka: Japanese viewpoint on ICTM Interventions, Informal Consultation on Interventions Modeling, (Geneva, Switzerland, '11.12).

7310 Division of HT Research

Faculty

Title	Name	Field of Specialization
Associate Professor (Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Researcher	ZHANG Jun	Hepatitis C virus

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.D.Nhu), T.Kido, N.N.Hung, L.T.H.Thom, R.Naganuma, L.K.Son, S.Honma, S.Maruzeni, M.Nishijo, H.Nakagawa: Dioxin levels in the breast milk and estradiol and androgen levels in the saliva of Vietnamese primiparae, Toxicol. Environ. Chem., 93:824-838, 2011.
- 7310B002 K.Tawara, M.Nishijo, S.Maruzeni, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, D.D.Nhu, N.N.Hung, L.T.H.Thom: Residual congener pattern of dioxins in human breast milk in southern Vietnam, Chemosphere, 84:979-986, 2011.
- 7310B003 P.T.Tai, M.Nishijo, T.Kido, H.Nakagawa, S.Maruzeni, R.Naganuma, N.T.N.Anh, Y.Morikawa, H.V.Luong, T.H.Anh, N.N.Hung, L.K.Son, K.Tawara, H.Nishijo: Dioxin concentrations in breast milk of Vietnamese nursing mothers: a survey four decades after the herbicide spraying, Environ. Sci. Technol., 45:6625–6632, 2011.
- 7310B004 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Ke Le: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, Organohalogen Compounds., 73:1745-1748, 2011.
- 7310B005 Q.Li, M.Nishijo, H.Nakagawa, Y.Morikawa, M.Sakurai, K.Nakamura, T.Kido, K.Nogawa, M.Dai: Relationship between urinary cadmium and mortality in habitants of a cadmium-polluted area: a 22-year follow-up study in Japan, Chin. Med. J., 124:3504-3509, 2011.
- 7310B006 (T.Kido), R.Naganuma, XL.Sun, S.Maruzeni, HD.Manh, E.Koh, H.Suzuki, M.Nishijo, H.Nakagawa, S.Honma, DD.Nhu, LTH.Thom, NN.Hung, LK.Son: Comparison of prostate specific antigen levels in serum between herbicides/dioxin-hot spot and non-sprayed areas in Vietnam, Organohalogen Compounds., 73:1729-1732, 2011.
- 7310B007 M.Nishijo, K.Tawara, T.Seto, Y.Morikawa, R.Naganuma, T.Kido, A.Nguen Thi Nguyet, H.Nakagawa: Relationships between food intake and dioxin concentrations in breast milk of motehrs in Ishikawa prefecture, Japan, Hokuriku Japanese Journal of Public Health., 38:1–8, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

- 7310I001 M.Nishijo, T.Pham-The, NA.Nguen-Thi, S.Maruzeni, H.Nakagawa, H.Nishijo, HA.Tran, L.Hoang-Van, T.Kido, R.Naganuma, NN.Hung, MH.Nguen, S.Le Ke: Effects of dioxins exposure on infant growth in a hot spot area, Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 7310I002 S.Maruzeni, T.Kido, HD.Manh, R.Naganuma, S.Homma, XL.Sun, TT.Pham, M.Nishijo, H.Nakagawa, DD.Mhu, LTH.Thom, NN.Hung, LK.Son: Impact of dioxin in breast milk on salivary steroid hormone of Vietnamese primiparas, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 73101003 (T.Kido), R.Naganuma, XL.Sun, S.Maruzeni, HD.Manh, E.Koh, H.Suzuki, M.Nishijo, H.Nakagawa, S.Honma, DD.Nhu, LTH.Thom, NN.Hung, LK.Son: Comparison of prostate specific antigen leveles in serum between herbicides/dioxin-hot spot and non-sprayed in Vietnam, 31th International Symposium on Halogenated persistent Organic Pollutants; Dioxin 2011, (Brussels, '11.08).
- 7310I004 (MN.Nguyen), E.Hori, S.Urakawa, TNA.Nguyen, T.Pham, M.Nishijo, H.Nakagawa, S.Maruzeni, HA.Tran, T.Ono, H.Nishijo: Effects of maternal exposure to TCDD on parvalbumin-positive neurons in the limbic system of rat offspring, The 6th International Conference of Neurons and Brain Diseases, (Toyama, '11.12).

7320 Division of Vision Research for Environmental Health

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	SASAKI Hiroshi	cataract, epidemiology, uveitis
Associate Professor (Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiolgy
Senior Assistant Professor (Additional Post)	KAWAKAMI Yutaka	cataract, thyroid ocular

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 our by previous investigators, no RF exposure specific damages were seen. No one has pointed out the above up to now.

Publications

Originals

7320B001	H.Osada, Y.Yoshitake, T.Ikeda, Y.Ishigaki, T.Takata, N.Tomosugi, H.Sasaki, H.Yonekura: Ultraviolet B-induced expression of amphiregulin and growth differentiation factor 15 in human lens epithelial cells, Mol. Vis., 17:159–169, 2011.
7320B002	Y.Yamashiro, H.Sasaki, N.Ibaraki, K.Nagai, Y.Kawakami, H.Yaguchi, N.Fujita, H.Osada, K.Sasaki: Cyclin-dependent kinase inhibitor p16 and p21 expression, and cell cycle change in human lens epithelial cell line SRA 01/04 following contact inhibition in normal culture, Ophthalmic Res., 46:38-43, 2011.
7320B003	H.Sasaki, Y.Sakamoto, C.Schnider, N.Fujita, N.Hatsusaka, DH.Sliney, K.Sasaki: UV-B exposure to the eye depending on solar altitude, Eye Contact Lens, 37:191-195, 2011.
7320B004	H.Yaguchi, T.Ikeda, H.Osada, Y.Yoshitake, H.Sasaki, H.Yonekura: Identification of the <i>COL2A1</i> mutation in patients with type I Stickler syndrome using RNA from freshly isolated peripheral white blood cells, Genet. Test. Mol. Biomarkers, 15:231–237, 2011.
7320B005	M.Fukuda, N.Shibata, H.Osada, Y.Yamashiro, H.Sasaki: Vitreous and aqueous penetration of orally and topically administered moxifloxacin, Ophthalmic Res., 46:113-117, 2011.
7320B006	(D.Oyama), Y.Adachi, N.Hatsusaka, T.Kasahara, M.Yumoto, I.Hashimoto, G.Uehara: Evaluation of an Isosceles-

Triangle-Coil phantom for magnetoencephalography, IEEE Trans. Magn., 47:3853-3856, 2011.

- 7320B007 (N.Fujii), T.Kawaguchi, H.Sasaki, N.Fujii: Simultaneous stereoinversion and isomerization at the Asp-4 residue in β B2-crystallin from the aged human eye lenses, Biochemistry, 50:8628-8635, 2011.
- 7320B009 M.Fukuda, H.Yaguchi, N.Fujita, I.Shibata, H.Osada, N.Shibata, H.Sasaki: Effect of sodium hyaluronate eyedrops on corneal cells, Journal of the eye., 28:549-552, 2011 (in Japanese).
- 7320B010 M.Fukuda, I.Shibata, K.Hagiwara, H.Yaguchi, H.Sasaki: Generic versions of latanoprost ophthalmic solution evaluated for safety to corneal epithelial cells, Journal of the eye., 28:849-854, 2011 (in Japanese).
- 7320B011 N.Mita, N.Hatsusaka, E.Shibata, Y.Sakamoto, H.Osada, I.Shibata, N.Shibata, H.Yaguchi, K.Sasaki, H.Sasaki:
 Assessing predictive accuracy of lens transparency property via 10-year follow-up in Japanese, Journal of the eye.,
 28:1503-1507, 2011 (in Japanese).

Presentations at Conference

International Conference (Presentations)

- 7320I001 H.Sasaki, N.Mita, N.Hatsusaka, E.Shibuya, F.Jonasson, Y.Sakamoto, K.Sasaki: Factors influencing retinal image contrast -Reykjavik Eye Study, The Association for Research in Vision and Ophthalmology, (Florida, '01.05).
- 7320I002 M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K.Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki: Acute ocular damage threshold of 60 GHz millimeter—wave band exposure, 10th International Conference European Bioelectromagnetics Association, (Rome, '11.02).
- 7320I003 N.Mita, N.Hatsusaka, E.Shibuya, Y.Sakamoto, N.Yamamoto, H.Sasaki: Aging change of retinal image contrast in the eyes with transparent lenses of Japanese, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 73201004 (K.Nagai), Y.Sakamoto, N.Hatsusaka, N.Mita, M.Kojima, Y.Kawakami, K.Sasaki, H.Sasaki, F.Jonasson: Evaluation of crystalline lens waterclefts by image analysis Reykjavik Eye Study, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 7320I005 M.Kojima, S.Yamaguchi, T.Okuno, Y.Ishiba, K.Sasaki, H.Sasaki: Investigation of the mechanism of near-infrared induced cataract, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 73201006 N.Hatsusaka, E.Shibuya, N.Mita, Y.Sakamoto, H.Yaguchi, S.Inagaki, H.Osada, N.Shibata, K.Sasaki, H.Sasaki: Relationship between 10-year-change in refraction of crystallines lens and aging, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 7320I007 M.Fukuda, S.Inagaki, K.Hagiwara, H.Yaguchi, H.Osada, N.Shibata, H.Sasaki: Safety evaluation of feneric versions of latanoprost ophthalmic solution for corneal epithelial cells, The Association for Research in Vision and Ophthalmology, (Florida, '11.05).
- 73201008 (A.Koike), Y.Suzuki, M.Kojima, T.Sakai, K.Wakw, S.Watanabe, M.Taki, H.Sasaki, K.Sasaki: An investigation of the hest transport mechanism under the millimeter -wave exposure considering the convection in the anterior chamber of rabbiy's eye, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).
- 73201009 M.Kojima, H.Sasaki, K.Sasaki, T.Sakai, K/Wake, S.Watanabe, Y.Kamimura, A.Hirata, Y.Suzuki, M.Taki: Investigation of acute ocular in jury threshold by 76 Ghz band exposure in rabbits, XXX URSI General Assembly and Scientific Symposum of International union of Radio Science, (Istanbul, '11.08).

7330 Division of Dermatomycology

Faculty

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

Keywords of Research

fungi, dermatophytes, *Candida* spesies, *Sporothrix* spesies, 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 Dermatomycology 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 onycomycosis.
- 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

Books

7330A002	T.Mochizuki, K.Anzaw	ra: Deep mycoses in Ja	ıpan, World	Congress of !	Dermatology 20	011, 393-397, S	pecial Book,
	Seoul Korea, 2011.						
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7330A003 T.Mochizuki, M.Kawasaki, K.Anzawa: Genetic variation of fungus in Asia, World Congress of Dermatology 2011, 375-379, Special Book, Seoul Korea, 2011.

Publications

Originals

7330B001	(R.Kano), T.Yamada, K.Makimura, M.Kawasaki, T.Mochizuki, H.Kamata, A.Hasegawa: Arthroderma benhamiae
	(The Teleomorph of Trichophyton mentagrophytes) Mating Type-Specific Genes, Mycopathologia, 171:333-337,
	2011.

- 7330B002 M.Kawasaki, K.Anzawa, T.Ushigami, J.Kawanishi, T.Mochizuki: Multiple gene analyses are necessary to understand accurate phylogenetic relationships among *Trichophyton* Species, Med. Mycol. J., 52:245–254, 2011.
- 7330B003 K.Anzawa, M.Kawasaki, M.Hironaga, T.Mochizuki: Genetic relationship between *Trichophyton mentagrophytes* var. *interdigitale* and *Arthroderma vanbreuseghemii*, Med. Mycol. J., 52:223-227, 2011.
- 7330B004 K.Anzawa, T.Mochizuki, A.Nishibu, H.Ishizaki, K.Kamei, Y.Takahashi, M.Fujihiro, H.Shinoda: Molecular epidemiology of *Trichophyton tonsurans* strains isolated in Japan between 2006 and 2010 and their susceptibility to oral antimycotics, Jpn. J. Infect. Dis., 64:458-462, 2011.

7330B005 K.Takeda, T.Ushigami, M.Terada, N.Wakamatsu, A.Nishibu, H.Tanabe, M.Yanagimoto, K.Anzawa, M.Kawasaki, T.Mochizuki, H.Ishizaki: Twenty-three cases of tinea capitis at the Kanazawa Medical University Hospital in the past 10 years, The Japanese Journal of Dermatology, 121:1057-1061, 2011 (in Japanese).

Reviews

7330C001 M.Kawasaki: Verificatin of taxonomy of dermatophytes based on mating results and phylogenetic analyses, Med. Mycol. J., 52:291-295, 2011.

Others

7330F001 M.Terada, J.Fujita, S.Watanabe, M.Kawasaki, H.Tanabe, K.Anzawa, T.Mochizuki: Olecranon bursa with *Fusarium solani* infection in an otherwise healthy patient, Mycoses, 54:853-855, 2011.

Presentations at Conference

International Conference (Key Note Lecture)

7330G001 T.Mochizuki: Recent Molecular Approaches for the Epidemiology of Dermatomycoses, 18th Annual meeting of Korean Society for Medical Mycology, (Seoul, '11.09).

International Conference (Synposium)

7330H001 T.Mochizuki: Recent advances and problems in diagnosis of fungal diseases in dermatology, 13th International Congress of Mycology, (Sapporo, '11.09).

International Conference (Presentations)

73301001 M.Hasei, K.Anzawa, M.Kawasaki, H.Tanabe, T.Mochizuki: A case of phaeohyphomycosis caused by exophiala jeanselmei producing multiple skin lesions, The 22nd World Congress of Dermatology 2011 (WCD 2011), (Korea, '11.05).



9050 Center for FDD-MB

Faculty

Title	Name	Field of Specialization
Director	TAKABAYASHI Haru	o fetal medicine, DNA medicine
Researcher	YUDITIYA Purwosum	ı 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 $% \left(1\right) =\left(1\right) \left(1\right)$
- 2. development of fetal DNA diagnosis from maternal blood (FDD-MB)
- 3. development of single cell technology

9030 North Noto Institute of Community Medicine

Faculty

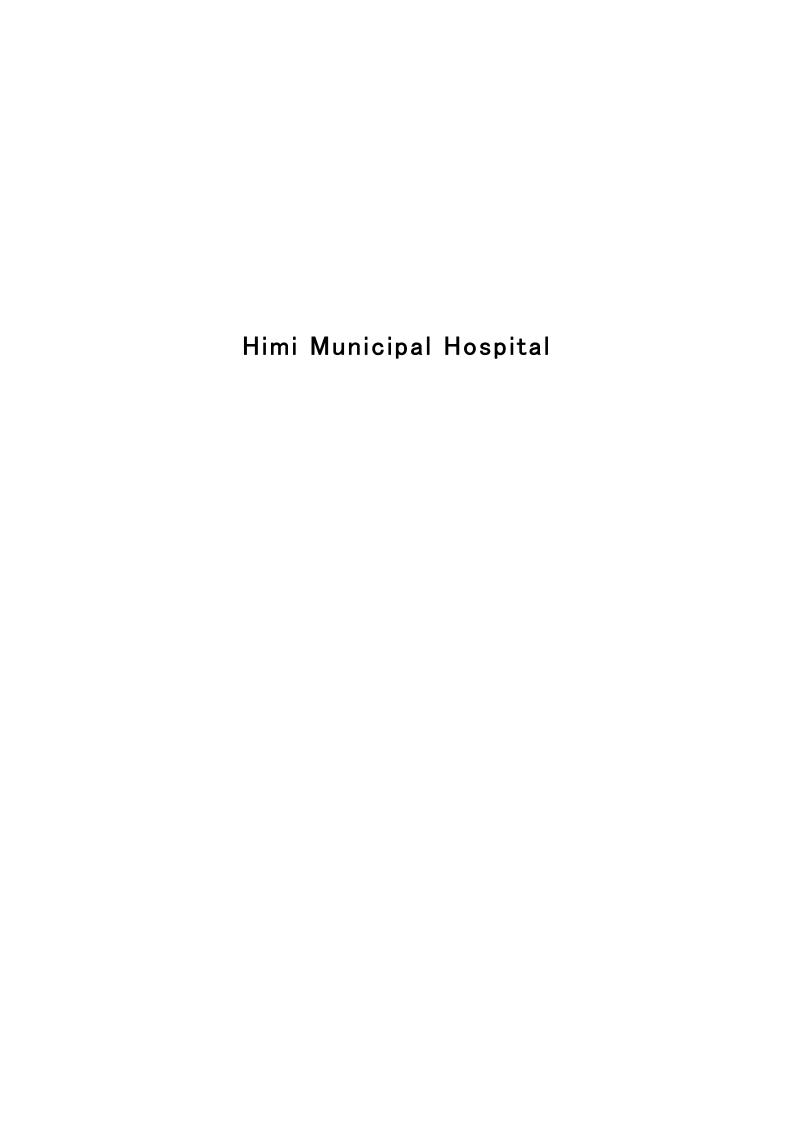
Title	Name	Field of Specialization
Professor	NAKAHASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology
Senior Assistant Professor	NOMURA Koji	Geriatrics, Circulation
Assistant Professor (Additional Post)	KITAMURA Kenji	Hip surgery
Research Doctor (Additional Post)	AKAGAWA Makoto	orthopaedic surgery

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.



9100 Himi Municipal Hospital.

Faculty

Title	Name	Field of Specialization
Director	TAKASHIMA Shigeki	Surgery of Digestive Diseases, Coloproctological Surgery
Professor	IZUMI Youichi	Hypertension, Endocrinology
Professor	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Professor	SAKAMOTO Shigeru	Cardiovascular Surgery
Professor	MATSUKI Nobuo	Health Evaluation, Digestive Surgery, Proctological Surgery
Associate Professor	MIURA Motohiro	Circulatory organs internal medicine
Associate Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Associate Professor	YOSHITANI Shinichire	Surgery of colorectal cancer
Associate Professor	KUZAWA Yutaka	Cardio Vascular Surgery
Associate Professor	IKEBUCHI Kimihiro	Orthopedic Surgert
Associate Professor	URATA Kazuhiko	Obstetrics and gynecology
Associate Professor	TAKADA Hisashi	Neuro Surgery
Associate Professor	MATSUI Toshiaki	Oral & Maxilofacial Surgery
Senior Assistant Professor	YAMASHITA Naohiro	Circulatory organs internal medicine
Senior Assistant Professor	SAITO Atsushi	Nephrology
Senior Assistant Professor	IGUCHI Masaharu	Clinical respiratory medicine
Senior Assistant Professor	FUJIKI Takuma	Prediatric nephrology
Senior Assistant Professor	TANAKA Yumiko	Surgery of colorectal cancer
Senior Assistant Professor	HASEGAWA Taisuke	Surgery of hepatobiliary diseases
Senior Assistant Professor	KIYOSAWA Jun	Cardio Vascular Surgery
Senior Assistant Professor	AOKI Nobuyuki	Orthopedic Surgery
Senior Assistant Professor	WATANABE Seiji	Dermatology, Dermatomycosis
Senior Assistant Professor	TSUCHIDA Maki	Ophthalmology
Senior Assistant Professor	OHURA Kazuko	Otorhine Laryugology
Assistant Professor	MIZUNO Takuro	regional medicine
Assistant Professor	ASTUMI Hisanari	Diabetes
Assistant Professor	ISHIGAMI Keiichiro	Geriatrics, Dementia
Assistant Professor	KOIKE Rie	Regional Medicine
Assistant Professor	MUKAI Hirokado	Oncology Surgery
Assistant Professor	HAYASHI Kei	Thyroid diseases, Breast diseases
Assistant Professor	ARISAWA Akiko	Orthopaedic Science
Assistant Professor	KUSABA Eizo	neurosurgery.

Publications

Originals

- 9100B001 L.Zeng, R.Chen, K.Ishigami, M.Atsumi, Y.Koizumi, K.Sato, O.Iritani, M.Okuro, S.Morimoto: Association between human metapneumovirus seroprevalence and hypertension in elderly subjects in a long-term care facility, Hypertens. Res., 34:474-478, 2011.
- 9100B002 M.Matoba, I.Toyota, Y.Kuginuki, H.Tonami, T.Miyazawa, Y.Shimode, H.Tsuji, T.Miwa: Efficacy of diffusion—weighted MR imaging and PET/CT for predicting and detecting early response to chemoradiation therapy squamous cell carcinoma in the head and neck, J. J. M. R. M., 31:115–123, 2011 (in Japanese).

Case Reports

- 9100D001 A.Tempaku, T.Mizuno, M.Hasegawa, A.Saito, N.Yamashita, H.Atsumi, T.Ito, K.Ishigami, M.Miura, Y.Izumi, N.Kurose, H.Minato, T.Nojima, T.Kanda, N.Takekoshi: Interleukin-6 expressing colon cancer with multiple hepatic metastases, J. Kanazawa. Med. Univ., 36:106-110, 2011.
- 9100D002 T.Mizuno, K.Ishigami, D. Sakamoto, R.Isahii, T.Kanda: Two types of Brugada-like ST-elevation in patients with febrile infection, J. Kanazawa. Med. Univ., 36:124-126, 2011.

Presentations at Conference

International Conference (Presentations)

91001001 Y.Izumi, N.Takekoshi, T.Kanda, T.Mizuno, Y.Ozawa, Y.Kasamaki, M.Ohta, T.Nakayama, H.Kawamura, M.Mahemuti, D.Himit: Differences in organ damage for dipper and non-dipper patterns in 2 ethnic groups, European Society of Hypertension (ESH) 2011: 21st European Meeting on Hypertension, (Milan, '11.06).

Kanazawa Medical University Research Activities and Publications 2011

Published December, 2012

Issuer: Shogo Katsuda Editer: Hideaki Nakagawa

Publishing office: Kanazawa Medical University Publication office 1-1 Daigaku,Uchinada-machi,Kahoku-gun,Ishikawa-ken,Japan,920-0293 Tel +81 76 286 2211(Representative)

 $\textbf{Printing office}: TANAKA \& SHOBUNDO\ GRAPHIC\ ART\ Co.LTD.$