

Kanazawa Medical University Research Activities and Publications

VOL. 19 2007



Kanazawa Medical University

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S c h o o l o f M e d i c i n e

0010 Department of Human Science (Humanities)

Faculty

Title	Name	Field of Specialization
Professor	HIRAGUCHI Tetsuo	environmental-ethnoarchaeology, peace studies.
Associate Professor	TAKEDA Koichi	Philosophy , History of logic

Keywords of Research

zoo-archaeology, cetacean, dolphin, whale, faunal remains, environmental archaeology, whaling, ancient diet, Palaeolithic period, Jomon period, ethno-archaeology, anthropological education, logic, metaphysics, form, content, predicate, category, deduction, induction, matter, being, substance, definition

Outline of Research

Hiraguchi:Environmental and ethnological archaeology, especially prehistoric whaling, and anthropological education for medical students.

Takeda:It has been asserted that logic and metaphysics are different to each other in Aristotle because his logic is a organon of science. However, his logic is the system where reasonings are dependent on the contents of propositions, while modern formal logic involves abstraction of any content. In Aristotle, Metaphysics studies 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 K.Takeda: The logicians school of ancient chinese philosophy and ancient greek philosophers, Mem. Lib. Kanazawa Med. Univ., 35:1-11, 2007 (in Japanese) .

Others

0010F001 T.Hiraguchi: Participating in the traditional whaling summits: from the viewpoint of nine thousand years in whale food culture, Reports and Proceedings: The 5th Summit of Japanese Traditional Whaling Communities (Institute of Cetacean Research et al.), 63-70, 2007.

0010F002 T.Hiraguchi: The point view of cetacean archaeology, The world of cultural heritage., 24:4-9, 2007 (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

0040 Department of Life Science (Natural Science:Physics)

Faculty

Title	Name	Field of Specialization
Associate Professor	SUGITANI Michio	Optical imaging of signal propagation in the piriform cortex
Senior Assistant 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: In order that the student who majors in life science may deepen an understanding of a lecture, and in order to enable independent learning, we are developing the student support which used a demonstration experiment and intranet.

0050 Department of Life Science (Natural Science:Chemistry)

Faculty

Title	Name	Field of Specialization
Research Associate	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.

Publications

Short Communications

- 0050E001 T.Ota, M.Maeda, M.Murakami, T.Takegami, S.Suto, M.Tatsuka: Activation of Rac1 by Rho-guanine nucleotide dissociation inhibitor- β with defective isoprenyl-binding pocket, Cell Biol. Int., 31:92-96, 2007.

0060 Department of Life Science (Natural Science: Biology)

Faculty

Title	Name	Field of Specialization
Professor	HORI Isao	Development of ascidians
Associate Professor	ASAI Etsuo	Regeneration of planarians

Keywords of Research

planaria, acoel, regeneration, differentiation, ultrastructure, pharynx, sponge, metamorphosis, immunoelectron microscopy, neurosynaps, neurosecretory cell

Outline of Research

It is well known that planarians have a strong power of regeneration. This power depends mainly on a large number of undifferentiated stem cells or neoblasts which distribute through the parenchymal region of intact planarians. I have studied differentiation, proliferation and morphogenesis of these neoblasts by using an electron microscope. Neoblasts are small in size and oval in shape. Their cytoplasm is occupied with free ribosomes and mitochondria. Synthetic organelles are not developed. Most characteristic feature is several chromatoid bodies surrounding the nuclear envelope. Their size and number reduce during cell differentiation. Formation of the chromatoid bodies is inhibited by actinomycin D. These results suggest that chromatoid bodies relate to differentiation of neoblasts. I also studied the process of morphogenesis of muscle layers, gastrodermis and epidermis after decapitation. The data suggest that a kind of neuropeptides and retinoic acid stimulate cell differentiation within the regeneration blastema.

Publications

Originals

- 0060B001 (S.Higuchi), T.Hayashi, I.Hori, N.Shibata, H.Sakamoto, K.Agata: Characterization and categorization of fluorescence activated cell sorted planarian stem cells by ultrastructural analysis, *Dev. Growth Differ.*, 49:571-581, 2007.

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	CURRY Carla	English education from a viewpoint of music

Keywords of Research

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

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 technique of novels and his idea on the art.

C.Curry: My research has focused on using music in the classroom to teach English pronunciation, rhythm, and tone. Students can quickly grasp the main elements of English sound structures when illustrated through chants and songs. I am also interested in how to teach phonics to students who do not use a language represented by a phonetic alphabet. Therefore, I have been studying the various techniques for teaching English phonics to young learners in Japan.

Publications

Originals

- 0070B001 K.Kakizaki: Father's legacy in 'A silver dish', Shlemiel., 6:16-28, 2007.
- 0070B002 K.Kakizaki: The journey through letters in Herzog, Journal of English Language and Literature, 55:109-126, 2007.
- 0070B003 K.Kakizaki: Spiritual awakening in "Leaving the yellow house", Kanazawa English Studies, 26:1-13, 2007.
- 0070B004 K.Kakizaki: Mystery of love in "A father-to-be", Mem. Lib. Kanazawa Med. Univ., 35:13-22, 2007.

0080 Department of Human Science (Foreign Languages:German)

Faculty

Title	Name	Field of Specialization
Associate Professor	HARA Akira	Austria literature led by Hofmannsthal
Senior Assistant 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 German-language area and furthermore in all Europe.

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

0090 Department of Life Science (Physical Education)

Faculty

Title	Name	Field of Specialization
Professor	TAMURA Nobuki	OtherGraduate School, Division of Physical Recreation
Associate Professor	YAMASHINA Tadahiko	Muscle Strength, Muscle Strength Training, Thickness of Muscles in the Lower leg
Senior Assistant Professor	UEDA Fumio	Physical strength and a study about the athletic capability, A basketball competition

Keywords of Research

hygiene of exercise, physical fitness, near-infrared spectroscopy, muscle strength, small group learning, health related training, prescribed exercise, wheel chair basketball, sports medicine, motor ability, working skeletal muscle oxygenation, lower leg, problem learning, effects in iron deficiency, prescription of exercise program

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.

Yamashina : To find an effective way to prevent falling ,I have studied the ability to sustain a standing posture and falling mechanism.

To clarify the association between antigravity muscles and the ability to sustain static and active standing posture.

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.

Publications

Originals

- 0090B001 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, Hokuriku Japanese Journal of Public Health., 33:76-79, 2007 (in Japanese) .
- 0090B002 T.Yamashina: The association between the thickness of muscles in the lower leg and walking, Mem. Lib. Kanazawa Med. Univ., 35:23-30, 2007 (in Japanese) .
- 0090B003 F.Ueda, N.Tamura, T.Yamashina: A report on the physical fitness and motor ability of students at Kanazawa Medical University(X X X III), Mem. Lib. Kanazawa Med. Univ., 35:31-38, 2007 (in Japanese) .

0100 Department of Molecular and Cell Structural Science (Anatomy I)

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0100B001 T.Hatta, F.Satow, J.Hatta, R.Hashimoto, J.Udagawa, A.Matsumoto, H.Otani: Development of the pons in human fetuses, *Congenit. Anom. (Kyoto)*, 47:63-67, 2007.
- 0100B002 (H.Habib), T.Hatta, Omar Ibna Faizur Rahman, Y.Yoshimura, H.Otani: Fetal jaw movement affects development of articular disk in the temporomandibular joint, *Congenit. Anom. (Kyoto)*, 47:53-57, 2007.

Reviews

- 0100C001 (J.Udagawa), T.Hatta, R.Hasimoto, H.Otani: Roles of leptin in prenatal and perinatal brain development, *Congenit. Anom. (Kyoto)*, 47:77-83, 2007.
- 0100C002 T.Hatta, M.Yamada, E.Simamura, H.Shimada, M.Nimura, A.Matsumoto, J.Udagawa, R.Hashimoto, N.Higashi, H.Otani: Mouse exo utero development system, *J. Kanazawa. Med. Univ.*, 32:16-22, 2007 (in Japanese).

0110 Department of Molecular and Cell Structural Science (Anatomy II)

Faculty

Title	Name	Field of Specialization
Professor	SHINOHARA Harumichi	gross anatomy,embryology,lymphatic vessels,microscopy.
Associate Professor	SHIMOKAWA Takashi	regeneration of skeletal muscle,development of peripheral nerve.
Senior Assistant Professor	YASUTAKA Satoru	gross anatomy,central nervous system,immunocytochemistry.
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

0120 Department of Physiology I

Faculty

Title	Name	Field of Specialization
Professor	KATO Nobuo	Brain Science
Associate Professor	SUGAI Tokio	Neurophysiology
Assistant Professor	YAMAMOTO Ryo	Neuroscience
Research Associate	ADACHI Hiroshi	Neuroscience

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0120B001 (M.Murata), N.Kato: Autocorrelogram sorting: A novel method for evaluating negative-feedback regulation of spike firing., *Brain Res.*, 1133:27-33, 2007.
- 0120B002 R.Yamamoto, Y.Ueta, N.Kato: Dopamine induces a slow afterdepolarization in lateral amygdale neurons., *J. Neurophysiol.*, 98:984-992, 2007.
- 0120B003 T.Sugai, R.Yamamoto, H.Yoshimura, N.Kato: Signal propagation between the piriform cortex and the endopiriform nucleus in the rat horizontal slice preparation., *The Japanese journal of taste and smell research.*, 14:521-522, 2007 (in Japanese) .

Reviews

- 0120C001 N.Kato: Neurobiological basis of electroconvulsive therapy(ECT): consistency with the GABAergic deterioration hypothesis for pathogenesis of major depression, *J. Kanazawa. Med. Univ.*, 32:73-81, 2007 (in Japanese) .

0120C002 N.Kato: Neurobiological basis of electroconvulsive therapy(ECT): effects on synaptic plasticity, J. Kanazawa. Med. Univ., 32:82-88, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

0120I001 R.Yamamoto, Y.Ueta, N.Kato: A dopamine-induced slow after-depolarization in lateral amygdala neurons, Neuroscience 2007, the 37th annual meeting of the Society for Neuroscience, (SanDiego, '07.11).

0120I002 K.Yamamoto, N.Kato: Intracellular beta amyloid enhances spike-induced calcium increase in neocortex pyramidal neurons, Neuroscience 2007, the 37th annual meeting of the Society for Neuroscience, (SanDiego, '07.12).

0130 Department of Physiology II

Faculty

Title	Name	Field of Specialization
Professor	SHIBAMOTO Toshishige	Circulatory Physiology
Associate Professor	KURATA Yasutaka	Cardiac Electrophysiology
Senior Assistant Professor	MIYAMAE Shunichi	Cardiac Electrophysiology
Assistant Professor	TAKANO Hiromichi	Circulatory Physiology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0130B001 S.Cui, T.Shibamoto, Z.Zhao, H.Takano, Y.Kurata: l-NAME augments PAF-induced venoconstriction in isolated perfused livers of rat and guinea pig, but not mouse, Prostaglandins Leukot. Essent. Fatty Acids., 76:277-283, 2007.
- 0130B002 S.Cui, T.Shibamoto, Z.Zhao, W.Zhang, H.Takano, Y.Kurata: Effects of L-NAME on thromboxane A₂-induced venoconstriction in isolated perfused livers from rat, guinea pig and mouse, Vascul. Pharmacol., 47:215-221, 2007.
- 0130B003 S.Cui, T.Shibamoto, H.Takano, W.Zhang, Y.Kurata: Leukotrienes and cyclooxygenase products mediate anaphylactic venoconstriction in ovalbumin sensitized rat livers, Eur. J. Pharmacol., 576:99-106, 2007.
- 0130B004 Y.Kurata, H.Matsuda, I.Hisatome, T.Shibamoto: Effects of pacemaker currents on creation and modulation of human ventricular pacemaker: theoretical study with application to biological pacemaker engineering, Am. J. Physiol. Heart Circ. Physiol., 292:H701-718, 2007.
- 0130B005 W.Liu, H.Takano, T.Shibamoto, S.Cui, Z-S.Zhao, W.Zhang, Y.Kurata: Involvement of splanchnic vascular bed in anaphylactic hypotension in anesthetized BALB/c mice, Am. J. Physiol. Regul. Integr. Comp. Physiol., 293:R1947-1953, 2007.

- 0130B006 (K.Ogura), J.Miake, N.Sasaki, C.Iwai, U.Bahrudin, P.Li, M.Kato, K.Iitsuka, Y.Hirota, T.Koshida, Y.Yamamoto, Y.Inoue, A.Yano, M.Adachi, O.Igawa, Y.Kurata, T.Morisaki, G.Shiota, Y.Shirayoshi, H.Ninomiya, I.Hisatome: Inhibition of β -adrenergic signaling by intracellular AMP is independent of cell-surface adenosine receptors in rat cardiac cells, *J. Mol. Cell. Cardiol.*, 43:648–652, 2007.
- 0130B007 T.Shibamoto, T.Shimo, S.Cui, W.Zhang, H.Takano, Y.Kurata, H.Tsuchida: The roles of mast cells and Kupffer cells in rat systemic anaphylaxis, *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, 293:R2202–R2209, 2007.
- 0130B008 T.Shibamoto, Z.Ruan, S.Cui, W.Liu, Z-S.Zhao, H.Takano, Y.Kurata, T.Koizumi, K.Kubo: The sinusoidal pressure during ischemia-reperfusion injury in perfused mouse liver pretreated with or without L-NAME, *J. Surg. Res.*, 139:30–35, 2007.
- 0130B009 H.Takano, W.Lui, Z.Zhao, S.Cui, W.Zhang, T.Shibamoto: NG-nitro-L-arginine methyl ester, but not methylene blue, attenuates anaphylactic hypotension in anesthetized mice, *J. Pharmacol. Sci.*, 104::212–217, 2007.
- 0130B010 (K.Watanabe), T.Koizumi, Z.Ruan, K.Kubo, A.Sakai, T.Shibamoto: Reduced pulmonary vascular reactivity after cold exposure to acute hypoxia: A role of nitric oxide (NO), *High Alt. Med. Biol.*, 8:43–49, 2007.
- 0130B011 Z.Zhao, T.Shibamoto, S.Cui, H.Takano, W.Zhang, Y.Kurata: Head-down tilt posture attenuates anaphylactic hypotension in mice and rats, *J. Physiol. Sci.*, 57:269–274, 2007.
- 0130B012 N.Karasawa, T.Shibamoto, S.Cui, H.Takano, Y.Kurata, H.Tsuchida: Hepatic pre-sinusoidal vessels contract in anaphylactic hypotension in rabbits, *Acta Physiol. Scand.*, 189: 15–22, 2007.

Presentations at Conference

International Conference (Presentations)

- 0130I001 T.Shibamoto, W.Liu, S.Cui, H.Takano, Z-S.Zhan, Y.Kurata: Role of liver and splanchnic circulation in anaphylactic hypotension in BALB/C mice, *The 7th World Congress on Trauma, Shock, Inflammation and Sepsis*, (Munich (Germany), '07.03), *Inflammation Res*, 56(Suppl 2):S302–S303, 2007.

0140 Department of Biochemistry I

Faculty

Title	Name	Field of Specialization
Professor	DATE Takayasu	Mechanisms of chromosome segregation and DNA repair.
Associate Professor	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
Assistant Professor	MATSUI Tadashi	Functional analysis of protein kinases
Assistant Professor	HASHIMOTO Mitsumasa	The function analysis of protein kinase PKU-beta

Keywords of Research

gene analysis, double-stranded RNA-activated protein kinase (PKR), p53, 53BP1, 53BP2, RNA and DNA binding, PKU- β (TLK1), DNA repair, cell cycle, signal transduction

Outline of Research

PKU-beta/TLK-1 is a nuclear serine/threonine protein kinase, initially found in our laboratory. Recent study shows that it controls multiple aspects of cell cycle, especially in progressions of S phase and mitosis. PKU-beta/TLK deficient cells or its over-expressing cells contain aberrant chromosomes resulting in lethal. Main study in progress is to know how the kinase interacts with other cell cycle-dependent complex and regulates them.

Publications

Originals

0140B001 (M.Matsumoto), K.Yaginuma, A.Igarashi, M.Imura, M.Hasegawa, K.Iwabuchi, T.Date, T.Mori, K.Ishizaki, K.Yamashita, M.Inobe, T.Matsunaga: Perturbed gap-filling synthesis in nucleotide excision repair causes histone H2AX phosphorylation in human quiescent cells, *J. Cell. Sci.*, 6:1104-1112, 2007.

Others

0140F001 K.Iwabuchi: 53BP1 in repair of X-ray-induced DNA damage., Proceedings of the NIRS International Symposium on Visualization of the Radiation Response at the Molecular and Cellular Levels., 67-77, 2007.

Presentations at Conference

International Conference (Symposium)

0140H001 K Iwabuchi: 53BP1 in repair of X-ray-induced DNA damage., National Institute of Radiological Sciences, International Symposium, (Chiba, '07.03).

0140H002 M.Hashimoto, T.Matsui, K.Iwabuchi, T.Date: PKU- β /TLK1 regulates myosin II activities, and is required for centrosome separation and chromosome segregation., The 8th International Symposium on Chromosomal Aberrations, (Awajishima, '07.10), Proceedings, 49.

International Conference (Presentations)

- 0140I001 (F.Morohoshi), M.Tomita, K.Yamagata, M.Hashimoto, K.Ootsuka, I.Hayata, K.Iwabuchi, H.Tauchi, K.Sakai: BRCT domain protein PTIP disruptants of chicken DT40 cells are viable, but defective in proliferation and highly sensitive to ionizing radiation., The 13th International Congress of Radiation Research, (San Francisco, '07.07).
- 0140I002 (H.Utumi), K.Iwabuchi, K.Takahashi, A.Tachibana: Low dose-rate effects of non-homologous end-joining repair pathway of double strand breaks., The 13th International Congress of Radiation Research, (San Francisco, '07.07).

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
Associate Professor(Additional Post)	NAGAO Yosinobu	Spermatogenesis and epigenetics
Assistant Professor	TSURUOKA Naoki	Alternative processing of mRNA, Bioactivity of collagen tripeptide

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 J.Sato, N.Segami, M.Nishimura, Y.Yoshitake, K.Kaneyama, Y.Kitagawa: Expression of interleukin 8 in synovial tissues in patients with internal derangement of the temporomandibular joint and its relationship with clinical variables, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 103:467-474, 2007.
- 0150B002 (A.Takeuchi), Y.Yamamoto, K.Tsuneyama, C.Cheng, H.Yonekura, T.Watanabe, K.Shimizu, K.Tomita, H.Yamamoto, H.Tsuchiya: Endogenous secretory receptor for advanced glycation endproducts as a novel prognostic marker in chondrosarcoma, *Cancer.*, 109:2532-2540, 2007.
- 0150B003 (Y.Yamamoto), H.Yonekura, T.Watanabe, S.Sakurai, H.Li, A.Harashima, KM.Myint, M.Osawa, A.Takeuchi, M.Takeuchi, H.Yamamoto: Short-chain aldehyde-derived ligands for RAGE and their actions on endothelial cells, *Diabetes Res. Clin. Pract.*, 77 (Suppl 1):S30-40, 2007.
- 0150B004 J.Sato, N.Segami, Y.Yoshitake, K.Kaneyama, H.Yoshimura, K.Fujimura, Y.Kitagawa: Specific expression of substance P in synovial tissues of patients with symptomatic, non-reducing internal derangement of the temporomandibular joint: comparison with clinical findings, *Br J Oral Maxillofac Surg*, 45:372-377, 2007.
- 0150B005 (M.Osawa), Y.Yamamoto, S.Munesue, N.Murakami, S.Sakurai, T.Watanabe, H.Yonekura, Y.Uchigata, Y.Iwamoto, H.Yamamoto: De-N-glycosylation or G82S mutation of RAGE sensitizes its interaction with advanced glycation endproducts, *Biochim. Biophys. Acta*, 1770:1468-1474, 2007.

0150B006 N.Tsuruoka, R.Yamato, Y.Sakai, Y.Yoshitake, H.Yonekura: Promotion by collagen tripeptide of Type I collagen gene expression in human osteoblastic cells and fracture healing of rat femur, *Biosci. Biotechnol. Biochem.*, 71:2680-2687, 2007.

0150B007 (I.Nozaki), T.Watanabe, M.Kawaguchi, H.Akatsu, K.Tsuneyama, Y.Yamamoto, K.Ohe, H.Yonekura, M.Yamada, H.Yamamoto: Reduced expression of endogenous secretory receptor for advanced glycation endproducts in hippocampal neurons of Alzheimer's disease brains, *Arch. Histol. Cytol.*, 70:279-290, 2007.

Reviews

0150C001 H.Yonekura, N.Tsuruoka, Y.Yoshitake: Autocrine regulation of angiogenesis, *J. Kanazawa. Med. Univ.*, 32:8-15, 2007 (in Japanese) .

Others

0150F001 (Y.Yamamoto), J.Miura, S.Sakurai, T.Watanabe, H.Yonekura, H.Tamei, H.Matsuki, K.Obata, Y.Uchigata, Y.Iwamoto, H.Koyama, H.Yamamoto: Assaying soluble forms of receptor for advanced glycation end products. (Response), *Arterioscler. Thromb. Vasc. Biol.*, 27:e33-34, 2007.

0160 Department of Pharmacology

Faculty

Title	Name	Field of Specialization
Professor	NISHIO Matomo	Electrophysiological and pharmacological study of excitable and non-excitabile cells, Pharmacology 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
Researcher	NISHIZAWA Naoki	Pharmacology of cardiovascular drugs, Kinetics of NO-related compounds in cardiovascular system, Cancer chemotherapy
Researcher	NOMURA Mihoko	Pharmacology of cardiovascular drugs, Kinetics of NO-related compounds in cardiovascular system, Cancer chemotherapy

Keywords of Research

electropharmacology, electrophysiology, ionic channel, patch clamp, photolysis, 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 Electrophysiological and pharmacological study on the regulatory mechanisms of excitable and non-excitabile 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 J.Yoshida, T.Ishibashi, M.Nishio: G1 cell cycle arrest by amlodipine, a dihydropyridine Ca²⁺ channel blocker, in human epidermoid carcinoma A431 cells, *Biochem. Pharmacol.*, 73:943-953, 2007.

Presentations at Conference

International Conference (Presentations)

- 0160I001 T. Ishibashi, N. Nishizawa, M. Nomura, J. Yoshida, M. Nishio: Arterio-venous difference of nitrite kinetics in anesthetized rabbits, Second International Role of Nitrite in Physiology, Pathophysiology, and Therapeutics Meeting, (Bethesda Maryland, USA, '07.09).

0170 Department of Oncologic Pathology

Faculty

Title	Name	Field of Specialization
Professor	TANAKA Takuji	Inhibition of carcinogenesis, Oncologic pathology of digestive organ, Experimental pathology
Professor	SUGIE Shigeyuki	Experimental pathology, Oncologic pathology of digestive organ
Professor(Additional Post)	KOHNO Hiroyuki	Experimental pathology, Tumor immunology
Assistant Professor	YASUI Yumiko	Lipids in carcinogenesis

Keywords of Research

cancer chemoprevention, antioxidant, flavonoid, carotenoid, COX-2 inhibitor, organoselenium, intercellular 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.

Books

- 0170A001 T.Tanaka, S.Miyamoto, Y.Yasui, R.Suzuki: Cancer chemoprevention in preclinical animal studies., Research Advances in Cancer 7 (Mohan, R.M.), 17-47, Global Research Network, Kerala (India), 2007.
- 0170A002 T.Tanaka: Inflammation and cancer, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 27-44, Research Signpost, Kerala (India), 2007.
- 0170A003 (S.Miyamoto), Y.Yausi, A.Murakami, T.Tanaka: Molecular mechanism of colorectal carcinogenesis, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 45-56, Research Signpost, Kerala (India), 2007.
- 0170A004 T.Tanaka, S.Miyamoto, Y.Yausi, H.Kohno, S.Sugie: Obesity: a risk for hepatocellular carcinoma, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 57-74, Research Signpost, Kerala (India), 2007.
- 0170A005 (E.O.Farombi), T.Tanaka: Cancer chemoprevention with Zingiberaceae and citrus-derived phytochemicals: Biochemical and molecular mechanisms, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 167-184, Research Signpost, Kerala (India), 2007.
- 0170A006 (M.Hosokawa), Y.Yausi, S.Suzuki, H.Kohno, T.Tanaka: Chemopreventive effects of conjugated linolenic acids on colon cancer, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 239-254, Research Signpost, Kerala (India), 2007.

Publications

Originals

- 0170B001 (H.Makita), M.Mutoh, T.Maruyama, K.Yonemoto, A.Kobayashi, H.Fujitsuka, M.Toida, T.Shibata, S.Miyamoto, Y.Yasui, R.Suzuki, K.Wakabayashi, T.Tanaka: A prostaglandin E₂ receptor subtype EP₁-selective antagonist, ONO-8711, suppresses 4-nitroquinoline 1-oxide-induced rat tongue carcinogenesis, *Carcinogenesis*, 28:677-684, 2007.
- 0170B002 (M.Tang), K.Ogawa, M.Asamoto, N.Hokaiwado, A.Seeni, S.Suzuki, S.Takahashi, T.Tanaka, K.Ichikawa, T.Shirai: Protective effects of citrus nobiletin and auraptene in transgenic rats developing adenocarcinoma of the prostate (TRAP) and human prostate carcinoma cells, *Cancer Sci.*, 98:471-477, 2007.
- 0170B003 R.Suzuki, S.Miyamoto, Y.Yasui, S.Sugie, T.Tanaka: Global gene expression analysis of the mouse colonic mucosa treated with azoxymethane and dextran sodium sulfate, *BMC Cancer*, 7:84, 2007.
- 0170B004 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, F.Beppu, M.Hosokawa, K.Miyashita, T.Tanaka: 9trans,11trans conjugated linoleic acid inhibits the development of azoxymethane-induced colonic aberrant crypt foci in rats, *Nutr. Cancer.*, 59:82-91, 2007.
- 0170B005 Y.Yasui, R.Suzuki, S.Miyamoto, T.Tsukamoto, S.Sugie, H.Kohno, T.Tanaka: A lipophilic statin, pitavastatin, suppresses inflammation-associated mouse colon carcinogenesis, *Int. J. Cancer*, 121:2331-2339, 2007.
- 0170B006 (M.Nakanishi), H.Tazawa, N.Tsuchiya, T.Sugimura, T.Tanaka, H.Nakagama: Mouse strain differences in inflammatory responses of colonic mucosa induced by dextran sulfate sodium cause differential susceptibility to PhIP-induced large bowel carcinogenesis, *Cancer Sci.*, 98:1157-1163, 2007.
- 0170B007 (N.Ando), M.Shimizu, M.Okuno, R.Matsushima-Nishiwaki, H.Tsurumi, T.Tanaka, H.Moriwaki: Expression of retinoid X receptor α is decreased in 3'-methyl-4-dimethylaminoazobenzene-induced hepatocellular carcinoma in rats, *Oncol. Rep.*, 18:879-884, 2007.
- 0170B008 (K.Sakano), M.Takahashi, M.Mutoh, N.Niho, M.Komiya, H.Sato, T.Tanaka, T.Sugimura, K.Wakabayashi: Enhanced thyroid carcinogenicity of *N*-nitrobis(2-oxo-propyl)amine in Otsuka Long-Evans Tokushima Fatty rats, a model of type 2 diabetes mellitus, *Carcinogenesis*, 28:2193-2198, 2007.
- 0170B009 K.Hayashi, R.Suzuki, S.Miyamoto, S.Yoshitani, H.Kohno, S.Sugie, S.Takashima, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplastic lesions in C57BL/KsJ-*db/db* mice, *Nutr. Cancer.*, 58:75-84, 2007.
- 0170B010 (K.Takeda), H.Utsunomiya, S.Kakiuchi, Y.Okuno, K.Oda, K.Inada, Y.Tsutsumi, T.Tanaka, K.Kakudo: Citrus auraptene reduces *Helicobacter pylori* colonization of glandular stomach lesions in Mongolian gerbils, *J. Oleo Sci.*, 56:253-260, 2007.
- 0170B011 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, K.Wakabayashi, T.Tanaka: Ursodeoxycholic acid versus sulfasalazine in colitis-related colon carcinogenesis in mice, *Clin. Cancer Res.*, 13:2519-2525, 2007.
- 0170B012 H.Kohno, M.Takahashi, Y.Yasui, R. Suzuki, S.Miyamoto, Y.Kamanaka, M.Naka, T.Maruyama, K.Wakabayashi, T.Tanaka: A specific inducible nitric oxide synthase inhibitor, ONO-1714 attenuates inflammation-related large bowel carcinogenesis in male *Apc*^{Min/+} mice, *Int. J. Cancer*, 121:506-513, 2007.
- 0170B013 H.Kohno, Y.Totsuka, Y.Yasui, R.Suzuki, S.Sugie, K.Wakabayashi, T.Tanaka: Tumor-initiating potency of a novel heterocyclic amine, aminophenylnorharman in mouse colonic carcinogenesis model, *Int. J. Cancer*, 121:1659-1664, 2007.
- 0170B014 K.Miyazawa, S.Miyamoto, R.Suzuki, Y.Yasui, R.Ikeda, H.Kohno, M.Yano, T.Tanaka, K.Hata, K.Suzuki: Dietary β -cryptoxanthin inhibits *N*-butyl-*N*-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in male ICR mice, *Oncol. Rep.*, 17:297-304, 2007.
- 0170B015 (S.Miyamoto), R.Suzuki, Y.Yasui, H. Kohno, S.Sugie, A.Murakami, H.Ohigashi, T.Tanaka: Lack of enhancing effect of lauric acid on the development of aberrant crypt foci in male ICR mice treated with azoxymethane and dextran sodium sulfate, *J. Toxicol. Pathol.*, 20:93-100, 2007.

Reviews

- 0170C001 T.Tanaka, S.Sugie: Inhibition of colon carcinogenesis by dietary non-nutritive compounds, *J. Toxicol. Pathol.*, 20:215–235, 2007.
- 0170C002 (B.Narayan), M.Hosokawa, Y.Yasui, R.Suzuki, H.Kohno, T.Tanaka, K.Miyashita: Chemopreventive effects of conjugated linolenic acids (CLN) occurring in plant seed oils, *Current nutrition & food science.*, 3:309–318, 2007.

Presentations at Conference

International Conference (Symposium)

- 0170H001 T.Tanaka: Citrus compounds inhibit inflammation- and obesity-related carcinogenesis in mice, *Cancer Chemoprevention Symposium (12th World Congress on Advances in Oncology and 10th International Symposium on Molecular Medicine)*, (Crete (Greece), '07.10).
- 0170H002 T.Tanaka: Preclinical chemoprevention study on inflammation- and obesity-related colon carcinogenesis, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).

International Conference (Presentations)

- 0170I001 K.Miyazawa, S.Miyamoto, R.Suzuki, Y.Yasui, R.Ikeda, H.Kohno, M.Yano, T.Tanaka, K.Hata, K.Suzuki: Dietary beta-cryptoxanthin inhibits N-butyl-N-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in male ICR mice, *The 22nd Annual EAU Congress*, (Berlin, '07.03).
- 0170I002 Y.Yasui, H.Kohno, R.Suzuki, S.Sugie, N.Niho, M.Takahashi, K.Wakabayashi, T.Tanaka: Dextran sodium sulfate strongly promotes colon carcinogenesis in *Apc^{Min/+}* mice, *The 2nd Biennial Scientific Meeting of International Society for Gastrointestinal Hereditary Tumours*, (Yokohama, '07.03).
- 0170I003 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, T.Tanaka: A lipophilic statin, pitavastatin inhibits inflammation-associated mouse colon carcinogenesis., *98th Annual Meeting of American Association for Cancer Research*, (Los Angeles, '07.04).
- 0170I004 (M.Shimizu), Y.Shirakami, H.Sakai, K.Hata, Y.Hirose, T.Tanaka, H.Moriwaki: EGCG suppresses azoxymethane-induced colonic premalignant lesions in male C57BL/KsJ-db/db mice, *98th Annual Meeting of American Association for Cancer Research*, (Los Angeles, '07.04).
- 0170I005 (Y.Shirakami), M.Shimizu, T.Tanaka, H.Moriwaki: Chemopreventive effects of EGCG and Polyphenon Eon inflammation-related mouse colon carcinogenesis induced by AOM and DSS, *98th Annual Meeting of American Association for Cancer Research*, (Los Angeles, '07.04).
- 0170I006 (S.Miyamoto), K.Hayashi, R.Suzuki, H.Kohno, S.Sugie, S.Takashima, A.Murakami, H.Ohigashi, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplasia in *db/db* mice, *98th Annual Meeting of American Association for Cancer Research*, (Los Angeles, '07.04).
- 0170I007 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, T.Tanaka: Ursodeoxycholic acid inhibits colitis-related colon carcinogenesis in mice: A comparative study regarding the effect of sulphasalazine, *98th Annual Meeting of American Association for Cancer Research*, (Los Angeles, '07.04).
- 0170I008 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, S.Sugie, T.Tanaka: A lipophilic statin, pitavastatin inhibits colitis-related colon carcinogenesis in mice, *The 8th Japan-Korea Joint Symposium on Cancer and Ageing Research*, (Gifu, '07.08).
- 0170I009 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, S.Sugie, T.Tanaka: Ursodeoxycholic acid inhibits colitis-related colon carcinogenesis in mice, *The 8th Japan-Korea Joint Symposium on Cancer and Ageing Research*, (Gifu, '07.08).
- 0170I010 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, *The Second Meeting of Asian-Oceanic Pancreatic Association(AOPA)*, (Kobe, '07.10).

- 0170I011 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).
- 0170I012 (K.Tatematsu), Y.Mori, S.Sugie, T.Tanaka, H.Mori: Tissue-specific modification by curcumin of mutagenic activation of carcinogenic *N*-nitroso compounds by CYP2B1 and 2E1 in rats, 3rd International Conference on Polyphenols and Health (ICPH2007), (Kyoto, '07.11).
- 0170I013 (M.Ikeda), K.Masumura, K.Matsui, H.Kohno, K.Sakuma, T.Tanaka, T.Kamataki, T.Nohmi: Chemopreventive effects of nobiletin, a citrus constituent, against the genotoxicity of NNK, a tobacco-specific nitrosamine, in the lung of gpt delta transgenic mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 0170I014 Y.Yasui, M.Kim, S.Miyamoto, R.Ishigamori-Suzuki, S.Sugie, T.Tanaka: The inhibitory effect of pitavastatin on colitis-related colon carcinogenesis in mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 0170I015 T.Tanaka, Y.Yasui, M.Kim, S.Miyamoto, F.Epifano, M.Curini, S.Genovese, R.Ishigamori-Suzuki: A novel prodrug of ferulic acid suppresses AOM/DSS-induced mouse colon carcinogenesis, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 0170I016 M.Kim, Y.Yasui, S.Miyamoto, S.Sugie, A.Murakami, R.Ishigamori-Suzuki, T.Tanaka: Dietary pitavastatin inhibits 4-nitroquinoline-1-oxide-induced carcinogenesis in the upper-digestive organs of *rasH2* mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).

0180 Department of Pathophysiological and Experimental Pathology

Faculty

Title	Name	Field of Specialization
Professor	KATSUDA Shogo	Vascular pathology, Pathophysiology of ECM
Professor	UEDA Yoshimichi	Bone and soft tissue tumor, Pulmonary pathology
Senior Assistant Professor	SATO Katsuaki	Neuropathology
Researcher	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 N.Ainoda, H.Onishi, Y.Ueda, A.Hori, K.Miura, K.Miyazawa, K.Suzuki: Increase in knowledge of ignorance during problem-based learning sessions:possible improvement of metacognition, *Medical education (Japan)*., 38:11-17, 2007.
- 0180B002 I.Shima, S.Katsuda, Y.Ueda, N.Takahashi, H.Sasaki: Expression of matrix metalloproteinases in wound healing after glaucoma filtration surgery in rabbits, *Ophthalmic Res.*, 39:315-324, 2007.
- 0180B003 Z.Wang, J.Xu, G.Ma, M.Sagawa, M.Shimazaki, Y.Ueda, T.Sakuma: Chronic pulmonary artery occlusion increases alveolar fluid clearance in rats, *J. Thorac. Cardiovasc. Surg.*, 134:1213-1219, 2007.

Reviews

- 0180C001 Y.Ueda, Y.Kanazawa, M.Shimazaki, K.Sato, G.Ming, D.Jiang, H.Tsuchiya, K.Tomita, S.Katsuda: Plakoglobin, a novel tumor suppressing protein, to control metastasis of soft tissue sarcomas, *J. Kanazawa. Med. Univ.*, 32:1-7, 2007 (in Japanese) .

Case Reports

- 0180D001 K.Sato, Y.Ueda, J.Sugaya, M.Ozaki, M.Hisaoka, S.Katsuda: Extrauterine endometrial stromal sarcoma with JAZF1/JJAZ1 fusion confirmed by RT-PCR and interphase FISH presenting as an inguinal tumor, *Virchows Arch.*, 450:349–353, 2007.
- 0180D002 (S.Kasashima), H.Minato, M.Kobayashi, Y.Ueda, Y.Oda, S.Hashimoto, M.Inoue: Alveolar soft part sarcoma of the endometrium with expression of CD10 and hormone receptors, *APMIS.*, 115:861–865, 2007.
- 0180D003 K.Sato, Y.Oda, Y.Ueda, S.Katsuda: Fasciitis ossificans of the breast, *Pathol. Res. Pract.*, 203:737–739, 2007.
- 0180D004 M.Sagawa, Y.Ueda, F.Matsubara, H.Sakuma, Y.Yoshimitsu, H.Aikawa, K.Usuda, H.Minato, T.Sakuma: Intrapulmonary solitary fibrous tumor diagnosed by immunohistochemical and genetic approaches: report of a case, *Surg Today*, 37:423–425, 2007.
- 0180D005 K.Sato, T.Terauchi, M.Nakano, M.Takenaka, Y.Asakura, N.Kurose, T.Nojima, Y.Ueda: A case of urothelial carcinoma of the urinary bladder presenting intracytoplasmic lumina, *J. Jpn. Soc. Clin. Cytol.*, 46:48–52, 2007 (in Japanese) .
- 0180D006 K.Sato, M.Takenaka, T.Terauchi, M.Nakano, Y.Asakura, T.Nojima, Y.Ueda, S.Katsuda: A case of thyroid adenomatous nodule with bizarre nuclei, *J. Jpn. Soc. Clin. Cytol.*, 46:149–152, 2007 (in Japanese) .
- 0180D007 H.Shikata, Y.Ueda, H.Nishizawa, K.Hida, J.Matsubara: A case of invasive group a streptococcal infection resembling phlegmasia cerulea dolens—a case of toxic shock-like syndrome—, *The Journal of the Japanese Practical Surgeon Society.*, 68:1088–1092, 2007 (in Japanese) .
- 0180D009 T.Terauchi, M.Takenaka, Y.Asakura, M.Nakano, K.Sato, M.Sagawa, N.Kurose, T.Nojima: Pulmonary pleomorphic carcinoma: two-case report, *J. Jpn. Soc. Clin. Cytol.*, 46:227–231, 2007 (in Japanese) .

Short Communications

- 0180E001 K.Sato, Y.Ueda, S.Katsuda, K.Tsuchihara: Myelolipoma of the lung: a case report and brief review, *J. Clin. Pathol.*, 60:728–730, 2007.

Others

- 0180F001 K.Sato, H.Tachibana, S.Morinaga, Y.Ueda, S.Katsuda: Sertoli cell tumor of the testis, not otherwise specified, presenting extensive hemorrhage and overexpression of α -methylacyl-CoA racemase (AMACR/P504S), *Virchows Arch.*, 450:361–363, 2007.
- 0180F002 K.Sato, Y.Shimode, A.Itoi, Y.Ueda, S.Katsuda: Salivary duct carcinoma of the parotid gland presenting KIT (CD117) overexpression, *Histopathology*, 51:114–115, 2007.

Presentations at Conference

International Conference (Presentations)

- 0180I001 T.Miyanaga, S.Kawakami, S.Katsuda, Y.Ueda, M.Shimasaki: Degradation and Absorption Processes of Hyaluronic Acid Filler Injected in, 17th Japan–China Joint Meeting on Plastic Surgery, (Tokyo, '07.10).

0190 Department of Microbiology

Faculty

Title	Name	Field of Specialization
Professor	OHARA Yoshiro	Neurovirology, Neuroimmunology
Associate Professor	SAITO Mineki	Neurology, Neurovirology
Assistant Professor	TANIURA Naoko	Neurovirology
Assistant Professor	SAITOU Kousuke	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 (F.Umehara), H.Nose, M.Saito, M.Fukuda, M.Ogino, T.Toyota, T.Yuhi, K.Arimura, M.Osame: Abnormalities of spinal magnetic resonance images implicate clinical variability in human T-cell lymphotropic virus type I-associated myelopathy, *J. Neurovirol.*, 13:260-267, 2007.
- 0190B002 K.Asakura, H.Murayama, T.Himeda, Y.Ohara: Expression of L* protein of Theiler's murine encephalomyelitis virus in the chronic phase of infection, *J. Gen. Virol.*, 88:2268-2274, 2007.
- 0190B003 (H.Nose), R.Kubota, NP.Seth, PK. Goon, Y.Tanaka, S.Izumo, K.Usuku, Y.Ohara, KW.Wucherpfennig, CRM.Bangham, M.Osame, M.Saito: Ex vivo analysis of human T lymphotropic virus type 1-specific CD4+ cells by use of a major histocompatibility complex class II tetramer composed of a neurological disease-susceptibility allele and its immunodominant peptide, *J. Infect. Dis.*, 196:1761-1772, 2007.

Presentations at Conference

International Conference (Presentations)

- 0190I001 M.Saito, AH.Sabouri, S.Izumo, M.Osame, Y.Ohara: Impaired maturation and function of HTLV-1 specific CTLs in HAM/TSP., 8th International Symposium on NeuroVirology, (San Diego, '07.10).

0200 Department of Fundamental Research for CAM

Faculty

Title	Name	Field of Specialization
Professor	YAMAGUCHI Nobuo	Developmental immunology, Defense immunity, Tumor immunity, Complementary & alternative medicine
Associate Professor	SHIMIZU Shoji	Immunology, Protective immunology, Tumor immunology
Senior Assistant Professor	MATSUNO Hideo	Allergy, Otolaryngology
Assistant Professor	MATSUBA Shintaro	Complementary & alternative medicine, Immunological pharmacology

Keywords of Research

pregnancy, maternal immunization, offspring, immune suppression, acquired immunodeficiency, immunomodulator, oral immunity, herbal medicine, cytokine

Outline of Research

Our research is founded on immunology. To date, we have studied fields such as fetomaternal immunity, tumor immunity and infectious immunity. With the graduate school reorganization in 2003, the name of the chair was changed with "Complementary and alternative medicine". Since then, we started the trial which verified alternative medicine of all the countries of world by the immunological parameters. In order to achieve these ends as effectively as possible, we planned the publication of new international journal, Evidence-based Complementary and Alternative Medicine (eCAM). The journal eCAM was published in 2004 and reached vol. 4th at present. In recent years, it has been proven that the neuroendocrine system adjusts the function of immune system and that there is a bidirectional regulation mechanism in these systems. We examine the effect of hot spring hydrotherapy and walking exercise on number and function of the immunocompetent cells. Hereafter, we aim at the establishment of an assessment of the alternative medicine throughout immunological parameters.

Publications

Originals

0200B001 N.Yamaguchi, T.Takahashi, M.Sakuma, T.Sugita, K.Uchikawa, S.Sakaihara, T.Kanda, M.Arai, K.Kawakita: Acupuncture regulates leukocyte subpopulations in human peripheral blood, *Evid Based Complement Alternat Med*, 4:447-453, 2007.

Others

0200F001 T.Takahashi, T.Kanda, N.Yamaguchi: Influenza Vaccines, *N. Engl. J. Med.*, 356:1172-1173, 2007.

0210 Department of Medical Zoology

Faculty

Title	Name	Field of Specialization
Associate Professor	IKEDA Teruaki	Immunological and biochemical studies of parasitic diseases
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, paragonimiasis, fascioliasis, cysticercosis, tick born disease, immunodiagnosis, antigen purification, circulating antigen, excretory/secretory products, IgE antibody, molecular biological diagnosis, cysteine proteinase, Acanthamoeba, metacercaria, excystment, atopic dermatitis, mite, Myobia musculi, Leptotrombidium

Outline of Research

The main subjects of our department are as follows:

- 1.Study on the invading mechanism of lung flukes into their final hosts.
 - 2.Epidemiological research of tick-born diseases in the Noto Peninsula,Ishikawa Prefect.
 - 3.Development of immunological and molecular biological diagnosis of parasitic diseases.
-

Publications

Originals

- 0210B001 (H.Fujita), N.Takada, H.Kawabata, F.Ishiguro, S.Yamamoto, Y.Oikawa, Y.Yano, Xiao-Hang Ma, Hong-Shik Oh: Some suggestive records of rickettsiae isolated from ticks in Korea and central China, Ann. rep. Ohara Hosp., 47:21-24, 2007.

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	FUKUNAGA Toshiharu	laboratory medicine, standardization of blood gas analysis, pulmonary function test
Assistant Professor	KUROSE Nozomu	surgical pathology, molecular pathology
Assistant Professor	KINOSHITA Eriko	surgical pathology, molecular 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 A.Nakagawa, K.Ueno, M.Ito, S.Okamoto, K.Uehara, H.Ito, S.Mishina, E.Kinoshita, T.Nojima, H.Takahashi, H.Ikawa, S.Takashima, M.Nishizawa, S.Nakano, T.Kigoshi, H.Nakabayashi, K.Uchida: Insulin responses to selective arterial calcium infusion under hyperinsulinemic euglycemic glucose clamps: case studies in adult nesidioblastosis and childhood insulinoma, *Endocr. J.*, 54:27-33, 2007.

Reviews

- 0220C001 (M.Hirokawa), T.Koshikawa, K.Higuchi, H.Minato, M.Tsuzuku, K.Mukai: Reporting system of salivary gland aspiration cytology, *J. Jpn. Soc. Clin. Cytol.*, 46:160-163, 2007 (in Japanese) .

Case Reports

- 0220D001 H.Yokota, M.Matoba, H.Tonami, T.Hasegawa, H.Saito, N.Kurose: Imaging findings in primary adenosquamous carcinoma of the liver : a case report, *Clin. Imaging.*, 31:279-282, 2007.

- 0220D002 K.Miyazawa, T.Itoh, E.Kinoshita, T.Nojima, T.Takahashi, T.Kanda, K.Suzuki: Prostate cancer producing carcinoembryonic antigen and carbohydrate antigen 19-9 without expression of prostate-specific antigen, J. Kanazawa. Med. Univ., 32:29-31, 2007.
- 0220D003 K.Sato, T.Terauchi, M.Nakano, M.Takenaka, Y.Asakura, N.Kurose, T.Nojima, Y.Ueda: A case of urothelial carcinoma of the urinary bladder presenting intracytoplasmic lumina, J. Jpn. Soc. Clin. Cytol., 46:48-52, 2007 (in Japanese) .
- 0220D004 K.Sato, M.Takenaka, T.Terauchi, M.Nakano, Y.Asakura, T.Nojima, Y.Ueda, S.Katsuda: A case of thyroid adenomatous nodule with bizarre nuclei, J. Jpn. Soc. Clin. Cytol., 46:149-152, 2007 (in Japanese) .
- 0220D005 T.Terauchi, M.Takenaka, Y.Asakura, M.Nakano, K.Sato, M.Sagawa, N.Kurose, T.Nojima: Pulmonary pleomorphic carcinoma: two-case report, J. Jpn. Soc. Clin. Cytol., 46:227-231, 2007 (in Japanese) .

Others

- 0220F001 Hiroshi Minato: A case of nasal tumor in a newborn infant, Pathology and clinical medicine., 25:594-595, 2007 (in Japanese) .
- 0220F003 (J.Shimizu), Y.Arano, T.Murata, T.Yachi, Y.Tsunamura, T.Nomura, H.Minato: Intrathoracic giant malignant peripgerak nerve sheath tumor in neurofibromatosis type I (von Recklinghausen's disease): report of a case, Medical journal of Mutual Aid Association., 56:203-208, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0220I001 H.Minato, S.Kaji, E.Kinoshita, N.Kurose, T.Nojima: Solitary intrapulmonary cystic lymphangioma, Pulmonary Pathology Society 2007 Biennial Meeting, (Santa Fe, New Mexico, USA, '07.06).

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, absenteeism, alcohol consumption, cigarette consumption, shift work, work time

Outline of Research

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

Publications

Originals

- 0230B001 (W.Teeyakasem), M.Nishijo, R.Honda, S.Satarug, W.Swaddiwudhipong, W.Ruangyuttikarn: Monitoring of cadmium toxicity in a Thai population with high-level environmental exposure, *Toxicol. Lett.*, 169:185–195, 2007.
- 0230B002 S.Yoneyama, K.Miura, S.Sasaki, K.Yoshita, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Dietary intake of fatty acids and serum C-reactive protein in Japanese, *J Epidemiol*, 17:86–92, 2007.
- 0230B003 (Y.Suwazono), E.Kobayashi, M.Dochi, K.Miura, Y.Morikawa, M.Ishizaki, T.Kido, H.Nakagawa, K.Nogawa: Combination of the C1429T polymorphism in the G-protein beta-3 subunit gene and the A1330V polymorphism in the low-density lipoprotein receptor-related protein 5 gene is a risk factor for hypercholesterolaemia, *Clin. Exp. Med.*, 7:108–114, 2007.
- 0230B004 Y.Morikawa, H.Nakagawa, K.Miura, Y.Soyama, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, K.Nogawa: Effect of shift work on body mass index and metabolic parameters, *Scand. J. Work Environ. Health*, 33:45–50, 2007.
- 0230B005 (K.Fujikake), M.Miyao, R.Honda, M.Omori, Y.Matsuura, H.Takada: Evaluation of high quality LCDs displaying moving pictures, on the basis of the form obtained from statokinesigrams, *Forma*, 22:199–206, 2007.
- 0230B006 Q.Jingtao, H.Sasaki, L.Zhongxin, Z.Jinsheng, W.Kaili, M.Kojima, Y.Sakamoto, R.Honda, Y.Kawakami, Y.Yamashiro, Z.Jinsong, K.Sasaki, Japan-China Co-operative Study Group: Current status about blindness among low-income farmers in Sanya district, hainan, China, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 61:411–416, 2007 (in Japanese).

Others

- 0230F001 Y.Noborisaka, R.Honda, M.Ishizaki, M.Nakata, Y.Yamada: Alcohol and cigarette consumption, renal function and blood pressure in middle-aged healthy men, *J Hum Hypertens*, 21:966-968, 2007.

Presentations at Conference

International Conference (Presentations)

- 0230I001 M.Nakata, P.Lindberg: Work-related musculoskeletal disorders(WRMSDs) and an uninformed society—what to do?, Third International Conference on the History of Occupational and Environmental Health, (Birmingham, '07.04).
- 0230I002 K.Sasaki, H.Sasaki, R.Honda, Y.Kawakami, M.Kojima, Y.Sakamoto, J.Qu, Y.Yamashiro, J.Zhang, Z.Lilu: High Prevalence of Pterygium in the Population of a Tropical Area in China –Sanya Eye Study–, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0230I003 K.Nagai, H.Sasaki, R.Honda, M.Kojima, Y.Sakamoto, J.Qu, K.Sasaki: Prevalence of cataract in eyes with posterior vitreous detachment, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0230I004 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: The relationship of axial length and three main types of cataract in the population of a tropical area of China, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0230I005 Pham-The T, Nambunmee K, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow-up study (from 1998 to 2006) about effects of cadmium on renal functions among Japanese population living in a non-polluted area., 6th Annual Congress of Asia-Pacific Association of Medical Toxicology, (Bangkok, '07.12).
- 0230I006 K.Nagai, H.Sasaki, R.Honda, Y.Kawakami, Y.Sakamoto, J.Qu, K.Sasaki: Change of light scattering intensity in eyes with posterior vitreous detachment, Monzen eye study, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).

0240 Department of Epidemiology and Public Health

Faculty

Title	Name	Field of Specialization
Professor	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor(Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Associate Professor	MIURA Katsuyuki	Cardiovascular epidemiology, preventive cardiology, clinical epidemiology
Associate Professor	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Senior Assistant Professor(Additional Post)	NAKANISHI Yumiko	Preventive medicine
Assistant Professor(Additional Post)	SAKURAI Masaru	Cardiovascular epidemiology, preventive cardiology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0240B001 N.Ainoda, H.Onishi, Y.Ueda, A.Hori, K.Miura, K.Miyazawa, K.Suzuki: Increase in knowledge of ignorance during problem-based learning sessions:possible improvement of metacognition, *Medical education (Japan)*., 38:11-17, 2007.
- 0240B002 (W.Teeyakasem), M.Nishijo, R.Honda, S.Satarug, W.Swaddiwudhipong, W.Ruangyuttikarn: Monitoring of cadmium toxicity in a Thai population with high-level environmental exposure, *Toxicol. Lett.*, 169:185-195, 2007.
- 0240B003 S.Yoneyama, K.Miura, S.Sasaki, K.Yoshita, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Dietary intake of fatty acids and serum C-reactive protein in Japanese, *J Epidemiol*, 17:86-92, 2007.
- 0240B004 (T.Tanaka), T.Okamura, Z.Yamagata, T.Takebayashi, U.Tamura, Y.Kusaka, S.Urano, Y.Miyoshi, A.Okayama, H.Ueshima, HIPOP-OHP Research Group, H.Nakagawa, K.Miura: Awareness and treatment of hypertension and hypercholesterolemia in Japanese workers:the high-risk and population strategy for occupational health promotion(HIPOP-OHP)study, *Hypertens. Res.*, 30:921-928, 2007.

- 0240B005 A.Nasermoaddeli, K.Miura, A.Matsumori, Y.Soyama, Y.Morikawa, A.Kitabatake, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with hypertrophic cardiomyopathy in Japan: results from a nationwide study, *Heart*, 93:711–715, 2007.
- 0240B006 (Y.Hayashino), S.Fukuhara, Y.Suzukamo, T.Okamura, T.Tanaka, H.Ueshima, HIPOP–OHP Research Group, H.Nakagawa, K.Miura: Relation between sleep quality and quantity, quality of life, and risk of developing diabetes in healthy workers in Japan: the high-risk and population strategy for occupational health promotion(HIPOP–OHP)study, *BMC Public Health.*, 7:129, 2007.
- 0240B007 (The Emerging Risk Factors Collaboration.), H.Nakagawa, K.Miura: The emerging risk factors collaboration: analysis of individual data on lipid, inflammatory and other markers in over 1.1 million participants in 104 prospective studies of cardiovascular diseases, *Eur. J. Epidemiol.*, 22:839–869, 2007.
- 0240B008 M.Nishijo, J.Kuriwaki, E.Hori, K.Tawara, H.Nakagawa, H.Nishijo: Effects of maternal exposure to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin on fetal brain growth and motor and behavioral development in offspring rats, *Toxicol. Lett.*, 173:41–47, 2007.
- 0240B009 M.Sakurai, T.Takamura, T.Ota, H.Ando, H.Akahori, K.Kaji, M.Sasaki, Y.Nakanuma, K.Miura, S.Kaneko: Liver steatosis, but not fibrosis, is associated with insulin resistance in nonalcoholic fatty liver disease, *J. Gastroenterol.*, 42:312–317, 2007.
- 0240B010 (Y.Suwazono), E.Kobayashi, M.Dochi, K.Miura, Y.Morikawa, M.Ishizaki, T.Kido, H.Nakagawa, K.Nogawa: Combination of the C1429T polymorphism in the G-protein beta-3 subunit gene and the A1330V polymorphism in the low-density lipoprotein receptor-related protein 5 gene is a risk factor for hypercholesterolaemia, *Clin. Exp. Med.*, 7:108–114, 2007.
- 0240B011 Y.Morikawa, H.Nakagawa, K.Miura, Y.Soyama, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, K.Nogawa: Effect of shift work on body mass index and metabolic parameters, *Scand. J. Work Environ. Health*, 33:45–50, 2007.
- 0240B012 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, *Hokuriku Japanese Journal of Public Health.*, 33:76–79, 2007 (in Japanese) .
- 0240B013 K.Kitaoka-Higashiguchi, M.Sasaki, Y.Morikawa, H.Nakagawa: Applying the General Coping Questionnaire to nurses and the prospect of the shortened version, *Hokuriku Japanese Journal of Public Health.*, 33:56–59, 2007 (in Japanese) .

Short Communications

- 0240E001 (T.Kido), S.Maruzeni, H.Suzuki, Y.Odamae, M.Muranaka, R.Naganuma, K.Tawara, M.Nishijo, H.Nakagawa, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu, H.Oka, K.Noguchi: Five years studies on the long term effects of waragent orange/dioxin on human health in Vietnam, *Organohalogen Compounds.*, 69:572–575, 2007.
- 0240E002 (M.Muranaka), T.Kido, Y.Odamae, H.Suzuki, R.Naganuma, H.Nakagawa, M.Nishijo, K.Tawara, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: An epidemiological study on health effects by dioxin in Vietnam; comparison of visual acuity of junior high school students between herbicide sprayed and non-sprayed areas, *Organohalogen Compounds.*, 69:2035–2038, 2007.
- 0240E003 K.Tawara, M.Nishijo, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: Association of having birth defect children with serum dioxin levels in Vietnam, *Organohalogen Compounds.*, 69:568–571, 2007.
- 0240E004 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pam, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin(TCDD)disturbed development of taste preference in rat offspring, *Organohalogen Compounds.*, 69:1809–1812, 2007.
- 0240E005 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, *Organohalogen Compounds.*, 69:2031–2034, 2007.

Presentations at Conference

International Conference (Symposium)

- 0240H001 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0240H002 (K.Nambunmee), T.Pham-The, R.Honda, M.Nishijo, K.Miura, H.Nakagawa, W.Rungyuttikarn: Association of renal tubular injury and bone resorption induced by cadmium exposure of inhabitants living in polluted area, Maesot district, Tak province, Thailand, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).
- 0240H003 (T.Pham-The), K.Nambunmee, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow up study about effects of cadmium (Cd) on renal functions among Japanese population living in a non-polluted area, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).

International Conference (Presentations)

- 0240I001 K.Miura, A.Matsumori, Y.Morikawa, Y.Inaba, M.Nagai, H.Nakagawa: Predictive Score to Predict the Prognosis of Cardiomyopathies: from a Nationwide Study in Japan, 1st International Congress of Cardiomyopathy and Heart Failure, (Kyoto, '07.03).
- 0240I002 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pham, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin disturbed development of taste preference in rat off-springs, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0240I003 Pham-The T, Nambunmee K, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow-up study (from 1998 to 2006) about effects of cadmium on renal functions among Japanese population living in a non-polluted area., 6th Annual Congress of Asia-Pacific Association of Medical Toxicology, (Bangkok, '07.12).

0250 Department of Legal Medicine

Faculty

Title	Name	Field of Specialization
Professor	KITAMURA Osamu	Forensic Pathology, Drug Dependence
Research Associate	TAKEICHI Toshiaki	hemorheologe

Keywords of Research

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

Outline of Research

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

0260 Department of Medical Education

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

0260B001 N.Ainoda, H.Onishi, Y.Ueda, A.Hori, K.Miura, K.Miyazawa, K.Suzuki: Increase in knowledge of ignorance during problem-based learning sessions:possible improvement of metacognition, Medical education (Japan)., 38:11-17, 2007.

Case Reports

0260D001 H.Kakinuma, A.Hori, M.Ito, T.Nakamura, H.Takahashi: An inherited disorder characterized by repeated episodes of bilateral ballism: a case report, Mov. Disord., 22:2110-2131, 2007.

0300 Department of Cardiovascular Medicine

Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Kouji	Atherosclerosis, lipid metabolism
Professor(Additional Post)	MATSUI Shinobu	Heart failure
Associate Professor	TSUGAWA Hiroichi	Arrhythmia, Catheter ablation
Associate Professor	ASAJI Takayoshi	Heart failure
Associate Professor	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
Senior Assistant Professor	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
Senior Assistant Professor	UENISHI Hiroaki	Ischemic heart disease, Coronary intervention
Assistant Professor	AKAO Hironobu	Ischemic heart disease, Coronary intervention
Assistant Professor	TAKEDA Kenji	Molecular Biology
Assistant Professor	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
Assistant Professor	SATAKE Osamichi	Cardiomyopathy
Assistant Professor	SATO Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor	KASENO Kenichi	Arrhythmia, Catheter ablation
Assistant Professor	NOMURA Yusuke	nuclear cardiology
Assistant Professor	MOTOYAMA Atsushi	Ischemic heart disease, Coronary intervention
Research Doctor	ISHIDA Masaski	Hypertension

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0300B001 (Y. Ozaki), T. Yamaguchi, T. Suzuki, M. Nakamura, M.Kitayama, H. Nishikawa, T. Inoue, K. Hara, F. Usuba, M. Sakurada, K. Awano, H. Matsuo, S. Ishiwata, T. Yasukawa, T. F. Ismail, H.Hishida, O. Kato: Impact of cutting balloon angioplasty(CBA)prior to bare metal stenting on restenosis —A prospective randomized multicenter trial comparing CBA with balloon angioplasty(BA)before stenting(REDUCE III)—, Circ. J., 71:1-8, 2007.

- 0300B002 Y. Yamaguchi, H.Tsugawa, N.Fujioka, K.Kaseno, M.Kitayama, K.Kajinami: Role of a novel conduction pattern around the coronary sinus in cavotricuspid isthmus dependent right atrial flutter, *J Cardiol*, 50:1-10, 2007.
- 0300B003 (S.Kanayama), I.Matsunari, K.Kajinami: Comparison of gated N-13 ammonia PET and gated Tc-99m sestamibi SPECT for quantitative analysis of global and regional left ventricular function, *J. Nucl. Cardiol.*, 14:680-687, 2007.
- 0300B004 (N.Morikawa), Y.Kawai, K.Arakawa, T.Kumamoto, I.Miyamori, H.Akao, M.Kitayama, K.Kajinami, Jong-Dag Lee, H.Takeshita, Y.Kominato, T.Yasuda: Serum deoxyribonuclease I activity can be used as a novel marker of transient myocardial ischemia:results in vasospastic angina pectoris induced by provocation test, *Eur. Heart J.*, 28:2992-2997, 2007.
- 0300B005 K.Kaseno, H.Tada, S.Ito, K.Tadokoro, T.Hashimoto, K.Miyaji, S.Naito, S.Oshima, A.Nogami, K.Taniguchi: Ablation of idiopathic ventricular tachycardia in two separate regions of the outflow tract: prevalence and electrocardiographic characteristics, *Pacing Clin. Electrophysiol.*, 30(suppl1):S88-93, 2007.
- 0300B006 (Y.Kominato), R.Iida, T.Nakajima, Y.Tajima, R.Takagi, C.Makita, K.Kishi, M.Ueki, Y.Kawai, T.Yasuda: Hypoxia induces upregulation of the deoxyribonuclease I gene in the human pancreatic cancer cell line QGP-1, *Biochim. Biophys. Acta*, 1770:1567-1575, 2007.

Case Reports

- 0300D001 K.Kaseno, H.Tada, S.Tanaka, K.Goto, M.Yokokawa, S.Hiramatsu, S.Naito, S.Oshima, K.Taniguchi: Successful catheter ablation of left ventricular epicardial tachycardia originating from the great cardiac vein —A case report and review of the literature—, *Jpn. Circ. J.*, 71:1983-1988, 2007.

0310 Department of Respiriology (Respiratory Medicine)

Faculty

Title	Name	Field of Specialization
Professor	TOGA Hirohisa	lung physiology, sleep disordered breathing
Associate Professor	OSANAI Kazuhiro	lung cell and molecular biology , COPD
Senior Assistant Professor	HUANG Jyongsu	lung physiology, sleep disordered breathing
Senior Assistant Professor	IGUCHI Masaharu	clinical respiratory medicine
Senior Assistant Professor	TAKAHASHI Masakatsu	clinical respiratory medicine , pulmonary tuberculosis
Assistant Professor	TOBE Takeyasu	clinical respiratory medicine
Assistant Professor	TSUCHIHARA Katsuma	clinical respiratory medicine
Assistant Professor	OIKAWA Taku	clinical respiratory medicine , lung cancer
Assistant Professor	OIKAWA Rieko	clinical respiratory medicine , lung cancer
Research Associate	NAKAGAWA Ken	clinical respiratory medicine , lung cancer
Assistant Professor	TACHI Yuki	clinical respiratory medicine
Assistant Professor	KOJIMA Koji	clinical respiratory medicine

Keywords of Research

acute lung injury, cytokine, NO, matrix metalloproteinase, pulmonary alveolar type II cell, sleep apnea syndrome, acoustic reflection technique, upper airway compliance, CPAP, BiPAP, lung cancer, apoptosis, Fas, Fas ligand

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. Apoptosis of lung cancer cells

Publications

Originals

- 0310B001 M.Matoba, H.Tonami, T.Kondou, H.Yokota, K.Higashi, H.Toga, T.Sakuma: Lung Carcinoma : diffusion-weighted MR imaging-preliminary evaluation with apparent diffusion coefficient, *Radiology.*, 243:570-577, 2007.
- 0310B002 (A.Zippeliu), A.Gati, T.Bartnick, S.Walton, B.Odermatt, E.Jaeger, R.Dummer, M.Urosevic, V.Filonenko, K.Osanai, H.Moch, YT.Chen, LJ.Old, A.Knuth, D.Jaeger: Melanocyte differentiation antigen RAB38/NY-MEL-1 induces frequent antibody responses exclusively in melanoma patients, *Cancer Immunol. Immunother.*, 56:249-258, 2007.

Reviews

0310C002 (T.Nakajima), K.Yasufuku, N.Kurimoto, H.Saka, M.Tsuboi, H.Horinouti, H.Isobe, F.Imamura, Y.Ohno, M.Sato, T.Tsuchida, H.Toga, S.Hayashi, K.Matsui, T.Miyazawa, A.Yokoyama, H.Honda, K.Sibuya, T.Fujisawa: Endobronchial ultrasound-guided transbronchial needle-aspiration for lymph node staging of lung cancer, Proceedings of the Japanese Lung Cancer Society Lung cancer., 47:207-214, 2007 (in Japanese) .

0310C003 (T.Nakajima), Y.Shibuya, H.Honda, F.Imamura, M.Satou, H.Isobe, Y.Ohno, T.Tsuchida, H.Toga, S.Hayashi, K.Matsui, T.Miyazawa, A.Yokoyama, N.Kurimoto, H.Saka, M.Tsuboi, H.Horinouchi, K.Yasufuku, T.Fujisawa: Standard classification of autofluorescence bronchoscopy findings, Proceedings of the Japanese Lung Cancer Society Lung cancer., 47:215-221, 2007 (in Japanese) .

Case Reports

0310D001 Y.Takahashi, T.Kiba, K.Yamaguchi, Y.Saitou, K.Nishio, M.Iguchi, Y.Motoo: A case undergoing repeated anaphylactic shock after systemic administration of vinorelbine, Cancer & chemotherapy., 34:2321-2323, 2007 (in Japanese) .

Short Communications

0310E001 K.Sato, Y.Ueda, S.Katsuda, K.Tsuchihara: Myelolipoma of the lung: a case report and brief review, J. Clin. Pathol., 60:728-730, 2007.

Presentations at Conference

International Conference (Presentations)

0310I001 K.Osanai, R.Oikawa, J.Higuchi, T.Miwa, H.Toga: Rab38-Deficient rats show phenotype of hermannsky-pudlak syndrome, ATS 2007 International conference, (San Francisco, '07.05).

0320 Department of Gastroenterology

Faculty

Title	Name	Field of Specialization
Professor	TAKASE Shujiro	Gastroenterology, Hepatology
Associate Professor	KAWAHARA Hiromu	Liver injury and oxidative stress
Senior Assistant Professor	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
Assistant Professor	OKAMURA Hideyuki	Clinical feature and nutritional treatment of liver cirrhosis
Assistant Professor	OZAKI Kazuaki	Mechanism of portal hypertension in alcoholic liver injury
Assistant Professor	SHIMANAKA Koshi	Clinical feature and treatment of viral hepatitis
Assistant Professor	SHIROEDA Shoko	Clinical feature and treatment of severe acute pancreatitis
Assistant Professor(Additional Post)	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer
Assistant Professor	FUKUMURA Atsushi	Etiology and clinical feature of acute hepatitis
Assistant Professor	FUKURA Masayuki	Chemotherapy of advanced hepatic cancer
Assistant Professor	YANO Hirokazu	Clinico-epidemiology of alcoholic liver injury
Assistant Professor	OOTSUKA Toshimi	Clinico-pathological study of nonalcoholic steatohepatitis
Assistant Professor	HAYASHI Nobuhiko	Effect of alcohol on colon carcinogenesis by chemical carcinogen
Assistant Professor	YAMADA Masayoshi	Nonalcoholic steatohepatitis and oxidative stress

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0320B001 A.Fukumura, M.Tsutsumi, M.Tsuchishima, N.Hayashi, M.Fukura, H.Yano, K.Ozaki, S.Takase: Effect of the inducer of interleukin-6(ME3738) on rat liver treated with ethanol, *Alcohol. Clin. Exp. Res.*, 31(Suppl.1):49S-53S, 2007.
- 0320B002 N.Hayashi, M.Tsutsumi, M.Fukura, H.Yano, M.Tsuchishima, S.Takase: Effect of chronic dietary ethanol consumption on colonic cancer in rats induced by l,l-dimethylhydrazine, *Alcohol. Clin. Exp. Res.*, 31(Suppl.1):72S-76S, 2007.
- 0320B003 H.Kawahara, M.Fukura, M.Tsuchishima, S.Takase: Mutation of mitochondrial DNA in livers from patients with alcoholic hepatitis and nonalcoholic steatohepatitis, *Alcohol. Clin. Exp. Res.*, 31(Suppl.1):54S-60S, 2007.
- 0320B004 (J.George), M.Tsutsumi: siRNA-mediated knockdown of connective tissue growth factor prevents N-nitrosodimethylamine-induced hepatic fibrosis in rats, *Gene Ther.*, 14:790-803, 2007.
- 0320B005 M.Shimada, H.Kawahara, K.Ozaki, M.Fukura, H.Yano, M.Tsuchishima, M.Tsutsumi, S.Takase: Usefulness of a combined evaluation of the serum adiponectin level, HOMA-IR, and serum Type IV collagen 7S level to predict the early stage of nonalcoholic steatohepatitis, *Am. J. Gastroenterol.*, 102:1931-1938, 2007.
- 0320B006 Y.Yanagida, M.Tsutsumi, S.Takase: Effect of the inducer of interleukin-6, ME3738, on carbon tetrachloride-induced hepatic fibrosis in rats, *J. Kanazawa. Med. Univ.*, 32:133-140, 2007 (in Japanese) .
- 0320B007 T.Fukuyama, H.Kawahara, S.Takase: The influence of ethanol on primary cultured rat hepatocytes under suppressed complex I of the mitochondrial respiratory chain, *J. Kanazawa. Med. Univ.*, 32:141-150, 2007 (in Japanese) .
- 0320B008 T.Saito, M.Shimada, S.Takase: Hepatic expression of adiponectin in OLETF rats with nonalcoholic steatohepatitis induced by high-fat diet, *J. Kanazawa. Med. Univ.*, 32:211-217, 2007 (in Japanese) .

Reviews

- 0320C002 M.Tsuchishima, S.Takase: The participation of cytokine in pathogenesis of alcoholic liver disease -the participation of cytokine in ALD, *Journal of clinical and experimental medicine. Supplement.*, 222:655-660, 2007 (in Japanese) .
- 0320C003 M.Tsuchishima, S.Takase: Alcoholic liver disease, *Clinic all-round Sōgō rinshō.*, 56:3062-3067, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0320I001 M.Shimada, T.Saitoh, K.Ozaki, M.Fukura, H.Yano, M.Tsuchishima, H.Kawahara, S.Takase: Long-term oral feeding with a high-fat diet causes steatohepatitis and metabolic syndrome in OLETF rats, 17th Asian Pacific Association for the Study of the Liver, (Kyoto, '07.03), *Hepatol Intern*, 1:227, 2007.
- 0320I002 M.Shimada, T.Saitoh, K.Ozaki, M.Fukura, H.Yano, M.Tsuchishima, H.Kawahara, S.Takase: Usefulness of serum oligometric adiponectin level to predict of nonalcoholic steatohepatitis, 17th Asian Pacific Association for the Study of the Liver, (Kyoto, '07.03), *Hepatol Intern*, 1:221, 2007.
- 0320I003 M.Fukura, M.Tsutsumi, Y.Yanagida, M.Tsuchishima, N.Hayashi, S.Takase: Effect of the inducer of interleukin-6(ME3738) on carbon tetrachloride induced hepatic fibrosis in rat, 17th Asian Pacific Association for the Study of the Liver, (Kyoto, '07.03), *Hepatol Intern*, 1:207, 2007.
- 0320I004 H.Kawahara, T.Fukuyama, M.Yamada, M.Fukura, K.Ozaki, M.Tsuchishima, S.Takase: The influence of ethanol on the cytoskeleton of primary cultured hepatocytes under suppressed complex I of the mitochondrial respiratory chain, 15th United European Gastroenterology Week, (Paris, '07.10).

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
Associate Professor	ASAKA Mitsuhiro	Cellular immunity in uremia, Clinicopathological study of primary nonfunction and chronic allograft nephropathy in renal transplantation
Senior Assistant Professor	YAMAYA Hideki	Clinical nephrology,
Assistant Professor	IMAMURA Hidetsugu	Clinical nephrology,
Assistant Professor	ADACHI Hiroki	Clinical nephrology,
Assistant Professor	OKUYAMA Hiroshi	Clinical nephrology,
Assistant Professor	CHIKAZAWA Yoshihiro	Clinical nephrology,
Assistant Professor	NAKAGAWA Masaru	Clinical nephrology,
Assistant Professor	HAYAMA Satoshi	Clinical nephrology,
Assistant Professor	MORITA Kyoko	Clinical nephrology,
Assistant Professor	ATSUMI Hirokatsu	Clinical nephrology.
Assistant Professor	IMURA Junko	Clinical nephrology.
Associate Professor	FUJIMOTO Keiji	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 (I.Nakaya), T.Wada, K.Furuichi, N.Sakai, K.Kitagawa, H.Yokoyama, Y.Ishida, T.Kondo, T.Sugaya, H.Kawachi, F.Shimizu, S.Narumi, M.Haino, C.Gerard, K.Matsushima, S.Kaneko: Blockade of IP-10/CXCR3 promotes progressive renal fibrosis, *Nephron Exp. Nephrol.*, 107:e12-e21, 2007.
- 0330B002 (Y.Iwata), T.Wada, H.Yokoyama, T.Toyama, S.Kitajima, T.Okumura, A.Hara, J.Yamahana, I.Nakaya, M.Kobayashi, K.Kitagawa, S.Kokubo, K.Yoshimoto, K.Shimizu, N.Sakai, K.Furuichi, Y.Koshino, S.Takeda, K.Takasawa, S.Ohta, M.Takaeda, C.Takaeda, S.Kaneko: Effect of sevelamer hydrochloride on markers of bone turnover in Japanese dialysis patients with low bioactive PTH levels, *Intern. Med.*, 447-452, 2007.

Reviews

- 0330C001 H.Yokoyama, T.Wada, W.Zhang, H.Yamaya, M.Asaka: Advances in apheresis therapy for glomerular diseases, *Clin Exp Nephrol*, 11:122-127, 2007.
- 0330C003 H.Yokoyama, T.Wada: Diagnostic approach to drug induced renal injury, *Journal of clinical and experimental medicine. Supplement.*, 27-31, 2007 (in Japanese) .
- 0330C007 H.Yokoyama: Nephrotic syndrome, *Clinic all-round ; Sogo rinsho.*, 56:1337-1343, 2007 (in Japanese) .
- 0330C010 H.Yokoyama: Hepatitis C virus(HCV) associated nephritis, *Nephrol. Fronti.*, 6:158-162, 2007 (in Japanese) .
- 0330C011 M.Asaka, H.Imamura, H.Yokoyama: Renal involvement in bronchopulmonary diseases, *Clinic all-round ; Sogo rinsho.*, 56:2118-2122, 2007 (in Japanese) .
- 0330C018 N.Tomosugi: Iron overload in renal anemia, *The Japanese journal of clinical dialysis.*, 23:1555-1562, 2007 (in Japanese) .

Others

- 0330F001 (H.Kawabata), N.Tomosugi, J.Kanda, Y.Tanaka, K.Yoshizaki, T.Uchiyama: Anti-interleukin 6 receptor antibody tocilizumab reduces the level of serum hepcidin in patients with multicentric Castleman's disease, *Haematologica.*, 92:857-858, 2007.
- 0330F004 H.Yokoyama: Clinicopathological studies of membranous nephropathy in nephrotic syndrome, *Journal of the Jusen Medical Society.*, 116:102-103, 2007 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0330H001 H.Yokoyama, T.Wada: Application of lymphocytapheresis for nephrotic syndrome, 6th World Congress of the International Society for Apheresis(ISFA) World Apheresis Association 11th Congress(WAA), (Yokohama, '07.03), *Therapeutic Apheresis and Dialysis*, 11:A23, 2007.

International Conference (Presentations)

- 0330I001 (M.Yamazaki), T.Wada, H.Yokoyama, S.Nakao: Usefulness of immunoadsorption plasmapheresis using selesorb^R for catastrophic antiphospholipid syndrome: differences in plasma purification by subclass of antiphospholipid antibodies, 6th World Congress of the International Society for Apheresis(ISFA) World Apheresis Association 11th Congress(WAA), (Yokohama, '07.03).
- 0330I002 K.Kitagawa, N.Tomosugi, H.Tuchida, H.Sasaki: Automated identification and quantification of tear proteins from Sjogern's syndrome by LC/MS on a hybrid linear ion trap mass spectrometer, 5th international Conference on the Tear Film & Ocular Surface : Basic Science and Clinical Relevance, (Italy, '07.08).

- 0330I003 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, The Second Meeting of Asian-Oceanic Pancreatic Association(AOPA), (Kobe, '07.10).
- 0330I004 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).
- 0330I005 (T.Saito), T.Mitarai, H.Yokoyama, N.Yorioka, M.Iwano, S.Nishi, A.Yoshimura, K.Matsumoto, H.Sato, M.Honda, Y.Tomino: Effect of preprandial once-a-day administration of cyclosporine(CyA)for steroid resistant nephrotic syndrome(SRNS), ASN Renal Week in San Francisco, (San Francisco, '07.11), J.Am.Soc.Nephrol., 18:562A, 2007.
- 0330I006 H.Yokoyama, T.Kawaguchi, Y.Takahashi, S.Fukuhara, A.Saito: Biocompatibility and permeability of dialyzer membrane do not affect anemia, erythropoietin dosage or mortality in Japanese patients on chronic non-reuse hemodialysis: a prospective cohort study from the J-DOPPS II study, ASN Renal Week in San Francisco, (San Francisco, '07.11), "J.Am.Soc.Nephrol.", 18:517A, 2007.

0340 Department of Endocrinology and Metabolism

Faculty

Title	Name	Field of Specialization
Professor	KOYA Daisuke	diabetes, hypertension, obesity, aging
Professor	KIGOSHI Toshikazu	intracellular signaling of hormones, aldosterone secretion
Associate Professor	NAKAGAWA Atsushi	pancreatic and gut hormones, pituitary diseases
Senior Assistant Professor	NISHIZAWA Makoto	diabetes, insulin secretion, thyroid diseases
Senior Assistant Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Assistant Professor	IMAIZUMI Noriko	intracellular mechanisms of aldosterone synthesis, diabetes
Assistant Professor	TSUDA Shinichi	diabetes, hypertension, arteriosclerosis
Assistant Professor	FURUYA Keisuke	diabetes, thyroid diseases
Assistant Professor	MAEJIMA Katsuyuki	diabetes, thyroid diseases
Assistant Professor	KONISHI Kazunori	diabetes, arteriosclerosis
Assistant Professor	UEHARA Keigo	diabetes
Assistant Professor(Additional Post)	KITADA Munehiro	diabetes, hypertension
Research Doctor	ITO Hiroki	diabetes, thyroid diseases

Keywords of Research

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

Outline of Research

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

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

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

Publications

Originals

- 0340B001 (T.Uzu), M.Sawaguchi, H.Maegawa, A.Kashiwagi, K.Tomita, N.Horide, T.Kawabata, D.Koya, T.Uzu, H.Maegawa, M.Nishimura, S.Yamada, Y.Kida, T.Hashimoto, N.Takahara, K.Egawa, M.Iwanishi, N.Harada, T.Arimura, A.Kadota, T.Fujita, M.Ikebuchi, K.Sakamoto, Y.Nishio, S.Ugi, O.Sekine, T.Sugimoto, S.Araki, K.Isshiki, M.Sawaguchi, N.Shirahashi, M.Haneda, A.Kashiwagi: Reduction of microalbuminuria in patients with type 2 diabetes, *Diabetes Care.*, 30:1581–1583, 2007.
- 0340B002 (S.Kume), M.Haneda, K.Kanasaki, T.Sugimoto, S.Araki, K.Isshiki, M.Isono, T.Uzu, L.Guarente, A.Kashiwagi, D.Koya: SIRT1 inhibits transforming growth factor β induced apoptosis in glomerular mesangial cells via Smad7 deacetylation, *J. Biol. Chem.*, 282:151–158, 2007.
- 0340B003 (S.Araki), M.Haneda, D.Koya, T.Sugimoto, K.Isshiki, M.Chin-Kanasaki, T.Uzu, A.Kashiwagi: Predictive impact of elevated serum level of IL-18 for early renal dysfunction in type 2 diabetes: an observational follow-up study, *Diabetologia*, 50:867–873, 2007.
- 0340B004 A.Nakagawa, K.Ueno, M.Ito, S.Okamoto, K.Uehara, H.Ito, S.Mishina, E.Kinoshita, T.Nojima, H.Takahashi, H.Ikawa, S.Takashima, M.Nishizawa, S.Nakano, T.Kigoshi, H.Nakabayashi, K.Uchida: Insulin responses to selective arterial calcium infusion under hyperinsulinemic euglycemic glucose clamps: case studies in adult nesidioblastosis and childhood insulinoma, *Endocr. J.*, 54:27–33, 2007.
- 0340B005 (Y.Morita), H.Araki, T.Sugimoto, K.Takeuchi, T.Yamane, T.Maeda, Y.Yamamoto, K.Nishi, M.Asano, K.Shirahama-Noda, M.Nishimura, T.Uzu, I.Hara-Nishimura, D.Koya, A.Kashiwagi, I.Ohkubo: Legumain/asparaginyl endopeptidase controls extracellular matrix remodeling through the degradation of fibronectin in mouse renal proximal tubular cells, *FEBS Lett.*, 581:1417–1424, 2007.

Reviews

- 0340C002 D.Koya: New therapeutic strategy for diabetic nephropathy, *Journal of clinical and experimental medicine. Supplement.*, 220:1191–1195, 2007 (in Japanese) .
- 0340C005 D.Koya: Diagnosis and management of diabetic nephropathy, *Clinic all-round Sōgō rinshō.*, 56:2078–2082, 2007 (in Japanese) .

Short Communications

- 0340E001 (S.Araki), M.Haneda, D.Koya, H.Hidaka, T.Sugimoto, M.Isono, K.Isshiki, M.Chin-Kanasaki, T.Uzu, A.Kashiwagi: Reduction in microalbuminuria as an integrated indicator for renal and cardiovascular risk reduction in patients with type 2 diabetes, *Diabetes*, 56:1727–1730, 2007.

Presentations at Conference

International Conference (Symposium)

- 0340H001 M.Nishizawa: An important role of vagal pathways in incretin effect by GLP-1., 14th Japan-Korea Symposium on Diabetes Mellitus 2007, (Kyoto, '07.10), 14th Japan-Korea Symposium on Diabetes Mellitus 2007 –Diabetes and metabolic syndrome in Asia–, 77, 2007.
- 0340H002 D.Koya: Remission and regression of diabetic nephropathy and ITS perspective., 14th Japan-Korea Symposium on Diabetes Mellitus 2007, (Kyoto, '07.10), 14th Japan-Korea Symposium on Diabetes Mellitus 2007 –Diabetes and metabolic syndrome in Asia–, 93, 2007.
- 0340H003 (J.Honjo), Y.Makino, K.Okamoto, D.Koya, A.Kashiwagi, M.Haneda: Cyclic amp attenuates transforming growth factor- β (TGF- β)-induced increase in plasminogen activator inhibitor-1(pai-1) in human renal proximal tubular epithelial cells (rptec)., 14th Japan-Korea Symposium on Diabetes Mellitus 2007, (Kyoto, '07.10), 14th Japan-Korea Symposium on Diabetes Mellitus 2007 –Diabetes and metabolic syndrome in Asia–, 173, 2007.

- 0340H004 (S.Araki), H.Matsuno, M.Haneda, D.Koya, T.Uzu, A.Kashiwagi: Association between Activated platelet profile and albuminuria in patients with type 2 diabetes mellitus., 14th Japan-Korea Symposium on Diabetes Mellitus 2007, (Kyoto, '07.10), 14th Japan-Korea Symposium on Diabetes Mellitus 2007 –Diabetes and metabolic syndrome in Asia–, 186, 2007.
- 0340H005 S.Tsuda, S.Nakano, K.Konishi., D.Koya: Metabolic syndrome predicts end-stage renal disease rather than cerebral or cardiac vascular events in Japanese individuals., 14th Japan-Korea Symposium on Diabetes Mellitus 2007, (Kyoto, '07.10), 14th Japan-Korea Symposium on Diabetes Mellitus 2007 –Diabetes and metabolic syndrome in Asia–, 187, 2007.

International Conference (Presentations)

- 0340I001 M.Kitada, D.Koya: Resveratrol ameliorates diabetic nephropathy in db/db mice, similar to calorie restriction., 40th American society of Nephrology, (San Francisco, '07.10).

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
Professor	UMEHARA Hisanori	Hematology and Immunology
Professor	HIROSE Yuko	Hematology and Immunology, Transfusion Medicine
Associate Professor	FUKUSHIMA Toshihiro	Hematology and Immunology
Associate Professor	MASAKI Yasufumi	Hematology and Immunology
Senior Assistant Professor	TANAKA Masao	Rheumatology, Immunology
Assistant Professor	KAWANAMI Takafumi	Hematology and Immunology
Assistant Professor	JIN Zhexiong	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 L.Dong, Y.Masaki, T.Takegami, T.Kawanami, K.Itoh, Z.Jin, C.Huang, X.Tong, T.Fukushima, M.Tanaka, T.Sawaki, T.Sakai, S.Sugai, T.Okazaki, Y.Hirose, H.Umehara: Cloning and expression of two human recombinant monoclonal Fab fragments specific for EBV viral capsid antigen, *Int. Immunol.*, 19:331-336, 2007.
- 0350B002 L.Dong, Y.Masaki, T.Takegami, Z.Jin, C.Huang, T.Fukushima, T.Sawaki, T.Kawanami, T.Saeki, K.Kitagawa, S.Sugai, T.Okazaki, Y.Hirose, H.Umehara: Clonality analysis of lymphoproliferative disorders in patients with Sjögren's syndrome, *Clin. Exp. Immunol.*, 150:279-284, 2007.
- 0350B003 (S.Nakayamada), K.Saito, H.Umehara, N.Ogawa, T.Sumida, S.Ito, S.Minota, H.Nara, H.Kondo, J.Okada, T.Mimori, H.Yoshifuji, H.Sano, N.Hashimoto, S.Sugai, Y.Tanaka: Efficacy and safety of mizoribine for the treatment of Sjögren's syndrome: a multicenter open-label clinical trial, *Mod Rheumatol*, 17:464-469, 2007.
- 0350B004 L.Dong, Y.Masaki, M.Tanaka, T.Fukushima, T.Okazaki, H.Umehara: Sjögren's Syndrome and Lymphoma Development, *Curr. Immunol. Rev.*, 3:289-296, 2007.

- 0350B005 (K.Shimoyama), N.Ogawa, T.Sakai, T.Sawaki, T.Kawanami, H.Karasawa, Y.Masaki, M.Tanaka, T.Fukushima, Y.Hirose, H.Umehara: Analysis of clinical significance of anti-cyclic citrullinated peptide antibody (anti-CCP antibody) in rheumatoid arthritis(RA)., Japanese journal of clinical immunology., 30:408-413, 2007 (in Japanese) .
- 0350B006 T.Sawaki: Characterization of cultured minor salivary gland epithelial cells from patients with Sjögren's syndrome expressing chemokines, J. Kanazawa. Med. Univ., 32:203-210, 2007 (in Japanese) .

Reviews

- 0350C006 T.Kawanami, Y.Matsuzaki, T.Sawaki, T.Sakai, Z.Jin, Y.Masaki, T.Fukushima, M.Tanaka, H.Umehara: Identification of human salivary stem cells from cultured labial minor salivary cells, Japanese journal of clinical immunology., 30:455-460, 2007 (in Japanese) .

Others

- 0350F001 (T.Daniels), JS.Greenspan, DP.Cox, LA.Criswell, Y.DeSouza, Y.Dong, D.Greenspan, A.Heidenreich, S.Johansen, R.Jprdam, K.Kitagawa, H.Lanfranchi, K.Sack, M.Schidt, C.Shiboski, S.Shiboski, S.Sugai, H.Umehara, J.Whitcher, A.Wu, S.Zhng: Objective measures in Sjogren's syndrome are strongly associated with each other but not with sicca symptoms: Analysis of 564 enrollees in the SICCA international registry and repository, Arthritis Rheum., 56(Suppl.):S446, 2007.

Presentations at Conference

International Conference (Presentations)

- 0350I001 Y.Masaki, T.Sakai, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, Y.Hirose, H.Umehara: ATLL&HTLV1 Infection in Ishikawa, Japan., 13TH INT'L CONFERENCE ON HUMAN RETROVIROLOGY HTLV AND RELATED VIRUSES, (Hakone, '07.05).

0360 Department of Neurology

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Makoto	Clinical neurology, Neuroimmunology, Clinical Immunology
Associate Professor(Additional Post)	HORI Ariyuki	Medical education, Clinical neurology, Clinical sleep medicine, Neurophysiology, Medical informatics
Senior Assistant Professor	NAGAYAMA Shigeni	Clinical neurology, Neuroimmunology
Assistant Professor	KAWAMURA Kazuyuki	Clinical neurology, Neuroimmunology
Assistant Professor	NAGAISHI Akiko	Clinical neurology
Assistant Professor	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
Assistant Professor	KAITO Muichi	Clinical neurology
Assistant Professor	GONDO Yuichiro	Clinical neurology
Research Associate	ARAYA Shinichi	Neuroimmunology, Clinical Immunology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0360B001 S.Saiki, K.Sakai, K.Murata, M.Saiki, M.Nakanishi, Y.Kitagawa, M.Kaito, Y.Gondo, T.Kumamoto, M.Matsui, N.Hattori, G.Hirose: Primary skeletal muscle involvement in chorea-acanthocytosis, *Mov. Disord.*, 22:848-852, 2007.

Presentations at Conference

International Conference (Presentations)

- 0360I001 (K.Murata), A.Suzuki, T.Kihira, H.Miwa, M.Matsui, T.Kondo: Analysis of Alpha-Enolase Expression in Muscle from Patients with Inflammatory Myopathy, 132nd Annual Meeting American Neurological Association, (Washington, '07.10).
- 0360I002 M.Matsui: Treating NMO, 5th MS Forum Pan Asian Conference, (Taipei, '07.11).

0370 Department of Geriatric Medicine

Faculty

Title	Name	Field of Specialization
Professor	MORIMOTO Shigeto	Geriatrics, Hypertension, Calcium Metabolism, Dementia, Osteoporosis
Associate Professor	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Senior Assistant Professor	TSUCHIYA Hiroshi	Geriatrics, Circulation, Atherosclerosis
Senior Assistant Professor	NAKASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology
Senior Assistant Professor	MIYAUCHI Eiji	Geriatrics, Diabetes Mellitus, Endocrinology
Senior Assistant Professor	MURAI Hiroshi	Geriatrics, Gastroenterology, Dementia, Nutrition
Assistant Professor	OKURO Masashi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Assistant Professor	ISHIGAMI Keiichiro	Geriatrics, Hypertension, Atherosclerosis.
Research Doctor	OHASHI Isao	Geriatrics, Hypertension, Atherosclerosis
Research Doctor	OWARI Masaki	Geriatrics, Hypertension, Atherosclerosis
Research Doctor	KATO Shouzaburo	Geriatrics, Hypertension, Atherosclerosis

Keywords of Research

elderly, cardiac function, mitral stenosis, dynamic exercise, flow convergence region, dementia, computer, diastolic function, ultrasound, aortic distensibility, 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, cardiac output, carotid arterial elastic modulus, Hasegawa's dementia scale, eicosapentaenoic acid, nitrendipine

Outline of Research

The main fields of research of our Department are to elucidate pathogenesises 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 S.Saegusa, Y.Fei, T.Takahashi, H.Sumino, J.Moriya, K.Kawaura, J.Yamakawa, T.Itou, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Oral administration of candesartan improves the survival of mice with viral myocarditis through modification of cardiac adiponectin expression, *Cardiovasc Drugs Ther*, 21:155-160, 2007.
- 0370B002 T.Kanda, S.Saegusa, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto: Reduced-energy diet improves survival of obese KKAY mice with viral myocarditis: induction of cardiac adiponectin expression, *Int. J. Cardiol.*, 119:310-318, 2007.

Others

- 0370F001 S.Morimoto, T.Nakahashi, H.Orimo: The Japanese guidelines of the prevention and treatment of osteoporosis (2006 edition)(abridged), *Osteopro. Jpn.*, 15:351-355, 2007.
- 0370F002 T.Kanda, T.Takahashi, H.Sumino, T.Nakahashi, K.Iwai, S.Morimoto, M.Matsumoto: Hepatocyte growth factor and visfatin in elderly bedridden patients, *J. Am. Geriatr. Soc.*, 55:963-965, 2007.

Presentations at Conference

International Conference (Symposium)

- 0370H001 M.Atsumi, T.Nakahashi, H.Murai, K.Nomura, K.Ishigami, E.Miyauchi, H.Tsuchiya, K.Iwai, S.Morimoto: Blood pressure problems in refuge after Noto Hanto earthquake, The 8th china-japan joint hypertension symposium, (China, '07.11), 6th asian-pacific congress of hypertension 9th international symposium on hypertension and related diseases abstract, 115, 2007.
- 0370H002 H.Murai, S.Morimoto, T.Nakahashi, K.Nomura, M.Okuro, E.Miyauchi, H.Tsuchiya, K.Iwai, M.Matsumoto: The Relationship between senile dementia and hypertension-The Use of VSRAD, The 8th china-japan joint hypertension symposium, (China, '07.11), 6th asian-pacific congress of hypertension 9th international symposium on hypertension and related diseases abstract, 116, 2007.
- 0370H003 T.Nakahashi, M.Atsumi, H.Murai, K.Nomura, K.Ishigami, E.Miyauchi, H.Tsuchiya, K.Iwai, M.Yamaguchi, S.Morimoto: The effect of great earthquake on blood pressure, The 8th china-japan joint hypertension symposium, (China, '07.11), 6th asian-pacific congress of hypertension 9th international symposium on hypertension and related diseases abstract, 117, 2007.

International Conference (Presentations)

- 0370I001 T.Kanda, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto: Candesartan Improves Myocardial Damage in Obese Mice with Viral Myocarditis and Induces Cardiac Adiponectin., 4th Annual Symposium of the American Heart Association Council on Basic Cardiovascular Sciences, (Keystone USA, '07.07), American Heart Association, :13, 2007.
- 0370I002 T.Takahashi, K.Nomura, H.Honda, T.Nakahashi, T.Kanda, S.Morimoto: Seroprevalence of Human Metapneumovirus in Elderly Inpatients in Japan, 45th Annual Meeting of IDSA, (SanDiego USA, '07.10), Final Program and Abstracts, :224-225, 2007.

0380 Department of Pediatrics

Faculty

Title	Name	Field of Specialization
Professor	TAKAHASHI Hiroaki	Pediatric endocrinology
Professor	KOH Eikan	Pediatric cardiology
Professor(Additional Post)	KAKINUMA Hiroaki	Child neurology, Inborn errors of metabolism, Clinical genetics
Senior Assistant Professor	YANASE Takuya	Pediatric hematology, Pediatric nephrology
Senior Assistant Professor	NAKAMURA Tsuneyuki	Pediatric cardiology
Senior Assistant Professor	KOBAYASHI Azusa	Neonatology
Assistant Professor	NAKAMURA Toshimi	Pediatric allergy, Pediatric immunology
Assistant Professor	ITO Masatsune	Pediatric endocrinology, Pediatric metabolism, Inborn errors of metabolism.
Assistant Professor	YAMAMURA Junichi	Pediatric Psychosomatic Disorder, Infectious Disease of Childhood, Clinical Virology, Fast and Easy Detection System for Infectious agent
Assistant Professor	FUJIKI Takuma	Pediatric nephrology
Assistant Professor	SATO Hitoshi	Infectious disease in children, Molecular biology, Child neurology, Inborn errors of metabolism
Assistant Professor	OKADA Naoki	Pediatric hematology, Pediatric oncology
Assistant Professor	IKEDA Tomomi	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, Adriamycin-induced cardiomyopathy, methylmalonic acidemia, infant botulism, leukemia in children, juvenile diabetes, congenital adrenal hyperplasia, congenital heart disease, arrhythmia in childhood

Outline of Research

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

Publications

Originals

- 0380B001 T.Nakamura, J.Yamamura, H.Sato, H.Kakinuma, H.Takahashi: Vasculitis induced by immunization with Bacillus Calmette-Guerin followed by atypical mycobacterium antigen: a new mouse model for Kawasaki disease, *FEMS Immunol. Med. Microbiol.*, 49:391-397, 2007.
- 0380B002 A.Nakagawa, K.Ueno, M.Ito, S.Okamoto, K.Uehara, H.Ito, S.Mishina, E.Kinoshita, T.Nojima, H.Takahashi, H.Ikawa, S.Takashima, M.Nishizawa, S.Nakano, T.Kigoshi, H.Nakabayashi, K.Uchida: Insulin responses to selective arterial calcium infusion under hyperinsulinemic euglycemic glucose clamps: case studies in adult nesidioblastosis and childhood insulinoma, *Endocr. J.*, 54:27-33, 2007.

- 0380B004 Y.Matsue, T.Nakamura, H.Sato, C.Akita, M.Hiramatsu, T.Kito, C.Kitaoka, J.Yamamura, T.Ikeda, T.Fujiki, M.Ito, A.Kobayashi, T.Nakamura, H.Kakinuma, E.Koh, H.Takahashi: Clinical importance of basic life support in childhood submersion, *Japanese journal of pediatrics.*, 60:1195-1199, 2007 (in Japanese) .
- 0380B006 M.Ito: Functional studies of a duplication mutation of valine at 235 by a transient expression assay in a boy with MCT8 deficiency, *J. Kanazawa. Med. Univ.*, 32:156-161, 2007 (in Japanese) .
- 0380B007 K.Sasano, H.Kakinuma, M.Hiramatsu, T.Nakamura, K.Takekawa: Current state and demand of pediatric emergency services recognized by guardians in Ishikawa prefecture, *Hokuriku Japanese Journal of Public Health.*, 34:29-34, 2007 (in Japanese) .
- 0380B008 M.Hiramatsu, T.Nakamura, H.Sato, K.Takekawa, K.Sasano, H.Kakinuma: The questionnaire survey of the current situation in the pediatric emergency for the residents in Ishikawa prefecture, *Japanese Society of Emergency Pediatrics.*, 6:216-223, 2007 (in Japanese) .

Case Reports

- 0380D001 H.Kakinuma, A.Hori, M.Ito, T.Nakamura, H.Takahashi: An inherited disorder characterized by repeated episodes of bilateral ballism: a case report, *Mov. Disord.*, 22:2110-2131, 2007.

0390 Department of Neuropsychiatry

Faculty

Title	Name	Field of Specialization
Professor	JIBIKI Itsuki	Shizophrenia, Epilepsy, Brain imaging, Psychopharmacology, Senile Dementia, Senile Psychosis
Associate Professor	KUBOTA Takashi	Schizophrenia, Psychopharmacology, Epilepsy
Senior Assistant Professor	IWASAKI Shinzo	Psycho Physiology, Neuropsychology, Brain Imaging
Senior Assistant Professor	NAKAGAWA Haruo	Psycho Physiology, Psychotherapy, Senile Psychosis
Senior Assistant Professor	WATANABE Kenichiro	Neuropsychology, Neuropharmacology
Senior Assistant Professor	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
Assistant Professor	ENATSU Igaku	Senile Psychosis
Assistant Professor	KAMEHIRO Maya	Psychosomatic Medicine
Assistant Professor	KOIZUMI Hazuki	Clinical Psychology, Cognitive-behavioral therapy
Assistant Professor	KOIWA Daisuke	Brain imaging, Schizophrenia
Assistant Professor	NANNO Hisatoshi	Schizophrenia
Assistant Professor	HIROYASU Kiwamu	Molecular Psychiatry, Schizophrenia, Epilepsy
Assistant Professor	ISHIKAWA Akira	Schizophrenia, Psychopharmacology
Assistant Professor	KAWAMURA Tomomi	Psychopharmacology, Neuropsychology
Assistant Professor	SHIMIZU Satoru	Brain imaging
Assistant Professor	MASUDA Shinji	Schizophrenia

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0390B001 A.Monkawa: Study on effects of an atypical antipsychotic agent, quetiapine, on regional cerebral blood flow with ^{99m}Tc-ECD SPECT in drug-naïve or unmedicated schizophrenic patients, J. Kanazawa. Med. Univ., 32:192-202, 2007 (in Japanese) .

Case Reports

- 0390D004 S.Kamoda, F.Enokido, I.Jibiki: Two cases of insomnia successfully treated with Yoku-kan-san, Journal of Japanese Association of Oriental Psychosomatic Medicine., 22:62-66, 2007 (in Japanese) .

Others

- 0390F001 K.Hiroyasu, I.Jibiki: Expression of voltage-gated potassium ion channel gene KCNQ3 in mouse thymus, NEUROLOGY ASIA, 12:107, 2007.

Presentations at Conference

International Conference (Presentations)

- 0390I001 Shinzo Iwasaki, Akira Ishikawa, Sachiko Kamoda, Itsuki jibiki: A Case Diagnosed Lissauer's Type of General Paresis with Paralysis Attack, WPA Regional Meeting 2007 Seoul, (Seoul, '07.04), WPA Regional Meeting 2007 Seoul, :149, 2007.
- 0390I002 S.Kamoda, H.Kawada, I.Jibiki: Four cases that combination therapy of donepezil and yoku-kan-san did success of in patient with dementia, WPA Regional Meeting 2007 Seoul, (Korea, '07.04).
- 0390I003 Hazuki Koizumi, Itsuki Jibiki: Cognitive-behavioral therapy program for the recurrent abdominal pain in children who refuse to attend schools, World Congress of Behavioural and Cognitive Therapies, (Spain, '07.07).
- 0390I004 Satoru Shimizu, Ken-ichiro Watanabe, Xudong Li, Tomomi Kawamura, Takashi Kubota, Itsuki Jibiki: A Study on Correlations Between Z-scores of VSRAD and Results of Neuropsychological Tests in Patients with Alzheimer's Disease, 22th Annual Meeting of the Japanese Psychogeriatric Society., (Osaka, '07.10), Psychogeriatrics, 7:A23, 2007.

0400 Department of Diagnostic and Therapeutic Radiology

Faculty

Title	Name	Field of Specialization
Professor	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
Professor	HIGASHI Kotaro	Oncologic Nuclear Medicine
Associate Professor	MAToba Munetaka	Interventional Radiology, Diagnostic Imaging
Associate Professor	YOKOTA Hajime	Gastrointestinal Radiology, MR Spectroscopy
Senior Assistant Professor	OGUCHI Manabu	Radiation Therapy, Nuclear Medicine
Senior Assistant Professor	TANIGUCHI Mitsuru	Cardiac Nuclear Medicine
Senior Assistant Professor(Additional Post)	KUGINUKI Yasuaki	Diagnostic Imaging
Senior Assistant Professor	NISHIKAWA Takahiro	Nuclear Medicine, Diagnostic Imaging
Assistant Professor	OTA Kiyotaka	Radiation Therapy
Assistant Professor	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging.
Assistant Professor(Additional Post)	YABUNO Yoshinori	Diagnostic Imaging

Keywords of Research

MRI, MRS, CT, US, IVR, radiotherapy, RI, PET, BAI, lung cancer, perfusion, diffusion, FDG, MTC, radiosurgery, brachithrapy, PEI, Sjögren, radiation, MRA, MRCP, color doppler, bone mineral, biopsy, RN, upper GI, TAE, meltaic 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 M.Matoba, H.Tonami, T.Kondou, H.Yokota, K.Higashi, H.Toga, T.Sakuma: Lung Carcinoma : diffusion-weighted MR imaging-preliminary evaluation with apparent diffusion coefficient, *Radiology.*, 243:570-577, 2007.
- 0400B002 H.Yokota, J.Guo, M.Matoba, K.Higashi, H.Tonami, Y.Nagao: Lactate, choline, and creatine levels measured by vitro ¹H-MRS as prognostic parameters in patients with non-small-cell lung cancer, *J. Magn. Reson. Imaging.*, 25:992-999, 2007.
- 0400B003 (M.Saiki), S.Saiki, K.Sakai, I.Matsunari, K.Higashi, K.Murata, N.Hattori, G.Hirose: Neurological deficits are associated with increased brain calcinosis, hypoperfusion, and hypometabolism in idiopathic basal ganglia calcification, *Mov. Disord.*, 22:1027-1030, 2007.

Case Reports

- 0400D001 H.Yokota, M.Matoba, H.Tonami, T.Hasegawa, H.Saito, N.Kurose: Imaging findings in primary adenosquamous carcinoma of the liver : a case report, *Clin. Imaging.*, 31:279-282, 2007.

0410 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
Professor	AKITA Toshiaki	Cardiovascular surgery
Professor	SAKAMOTO Shigeru	Cardiovascular surgery
Professor	SHIKATA Hiroo	Vascular surgery, Respiratory surgery
Associate Professor	HIDA Kenji	Vascular surgery
Senior Assistant Professor	NAGAYOSHI Yasuhiro	Cardiovascular surgery
Senior Assistant Professor	NISHIZAWA Hisateru	Cardiovascular surgery
Assistant Professor	KANNO Masaaki	Cardiovascular surgery
Assistant Professor	KOBATA Takashi	Vascular surgery
Assistant Professor	HASEGAWA Hiroki	Cardiovascular surgery
Assistant Professor	NONAKA Toshimichi	Cardiovascular surgery
Assistant Professor	NOGUCHI Yasuhisa	Cardiovascular surgery
Assistant Professor	KIYOSAWA Jun	Cardiovascular surgery
Research Doctor	MIZUNO Fumito	Vascular surgery

Keywords of Research

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

Outline of Research

- 1.Elucidation of different mechanism for ischemia-reperfusion injury of immature and mature heart; Development of cardioplegia specific for neonate cardiac surgery.
- 2.Development of tailor-made cardiac reshaping net for heart failure patients
- 3.Endovascular stent-grafting for aortic aneurysm
- 4.Minimally invasive catheter ablation for varicose vein

Publications

Originals

- 0410B001 T.Kobata, K.Hida, H.Shikata, S.Sakamoto, J.Matsubara: Comparative study of endovenous radiofrequency obliteration and surgical stripping for saphenous varicosis examined by air plethysmography, The Japanese journal of phlebology., 18:151-156, 2007 (in Japanese) .
- 0410B002 J.Matsubara, N.Shiiya, A.Ishida, T.Miyata, H.Shigematsu, Y.Obitsu, T.Shindo, K.Hida, T.Ohta, M.Ando, T.Nishibe, T.Kawasaki, T.Yasugi, T.Onohara: Current status of medication therapy for arteriosclerosis obliterans (ASO) in university hospitals in Japan, The journal of Japanese College of Angiology., 47:153-162, 2007 (in Japanese) .

Case Reports

- 0410D001 T.Nonaka, M.Kanno, H.Shikata, S.Sakamoto, J.Matsubara, M.Kanno: A resected case of giant primary venous aneurysm of the median antebrachial vein, The journal of Japanese College of Angiology., 47:111-116, 2007 (in Japanese) .
- 0410D002 H.Shikata, Y.Ueda, H.Nishizawa, K.Hida, J.Matsubara: A case of invasive group a streptococcal infection resembling phlegmasia cerulea dolens-a case of toxic shock-like syndrome-, The Journal of the Japanese Practical Surgeon Society., 68:1088-1092, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0410I001 T.Kobata, K.Hida, H.Shikata, S.Sakamoto, J.Matsubara: Comparative study of endovenous radiofrequency obliteration and surgical stripping for saphenous varicosis examined by air plethysmography, World congress of the international union of phlebology Asian chapter meeting, (Kyoto, '07.06).
- 0410I002 T.Kobata: Comparative study of endovenous radiofrequency obliteration and surgical stripping for saphenous varicosis, 8th International Congress of the Asian Society for Vascular Surgery, (China, '07.11).

0420 Department of Surgical Oncology

Faculty

Title	Name	Field of Specialization
Professor	TAKASHIMA Shigeki	Surgical treatment of gastrointestinal cancer – especially gastric cancer and colorectal cancer
Professor	KOSAKA Takeo	Surgical treatment of gastric cancer
Professor	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Senior Assistant Professor	NAKANO Yasuharu	Surgery of breast cancer
Senior Assistant Professor	OMOTE Kazuhiko	Surgical treatment of gastric cancer
Senior Assistant Professor	YOSHITANI Shinichiro	Surgery of colorectal cancer
Senior Assistant Professor	TANAKA Yumiko	Surgery of colorectal cancer
Assistant Professor	SUGAYA Junichi	Surgery of gastric cancer
Assistant Professor	HASEGAWA Taisuke	Surgery of hepatobiliary diseases
Assistant Professor	MUKAI Hirokado	Surgery of digestive disease
Assistant Professor	OYAMA Katsunobu	Surgery of colorectal cancer
Assistant Professor	YOKOI Miki	Surgery of digestive disease
Assistant Professor	KURODA Masatoshi	Surgery of colorectal cancer
Assistant Professor	HAYASHI Kei	Surgery of digestive disease

Keywords of Research

gastric cancer, lymph node metastasis, colorectal cancer, hepatic metastasis, hepatic resection, pancreas cyst, cystic tumor, interleukin 6, biliary drainage, cytokine, laparoscopic cholecystectomy, choledocholithiasis, chemotherapy, biochemical modulation, hepatolithiasis, pancreatic injury, bile duct cancer, pancreatic cancer, panperitonitis, gallbladder cancer, tumor marker, duodenal cancer, pancreaticoduodenectomy, abdominal injury, esophageal achasia, neoadjuvant chemotherapy, multiple organ injury, ileus, pancreatitis, breast cancer

Outline of Research

- ① Study on carcinogenesis of gastrointestinal cancer
- ② Treatment of peritonitis carcinomatosa
- ③ Strategy for hematogenous metastasis
- ④ Study on usefulness of Endotoxin adsorption therapy (PMX-DHP) for acute diffuse peritonitis accompanying large intestinal perforation
- ⑤ Clinical evaluation of reconstructive method after gastrointestinal operation

Publications

Originals

- 0420B001 K.Hayashi, R.Suzuki, S.Miyamoto, S.Yoshitani, H.Kohno, S.Sugie, S.Takashima, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplastic lesions in C57BL/KsJ-*db/db* mice, *Nutr. Cancer.*, 58:75-84, 2007.

- 0420B002 A.Nakagawa, K.Ueno, M.Ito, S.Okamoto, K.Uehara, H.Ito, S.Mishina, E.Kinoshita, T.Nojima, H.Takahashi, H.Ikawa, S.Takashima, M.Nishizawa, S.Nakano, T.Kigoshi, H.Nakabayashi, K.Uchida: Insulin responses to selective arterial calcium infusion under hyperinsulinemic euglycemic glucose clamps: case studies in adult nesidioblastosis and childhood insulinoma, *Endocr. J.*, 54:27-33, 2007.
- 0420B003 H.Saito, M.Kuroda, K.Matsuzawa, Y.Tanaka, T.Hasegawa, S.Yoshitani, T.Kosaka, S.Takashima: The usefulness and limitations of PMX-DHP for the treatment of SIRS caused by lower gastrointestinal perforation, *Jornal of Japan Society for Surgical Infection.*, 4:181-188, 2007 (in Japanese) .

Case Reports

- 0420D001 H.Yokota, M.Matoba, H.Tonami, T.Hasegawa, H.Saito, N.Kurose: Imaging findings in primary adenosquamous carcinoma of the liver : a case report, *Clin. Imaging.*, 31:279-282, 2007.
- 0420D002 K.Sato, Y.Ueda, J.Sugaya, M.Ozaki, M.Hisaoka, S.Katsuda: Extruterine endometrial stromal sarcoma with JAZF1/JJAZ1 fusion confirmed by RT-PCR and interphase FISH presenting as an inguinal tumor, *Virchows Arch.*, 450:349-353, 2007.

Presentations at Conference

International Conference (Presentations)

- 0420I001 (S.Miyamoto), K.Hayashi, R.Suzuki, H.Kohno, S.Sugie, S.Takashima, A.Murakami, H.Ohigashi, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplasia in *db/db* mice, 98th Annual Meeting of American Association for Cancer Research, (Los Angeles, '07.04).
- 0420I002 S.Yoshitani, M.Kuroda, S.Takashima: Clinical evaluation of postoperative adjuvant immunochemotherapy for elderly patients with colorectal cancer, 42nd World congress of the international society of surgery, (Montreal, '07.08).
- 0420I003 S.Yoshitani, T.Hasegawa, S.Takashima: Clinical significance of peritoneal lavage cytology for colorectal cancer, International association of surgeons, gastroenterologists and oncologists, (Bucharest, '07.09).
- 0420I004 S.Takashima, K.Matsuzawa, T.Hasegawa, S.Yoshitani, H.Saito: Study on usefulness of endotoxin adsorption therapy (PMX-DHP) for acute diffuse peritonitis accompanying large intestinal perforation, nternational association of surgeons, gastroenterologists and oncologists, (Bucharest, '07.09).

0430 Department of Orthopedics Surgery

Faculty

Title	Name	Field of Specialization
Professor	MATSUMOTO Tadami	Hip surgery
Associate Professor(Additional Post)	OKADA Masato	Peripheral nerve surgery, Trauma
Senior Assistant Professor	FUJITA Takuya	Spinal surgery
Senior Assistant Professor	KANEUJI Ayumi	Hip and Knee surgery, Sports medicine
Senior Assistant Professor	YOKOYAMA Mitsuteru	Hand surgery, Trauma
Senior Assistant Professor	OKUDA Tetsuhito	Spinal surgery
Senior Assistant Professor	SUGIMORI Tanzo	Hip and Knee surgery, Sports medicine
Senior Assistant Professor	MAEOKA Hayato	Trauma
Assistant Professor	OGASAWARA Masataka	Hip surgery
Assistant Professor	NOUTOMI Kenji	Joint surgery
Assistant Professor	HOSOKAWA Hidetaka	Spinal surgery
Assistant Professor	ICHISEKI Toru	Hip surgery
Assistant Professor	KITAMURA Kenji	Hip surgery
Assistant Professor	HATANO Eiju	Spinal surgery
Assistant Professor	HIROMURA Kentaro	Trauma
Assistant Professor	FUKUI Kiyokazu	Hip surgery
Assistant Professor	YASUDA Yoshihito	Spinal surgery
Assistant Professor	YAMADA Kengo	Hip surgery
Assistant Professor	MIAKI Kohei	Hip surgery

Keywords of Research

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

Outline of Research

There are three types of proximal femur in Japanese hip osteoarthritis patients and we are developing a new femoral prosthesis that would be more suitable for the Japanese patient using a computer aided design system. Additionally we are researching some factors such as an intravascular obstructive lesion or oxidative stress that would be a cause for steroid induced osteonecrosis of femoral head to prevent the occurrence of the disease. Furthermore, we have been trying to elucidate the mechanism of degeneration of lumbar disc. It has been reported that apoptosis of vertebral disc cells occurs in the degenerative intervertebral disc. However, its molecular mechanism remains to be defined. The gene expression of Bax and Bcl-2 was analyzed in degenerative intervertebral disc. As a result, mechanical stress of the disc induces apoptosis through Bax, reducing the number of cells and the synthesis of extracellular matrix proteins and resulting in the degeneration of the disc.

Publications

Originals

- 0430B001 T.Okuda, T.Fujita, A.Kaneuji, K.Miaki, Y.Yasuda, T.Matsumoto: Stage-specific sagittal spinopelvic alignment changes in osteoarthritis of the hip secondary to developmental hip dysplasia, *Spine*, 32:E816–E819, 2007.
- 0430B004 T.Fujita, T.Okuda, E.Hatano, Y.Yasuda, T.Matsumoto: Clinical results of computer navigation-assisted minimally invasive TLIF (MIS-TLIF), *Surgical Technique for Spine and Spinal Nerves.*, 9:75–78, 2007 (in Japanese) .
- 0430B010 J.Tomidokoro: Micro-motion of the cemented femoral stems of different surface finish in total hip arthroplasty, *J. Kanazawa. Med. Univ.*, 32:183–191, 2007 (in Japanese) .

Reviews

- 0430C001 T.Matsumoto, K.Kitamura, T.Ichiseki, A.Kaneuji, T.Sugimori: Oxidative stress on idiopathic osteonecrosis, *Clin. Calcium*, 17:887–891, 2007 (in Japanese) .

Others

- 0430F001 T.Fujita, T.Okuda, H.Hosokawa, E.Hatano, Y.Yasuda, T.Matsumoto: Minimally invasive TLIF (MIF-TLIF) via a unilateral approach, *The journal of the Japan Spine Research Society.*, 18:665–668, 2007.

Presentations at Conference

International Conference (Key Note Lecture)

- 0430G001 T.Matsumoto: Osteonecrosis might be preventable —The view point of oxidative stress—, *The 51th Annual Meeting of the Korean Hip Society*, (GwangJu, '07.05).

International Conference (Presentations)

- 0430I001 A.Kaneuji, K.Yamada, T.Matsumoto, K.Hirosaki, M.Takano: Stem subsidence in polished and rough stems and mechanical effect on the cement–bone interface, *07'Asia Pacific Hip Symposium*, (Singapore, '07.06).
- 0430I002 A.Kaneuji, K.Yamada, T.Matsumoto, K.Hirosaki, M.Takano: Stem–cement subsidence effects cement–bone interface, *6th Asia Pacific Orthopaedic Symposium 2007 (APOS 2007)*, (Bangkok, '07.06).
- 0430I003 T.Okuda, T.Fujita, H.Hosokawa, E.Hatano, Y.Yasuda, T.Matsumoto: The influences of osteoarthritis of the hip joint for spino–pelvic alignment and intervertebral disc in lumbar spine, *34th Annual Meeting of the International Society for the Study of the Lumbar Spine (ISSLS 2007)*, (Hong–Kong, '07.06).
- 0430I004 T.Okuda, T.Iseda, N.Kane–Goldsmith, Y.–W.Chang, W.Young, M.Grudet: Does Single, high–dose intraspinal injection of chondroitinase within 1 hour after injury reduce GAGs in injured spinal cord?, *Neuroscience 2007*, (San Diego, '07.11).

0440 Department of Neurosurgery

Faculty

Title	Name	Field of Specialization
Professor	IIZUKA Hideaki	spinal disease, brain tumor, peripheral nerve disease
Associate Professor	AKAI Takuya	brain tumor, pediatric neurosurgical disease
Associate Professor	TACHIBANA Osamu	brain tumor, hypothalamic and pituitary tumor
Senior Assistant Professor	IIDA Takaaki	spinal disease, peripheral nerve disease
Senior Assistant Professor	TAKADA Hisashi	crebrovascular disease, head injury, interventional neurosurgery
Senior Assistant Professor	OKAMOTO Kazuya	brain tumor, stereotactic radiosurgery
Assistant Professor	SASAGAWA Yasuo	brain tumor
Assistant Professor	SIRAGA Syunsuke	general neurosurgery
Assistant Professor	MURASAKA Kenshi	general neurosurgery
Assistant Professor	YAMAMOTO Kenji	general neurosurgery
Assistant Professor	YAMAMOTO Jiro	general neurosurgery
Research Doctor	TORIGOE Keiichiro	general neurosurgery
Research Doctor	SAKAI Sotaro	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 (S.Hasegawa), N.Hayashi, M.Kubo, H.Hamada, N.Kuwayama, H.Shojaku, T.Akai, S.Endou: Basal encephalocele associated with hypoplasia of the internal carotid artery. -Case report-, *Neurol. Med. Chir. (Tokyo)*, 47:572-575, 2007.

Others

0440F001 T.Akai: Neurodevelopment of children with single suture craniosynostosis: a review, *Nervous system in children.*, 32:325-327, 2007 (in Japanese) .

0440F002 T.Akai: Fully endoscopic expanded endonasal approach treating skull base lesions in pediatric patients, *Nervous system in children.*, 32:400-401, 2007 (in Japanese) .

Presentations at Conference

International Conference (Key Note Lecture)

0440G001 H.Iizuka, T.Iida: Clinical significance of the canal diameter of the atlas in upper cervical instability, 13th Interim meeting of WFNS/12th Asian-Australasian congress of neurological surgeons, (Nagoya, '07.11).

International Conference (Presentations)

0440I001 T.Akai, S.Siraga, Y.Sasagawa, K.Okamoto, O.Tachibana, H.Iizuka: Diagnosis and treatment of currarino anomaly, the 6th biennial meeting of Korea-Japan conference on spinal surgery, (Pusan Korea, '07.03).

0440I002 T.Iida, T.Akai, H.Iizuka: Surgical treatment of spinal disorders with chronic renal failure, The 6th biennial meeting of Korea-Japan conference on spinal surgery, (Pusan Korea, '07.03).

0440I003 O.Tachibana, Y.Sasagawa, K.Torigoe, S.Siraga, K.Murasaka, K.Okamoto, T.Akai, H.Iizuka: Expression of interleukin-1 beta, interleukin-6 and TNF-alpha in human Rathke cleft cysts: a possible inducer of Rathke cleft cyst-associated hypophysitis, The 5th meeting of the Asian society for neuro-oncology, (Istanbul Turkey, '07.11).

0440I004 T.Akai, K.Murasaka, S.Siraga, K.Okamoto, T.Iida, H.Takada, O.Tachibana, H.Iizuka: Ventriculo-peritoneal shunt for children, World federation of neurological societies 13th interim meeting/12th Asian-Australasian congress of neurological surgeons, (Nagoya, '07.11).

0440I005 T.Akai, K.Yamamoto, S.Siraga, K.Murasaka, H.Iizuka: Treatment of craniosynostosis by distraction osteogenesis, World federation of neurological societies 13th interim meeting/12th Asian-Australasian congress of neurological surgeons, (Nagoya, '07.11).

0440I006 T.Akai, S.Siraga, Y.Sasagawa, K.Okamoto, O.Tachibana, H.Iizuka: Intra-parenchymal tumor biopsy by neuroendoscope under navigation, World federation of neurological societies 13th interim meeting/12th Asian-Australasian congress of neurological surgeons, (Nagoya, '07.11).

0440I007 Y.Sasagawa, O.Tachibana, H.Yokota, K.Murasaka, S.Siraga, T.Akai, H.Tonami, H.Iizuka: Usefulness of 1H-MRS in the diagnosis of Rathke cleft cyst, The 5th meeting of the Asian society for neuro-oncology, (Istanbul Turkey, '07.11).

- 0440I008 K.Okamoto, O.Tachibana, T.Akai, H.Iizuka: Prognostic analysis of MGMT and p53 immunohistochemical expression in patients with glioblastoma treated in the same protocol as surgery, radiotherapy and ACNU, The 5th meeting of the asian society for neuro-oncology, (Istanbul Turkey, '07.11).
- 0440I009 T.Akai, S.Siraga, Y.Sasagawa, K.Okamoto, H.Iizuka: Intra-parenchymal tumor biopsy by neuroendoscope under navigation, fourth world conference of the international study group of neuroendoscopy, (France, '07).

0450 Department of Plastic and Reconstructive Surgery

Faculty

Title	Name	Field of Specialization
Professor	KAWAKAMI Shigehiko	Plastic and Reconstructive Surgery
Senior Assistant Professor	SHIMADA Kenichi	Plastic and Reconstructive Surgery
Senior Assistant Professor	YOSHIDA Jun	Plastic and Reconstructive Surgery
Senior Assistant Professor	KISHIBE Miyuki	Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMAMOTO Yasunori	Plastic and Reconstructive Surgery
Assistant Professor	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
Assistant Professor	NISHIBU Yasuhiro	Plastic and Reconstructive Surgery
Assistant Professor	KUROSAWA Tomoko	Plastic and Reconstructive Surgery
Assistant Professor	HIMI Yuji	Plastic and Reconstructive Surgery
Assistant Professor	SHINOKAWA Yasuo	Plastic and Reconstructive Surgery
Assistant Professor	ENOMOTO Jin	Plastic and Reconstructive Surgery
Assistant Professor	HARASHIMA Youto	Plastic and Reconstructive Surgery
Assistant Professor	MORITA Reiji	Plastic and Reconstructive Surgery
Assistant Professor	MIYASHITA Matsuki	Plastic and Reconstructive Surgery
Assistant Professor	SATSUKI Reiko	Plastic and Reconstructive Surgery
Research Doctor	IKEDA Kenichi	Plastic and Reconstructive Surgery
Research Doctor	DAIZO Haruhisa	Plastic and Reconstructive Surgery

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0450B001 R.Morita, K.Shimada, S.Kawakami: Facial protection masks after fracture treatment of the nasal bone to prevent re-injury in contact sports, J Craniofac Surg, 18:143-145, 2007.
- 0450B002 K.Shimada, N.Ishikura, T.Heshiki, S.Kawakami: Treatment for chronic abscess after cranioplasty: reconstruction of dura maters using the anterolateral tight flap with fascia lata, J Craniofac Surg, 18:1305-1308, 2007.
- 0450B003 (T.Ueno), Y.Yamamoto, N.Osakada, A.Sakurai: Long-term results of nuss method in a child, The Japanese journal of plastic & reconstructive surgery., 50:407-414, 2007 (in Japanese) .

Reviews

- 0450C005 K.Shimada, S.Kawakami: Diagnosis and treatment of soft tissue sarcoma; dermatofibrosarcoma protuberance, angiosarcoma, liposarcoma, malignant fibrous hystiocytoma, The Japanese journal of plastic & reconstructive surgery., 50:1153-1164, 2007 (in Japanese) .
- 0450C006 J.Yoshida, S.Kawakami: Duble jaw fractures, The Japanese journal of plastic & reconstructive surgery., 50:1291-1302, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0450I001 T.Miyanaaga, S.Kawakami, S.Katsuda, Y.Ueda, M.Shimasaki: Degradation and Absorption Processes of Hyaluronic Acid Filler Injected in, 17th Japan-China Joint Meeting on Plastic Surgery, (Tokyo, '07.10).
- 0450I002 Y.Himi, J.Yoshida, R.Morita, A.Nishio, S.Kawakami: Philtrum ridge reconstruction with palmaris longus tendon in secondary cleft lip repair, 17thJapan-China Joint Meeting on Plastic Surgery, (Tokyo, '07.10).

0460 Department of Pediatric Surgery

Faculty

Title	Name	Field of Specialization
Professor	IKAWA Hironichi	Pediatric surgery, Defecatory function, Liver transplantation
Associate Professor	KOHNO Miyuki	Pediatric surgery, Pediatric endoscopic surgery, Pediatric urology
Senior Assistant Professor	KONUMA Kunio	Pediatric surgery, Anorectal malformations, Pediatric laryngo tracheo surgery
Senior Assistant Professor	MASUYAMA Hiroaki	Pediatric surgery, Liver transplantation
Assistant Professor	FUKUMOTO Hironori	Pediatric surgery
Assistant Professor	OGAWA Eri	Pediatric surgery
Research Doctor	OSHIKIRI Takahiro	Pediatric surgery

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0460B001 M.Kohno, H.Ikawa, K.Konuma, H.Masuyama, H.Fukumoto, E.Morimura: Is high amplitude propagated contraction present after transanal endorectal pull-through for Hirschsprung's disease?, *Pediatr. Surg. Int.*, 23:981-986, 2007.
- 0460B002 Y.Inoue, T.Shinka, M.Ohse, M.Kohno, K.Konuma, H.Ikawa, T.Kuhara: Changes in urinary level and configuration ratio of D-lactic acid in patients with short bowel syndrome, *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.*, 855:109-114, 2007.
- 0460B003 A.Nakagawa, K.Ueno, M.Ito, S.Okamoto, K.Uehara, H.Ito, S.Mishina, E.Kinoshita, T.Nojima, H.Takahashi, H.Ikawa, S.Takashima, M.Nishizawa, S.Nakano, T.Kigoshi, H.Nakabayashi, K.Uchida: Insulin responses to selective arterial calcium infusion under hyperinsulinemic euglycemic glucose clamps: case studies in adult nesidioblastosis and childhood insulinoma, *Endocr. J.*, 54:27-33, 2007.
- 0460B004 K.Konuma, H.Ikawa, M.Kohno, H.Masuyama, H.Fukumoto, E.Ogawa, T.Oshikiri: Long-term follow-up for postoperative anorectal malformations: problems in male patients of high and intermediate type, *Japanese journal of pediatric surgery ; Shonika.*, 39:1183-1191, 2007 (in Japanese) .

Reviews

- 0460C002 H.Masuyama, T.Oshikiri, E.Ogawa, H.Fukumoto, K.Konuma, M.Kohno, H.Ikawa: Infectious complications in living donor liver transplantation, Japanese journal of pediatric surgery ; Shoni geka., 39:1431-1437, 2007 (in Japanese) .

Case Reports

- 0460D001 M.Kohno, H.Ikawa, S.Okamoto, H.Fukumoto, H.Masuyama, K.Konuma: Laparoscopic repair of late-presenting bochdalek hernia in 2 infants, Surg. Laparosc. Endosc. Percutan. Tech., 17:317-321, 2007.

0470 Department of Ophthalmology

Faculty

Title	Name	Field of Specialization
Professor	SASAKI Hiroshi	cataract, epidemiology, uveitis.
Professor	NAKAIZUMI Hiroko	intraocular lens, strabismus amblyopia, blepharospasm, pediatric ophthalmology.
Professor	KITAGAWA Kazuko	ocular infection, Sjogren's syndrome, keratoconjunctivitis sicca, lacrimal fluid, proteomics.
Associate Professor(Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology.
Senior Assistant Professor	FUKUDA Masamichi	ocular pharmacology, intraocular, penetration.
Assistant Professor	NAGAI Kouta	cataract, epidemiology,
Assistant Professor	KAWAKAMI Yutaka	cataract, thyroid ocular.
Assistant Professor	FUJITA Nobuyuki	uveitis
Assistant Professor	HAGIWARA Kenta	ocular infection
Research Doctor	NAKANO Tarou	cataract
Research Doctor	YAGUCHI Hiromoto	corneal epithelium, glaucoma.

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0470B001 M.Kojima, L.Sun, I.Hata, Y.Sakamoto, H.Sasaki, K.Sasaki: Efficacy of α -lipoic acid against diabetic cataract in rat, *Jpn. J. Ophthalmol.*, 51:10–13, 2007.
- 0470B002 (K.Wake), H.Hongo, S.Watanabe, M.Taki, Y.Kamimura, Y.Yamanaka, T.Uno, M.Kojima, I.Hata, K.Sasaki: Development of a 2.45-GHz local exposure system for In Vivo study on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 55:588–596, 2007.
- 0470B003 (T.Olsen), A.Arnarsson, H.Sasaki, K.Sasaki, F.Jonasson: On the ocular refractive components : the Reykjavik eye study, *Acta Ophthalmol. Scand.*, 85:361–366, 2007.
- 0470B004 (A.Arnarsson), KF.Damji, T.Sverrisson, H.Sasaki, F.Jonasson: Pseudoexfoliation in the Reykjavik eye study : prevalence and related ophthalmological variables, *Acta Ophthalmol. Scand.*, 85:822–827, 2007.
- 0470B005 I.Shima, S.Katsuda, Y.Ueda, N.Takahashi, H.Sasaki: Expression of matrix metalloproteinases in wound healing after glaucoma filtration surgery in rabbits, *Ophthalmic Res.*, 39:315–324, 2007.
- 0470B006 (A.Hirata), S.Watanabe, O.Fujiwara, M.Kojima, K.Sasaki, T.Shiozawa: Temperature elevation in the eye of anatomically based human head models for plane-wave exposures, *Phys. Med. Biol.*, 52:6389–6399, 2007.
- 0470B007 L.Dong, Y.Masaki, T.Takegami, Z.Jin, C.Huang, T.Fukushima, T.Sawaki, T.Kawanami, T.Saeki, K.Kitagawa, S.Sugai, T.Okazaki, Y.Hirose, H.Umehara: Clonality analysis of lymphoproliferative disorders in patients with Sjögren's syndrome, *Clin. Exp. Immunol.*, 150:279–284, 2007.
- 0470B009 Q.Jingtao, H.Sasaki, L.Zhongxin, Z.Jinsheng, W.Kaili, M.Kojima, Y.Sakamoto, R.Honda, Y.Kawakami, Y.Yamashiro, Z.Jinsong, K.Sasaki, Japan-China Co-operative Study Group: Current status about blindness among low-income farmers in Sanya district, hainan, China, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 61:411–416, 2007 (in Japanese) .
- 0470B010 M.Fukuda, K.Yamamoto, N.Takahashi, H.Sasaki, M.Yoshikawa: Corneal disorder quantification by corneal resistance, *Journal of the eye.*, 24:521–525, 2007 (in Japanese) .
- 0470B011 (K.Sasaki), H.Obata, M.Yamada, K.Miyata, K.Hirano, K.Kitagawa, S.Kinoshita: Clinical features of secondary corneal amyloidosis, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 61:1641–1644, 2007 (in Japanese) .

Reviews

- 0470C001 K.Kitagawa: Infectious keratitis among contact lens wearers –Bacterial keratitis and fungal keratitis, *Journal of Japan Contact Lens Society.*, 49:157–162, 2007 (in Japanese) .

Others

- 0470F001 (T.Daniels), JS.Greenspan, DP.Cox, LA.Criswell, Y.DeSouza, Y.Dong, D.Greenspan, A.Heidenreich, S.Johansen, R.Jprdam, K.Kitagawa, H.Lanfranchi, K.Sack, M.Schidt, C.Shiboski, S.Shiboski, S.Sugai, H.Umehara, J.Whitcher, A.Wu, S.Zhng: Objective measures in Sjogren's syndrome are strongly associated with each other but not with sicca symptoms: Analysis of 564 enrollees in the SICCA international registry and repository, *Arthritis Rheum.*, 56(Suppl.):S446, 2007.
- 0470F003 M.Kojima: Ultraviolet exposure as a risk factor in cataract formation, *J & J*, 1–2, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0470I001 (TE.aniels), JS.Greenspan, D.Coa, L.Criswell, Y.DeSouza, Y.Dong, D.Greenspan, R.Jordan, H.Lanfranchi, K.Sack, M.Schioldt, C.Shhiboske, S.Shiboske, S.Sugai, H.Umehara, J.Whitcher, A.Wu, K.Kitagawa: The international Sjogren's syndrome registry and repository : a major resource for future research-preliminary findings, Gordon Research Conferences, (Ventura, '07.02).
- 0470I002 (TE.Daniels), S.John, BDS.Greenspan, K.Kitagawa: The international Sjogren's syndrome registry and repository : a Major resource for future research -Preliminary findings, 85th General Session & Exhibition of the IADR, (New Orleans, '07.03).
- 0470I003 K.Sasaki, H.Sasaki, R.Honda, Y.Kawakami, M.Kojima, Y.Sakamoto, J.Qu, Y.Yamashiro, J.Zhang, Z.Lilu: High Prevalence of Pterygium in the Population of a Tropical Area in China -Sanya Eye Study-, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I004 (A.M.Arnarsson), K.F.Damji, T.Sverrisson, H.Sasaki, F.Jonasson: Prevalence of pseudoexfoliation and association with IOP, corneal thickness, and structural optic disc parameters in the Reykjavik eye study, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I005 H.Sasaki, Y.Sakamoto, E.Shibuya, T.Yamaguchi, Y.Kawakami, H.Nakaizumi, K.Sasaki: Deterioration of reading performance and ocular higher order aberration in subjects with cortical cataract, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I006 K.Nagai, H.Sasaki, R.Honda, M.Kojima, Y.Sakamoto, J.Qu, K.Sasaki: Prevalence of cataract in eyes with posterior vitreous detachment, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I007 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.Liu, J.Zhang, K.Sasaki: True exfoliation in chinese population in a tropical area -The Sanya Eye Study-, Association for Research in vision and Ophthalmology, (Florida, '07.05).
- 0470I008 M.Fukuda, H.Sasaki: Intraocular penetration of moxifloxacin ophthalmic solution in rabbit eyes, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I009 M.Kojima, Y.Yamashiro, M.Hanazawa, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Investigation of frequency specificity of ocular effects through quasi-millimeter and millimeter wave exposure, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I010 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: The relationship of axial length and three main types of cataract in the population of a tropical area of China, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 0470I011 (H.Wakatsuchi), M.Hanazawa, T.Sakai, S.Watanabe, M.Kojima, Y.Yamashiro, K.Sasaki, O.Hashimoto: Complex permittivities measurements of ocular tissues in quasi-millimeter and millimeter wave bands, Bioelectromagnetics, (Kanazawa, '07.06).
- 0470I012 M.Kojima, M.Hanazawa, Y.Yamashiro, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Possibility of frequency specificity of ocular effects by quasi-millimeter and, Bioelectromagnetics, (Kanazawa, '07.07).
- 0470I013 K.Kitagawa, N.Tomosugi, H.Tuchida, H.Sasaki: Automated identification and quantification of tear proteins from Sjogren's syndrome by LC/MS on a hybrid linear ion trap mass spectrometer, 5th international Conference on the Tear Film & Ocular Surface : Basic Science and Clinical Relevance, (Italy, '07.08).
- 0470I014 M.Kojima, Y.Yamashiro, H.Sasaki, K.Sasaki: Difference of ocular injury by millimeter wave exposure with different frequency, European association for Vision and Eye Research, (Slovenia, '07.10).
- 0470I015 K.Sasaki: Cataract classification systems, a critical review, European Association for Vision and Eye Research, (Slovenia, '07.10).
- 0470I016 H.Sasaki: Racial differences of lens trabecular properties, European Association for Vision and Eye Research, (Slovenia, '07.10).

- 0470I017 (T.Daniels), JS.Greenspan, D.Coa, LA.Criswell, Y.DeSouza, Y.Dong, D.Greenspan, A.Heidenreich, S.Johansen, R.Jordan, K.Kitagawa, H.Lanfranchi, K.Sack, M.Schiodt, C.Shiboski, S.Shiboske, S.Sugai, H.Umehara, J.Whitcher, A.Wu, S.Zhang: Objective measures in Sjogren's syndrome are strongly associated with each other but not with sicca symptom : analysis of 564 enrollees in the SICCA international registry and repository, The 71st annual meeting of the American College of Rheumatology, (Boston, '07.11).
- 0470I018 (J.Whitcher), A.Heidenreich, Z.Shunhua, S.Johansen, K.Kitagawa, E.Strauss, S.Pflugfelder, A.Mircheff: The SICCA study : preliminary results from ocular examinations in 736 patients, Agenda Ocular Microbiology and Immunology Group 41st Annual meeting, (New Orleans, '07.11).
- 0470I019 Y.Sakamoto, H.Nakaizumi, N.Yamamoto, M.Sakamoto, H.Sasaki, K.Sasaki: Influence of the riling of aspheric intraocular lens on the ocular higher order aberration andf the contrast sensitivity function, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0470I020 K.Nagai, H.Sasaki, R.Honda, Y.Kawakami, Y.Sakamoto, J.Qu, K.Sasaki: Change of light scattering intensity in eyes with posterior vitreous detachment, Monzen eye study, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0470I021 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Effect of 5-S-GAD (eye drops) on UV-B-induced cataract in rats, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0470I022 M.Kojima, Y.Yamashiro, Y.Sakamoto, Y.Kawakami, H.Sasaki, K.Sasaki: Difference of cataract development by different frequency in millimeter wave, US-Japan Cooperative cataract Research Group Meeting, (, '07.12).
- 0470I023 H.Sasaki, N.Fujita, Y.Sakamoto, M.Kojima, J.Qu, N.Yamamoto, Y.Kawakami, K.Nagai, H.Nakaizumi, K.Sasaki: Myopia induced by retrodots and nuclear caratact, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).

0480 Department of Otolaryngology

Faculty

Title	Name	Field of Specialization
Professor	TOMODA Koichi	Otology, Computer aided surgery, Head and Neck surgery, Neuroimmunology
Associate Professor	SUZUKA Yuko	Otology, Audiology, Equilibrium, Neuro-otology, phonation, Medical education
Associate Professor	TSUJI Hiroyuki	Head and neck oncology, Head and neck surgery
Senior Assistant Professor	MURATA Hideyuki	Rhinology, Head and neck surgery, Endoscopic surgery, Computer aided surgery
Senior Assistant Professor	SHIMODE Yuzo	Head and neck oncology, surgery, Thyroid gland tumor research
Senior Assistant Professor	HORIGUTI Akiko	Equilibrium, Vestibular research, Laryngology, Voice restration
Assistant Professor	ISHIMASA Hiroshi	Head and neck surgery, rhinology, General otolaryngology
Assistant Professor	IWASAKI Noriko	Head and neck oncology, Immune-allergic disease, general otolaryngology
Assistant Professor	NAKAIZUMI Toshihiko	Otology, Clinical and basic otology research
Assistant Professor	MIYAZAWA Toru	Basic otology research, Head and neck surgery
Assistant Professor	KITAMURA Miwa	Otolaryngology
Assistant Professor	SAKAI Aya	Sleep apnea, Otolaryngology
Assistant Professor	YAMADA Kanako	Audiology, Otolaryngology

Keywords of Research

neurotology, otoneuro surgery, tympanoplasty, vestibular neurectomy, cochlear implant, middle ear implant, virtual endoscopy, computer-aided surgery, endoscopic nasal surgery, laser surgery, sleep apnea & snor surgery, skull base surgery, head and neck tumor surgery, molecular biology, neuroimmunology, oncology, laryngology, speech rehabilitation, acoustic neuroma surgery, navigation surgery, tele-medicine, thyroid tumor surgery, virtual education for surgery

Outline of Research

Research for 3D mobile navigation system
Central mechanism of audiological function by MEG
Restrtaion for phonation with Provox 2 prosthesis
Clinical reserach for snor and sleep apnea
Research for Thyroid and parathyroid gland
Inner ear molecular biology
Clinical survey for Head and Neck tumor and Oncology

Publications

Originals

- 0480B001 N.Yang, H.Murata, K.Tomoda: Investigation of the characteristic of the endoscope and field-of-view in endoscopic sinus surgery., Oto-rhino-laryngology Tokyo., 50:351-354, 2007 (in Japanese) .

- 0480B002 K.Tomoda: Current state of navigation-guided medical treatment—from the business report of guideline decision for next-generation medical instrument., *Oto-rhino-laryngology Tokyo.*, 50:361-364, 2007 (in Japanese) .
- 0480B004 N.Yang, Y.Shimode, M.Kitamura, A.Sakai, K.Yamada, H.Utida, T.Nakaizumi, Y.Suzuka, K.Tomoda, H.Takahashi, K.Mannen, S.hatta, Y.Yada: The pollen count of *Cryptomeria japonica* and its relation to the direction and velocity of wind in Utinada., *Pollen allergy and prevention.*, 18:15-24, 2007 (in Japanese) .

Reviews

- 0480C004 K.Tomoda, H.Murata, Y.Shimode: Current state of navigation-guided medical treatment– From the business report of guideline decision for next-generation medical instrument–, *Journal of Japan Society for Head and Neck Surgery.*, 17:85-90, 2007 (in Japanese) .

Case Reports

- 0480D003 M.Kitamura, H.Murata, K.Tomoda: Mycosis of the sphenoid sinus with oculomotor paralysis : a case report., *Pract. otol.*, 100:197-200, 2007 (in Japanese) .

Others

- 0480F001 K.Sato, Y.Shimode, A.Itoi, Y.Ueda, S.Katsuda: Salivary duct carcinoma of the parotid gland presenting KIT (CD117) overexpression, *Histopathology*, 51:114-115, 2007.

Presentations at Conference

International Conference (Key Note Lecture)

- 0480G001 K.Tomoda: Current status of image-guided surgery in Otorhinolaryngology, The 19th International Conference of Society for Medical Innovation and Technology, (Sendai, '07.11).
- 0480G002 K.Tomoda: Intraoperative navigation surgery in otorhinolaryngology, 24th Congress of the Pan-Pacific Surgical Association Japan Chapter, (Honoruru, '07.11).

International Conference (Presentations)

- 0480I001 T.Miyazawa, SA.Batts, T.Qazi, DL.Swidorski, LA.Beyer, DE.Brough, MA.Crumling, Y.Raphael: CAR Distribution in the auditory epithelium does not reflect adenovirus transduction pattern, 30th Mid Winter Meeting: Hyatt Regency Denver at Colorado Convention Center, (Denver, '07.02).
- 0480I002 J.Yamamoto, K.Yamada, Y.Shimode, H.Tuji, K.Tomoda: A case of parotid gland squamous cell carcinoma with lipid metastasis, 24th Congress of the Pan-Pacific Surgical Association Japan Chapter, (Honoruru, '07.11).
- 0480I003 Y.Suzuka, T.Miyazawa, J.Yamamoto, K.Tomoda: Clinical Analysis of Acute Epiglottitis in 5 Years, 24th Congress of the Pan-Pacific Surgical Association, (Honoruru, '07.11).

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
Professor	MOCHIZUKI Takashi	Medical mycology , Dermatmycosis
Associate Professor	TANABE Hiroshi	Medical mycology, Decubitns
Senior Assistant Professor	WATANABE Seiji	Medical mycology
Senior Assistant Professor	KAWASAKI Masako	Medical mycology
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	TACHIKAWA Nobuyuki	Medical mycology
Assistant Professor	WAKAMATSU Nobuhiko	Dermatopathology
Assistant Professor	FUJITA Jun	Medical mycology
Assistant Professor	HASEI Maki	Skin tumor and growth factores, Medical mycology

Keywords of Research

fungi, dermatophytes, *Candida* species, *Sporothrix* species, dematiaceous fungi, mitochondrial DNA, restriction fragment length polymorphism, ribosomal DNA, ITS region, sequencing, phylogeny, taxonomy, molecular epidemiology, molecular typing, electron microscopy, dermatopathology, skin tumor, decubitus, deep tissue injury

Outline of Research

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

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

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

Publications

Originals

- 0490B001 T.Mochizuki, M.Kawasaki, H.Tanabe, K.Anzawa, H.Ishizaki, J.S.Choi: Molecular epidemiology of *Trichophyton tonsurans* isolated in Japan using RFLP analysis of non-transcribed spacer regions of ribosomal RNA genes, Jpn. J. Infect. Dis., 60:188-192, 2007.

0490B002 M.Yanagihara, K.Takeda, H.Tanabe, S.Abe, H.Ishizaki: Follicular keratosis of the chin treated with 1.24R-dihydroxyvitamin D3 ointment, *Pediatr. Dermatol.*, 24:412-414, 2007.

Case Reports

0490D001 (H.Fujii), M.Tanioka, M.Yonezawa, A.Arakawa, Y.Matsumura, S.Kore-eda, Y.Miyachi, S.Tanaka, Herpes zoster: A case of atypical sporotrichosis with multifocal cutaneous ulcers, *Clin. Exp. Dermatol.*, 33:135-138, 2007.

0490D005 (S.Okada), T.Masu, T.Tsunoda, M.Kawasaki, T.Mochizuki, R.Okuyama, S.Aiba: A case of Phaeohyphomycosis infected with *Exophiala jeanselmei*, *Nishinihon j. dermatol.*, 69:162-164, 2007 (in Japanese) .

0490D010 (S.Fujita), T.Mochizuki: A case of black dot ringworm on the right forearm caused by *Trichophyton tonsurans*, *The Japanese Society for Medical Mycology.*, 48:91-95, 2007 (in Japanese) .

Presentations at Conference

International Conference (Key Note Lecture)

0490G001 M.Kawasaki: Molecular biology and black fungi around the world, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

International Conference (Symposium)

0490H001 M.Kawasaki, H.Ishizaki: Global molecular biology and *Sporothrix schenckii*, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

International Conference (Presentations)

0490I001 M.Terada, J.Fujita, S.Watanabe, H.Tanabe, M.Kawasaki, T.Mochizuki: A case of hyalohyphomycotic cyst caused by *Fusarium solani*, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

0500 Department of Urogenital Surgery

Faculty

Title	Name	Field of Specialization
Professor	SUZUKI Koji	kidney stone disease, kidney transplantation, hyperparathyroidism
Associate Professor	TANAKA Tatsuro	kidney transplantation, endourology
Associate Professor	MIYAZAWA Katsuhito	kidney stone disease, endourology, prostate cancer
Senior Assistant Professor	KAWAMURA Kenji	kidney stone disease, urogenital cancer
Senior Assistant Professor	MORIYAMA Manabu	kidney transplantation, kidney stone disease
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
Assistant Professor	MORITA Nobuyo	general urology

Keywords of Research

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

Outline of Research

clinical research on renal transplantation,
mechanism of urolithiasis

Publications

Originals

- 0500B001 N.Ainoda, H.Onishi, Y.Ueda, A.Hori, K.Miura, K.Miyazawa, K.Suzuki: Increase in knowledge of ignorance during problem-based learning sessions: possible improvement of metacognition, *Medical education (Japan)*, 38:11-17, 2007.
- 0500B002 M.T.Moriyama, K.Miyazawa, K.Noda, M.Oka, M.Tanaka, K.Suzuki: Reduction in oxalate-induced renal tubular epithelial cell injury by an extract from *Quercus salicina* Blume/ *Quercus stenophylla* Makino, *Urol. Res.*, 35:295-300, 2007.
- 0500B003 K.Miyazawa, S.Miyamoto, R.Suzuki, Y.Yasui, R.Ikeda, H.Kohno, M.Yano, T.Tanaka, K.Hata, K.Suzuki: Dietary β -cryptoxanthin inhibits *N*-butyl-*N*-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in male ICR mice, *Oncol. Rep.*, 17:297-304, 2007.

Case Reports

- 0500D001 K.Miyazawa, T.Itoh, E.Kinoshita, T.Nojima, T.Takahashi, T.Kanda, K.Suzuki: Prostate cancer producing carcinoembryonic antigen and carbohydrate antigen 19-9 without expression of prostate-specific antigen, J. Kanazawa. Med. Univ., 32:29-31, 2007.

Others

- 0500F001 K.Sato, H.Tachibana, S.Morinaga, Y.Ueda, S.Katsuda: Sertoli cell tumor of the testis, not otherwise specified, presenting extensive hemorrhage and overexpression of α -methylacyl-CoA racemase (AMACR/P504S), Virchows Arch., 450:361-363, 2007.

Presentations at Conference

International Conference (Presentations)

- 0500I001 K.Miyazawa, S.Miyamoto, R.Suzuki, Y.Yasui, R.Ikeda, H.Kohno, M.Yano, T.Tanaka, K.Hata, K.Suzuki: Dietary beta-cryptoxanthin inhibits N-butyl-N-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in male ICR mice, The 22nd Annual EAU Congress, (Berlin, '07.03).

0510 Department of Obstetrics and Gynecology

Faculty

Title	Name	Field of Specialization
Professor	MAKINODA Satoru	reproductive physiology, perinatal medicine, gynecologic oncology, ovulation and cytokines
Senior Assistant Professor	FUJII Ryota	perinatal medicine, reproductive endocrinology
Senior Assistant Professor	WATANABE Yukio	perinatal medicine, reproductive endocrinology, perinatal diagnosis
Senior Assistant Professor	TOMIZAWA Hideki	perinatal medicine, reproductive medicine
Assistant Professor	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	WASADA Tomoo	reproductive medicine, perinatal medicine, gynecologic oncology
Assistant Professor	INOUE Hirokazu	perinatal medicine, perinatal diagnosis
Assistant Professor	SASAKURA Chihaya	perinatal medicine, perinatal diagnosis
Assistant Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine
Research Doctor	KUWAHARA Takashi	perinatal medicine
Research Doctor	NEYATANI Natsuko	perinatal medicine, climacteric 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 (H.Negishi), C.Ikeda, Y.Nagai, A.Satoh, Y.Kumasako, S.Makinoda, T.Ustunomiya: Regulation of amphiregulin, EGFR-like factor expression by hCG in cultured human granulosa cells, *Acta Obstet. Gynecol. Scand.*, 86:706–710, 2007.

Presentations at Conference

International Conference (Synposium)

- 0510H001 S.Makinoda: Ovarian blood flow measurement and its clinical application, 1st Sahlgrenska Meeting on Reproductive Medicine and Gynecology, (Goteborg, '07.03).

International Conference (Presentations)

- 0510I001 R.Fujii: Possible involvement of interleukin-6 human luteolysis, 1st Sahlgrenska Meeting on Reproductive Medicine and Gynecology, (Goteborg, '07.03).
- 0510I002 S.Makinoda: Effective treatment using Granulocyte colony-stimulating factor(G-CSF) for luteinized unruptured follicle(LUF), International Federation of Fertility Societies XIX World Congress on Fertility & Sterility, (Durban, '07.05).
- 0510I003 R.Fujii: Possible involvement of interleukin-6 in human luteolysis, International Federation of Fertility Societies XIX World Congress on Fertility & Sterility, (Durban, '07.05).
- 0510I004 H.Inoue, T.Kuwahara, T.Waseda, T.Iura, S.Makinoda: Analysis of the hemodynamics of fetal renal artery and fetal renal volume during the normal course of pregnancy., 17th World Congress on Ultrasound in Obstetrics and Gynecology, (Florence, '07.10), *Ultrasound in Obstetrics & Gynecology*, 30:629, 2007.
- 0510I005 C.Sasakura, H.Inoue, S.Fujita, T.Waseda, H.Tomizawa, Y.Watanabe, S.Makinoda: The usefulness of MRI in the diagnosis of fetal lung maturity, 17th World Congress on Ultrasound in Obstetrics and Gynecology, (Florence, '07.10), *Ultrasound in Obstetrics & Gynecology*, 30:566, 2007.
- 0510I006 R.Fujii, H.Inoue, T.Waseda, Y.Watanabe, S.Makinoda: G-CSF as the supportive drug in ovulation induction for LUF, The International Ovarian Conference 2007, (Hakone, '07.11).
- 0510I007 T.Waseda, Y.Watanabe, H.Tomizawa, R.Fujii, S.Makinoda: An attempt to evaluate the placental function by using myometrial blood flow analysis, 14th World Congress on Gestational Trophoblastic disease, (Fukuoka, '07.11).
- 0510I008 Y.Watanabe, C.Sasakura, H.Inoue, S.Fujita, T.Waseda, H.Takagi, H.Tomizawa, S.Makinoda: The Usefulness of MRI in the diagnosis of fetal lung maturity, 39th International Congress Pathophysiology of Pregnancy, (Singapore, '07.11).

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
Professor	TSUCHIDA Hideaki	Cardiovascular Effects of Anesthetics, Intravenous Anesthetics
Associate Professor	SEKI Sumihiko	Vascular Reactivity and Cellular calcium dynamics
Senior Assistant Professor	SHIRAIISHI Miharuru	Cardiac Anesthesia, Cardiovascular Agents
Assistant Professor	SHIMO Tomohiro	Anaphylaxis
Assistant Professor	FUKUOKA Tadashi	Intensive care
Assistant Professor	HORIUCHI Katsura	General anesthesia, Local anesthesia
Assistant Professor	KARASAWA Noriyuki	Anaphylaxis
Assistant Professor	YAMAOKA Yuko	General anesthesia, Local anesthesia

Keywords of Research

anesthetic volatile, anesthetic intravenous, cardiovascular system, vascular smooth muscle, endothelium, palliative care, postoperative pain relief, paraquat, sepsis, delayed neuronal death, apoptosis, inducible nitric oxide synthase, brain ischemia, epidural blockade, cytochrome P-450, liver mitochondria, nitric oxide, hypothermia

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 1) the effects of septic shock on vasoreactivity in the rat thoracic aorta or the mesenteric arteriole, and 2) the effects of transient forebrain ischemia on apoptotic death of the hippocampal pyramidal neuron in Mongolian gerbil.

Publications

Originals

- 0520B001 S.Sugiura, S.Seki, K.Hidaka, M.Shiraishi, H.Tsuchida: The hemodynamic effects of landiolol, an ultra-short-acting beta1-selective blocker, on endotracheal intubation in patients with and without hypertension, *Anesth. Analg.*, 104:124-129, 2007.
- 0520B002 T.Shibamoto, T.Shimo, S.Cui, W.Zhang, H.Takano, Y.Kurata, H.Tsuchida: The roles of mast cells and Kupffer cells in rat systemic anaphylaxis, *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, 293:R2202-R2209, 2007.
- 0520B003 N.Karasawa, T.Shibamoto, S.Cui, H.Takano, Y.Kurata, H.Tsuchida: Hepatic pre-sinusoidal vessels contract in anaphylactic hypotension in rabbits, *Acta Physiol. Scand.*, 189:15-22, 2007.
- 0520B004 (K.Nakazawa), Y.Okuda, Y.Saito, S.Saito, K.Sakaida, T.Yuki, H.Ohara, H.Tsuchida, Y.Kanmura, E.Inada: A Nationwide questionnaire survey of anesthesiology in undergraduate medical education in Japan, *The Japanese journal of anesthesiology.*, 56:348-356, 2007 (in Japanese).
- 0520B005 S.Sugiura: Vasoreactive changes to α -adrenergic stimulation in the small mesenteric arteries of septic rat, *J. Kanazawa. Med. Univ.*, 32:162-169, 2007 (in Japanese).

Case Reports

- 0520D001 K.Hidaka, S.Nishiike, S.Sugiura, S.Seki, H.Tsuchida: Comparative clinical study of three airway devices: Proseal™, Cobra™, and Softseal™, Journal of clinical anesthesia., 31:1129-1133, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0520I001 Sugiura.S, Hidaka.K, Seki.S, Tsuchida.H: Comparative study of two beta adrenergic antagonists on hemodynamics at the endotracheal intubation, Annual Meeting of the American Society of Anesthesiologists, (San Fransisco, '07.10).

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	YOSHMURA Hiroshi	temporomandibular joint disorders, stomatology, neuroscience
Senior Assistant Professor	KANEYAMA Keiseki	oral cancer, stomatology, oral and maxillofacial surgery, orthognathic surgery
Senior Assistant Professor	DEMURA Noboru	orthodontics, stomatology
Assistant Professor	TAKAHASHI Motohiro	temporomandibular joint disorders, stomatology
Assistant Professor	NAGAO Toshikazu	temporomandibular joint disorders, stomatology
Assistant Professor	NISHIURA Rie	temporomandibular joint disorders, stomatology
Assistant Professor	HONJOU Miho	Orthodontics.

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0530B001 K.Kaneyama, N.Segami, S.Tsurusako, K.Fujimura, J.Sato, T.Nagao: Anchored disc phenomenon with a normally positioned disc in the temporomandibular joint: characteristics and behaviour, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 45:279-283, 2007.
- 0530B002 K.Kaneyama, N.Segami, J.Sato, K.Fujimura, T.Nagao, H.Yoshimura: Prognostic factors in arthrocentesis of the temporomandibular joint: comparison of bradykinin, leukotriene B4, prostaglandin E2, and substance P level in synovial fluid between successful and unsuccessful cases, *J. Oral Maxillofac. Surg.*, 65:242-247, 2007.
- 0530B003 J.Sato, N.Segami, M.Nishimura, Y.Yoshitake, K.Kaneyama, Y.Kitagawa: Expression of interleukin 8 in synovial tissues in patients with internal derangement of the temporomandibular joint and its relationship with clinical variables, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 103:467-474, 2007.
- 0530B004 J.Sato, N.Segami, Y.Yoshitake, K.Kaneyama, H.Yoshimura, K.Fujimura, Y.Kitagawa: Specific expression of substance P in synovial tissues of patients with symptomatic, non-reducing internal derangement of the temporomandibular joint: comparison with clinical findings, *Br J Oral Maxillofac Surg*, 45:372-377, 2007.

- 0530B005 K.Kaneyama, N.Segami, J.Sato, H.Yoshimura, R.Nishiura: Expression of receptor activator of nuclear factor- κ B ligand in synovial tissue: comparison with degradation of articular cartilage in temporomandibular joint disorders, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 104:e12-e17, 2007.
- 0530B006 H.Yoshimura, Y.Mashiyama, K.Kaneyama, T.Nagao, N.Segami: Opening of shortcut circuits between visual and retrosplenial granular cortices of rats, *Neuroreport.*, 18:1315-1318, 2007.
- 0530B007 W.Sun: Detection of bacterial DNA in synovial fluids of patients with temporomandibular joint disorder by sequencing analysis, *J. Kanazawa. Med. Univ.*, 32-176-181, 2007.
- 0530B008 Y.Mashiyama: Roles of teeth and tooth-related organs during developmental periods in the maturation of cytoarchitecture in oral sensory cortex, *J. Kanazawa. Med. Univ.*, 32:151-155, 2007 (in Japanese) .
- 0530B009 T.Sugai, R.Yamamoto, H.Yoshimura, N.Kato: Signal propagation between the piriform cortex and the endopiriform nucleus in the rat horizontal slice preparation., *The Japanese journal of taste and smell research.*, 14:521-522, 2007 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0530H001 N.Segami: Arthroscopic eminoplasty, 18th International Conference on Oral & Maxillofacial Surgery, (Bagalore, India, '07.11).

0550 Department of Emergency Medicine

Faculty

Title	Name	Field of Specialization
Professor	WATOH Yukihiro	Emergency, Emergency medical system, Disaster Medicine,
Senior Assistant Professor	MASHIBA Satoru	Emergency, Anaphylaxis
Assistant Professor	HAYASHI Nobuyuki	Emergency,
Assistant Professor	MORITA Hideki	Emergency,
Assistant Professor	GOTO Tetsuro	Emergency,
Assistant Professor	NAKATA Mari	Emergency,
Assistant Professor	MIZUNUMA Mariko	Emergency,

Keywords of Research

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

Outline of Research

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

0560 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical oncology, Gastroenterology, Pancreatology
Senior Assistant Professor	NAKAJIMA Hideo	Medical oncology, Immunology
Assistant Professor	SHIMASAKI Takeo	Medical oncology, Gastroenterology, BioInformatics

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 (J.Pei-hong), Y.Motoo: Expression of interleukin-22 in human melanoma cell line.(in Chinese), *J. Clin. Dermatology.*, 36:346-347, 2007.
- 0560B002 (W.Mai), K.Miyashita, A.Shakoori, B.Zhang, Z.Weil Yu, Y.Takahashi, Y.Motoo, K.Kawakami, T.Minamoto: Detection of active fraction of glycogen synthase kinase 3 β in cancer cells by nonradioisotopic in vitro kinase assay, *Oncology*, 71:297-305, 2007.
- 0560B003 (A.Ujike-Asai), A.Okada, Y.Du, M.Maruyama, X.Yuan, F.Ishikawa, Y.Motoo, K.Isobe, H.Nakajima: Large defects of type I allergic response in telomerase reverse transcriptase knockout mice, *J. Leukoc. Biol.*, 82:429-435, 2007.
- 0560B004 J.Yamakawa, J.Moriya, T.Takahashi, A.Ishige, Y.Motoo, F.Yoshizaki, T.Kanda: A kampo medicine, boi-ogi-to, inhibits obesity in ovariectomized rats, *eCAM*, 1-9, 2007.
- 0560B005 (M.Gironella), M.Seux, M-J.Xie, C.Cano, R.Tomasini, J.Gommeaux, S.Garcia, J.Nowak, ML.Yeung, K-T.Jeang, A.Chaix, L.Fazli, Y.Motoo, Q.Wang, P.Rocchi, A.Russo, M.Gleave, J-C.Dagorn, JL.Iovanna, A.Carrier, M-J.Pébusque, NJ.Duseti: Tumor protein 53-induced nuclear protein 1 expression is repressed by miR-155, and its restoration inhibits pancreatic tumor development., *Proc. Natl. Acad. Sci. U.S.A.*, 104:16170-16175, 2007.
- 0560B006 (S-B.Su), M-J.Xie, N.Sawabu, Y.Motoo: Suppressive effect of herbal medicine saikokeishito on acinar cell apoptosis in rat spontaneous chronic pancreatitis, *Pancreatology.*, 7:28-36, 2007.
- 0560B007 (D.Closa), Y.Motoo, JL.Iovanna: Pancreatitis-associated protein: from a lectin to an anti-inflammatory cytokine., *World J. Gastroenterol.*, 13:170-174, 2007.
- 0560B008 T.Shimasaki, Y.Ishigaki, T.Minato, Y.Motoo: Apoptosis-related gene expression profile is changed by gemcitabine in pancreatic cancer cell line(PANC-1), *The Journal of Japan Pancreas Society.*, 22:14-20, 2007 (in Japanese) .

Reviews

- 0560C002 H.Nakajima: Molecular basis of self recognition in immune system, J. Kanazawa. Med. Univ., 32:23–28, 2007 (in Japanese) .

Case Reports

- 0560D001 Y.Takahashi, T.Kiba, K.Yamaguchi, Y.Saitou, K.Nishio, M.Iguchi, Y.Motoo: A case undergoing repeated anaphylactic shock after systemic administration of vinorelbine, Cancer & chemotherapy., 34:2321–2323, 2007 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0560H001 Y.Motoo, T.Shimasaki, T.Minamoto: Gemcitabine changes the gene expression of human pancreatic cancer cells : search for new therapeutic molecular targeting, NATO Advanced Research Workshop, (Tashkent,Uzbekistan, '07.09).
- 0560H002 H.Nakajima: Various therapies, Japan–Taiwan Joint Symposium on Medical Oncology, (Uchinada, '07.10).
- 0560H003 Y.Motoo, I.Arai, I.Hyodo, K.Tsutani: Introduction of GRADE Profiler (GRADEpro) ., Meeting on Development of Evidence-based Clinical Practice Guidelines in Traditional Medicines 2007 supported by WHO, (Hong Kong, '07.12).

International Conference (Presentations)

- 0560I001 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, The Second Meeting of Asian–Oceanic Pancreatic Association(AOPA), (Kobe, '07.10).
- 0560I002 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).
- 0560I003 J.Moriya, J.Yamakawa, Y.Motoo, T.Takahashi, T.Kanda: Effect of Hochuekkito(Bu Zhong Yi Qi Tang)on Physical Activity of Murine Model of Chronic Fatigue Syndrome., The14th International Congress of Oriental Medicine, (Taiwan, '07.12).
- 0560I004 J.Yamakawa, J.Moriya, Y.Motoo, T.Takahashi, F.Yoshizaki, T.Kanda: A Kampo Medicine, Boiogito(Fangyi–Huangqi–Tang), Inhibits Obesity in Ovariectomized Rats., The14th international Congress of Oriental Medicine, (Taiwan, '07.12).

0610 Health Management Center

Faculty

Title	Name	Field of Specialization
Professor	MATSUDA Yoshiro	Glossary of Gastroenterology, Hepatology.
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)	YAMADA Yuichi	Occupational health, Epidemiology for cardiovascular and pulmonary diseases
Professor(Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Associate Professor(Additional Post)	ISHIZAKI Masao	Occupational health, Epidemiology for cardiovascular disease
Associate Professor(Additional Post)	MIURA Katsuyuki	Cardiovascular epidemiology, preventive cardiology, clinical epidemiology
Associate Professor(Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Senior Assistant Professor	NAKANISHI Yumiko	Preventive medicine
Senior Assistant Professor	HAYASE Mitsuru	Infectious disease, Clinical Microbiology.
Senior Assistant Professor	KUGINUKI Yasuaki	hemodynamics
Assistant Professor	KUSAKA Kazuya	Radiology
Assistant Professor	YABUNO Yoshinori	Diagnostic Imaging
Assistant Professor	SAKURAI Masaru	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 (W.Teeyakasem), M.Nishijo, R.Honda, S.Satarug, W.Swaddiwudhipong, W.Ruangyuttikarn: Monitoring of cadmium toxicity in a Thai population with high-level environmental exposure, *Toxicol. Lett.*, 169:185-195, 2007.
- 0610B002 S.Yoneyama, K.Miura, S.Sasaki, K.Yoshita, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Dietary intake of fatty acids and serum C-reactive protein in Japanese, *J Epidemiol*, 17:86-92, 2007.
- 0610B003 (T.Tanaka), T.Okamura, Z.Yamagata, T.Takebayashi, U.Tamura, Y.Kusaka, S.Urano, Y.Miyoshi, A.Okayama, H.Ueshima, HIPOP-OHP Research Group, H.Nakagawa, K.Miura: Awareness and treatment of hypertension and hypercholesterolemia in Japanese workers: the high-risk and population strategy for occupational health promotion(HIPOP-OHP)study, *Hypertens. Res.*, 30:921-928, 2007.

- 0610B004 A.Nasermoaddeli, K.Miura, A.Matsumori, Y.Soyama, Y.Morikawa, A.Kitabatake, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with hypertrophic cardiomyopathy in Japan: results from a nationwide study, *Heart*, 93:711–715, 2007.
- 0610B005 (Y.Hayashino), S.Fukuhara, Y.Suzukamo, T.Okamura, T.Tanaka, H.Ueshima, HIPOP–OHP Research Group, H.Nakagawa, K.Miura: Relation between sleep quality and quantity, quality of life, and risk of developing diabetes in healthy workers in Japan: the high–risk and population strategy for occupational health promotion(HIPOP–OHP)study, *BMC Public Health.*, 7:129, 2007.
- 0610B006 (The Emerging Risk Factors Collaboration.), H.Nakagawa, K.Miura: The emerging risk factors collaboration: analysis of individual data on lipid, inflammatory and other markers in over 1.1 million participants in 104 prospective studies of cardiovascular diseases, *Eur. J. Epidemiol.*, 22:839–869, 2007.
- 0610B007 M.Nishijo, J.Kuriwaki, E.Hori, K.Tawara, H.Nakagawa, H.Nishijo: Effects of maternal exposure to 2,3,7,8–tetrachlorodibenzo–*p*–dioxin on fetal brain growth and motor and behavioral development in offspring rats, *Toxicol. Lett.*, 173:41–47, 2007.
- 0610B008 M.Sakurai, T.Takamura, T.Ota, H.Ando, H.Akahori, K.Kaji, M.Sasaki, Y.Nakanuma, K.Miura, S.Kaneko: Liver steatosis, but not fibrosis, is associated with insulin resistance in nonalcoholic fatty liver disease, *J. Gastroenterol.*, 42:312–317, 2007.
- 0610B009 (Y.Suwazono), E.Kobayashi, M.Dochi, K.Miura, Y.Morikawa, M.Ishizaki, T.Kido, H.Nakagawa, K.Nogawa: Combination of the C1429T polymorphism in the G–protein beta–3 subunit gene and the A1330V polymorphism in the low–density lipoprotein receptor–related protein 5 gene is a risk factor for hypercholesterolaemia, *Clin. Exp. Med.*, 7:108–114, 2007.
- 0610B010 Y.Morikawa, H.Nakagawa, K.Miura, Y.Soyama, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, K.Nogawa: Effect of shift work on body mass index and metabolic parameters, *Scand. J. Work Environ. Health*, 33:45–50, 2007.
- 0610B011 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, *Hokuriku Japanese Journal of Public Health.*, 33:76–79, 2007 (in Japanese) .

Short Communications

- 0610E001 (T.Kido), S.Maruzeni, H.Suzuki, Y.Odamae, M.Muranaka, R.Naganuma, K.Tawara, M.Nishijo, H.Nakagawa, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu, H.Oka, K.Noguchi: Five years studies on the long term effects of waragent orange/dioxin on human health in Vietnam, *Organohalogen Compounds.*, 69:572–575, 2007.
- 0610E002 (M.Muranaka), T.Kido, Y.Odamae, H.Suzuki, R.Naganuma, H.Nakagawa, M.Nishijo, K.Tawara, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: An epidemiological study on health effects by dioxin in Vietnam; comparison of visual acuity of junior high school students between herbicide sprayed and non–sprayed areas, *Organohalogen Compounds.*, 69:2035–2038, 2007.
- 0610E003 K.Tawara, M.Nishijo, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: Association of having birth defect children with serum dioxin levels in Vietnam, *Organohalogen Compounds.*, 69:568–571, 2007.
- 0610E004 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pam, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8–tetrachlorodibenzo–*p*–dioxin(TCDD)disturbed development of taste preference in rat offspring, *Organohalogen Compounds.*, 69:1809–1812, 2007.
- 0610E005 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, *Organohalogen Compounds.*, 69–2031–2034, 2007.

Presentations at Conference

International Conference (Symposium)

- 0610H001 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0610H002 (K.Nambunmee), T.Pharm-The, R.Honda, M.Nishijo, K.Miura, H.Nakagawa, W.Rungyuttikarn: Association of renal tubular injury and bone resorption induced by cadmium exposure of inhabitants living in polluted area, Maesot district, Tak province, Thailand, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).
- 0610H003 (T.Pharm-The), K.Nambunmee, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow up study about effects of cadmium (Cd) on renal functions among Japanese population living in a non-polluted area, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).

International Conference (Presentations)

- 0610I001 K.Miura, A.Matsumori, Y.Morikawa, Y.Inaba, M.Nagai, H.Nakagawa: Predictive Score to Predict the Prognosis of Cardiomyopathies: from a Nationwide Study in Japan, 1st International Congress of Cardiomyopathy and Heart Failure, (Kyoto, '07.03).
- 0610I002 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pharm, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin disturbed development of taste preference in rat off-springs, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0610I003 Pharm-The T, Nambunmee K, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow-up study (from 1998 to 2006) about effects of cadmium on renal functions among Japanese population living in a non-polluted area., 6th Annual Congress of Asia-Pacific Association of Medical Toxicology, (Bangkok, '07.12).

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.
Research Associate(Additional Post)	KUROSE Nozomu	surgical pathology, molecular pathology
Research Associate(Additional Post)	KINOSHITA Eriko	surgical pathology, molecular pathology

Keywords of Research

surgical pathology, cytopathology, molecular pathology, ultrastructural 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 K.Sato, T.Terauchi, M.Nakano, M.Takenaka, Y.Asakura, N.Kurose, T.Nojima, Y.Ueda: A case of urothelial carcinoma of the urinary bladder presenting intracytoplasmic lumina, J. Jpn. Soc. Clin. Cytol., 46:48-52, 2007 (in Japanese) .
- 0620D002 K.Sato, M.Takenaka, T.Terauchi, M.Nakano, Y.Asakura, T.Nojima, Y.Ueda, S.Katsuda: A case of thyroid adenomatous nodule with bizarre nuclei, J. Jpn. Soc. Clin. Cytol., 46:149-152, 2007 (in Japanese) .
- 0620D003 T.Terauchi, M.Takenaka, Y.Asakura, M.Nakano, K.Sato, M.Sagawa, N.Kurose, T.Nojima: Pulmonary pleomorphic carcinoma: two-case report, J. Jpn. Soc. Clin. Cytol., 46:227-231, 2007 (in Japanese) .

0630 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
Professor	KANDA Tsugiyasu	Cardiovascular distase,Diabetes Mellitus,Mental distase
Associate Professor	TAKAHASHI Takashi	Infectious diseases,Respiratory diseases,Clinical microbiology,Infection control
Assistant Professor(Additional Post)	KUSAKA Kazuya	Diaqnosis for esophagus,gastro-intestine,colon,liver & bileduct disease.Endoscopical treatment of its disease,especially,superficial type esophageal cancer, earygastric cancer, eary colon cancer
Assistant Professor	YAMAKAWA Junichi	General medicine,Kampo medicine
Assistant Professor	MORIYA Junji	General medicine,Kampo medicine

Keywords of Research

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

Outline of Research

Three major investigations are proceeded. One is to investigate the therapeutic implication of cytokine against viral myocarditis, chronic fatigue syndrome, infection due to obese through immunomodulation. The second is to apply the kampo medicine to the metabolic syndrome and chronic fatigue syndrome.

Publications

Originals

- 0630B001 N.Yamaguchi, T.Takahashi, M.Sakuma, T.Sugita, K.Uchikawa, S.Sakaihara, T.Kanda, M.Arai, K.Kawakita: Acupuncture regulates leukocyte subpopulations in human peripheral blood, *Evid Based Complement Alternat Med*, 4:447-453, 2007.
- 0630B002 S.Saegusa, Y.Fei, T.Takahashi, H.Sumino, J.Moriya, K.Kawaura, J.Yamakawa, T.Itou, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Oral administration of candesartan improves the survival of mice with viral myocarditis through modification of cardiac adiponectin expression, *Cardiovasc Drugs Ther*, 21:155-160, 2007.
- 0630B003 T.Kanda, S.Saegusa, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto: Reduced-energy diet improves survival of obese KKAY mice with viral myocarditis:induction of cardiac adiponectin expression, *Int. J. Cardiol.*, 119:310-318, 2007.
- 0630B004 (H.Sumino), S.Ichikawa, S.Kusama, T.Takahashi, H.Sakamoto, H.Kumakura, Y.Takayama, T.Kanda, M.Murakami, M.Kurabayashi: Relationship between brachial arterial endothelial function and lumber spine bone mineral density in postmenopausal women, *Circ. J.*, 71:1555-1559, 2007.
- 0630B005 J.Yamakawa, J.Moriya, T.Takahashi, A.Ishige, Y.Motoo, F.Yoshizaki, T.Kanda: A kampo medicine, boi-ogi-to, inhibits obesity in ovariectomized rats, *eCAM*, 1-9, 2007.
- 0630B006 (M.Goto), T.Yamashita, S.Misawa, T.Komori, K.Okuzumi, T.Takahashi: Current biosafety in clinical laboratories in Japan: report of questionnaires' data obtained from clinical laboratory personnel in Japan, *Kansenshogaku Zasshi.*, 81:39-44, 2007 (in Japanese) .

- 0630B007 (T.Tanaka), M.Goto, K.Okuzumi, A.Yoneyama, T.Matsumoto, K.Yamaguchi, T.Takahashi: Isolation and identification of *Helicobacter cinaedi* and *H.cinaedi*-like organisms isolated from blood culture in practical laboratory procedures, *Kansenshogaku Zasshi.*, 81:700-706, 2007 (in Japanese) .

Case Reports

- 0630D001 K.Miyazawa, T.Itoh, E.Kinoshita, T.Nojima, T.Takahashi, T.Kanda, K.Suzuki: Prostate cancer producing carcinoembryonic antigen and carbohydrate antigen 19-9 without expression of prostate-specific antigen, *J. Kanazawa. Med. Univ.*, 32:29-31, 2007.

Others

- 0630F001 T.Takahashi, T.Kanda, N.Yamaguchi: Influenza Vaccines, *N. Engl. J. Med.*, 356:1172-1173, 2007.
- 0630F002 T.Kanda, T.Takahashi, H.Sumino, T.Nakahashi, K.Iwai, S.Morimoto, M.Matsumoto: Hepatocyte growth factor and visfatin in elderly bedridden patients, *J. Am. Geriatr. Soc.*, 55:963-965, 2007.
- 0630F004 R.Chen, T.Takahashi, T.Kanda: Bariatric surgery for morbid obesity, *N. Engl. J. Med.*, 357:1158-1160, 2007.

Presentations at Conference

International Conference (Presentations)

- 0630I001 T.Kanda, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto: Candesartan Improves Myocardial Damage in Obese Mice with Viral Myocarditis and Induces Cardiac Adiponectin., 4th Annual Symposium of the American Heart Association Council on Basic Cardiovascular Sciences, (Keystone USA, '07.07), American Heart Association, :13, 2007.
- 0630I002 T.Takahashi, K.Nomura, H.Honda, T.Nakahashi, T.Kanda, S.Morimoto: Seroprevalence of Human Metapneumovirus in Elderly Inpatients in Japan, 45th Annual Meeting of IDSA, (SanDiego USA, '07.10), Final Program and Abstracts, :224-225, 2007.
- 0630I003 J.Moriya, J.Yamakawa, Y.Motoo, T.Takahashi, T.Kanda: Effect of Hochuekkito(Bu Zhong Yi Qi Tang)on Physical Activity of Murine Model of Chronic Fatigue Syndrome., The14th International Congress of Oriental Medicine, (Taiwan, '07.12).
- 0630I004 J.Yamakawa, J.Moriya, Y.Motoo, T.Takahashi, F.Yoshizaki, T.Kanda: A Kampo Medicine, Boiogito(Fangyi-Huangqi-Tang), Inhibits Obesity in Ovariectomized Rats., The14th international Congress of Oriental Medicine, (Taiwan, '07.12).

0640 Endoscopy Center

Faculty

Title	Name	Field of Specialization
Assistant Professor	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer

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, lansoprazole 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
-

0650 Department of Rehabilitation Medicine

Faculty

Title	Name	Field of Specialization
Professor	YAMAGUCHI Masao	Gait analysis using EMG power spectrum. Sway paths of the center of gravity; post hip surgery of the patient with osteoarthritis of the hip. Clinical pathway of the patient with femoral neck fracture.
Senior Assistant Professor(Additional Post)	NAKATA Minori	Treatment and rehabilitation of musculoskeletal disorders, caused by work-related, whiplash-injury-associated, and other origins

Keywords of Research

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

Outline of Research

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

Presentations at Conference

International Conference (Symposium)

- 0650H001 T.Nakahashi, M.Atsumi, H.Murai, K.Nomura, K.Ishigami, E.Miyauchi, H.Tsuchiya, K.Iwai, M.Yamaguchi, S.Morimoto: The effect of great earthquake on blood pressure, The 8th china-japan joint hypertension symposium, (China, '07.11), 6th asian-pacific congress of hypertension 9th international symposium on hypertension and related diseases abstract, 117, 2007.

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.
Associate Professor	USUDA Katsuo	thoracic surgery, video assisted thoracoscopic surgery, lung cancer, mediastinal tumor, early lung cancer, interventional bronchology, clinical cytology,.
Research Associate	AIKAWA Hirokazu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery.

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 M.Matoba, H.Tonami, T.Kondou, H.Yokota, K.Higashi, H.Toga, T.Sakuma: Lung Carcinoma : diffusion-weighted MR imaging-preliminary evaluation with apparent diffusion coefficient, *Radiology.*, 243:570-577, 2007.
- 0660B002 Z.Wang, J.Xu, G.Ma, M.Sagawa, M.Shimazaki, Y.Ueda, T.Sakuma: Chronic pulmonary artery occlusion increases alveolar fluid clearance in rats, *J. Thorac. Cardiovasc. Surg.*, 134:1213-1219, 2007.

Reviews

- 0660C001 T.Sakuma: Protective effects of endogenous catecholamine on alveolar fluid balance in acute pancreatitis and hypoxia in rats, *J. O. D.*, 3:90-94, 2007.
- 0660C002 K.Usuda, M.Sagawa, H.Aikawa, M.Ueno, M.Tanaka, Y.Machida, T.Sakuma: Virtual bronchoscopy. Its usefulness and future, *J. Kanazawa. Med. Univ.*, 32:218-221, 2007 (in Japanese) .

Case Reports

- 0660D001 M.Sagawa, Y.Ueda, F.Matsubara, H.Sakuma, Y.Yoshimitsu, H.Aikawa, K.Usuda, H.Minato, T.Sakuma: Intrapulmonary solitary fibrous tumor diagnosed by immunohistochemical and genetic approaches: report of a case, *Surg Today*, 37:423-425, 2007.
- 0660D004 T.Terauchi, M.Takenaka, Y.Asakura, M.Nakano, K.Sato, M.Sagawa, N.Kurose, T.Nojima: Pulmonary pleomorphic carcinoma: two-case report, *J. Jpn. Soc. Clin. Cytol.*, 46:227-231, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0660I001 Y.Machida, Z.Wang, M.Tanaka, H.Aikawa, K.Usuda, M.Sagawa, T.Sakuma: Chronic pulmonary artery occlusion increases alveolar fluid clearance rats, *ATS2007 International Conference*, (San Francisco, '07.05), *Am.J.Respir.Crit.Care.Med.*, 175:A236, 2007.
- 0660I002 M.Tanaka, G.Ma, Y.Machida, H.Aikawa, K.Usuda, M.Sagawa, T.Sakuma: Beta-1 agonist, not beta-2 agonist, increases alveolar fluid clearance in rats with renal failure, *ATS2007 International Conference*, (San Francisco, '07.05), *Am.J.Respi.Cri.Care Med.*, 175:A235, 2007.

0670 Lifestyle-related Diseases Center

Faculty

Title	Name	Field of Specialization
Director(Additional Post)	MATSUI Shinobu	cardiac function, echocardiography, myocardial metabolism
Professor(Additional Post)	KIGOSHI Toshikazu	intracellular signaling of hormones, aldosteronesecretion
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 activity, Exercise therapy for the lifestyle-related disease, Training for health Medical Education.
Senior Assistant Professor(Additional Post)	NAKANISHI Yumiko	Preventive medicine.
Assistant Professor	KUDOH AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology.
Assistant Professor	KITADA Munehiro	diabetes, hypertension.
Assistant Professor	KAMODA Sachiko	lifestyle-related disease, Preventive medicine.

Keywords of Research

life-style related disease, metabolic syndrome, 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

Case Reports

- 0670D001 S.Kamoda, F.Enokido, I.Jibiki: Two cases of insomnia successfully treated with Yoku-kan-san, Journal of Japanese Association of Oriental Psychosomatic Medicine., 22:62-66, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0670I001 S.Kamoda, H.Kawada, I.Jibiki: Four cases that combination therapy of donepezil and yoku-kan-san did success of in patient with dementia, WPA Regional Meeting 2007 Seoul, (Korea, '07.04).
- 0670I002 (H.Akazawa), C-H.Liao, Y.Kudo, S.Kudoh akazawa, I.Komuro: Essential roles of constitutive autophagy in quality control of proteins in the hearts, XIX World Congress of the ISHR, (Italy, '07.06).
- 0670I003 (H.Akazawa), C-H.Liao, Y.Kudo, K.Ito, N.Yasuda, Y.Qin, S.Kudoh akazawa, I.Komuro: Essential roles of Atg7 in starvation-induced and constitutive autophagy in the hearts, American Heart Association's Scientific Sessions 2007, (Florida, '07.11).

0680 Medical Genetic Center

Faculty

Title	Name	Field of Specialization
Director(Additional Post)	KAKINUMA Hiroaki	child neurology, inborn errors of metabolism, congenital malformation, medical genetics
Assistant Professor(Additional Post)	ITO Masatsune	child endocrinology
Assistant Professor(Additional Post)	SATO Hitoshi	clinical virology, child infectious disease

Keywords of Research

genetic variation, genetic mutation, genetic counseling, copy number variation

Outline of Research

genetic counseling, clinical genetics, congenital anomaly, child neurology, inborn errors of metabolism, pediatric endocrinology.

0690 Department of Endoscopy

Faculty

Title	Name	Field of Specialization
Associate Professor	ITOU Tohru	Diagnosis for esophagus,gastro-intestine,colon,liver & bileduct disease.Endoscopic treatment of its disease,especially,superficial type esophageal cancer,early gastric cancer,early colon cancer.
Assistant Professor	KAWAURA Ken	Diagnosis for esophagus,gastro-intestine,colon, disease.Endoscopic treatment of its disease,especially,superficial type esophageal cancer,early gastric cancer,early colon cancer.

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0690B001 S.Saegusa, Y.Fei, T.Takahashi, H.Sumino, J.Moriya, K.Kawaura, J.Yamakawa, T.Itou, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Oral administration of candesartan improves the survival of mice with viral myocarditis through modification of cardiac adiponectin expression, *Cardiovasc Drugs Ther*, 21:155-160, 2007.
- 0690B002 K.Kawaura, S.Fujii, Y.Murata, T.Hasebe, G.Ishii, T.Itou, Y.Sano, N.Saito, A.Ochiai: The lymphatic infiltration identified by D2-40 monoclonal antibody predicts lymph node metastasis in submucosal invasive colorectal cancer., *Pathobiology.*, 74-328-335, 2007.

Case Reports

- 0690D001 K.Miyazawa, T.Itoh, E.Kinoshita, T.Nojima, T.Takahashi, T.Kanda, K.Suzuki: Prostate cancer producing carcinoembryonic antigen and carbohydrate antigen 19-9 without expression of prostate-specific antigen, *J. Kanazawa. Med. Univ.*, 32:29-31, 2007.

School of Nursing

8010 Basic Nursing

Faculty

Title	Name	Field of Specialization
Professor	TAWARA Tomoe	Feelings and QOL of senior citizens living care-house run by a municipal government or private sector.
Associate Professor	SAKAI Keiko	Proficiency and stressor of teachers in nursing.
Research Associate	FUKUTSUKA Takayo	Quality of life of persons with sleep apnea syndrome.

Keywords of Research

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

Outline of Research

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1. Feelings and QOL of senior citizens living care-house run by a municipal government or private sector.
 2. Proficiency and stressor of teachers in nursing.
 3. Quality of life of persons with sleep apnea syndrome.
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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
Research Associate	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 developed the Japanese research 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 (S.Yoshino), S.Sahara, T.Maeno, K.Kitaoka-Higashiguchi, Y.Tomotsune, K.Taniguchi, E.Tomita, K.Usami, T.Haoka, H.Nagamura, I.Matsuzaki: Relationship between mental health of Japanese residents and the quality of medical service, *Tairyoku Eiyo Menekigaku Zasshi.*, 17:3-11, 2007.
- 8030B002 K.Kitaoka-Higashiguchi, M.Sasaki, Y.Morikawa, H.Nakagawa: Applying the General Coping Questionnaire to nurses and the prospect of the shortened version, *Hokuriku Japanese Journal of Public Health.*, 33:56-59, 2007 (in Japanese) .

Reviews

- 8030C001 K.Kitaoka-Higashiguchi, W.Schaufeli: Burnout: an overview of 25 years of concept and research, *Hokuriku Japanese Journal of Public Health.*, 34:1-7, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 8030I001 K.Kitaoka-Higashiguchi, T.Fuchisaki, A.Sakagami, R.Oketani, S.Seto, S.Hasegawa: Nursing job strain and burnout; prospective study, *International Councils of Nurses Conference, (Yokohama, '07.05)*.

8040 Adult Nursing

Faculty

Title	Name	Field of Specialization
Professor	TAMURA Sachiko	Nephrology Nursing, Transplant Nursing.
Associate Professor	HIRAYAMA Emiko	Nursing Ethics, Medical Ethics, Caring.
Assistant Professor	UCHIDA Maki	Cancer Nursing, Terminal Care.
Research Associate	KITAMURA Yoshiko	Cancer Nursing.
Research Associate	YAMAZAKI Matsumi	Therapeutic Exercise in patients with Chronic Disease.

Keywords of Research

Nephrology Nursing, Transplant Nursing, Chronic Disease Nursing, Terminal Care, Cancer Nursing, Nursing Ethics

Outline of Research

Clinical Medical-Surgical Nursing.

8050 Nursing of the Elderly

Faculty

Title	Name	Field of Specialization
Professor	AMATSU Eiko	Nursing of the Elderly.

Keywords of Research

Nursing of the Elderly

Outline of Research

Verification of Nursing Care about Daily living activities and their communication of the elderly with Dementia,also,the effectiveness of the elderly Dementia prevention on the basis Local residents.

The Study of General Principle of Florence Nightingale connected with Nurse's recognition and expression in Nursing phenomenon.

8070 Maternity Nursing

Faculty

Title	Name	Field of Specialization
Professor	TSUKADA Tokie	Critical nursing, Maternal and child health, Nursing education.
Associate Professor	SASANO Kyoko	Critical nursing, Nursing education.
Research Associate	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.

Publications

Originals

- 8070B001 K.Sasano, H.Kakinuma, M.Hiramatsu, T.Nakamura, K.Takekawa: Current state and demand of pediatric emergency services recognized by guardians in Ishikawa prefecture, Hokuriku Japanese Journal of Public Health., 34:29-34, 2007 (in Japanese) .
- 8070B002 M.Hiramatsu, T.Nakamura, H.Sato, K.Takekawa, K.Sasano, H.Kakinuma: The questionnaire survey of the current situation in the pediatric emergency for the residents in Ishikawa prefecture, Japanese Society of Emergency Pediatrics., 6:216-223, 2007 (in Japanese) .

8080 Community Nursing

Faculty

Title	Name	Field of Specialization
Professor	FUKUMA Kazumi	Community Health Nursing
Assistant Professor	HAMAZAKI Yuko	public health nursing study of elder abuse
Research Associate	MATSUMOTO Yoshiko	Community Health nursing

Keywords of Research

community nursing-care activity, community nursing education, Health promotion, successful aging, activity of community organization

Outline of Research

We aim at the research of community nursing that contributes to sustain and improve quality of life and health of people in the community. We have been studying about community nursing-care activity, community nursing education, Health promotion, successful aging and elder abuse

Publications

Originals

- 8080B001 Y.Hamazaki, K.Saeki, T.Kido: Studies of social activities and well-being of elderly in a regional core city (part 1) :status of social activities of independent elderly, Hokuriku Japanese Journal of Public Health., 33:80-85, 2007 (in Japanese) .
- 8080B002 Y.Hamazaki, K.Saeki, K.Tsukasaki, T.Kido: Studies of social activities and well-being of elderly in a regional core city (part 2) :factors on subjective well-being of people in their late old age, Hokuriku Japanese Journal of Public Health., 33:86-91, 2007 (in Japanese) .

8090 Home Care Nursing

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	MAEDA Shuko	home care , home health care nurse.

Keywords of Research

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

Outline of Research

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

8100 Human Science

Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Cardiovascular Pharmacology
Professor	OKADA Masato	Peripheral nerve surgery, Trauma
Professor	KAKINUMA Hiroaki	Pediatric neurology, Pediatric clinical genetics
Professor	KOHNO Hiroyuki	Experimental pathology, Tumor immunology
Professor	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
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

Keywords of Research

T. Ishibashi/ Nitric Oxide, T. Ishibashi/ Nitrite, T. Ishibashi/ Vasodilators, M. Okada/ Calcaneal fracture, M. Okada/ carpal tunnel syndrome

Outline of Research

T.Ishibashi: Studies of kinetics of NO and NO related compound in vivo and mechanism of action of NO releasing vasodilators.

M.Okada: Percutaneous osteosynthesis of calcaneal fractures. Endoscopic surgical treatment of carpal tunnel syndrome.

H.Kakinuma: Pediatric neurology, Pediatric clinical genetics.

H.Kohno: Experimental pathology, Tumor immunology.

Y.Morikawa: Cardiovascular epidemiology, occupational medicine.

M.Kojima: Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature.

R.Honda: Environment and health, Epidemiology

Books

- 8100A004 T.Tanaka, S.Miyamoto, Y.Yausi, H.Kohno, S.Sugie: Obesity: a risk for hepatocellular carcinoma, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 57-74, Research Signpost, Kerala (India), 2007.
- 8100A005 (M.Hosokawa), Y.Yausi, S.Suzuki, H.Kohno, T.Tanaka: Chemopreventive effects of conjugated linolenic acids on colon cancer, Cancer: Disease Progression and Chemoprevention(Takuji Tanaka), 239-254, Research Signpost, Kerala (India), 2007.

Publications

Originals

- 8100B001 M.Kojima, L.Sun, I.Hata, Y.Sakamoto, H.Sasaki, K.Sasaki: Efficacy of α -lipoic acid against diabetic cataract in rat, Jpn. J. Ophthalmol., 51:10-13, 2007.
- 8100B002 J.Yoshida, T.Ishibashi, M.Nishio: G1 cell cycle arrest by amlodipine, a dihydropyridine Ca^{2+} channel blocker, in human epidermoid carcinoma A431 cells, Biochem. Pharmacol., 73:943-953, 2007.

- 8100B003 (W.Teeyakasem), M.Nishijo, R.Honda, S.Satarug, W.Swaddiwudhipong, W.Ruangyuttikarn: Monitoring of cadmium toxicity in a Thai population with high-level environmental exposure, *Toxicol. Lett.*, 169:185–195, 2007.
- 8100B004 (K.Wake), H.Hongo, S.Watanabe, M.Taki, Y.Kamimura, Y.Yamanaka, T.Uno, M.Kojima, I.Hata, K.Sasaki: Development of a 2.45-GHz local exposure system for In Vivo study on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 55:588–596, 2007.
- 8100B005 S.Yoneyama, K.Miura, S.Sasaki, K.Yoshita, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Dietary intake of fatty acids and serum C-reactive protein in Japanese, *J Epidemiol*, 17:86–92, 2007.
- 8100B006 A.Nasermoaddeli, K.Miura, A.Matsumori, Y.Soyama, Y.Morikawa, A.Kitabatake, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with hypertrophic cardiomyopathy in Japan: results from a nationwide study, *Heart*, 93:711–715, 2007.
- 8100B007 (A.Hirata), S.Watanabe, O.Fujiwara, M.Kojima, K.Sasaki, T.Shiozawa: Temperature elevation in the eye of anatomically based human head models for plane-wave exposures, *Phys. Med. Biol.*, 52:6389–6399, 2007.
- 8100B008 (Y.Suwazono), E.Kobayashi, M.Dochi, K.Miura, Y.Morikawa, M.Ishizaki, T.Kido, H.Nakagawa, K.Nogawa: Combination of the C1429T polymorphism in the G-protein beta-3 subunit gene and the A1330V polymorphism in the low-density lipoprotein receptor-related protein 5 gene is a risk factor for hypercholesterolaemia, *Clin. Exp. Med.*, 7:108–114, 2007.
- 8100B009 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, F.Beppu, M.Hosokawa, K.Miyashita, T.Tanaka: 9trans,11trans conjugated linoleic acid inhibits the development of azoxymethane-induced colonic aberrant crypt foci in rats, *Nutr. Cancer.*, 59:82–91, 2007.
- 8100B010 Y.Yasui, R.Suzuki, S.Miyamoto, T.Tsukamoto, S.Sugie, H.Kohno, T.Tanaka: A lipophilic statin, pitavastatin, suppresses inflammation-associated mouse colon carcinogenesis, *Int. J. Cancer*, 121:2331–2339, 2007.
- 8100B011 T.Nakamura, J.Yamamura, H.Sato, H.Kakinuma, H.Takahashi: Vasculitis induced by immunization with Bacillus Calmette-Guerin followed by atypical mycobacterium antigen: a new mouse model for Kawasaki disease, *FEMS Immunol. Med. Microbiol.*, 49:391–397, 2007.
- 8100B012 K.Hayashi, R.Suzuki, S.Miyamoto, S.Yoshitani, H.Kohno, S.Sugie, S.Takashima, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplastic lesions in C57BL/KsJ-*db/db* mice, *Nutr. Cancer.*, 58:75–84, 2007.
- 8100B013 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, K.Wakabayashi, T.Tanaka: Ursodeoxycholic acid versus sulfasalazine in colitis-related colon carcinogenesis in mice, *Clin. Cancer Res.*, 13:2519–2525, 2007.
- 8100B014 H.Kohno, M.Takahashi, Y.Yasui, R. Suzuki, S.Miyamoto, Y.Kamanaka, M.Naka, T.Maruyama, K.Wakabayashi, T.Tanaka: A specific inducible nitric oxide synthase inhibitor, ONO-1714 attenuates inflammation-related large bowel carcinogenesis in male *Apc^{Min/+}* mice, *Int. J. Cancer*, 121:506–513, 2007.
- 8100B015 H.Kohno, Y.Totsuka, Y.Yasui, R.Suzuki, S.Sugie, K.Wakabayashi, T.Tanaka: Tumor-initiating potency of a novel heterocyclic amine, aminophenylnorharman in mouse colonic carcinogenesis model, *Int. J. Cancer*, 121:1659–1664, 2007.
- 8100B016 Y.Morikawa, H.Nakagawa, K.Miura, Y.Soyama, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, K.Nogawa: Effect of shift work on body mass index and metabolic parameters, *Scand. J. Work Environ. Health*, 33:45–50, 2007.
- 8100B017 (S.Miyamoto), R.Suzuki, Y.Yasui, H. Kohno, S.Sugie, A.Murakami, H.Ohigashi, T.Tanaka: Lack of enhancing effect of lauric acid on the development of aberrant crypt foci in male ICR mice treated with azoxymethane and dextran sodium sulfate, *J. Toxicol. Pathol.*, 20:93–100, 2007.
- 8100B018 (K.Fujikake), M.Miyao, R.Honda, M.Omori, Y.Matsuura, H.Takada: Evaluation of high quality LCDs displaying moving pictures, on the basis of the form obtained from statokinesigrams, *Forma*, 22:199–206, 2007.
- 8100B019 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, *Hokuriku Japanese Journal of Public Health.*, 33:76–79, 2007 (in Japanese) .

- 8100B020 K.Kitaoka-Higashiguchi, M.Sasaki, Y.Morikawa, H.Nakagawa: Applying the General Coping Questionnaire to nurses and the prospect of the shortened version, *Hokuriku Japanese Journal of Public Health.*, 33:56-59, 2007 (in Japanese) .
- 8100B021 Q.Jingtao, H.Sasaki, L.Zhongxin, Z.Jinsheng, W.Kaili, M.Kojima, Y.Sakamoto, R.Honda, Y.Kawakami, Y.Yamashiro, Z.Jinsong, K.Sasaki, Japan-China Co-operative Study Group: Current status about blindness among low-income farmers in Sanya district, hainan, China, *Japanese journal of clinical ophthalmology Rinsho ganka.*, 61:411-416, 2007 (in Japanese) .
- 8100B023 Y.Matsue, T.Nakamura, H.Sato, C.Akita, M.Hiramatsu, T.Kito, C.Kitaoka, J.Yamamura, T.Ikeda, T.Fujiki, M.Ito, A.Kobayashi, T.Nakamura, H.Kakinuma, E.Koh, H.Takahashi: Clinical importance of basic life support in childhood submersion, *Japanese journal of pediatrics.*, 60:1195-1199, 2007 (in Japanese) .
- 8100B026 K.Sasano, H.Kakinuma, M.Hiramatsu, T.Nakamura, K.Takekawa: Current state and demand of pediatric emergency services recognized by guardians in Ishikawa prefecture, *Hokuriku Japanese Journal of Public Health.*, 34:29-34, 2007 (in Japanese) .
- 8100B027 M.Hiramatsu, T.Nakamura, H.Sato, K.Takekawa, K.Sasano, H.Kakinuma: The questionnaire survey of the current situation in the pediatric emergency for the residents in Ishikawa prefecture, *Japanese Society of Emergency Pediatrics.*, 6:216-223, 2007 (in Japanese) .

Reviews

- 8100C001 (B.Narayan), M.Hosokawa, Y.Yasui, R.Suzuki, H.Kohno, T.Tanaka, K.Miyashita: Chemopreventive effects of conjugated linolenic acids (CLN) occurring in plant seed oils, *Current nutrition & food science.*, 3:309-318, 2007.

Case Reports

- 8100D001 H.Kakinuma, A.Hori, M.Ito, T.Nakamura, H.Takahashi: An inherited disorder characterized by repeated episodes of bilateral ballism: a case report, *Mov. Disord.*, 22:2110-2131, 2007.

Short Communications

- 8100E001 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, *Organohalogen Compounds.*, 69-2031-2034, 2007.

Others

- 8100F001 Y.Noborisaka, R.Honda, M.Ishizaki, M.Nakata, Y.Yamada: Alcohol and cigarette consumption, renal function and blood pressure in middle-aged healthy men, *J Hum Hypertens.*, 21:966-968, 2007.
- 8100F007 M.Kojima: Ultraviolet exposure as a risk factor in cataract formation, *J & J*, 1-2, 2007 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 8100H001 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 8100H002 (K.Nambunmee), T.Pham-The, R.Honda, M.Nishijo, K.Miura, H.Nakagawa, W.Rungyuttikarn: Association of renal tubular injury and bone resorption induced by cadmium exposure of inhabitants living in polluted area, Maesot district, Tak province, Thailand, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).

- 8100H003 (T.Pham-The), K.Nambunmee, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow up study about effects of cadmium (Cd) on renal functions among Japanese population living in a non-polluted area, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).

International Conference (Presentations)

- 8100I001 K.Miyazawa, S.Miyamoto, R.Suzuki, Y.Yasui, R.Ikeda, H.Kohno, M.Yano, T.Tanaka, K.Hata, K.Suzuki: Dietary beta-cryptoxanthin inhibits N-butyl-N-(4-hydroxybutyl)nitrosamine-induced urinary bladder carcinogenesis in male ICR mice, The 22nd Annual EAU Congress, (Berlin, '07.03).
- 8100I002 Y.Yasui, H.Kohno, R.Suzuki, S.Sugie, N.Niho, M.Takahashi, K.Wakabayashi, T.Tanaka: Dextran sodium sulfate strongly promotes colon carcinogenesis in Apc^{Min/+} mice, The 2nd Biennial Scientific Meeting of International Society for Gastrointestinal Hereditary Tumours, (Yokohama, '07.03).
- 8100I003 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, T.Tanaka: A lipophilic statin, pitavastatin inhibits inflammation-associated mouse colon carcinogenesis., 98th Annual Meeting of American Association for Cancer Research, (Los Angeles, '07.04).
- 8100I004 (S.Miyamoto), K.Hayashi, R.Suzuki, H.Kohno, S.Sugie, S.Takashima, A.Murakami, H.Ohigashi, T.Tanaka: Citrus auraptene suppresses azoxymethane-induced colonic preneoplasia in *db/db* mice, 98th Annual Meeting of American Association for Cancer Research, (Los Angeles, '07.04).
- 8100I005 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, T.Tanaka: Ursodeoxycholic acid inhibits colitis-related colon carcinogenesis in mice: A comparative study regarding the effect of sulphasalazine, 98th Annual Meeting of American Association for Cancer Research, (Los Angeles, '07.04).
- 8100I006 K.Nagai, H.Sasaki, R.Honda, M.Kojima, Y.Sakamoto, J.Qu, K.Sasaki: Prevalence of cataract in eyes with posterior vitreous detachment, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 8100I007 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.Liu, J.Zhang, K.Sasaki: True exfoliation in chinese population in a tropical area -The Sanya Eye Study-, Association for Research in vision and Ophthalmology, (Florida, '07.05).
- 8100I008 M.Kojima, Y.Yamashiro, M.Hanazawa, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Investigation of frequency specificity of ocular effects through quasi-millimeter and millimeter wave exposure, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 8100I009 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: The relationship of axial length and three main types of cataract in the population of a tropical area of China, Association for Research in Vision and Ophthalmology, (Florida, '07.05).
- 8100I010 (H.Wakatsuchi), M.Hanazawa, T.Sakai, S.Watanabe, M.Kojima, Y.Yamashiro, K.Sasaki, O.Hashimoto: Complex permittivities measurements of ocular tissues in quasi-millimeter and millimeter wave bands, Bioelectromagnetics, (Kanazawa, '07.06).
- 8100I011 M.Kojima, M.Hanazawa, Y.Yamashiro, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Possibility of frequency specificity of ocular effects by quasi-millimeter and, Bioelectromagnetics, (Kanazawa, '07.07).
- 8100I012 Y.Yasui, R.Suzuki, H.Kohno, S.Miyamoto, S.Sugie, T.Tanaka: A lipophilic statin, pitavastatin inhibits colitis-related colon carcinogenesis in mice, The 8th Japan-Korea Joint Symposium on Cancer and Ageing Research, (Gifu, '07.08).
- 8100I013 H.Kohno, R.Suzuki, Y.Yasui, S.Miyamoto, S.Sugie, T.Tanaka: Ursodeoxycholic acid inhibits colitis-related colon carcinogenesis in mice, The 8th Japan-Korea Joint Symposium on Cancer and Ageing Research, (Gifu, '07.08).
- 8100I014 T. Ishibashi, N. Nishizawa, M. Nomura, J. Yoshida, M. Nishio: Arterio-venous difference of nitrite kinetics in anesthetized rabbits, Second International Role of Nitrite in Physiology, Pathophysiology, and Therapeutics Meeting, (Bethesda Maryland, USA, '07.09).
- 8100I015 M.Kojima, Y.Yamashiro, H.Sasaki, K.Sasaki: Difference of ocular injury by millimeter wave exposure with different frequency, European association for Vision and Eye Research, (Slovenia, '07.10).

- 8100I016 (M.Ikeda), K.Masumura, K.Matsui, H.Kohno, K.Sakuma, T.Tanaka, T.Kamataki, T.Nohmi: Chemopreventive effects of nobiletin, a citrus constituent, against the genotoxicity of NNK, a tobacco-specific nitrosamine, in the lung of gpt delta transgenic mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 8100I017 K.Nagai, H.Sasaki, R.Honda, Y.Kawakami, Y.Sakamoto, J.Qu, K.Sasaki: Change of light scattering intensity in eyes with posterior vitreous detachment, Monzen eye study, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 8100I018 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Effect of 5-S-GAD (eye drops) on UV-B-induced cataract in rats, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 8100I019 M.Kojima, Y.Yamashiro, Y.Sakamoto, Y.Kawakami, H.Sasaki, K.Sasaki: Difference of cataract development by different frequency in millimeter wave, US-Japan Cooperative cataract Research Group Meeting, (, '07.12).

Medical Research Institute

0740 Division of Human Genetics (Biochemistry)

Faculty

Title	Name	Field of Specialization
Professor	KUHARA Tomiko	Human metabolome analysis for diagnosis of metabolic disorders and personalized medicine
Associate Professor	SHINKA Toshihiro	Chemical diagnosis of metabolic disorders by mass spectrometry (Tyrosinosis, Metabolic disorders of fatty acid beta oxidation, Acylcarnitine analysis, Sulfated bile acids analysis)
Senior Assistant Professor	INOUE Yoshito	Chemical diagnosis and follow up study for metabolic disorders (urea cycle disorders, prenatal diagnosis of organic acidemias, Canavan disease, optical isomer analysis)
Researcher	OHSE Morimasa	Development of data handling method from mass measurement value to evaluation value in diagnosis software

Keywords of Research

human genetics, metabolome, pharmacogenomics, nutrigenomics, metabolomics, mass spectrometry, inborn errors of metabolism, molecular diagnosis, organic acidemia, gas chromatography-mass spectrometry, chemical diagnosis, pilot study of neonatal screening, prenatal diagnosis, personalized medicine, stable isotope dilution, tandem mass spectrometry, electrospray ionization mass spectrometry, 5-fluorouracil toxicity, metabolic profiling, aminoacidemia/aminoaciduria, fatty acid β -oxidation, carnitine, acylcarnitine

Publications

Originals

- 0740B001 T.Shinka, Y.Inoue, M.Ohse, T.Kuhara: Simple and quantitative analysis of urinary sulfated tauro- and glycodihydroxycholic acids in infant with cholestasis by electrospray ionization mass spectrometry, *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.*, 855:104-108, 2007.
- 0740B002 Y.Inoue, T.Shinka, M.Ohse, M.Kohno, K.Konuma, H.Ikawa, T.Kuhara: Changes in urinary level and configuration ratio of D-lactic acid in patients with short bowel syndrome, *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.*, 855:109-114, 2007.

Reviews

- 0740C001 T.Kuhara: Noninvasive human metabolome analysis for differential diagnosis of inborn errors of metabolism, *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.*, 855:42-50, 2007.

Presentations at Conference

International Conference (Symposium)

- 0740H001 T.Shinka: The role of GC/MS in diagnosis of inborn errors of metabolism, Second Genetic Metabolic Symposium, (Bangkok, '07.11), Joint Symposia "Medical Genetics Update 2007" and "Second Genetic Metabolic Symposium", 2007.

0750 Division of Human Genetics (Clinical Medicine)

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	KAKINUMA Hiroaki	Child neurology, inborn errors of metabolism, clinical genetics
Associate Professor	TAKABAYASHI Haruo	fetal medicine, DNA medicine
Research Associate	OZAKI Mamoru	cytogenetics, Molecular cytogenetics

Keywords of Research

genetic counseling, genetic service, prenatal diagnosis, congenital abnormality

Publications

Originals

- 0750B001 (A.Sekizawa), Y.Purwosunu, A..Farina, T.Okai, H.Takabayashi, M.Kita, H.Yura, M.Kitagawa: Development of noninvasive fetal DNA diagnosis from nucleated erythrocytes circulating in maternal blood, *Prenat. Diagn.*, 27:846-848, 2007.
- 0750B002 T.Nakamura, J.Yamamura, H.Sato, H.Kakinuma, H.Takahashi: Vasculitis induced by immunization with Bacillus Calmette-Guerin followed by atypical mycobacterium antigen: a new mouse model for Kawasaki disease, *FEMS Immunol. Med. Microbiol.*, 49:391-397, 2007.
- 0750B003 Y.Matsue, T.Nakamura, H.Sato, C.Akita, M.Hiramatsu, T.Kito, C.Kitaoka, J.Yamamura, T.Ikeda, T.Fujiki, M.Ito, A.Kobayashi, T.Nakamura, H.Kakinuma, E.Koh, H.Takahashi: Clinical importance of basic life support in childhood submersion, *Japanese journal of pediatrics.*, 60:1195-1199, 2007 (in Japanese) .
- 0750B005 K.Sasano, H.Kakinuma, M.Hiramatsu, T.Nakamura, K.Takekawa: Current state and demand of pediatric emergency services recognized by guardians in Ishikawa prefecture, *Hokuriku Japanese Journal of Public Health.*, 34:29-34, 2007 (in Japanese) .
- 0750B006 M.Hiramatsu, T.Nakamura, H.Sato, K.Takekawa, K.Sasano, H.Kakinuma: The questionnaire survey of the current situation in the pediatric emergency for the residents in Ishikawa prefecture, *Japanese Society of Emergency Pediatrics.*, 6:216-223, 2007 (in Japanese) .

Reviews

- 0750C001 (W.Peng), H.Takabayashi, K.Ikawa: Whole genome amplification from single cells in preimplantation genetic diagnosis and prenatal diagnosis, *Eur. J. Obstet. Gynecol. Reprod. Biol.*, 131:13-20, 2007.

Case Reports

- 0750D001 K.Sato, Y.Ueda, J.Sugaya, M.Ozaki, M.Hisaoka, S.Katsuda: Extrauterine endometrial stromal sarcoma with JAZF1/JJAZ1 fusion confirmed by RT-PCR and interphase FISH presenting as an inguinal tumor, *Virchows Arch.*, 450:349-353, 2007.
- 0750D002 H.Kakinuma, A.Hori, M.Ito, T.Nakamura, H.Takahashi: An inherited disorder characterized by repeated episodes of bilateral ballism: a case report, *Mov. Disord.*, 22:2110-2131, 2007.

0770 Division of Core Facility (Radioisotope Center)

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Research Associate	YAMASHITA Masatoshi	Radiation safety management.

Keywords of Research

RNA surveillance, nonsense mediated mRNA decay, mutation, DNA microarray, transcriptome, proteome, apoptosis, Energy-filtering electron microscopy, Element mapping, Ultra micro structure, mouse germ cells, DNA repair, fibroblast growth factor, centrosome, tumor growth angiogenesis, micro RNA

Outline of Research

Quality control of genetic information

Publications

Originals

0770B001 T.Shimasaki, Y.Ishigaki, T.Minato, Y.Motoo: Apoptosis-related gene expression profile is changed by gemcitabine in pancreatic cancer cell line(PANC-1), The Journal of Japan Pancreas Society., 22:14-20, 2007 (in Japanese) .

Others

0770F001 (Kiba T), Y.Kintaka, E.Nakada, Y.Suzuki, S.Inoue, Y.Ishigaki: High-quality RNA extraction from rat pancreas for microarray analysis, Pancreas, 35:98-100, 2007.

Presentations at Conference

International Conference (Presentations)

0770I001 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, The Second Meeting of Asian-Oceanic Pancreatic Association(AOPA), (Kobe, '07.10).

0770I002 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).

0780 Division of Core Facility (Experimental Animal Center)

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	MATSUI Shinobu	cardiac function, echocardiography,myocardial metabolism.
Senior Assistant Professor	SO Shihei zong zhi ping	cell cycle control and immunopathology.

Keywords of Research

cardiac function, echocardiography, myocarial metabolism, cell cycle control and immunopathology

Outline of Research

1. cardiac function, echocardiography, myocarial metabolism.
2. cell cycle control and immunopathology.

Publications

Originals

- 0780B001 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, Hokuriku Japanese Journal of Public Health., 33:76-79, 2007 (in Japanese) .

0790 Division of Core Facility (Morphological Equipment Center)

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	KURIHARA Takayuki	Mechanism of Chromosomal Instability

Keywords of Research

Mechanism of Chromosomal Instability.

Outline of Research

Mechanism of Chromosomal Instability.

0800 Division of Core Facility (High-Tech Research Center)

Faculty

Title	Name	Field of Specialization
Associate Professor(Additional Post)	NISHIJO Muneko	Epidemiology of health effects of environmental cadmium exposure, and dioxins., Toxicology of environmental pollutants.
Researcher	OKUWA Takako	neurovirology
Researcher	KIM Mihye	Cancer chemoprevention by natural products.

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

- 0800B001 (W.Teeyakasem), M.Nishijo, R.Honda, S.Satarug, W.Swaddiwudhipong, W.Ruangyuttikarn: Monitoring of cadmium toxicity in a Thai population with high-level environmental exposure, *Toxicol. Lett.*, 169:185-195, 2007.
- 0800B002 M.Nishijo, J.Kuriwaki, E.Hori, K.Tawara, H.Nakagawa, H.Nishijo: Effects of maternal exposure to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin on fetal brain growth and motor and behavioral development in offspring rats, *Toxicol. Lett.*, 173:41-47, 2007.
- 0800B003 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, *Hokuriku Japanese Journal of Public Health.*, 33:76-79, 2007 (in Japanese) .

Short Communications

- 0800E001 (T.Kido), S.Maruzeni, H.Suzuki, Y.Odamae, M.Muranaka, R.Naganuma, K.Tawara, M.Nishijo, H.Nakagawa, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu, H.Oka, K.Noguchi: Five years studies on the long term effects of waragent orange/dioxin on human health in Vietnam, *Organohalogen Compounds.*, 69:572-575, 2007.
- 0800E002 (M.Muranaka), T.Kido, Y.Odamae, H.Suzuki, R.Naganuma, H.Nakagawa, M.Nishijo, K.Tawara, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: An epidemiological study on health effects by dioxin in Vietnam; comparison of visual acuity of junior high school students between herbicide sprayed and non-sprayed areas, *Organohalogen Compounds.*, 69:2035-2038, 2007.
- 0800E003 K.Tawara, M.Nishijo, H.Nakagawa, T.Kido, R.Naganuma, H.Suzuki, TM.Hung, LTH.Thom, PT.Dung, DD.Nhu: Association of having birth defect children with serum dioxin levels in Vietnam, *Organohalogen Compounds.*, 69:568-571, 2007.
- 0800E004 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pam, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8-tetrachlorodibenzo-*p*-dioxin(TCDD)disturbed development of taste preference in rat offspring, *Organohalogen Compounds.*, 69:1809-1812, 2007.

- 0800E005 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, *Organohalogen Compounds.*, 69-2031-2034, 2007.

Presentations at Conference

International Conference (Symposium)

- 0800H001 K.Tawara, M.Nishijo, R.Honda, H.Nakagawa, T.Seto, T.Kido: Relationship between food preference in women and PCDDs/DFs levels in breast milk in the northern district of Japan, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0800H002 (K.Nambunmee), T.Pham-The, R.Honda, M.Nishijo, K.Miura, H.Nakagawa, W.Rungyuttikarn: Association of renal tubular injury and bone resorption induced by cadmium exposure of inhabitants living in polluted area, Maesot district, Tak province, Thailand, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).
- 0800H003 (T.Pham-The), K.Nambunmee, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow up study about effects of cadmium (Cd) on renal functions among Japanese population living in a non-polluted area, 6th Annual congress of Asia Pacific association of medical toxicology, (Bangkok, '07.12).

International Conference (Presentations)

- 0800I001 M.Nishijo, J.Kuriwaki, A.Hashimoto, K.Fukunaga, H.Nakagawa, T.Pharm, E.Hori, K.Torii, H.Nishijo: Prenatal exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin disturbed development of taste preference in rat off-springs, 27th International symposium on halogenated persistent organic pollutants, (Tokyo, '07.08).
- 0800I002 Pharm-The T, Nambunmee K, R.Honda, M.Nishijo, K.Miura, H.Nakagawa: Eight-year follow-up study (from 1998 to 2006) about effects of cadmium on renal functions among Japanese population living in a non-polluted area., 6th Annual Congress of Asia-Pacific Association of Medical Toxicology, (Bangkok, '07.12).
- 0800I003 Y.Yasui, M.Kim, S.Miyamoto, R.Ishigamori-Suzuki, S.Sugie, T.Tanaka: The inhibitory effect of pitavastatin on colitis-related colon carcinogenesis in mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 0800I004 T.Tanaka, Y.Yasui, M.Kim, S.Miyamoto, F.Epifano, M.Curini, S.Genovese, R.Ishigamori-Suzuki: A novel prodrug of ferulic acid suppresses AOM/DSS-induced mouse colon carcinogenesis, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).
- 0800I005 M.Kim, Y.Yasui, S.Miyamoto, S.Sugie, A.Murakami, R.Ishigamori-Suzuki, T.Tanaka: Dietary pitavastatin inhibits 4-nitroquinoline-1-oxide-induced carcinogenesis in the upper-digestive organs of *rasH2* mice, 9th International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis (ICMAA-2007), (Jeju Island (Korea), '07.12).

0900 Division of Cell Medicine

Faculty

Title	Name	Field of Specialization
Professor	FUJIKAWA Kohzaburo	polyploid cells, cell cycle, transformation
Assistant Professor	MIYAGOSHI Minoru	Cell biology

Keywords of Research

polyploid cells, polyploidization, Meth-A cells, V79 cells, triploid cells, tetraploid cells, octaploid cells, H-1(ES)cells

Outline of Research

Study of polyploid cells

Publications

Originals

- 0900B001 K. Fujikawa-Yamamoto, M. Miyagoshi, H. Yamagishi: Establishment of a tetraploid cell line from mouse H-1 (ES) cells highly polyploidized with demecolcine, *Cell Prolif.*, 40:327-337, 2007.
- 0900B002 M. Miyagoshi, K. Fujikawa-Yamamoto, Y. Yamagishi: The establishment of tetraploid V79 cells using demecolcine, *J. Kanazawa. Med. Univ.*, 32:170-175, 2007.
- 0900B003 K. Fujikawa-Yamamoto, M. Miyagoshi, Y. Yamagishi: Polyploidization of 2nH-1 (ES) cells by K-252a and staurosporine, *Hum. Cell.*, 20:91-99, 2007.

Reviews

- 0900C001 K.Fujikawa: A hypothesis for the fractal structure of mammalian genome I -The construction of a hypothesis-, *J. Kanazawa. Med. Univ.*, 32:89-95, 2007 (in Japanese) .
- 0900C002 K.Fujikawa: A hypothesis for the fractal structure of mammalian genome II -The genome structure of polyploid cells-, *J. Kanazawa. Med. Univ.*, 32:96-101, 2007 (in Japanese) .

0910 Division of Advanced Medicine

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Shinobu	Clinical cardiology
Professor	TOMOSUGI Naohisa	Clinical Nephrology
Associate Professor	NAGAO Yosinobu	spermatogenesis, epigenetics, endocrine disruptors
Assistant Professor	UEDA Tadashi	cardiac muscle, lung, cell biology, cytochemistry

Keywords of Research

heart failure, cardiomyopathy, neurohumoral factor, immunity, autoantibody, spermatogenesis, cell cycle, epigenetics, endocrine disruptors, meiosis

Outline of Research

1. Myocardial injury due to autoimmunity against G-protein-coupled receptor. Growing evidence suggested that G-protein-coupled receptor-directed autoimmune mechanism may play an important role in the pathogenesis of idiopathic dilated cardiomyopathy. Our study showed that specific removal of anti-G-protein coupled receptor autoantibodies improved cardiac structure and function in experimental autoimmune cardiomyopathy.
2. Hecpudin, a key regulator of iron metabolism, is expressed in the liver, distributed in blood, and excreted in urine. However, to date, no reliable and practical method for measuring the bioactive form of hepcidin in serum has been developed. Here, we employed surface-enhanced laser desorption ionization time of flight mass spectrometry (SELDI-TOF MS) to analyze the expression of serum hepcidin in hemodialysis patients. Hepcidin-25 was found to accumulate in the serum of hemodialysis patients; this could contribute to the pathogenesis of renal anemia by decreasing the available iron for hematopoiesis.
3. Histone modifications in meiotic prophase of spermatogenesis.

Publications

Originals

- 0910B001 H.Yokota, J.Guo, M.Matoba, K.Higashi, H.Tonami, Y.Nagao: Lactate, choline, and creatine levels measured by *in vitro* ¹H-MRS as prognostic parameters in patients with non-small-cell lung cancer, *J. Magn. Reson. Imaging.*, 25:992-999, 2007.
- 0910B002 M.Nakashima, K.Miura, S.Matsui, N.Tamura, Y.Morikawa, M.Nishijo, Y.Nakanishi, H.Nakagawa: Screening program using exercise electrocardiogram for new students in a medical school: findings during past 20 years, *Hokuriku Japanese Journal of Public Health.*, 33:76-79, 2007 (in Japanese) .

Reviews

- 0910C003 N.Tomosugi: Iron overload in renal anemia, *The Japanese journal of clinical dialysis.*, 23:1555-1562, 2007 (in Japanese) .

Others

- 0910F001 (H.Kawabata), N.Tomosugi, J.Kanda, Y.Tanaka, K.Yoshizaki, T.Uchiyama: Anti-interleukin 6 receptor antibody tocilizumab reduces the level of serum hepcidin in patients with multicentric Castleman's disease, *Haematologica.*, 92:857-858, 2007.

Presentations at Conference

International Conference (Presentations)

- 0910I001 K.Kitagawa, N.Tomosugi, H.Tuchida, H.Sasaki: Automated identification and quantification of tear proteins from Sjogern's syndrome by LC/MS on a hybrid linear ion trap mass spectrometer, 5th international Conference on the Tear Film & Ocular Surface : Basic Science and Cliical Relevance, (Italy, '07.08).
- 0910I002 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, The Second Meeting of Asian-Oceanic Pancreatic Association(AOPA), (Kobe, '07.10).
- 0910I003 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).

0920 Division of Molecular Oncology and Virology

Faculty

Title	Name	Field of Specialization
Professor	TAKEGAMI Tsutomu	Molecular mechanism of flavivirus replication, interaction with host cells and viral carcinogenesis
Professor(Additional Post)	MOTOO Yoshiharu	Clinical Oncology,Gastroenterology,Cancer Cell Biology
Associate Professor	OTA Takahide	Molecular analysis of the mechanism of cancer metastasis
Assistant Professor	MURAKAMI Manabu	Molecular analysis and development of antiviral drugs: Mechanism of antiviral action of RNAi

Keywords of Research

cancer, carcinogenesis, metastasis, cell transformation, gene expression, hepatitis C virus, flavivirus, Japanese encephalitis virus, virus replication, RhoGDI, Rho family, Eomes, epithelial/mesenchymal, nonstructural protein NS3, RNA synthesis, transfection, persistent infection, RNAi

Outline of Research

Molecular analyses of virus replication, carcinogenesis and metastasis

Publications

Originals

- 0920B001 L.Dong, Y.Masaki, T.Takegami, T.Kawanami, K.Itoh, Z.Jin, C.Huang, X.Tong, T.Fukushima, M.Tanaka, T.Sawaki, T.Sakai, S.Sugai, T.Okazaki, Y.Hirose, H.Umehara: Cloning and expression of two human recombinant monoclonal Fab fragments specific for EBV viral capsid antigen, *Int. Immunol.*, 19:331-336, 2007.
- 0920B002 (J.Pei-hong), Y.Motoo: Expression of interleukin-22 in human melanoma cell line.(in Chinese), *J. Clin. Dermatology.*, 36:346-347, 2007.
- 0920B003 (W.Mai), K.Miyashita, A.Shakoori, B.Zhang, Z.Weil Yu, Y.Takahashi, Y.Motoo, K.Kawakami, T.Minamoto: Detection of active fraction of glycogen synthase kinase 3 β in cancer cells by nonradioisotopic in vitro kinase assay, *Oncology*, 71:297-305, 2007.
- 0920B004 (A.Ujike-Asai), A.Okada, Y.Du, M.Maruyama, X.Yuan, F.Ishikawa, Y.Motoo, K.Isobe, H.Nakajima: Large defects of type 1 allergic response in telomerase reverse transcriptase knockout mice, *J. Leukoc. Biol.*, 82:429-435, 2007.
- 0920B005 J.Yamakawa, J.Moriya, T.Takahashi, A.Ishige, Y.Motoo, F.Yoshizaki, T.Kanda: A kampo medicine, boi-ogi-to, inhibits obesity in ovariectomized rats, *eCAM*, 1-9, 2007.
- 0920B006 L.Dong, Y.Masaki, T.Takegami, Z.Jin, C.Huang, T.Fukushima, T.Sawaki, T.Kawanami, T.Saeki, K.Kitagawa, S.Sugai, T.Okazaki, Y.Hirose, H.Umehara: Clonality analysis of lymphoproliferative disorders in patients with Sjögren's syndrome, *Clin. Exp. Immunol.*, 150:279-284, 2007.
- 0920B007 (M.Gironella), M.Seux, M-J.Xie, C.Cano, R.Tomasini, J.Gommeaux, S.Garcia, J.Nowak, ML.Yeung, K-T.Jeang, A.Chaix, L.Fazli, Y.Motoo, Q.Wang, P.Rocchi, A.Russo, M.Gleave, J-C.Dagorn, JL.Iovanna, A.Carrier, M-J.Pébusque, NJ.Duseti: Tumor protein 53-induced nuclear protein 1 expression is repressed by miR-155, and its restoration inhibits pancreatic tumor development., *Proc. Natl. Acad. Sci. U.S.A.*, 104:16170-16175, 2007.
- 0920B008 (S-B.Su), M-J.Xie, N.Sawabu, Y.Motoo: Suppressive effect of herbal medicine saikokeishito on acinar cell apoptosis in rat spontaneous chronic pancreatitis, *Pancreatology.*, 7:28-36, 2007.

0920B009 (D.Closa), Y.Motoo, JL.Iovanna: Pancreatitis-associated protein: from a lectin to an anti-inflammatory cytokine., *World J. Gastroenterol.*, 13:170–174, 2007.

0920B010 T.Shimasaki, Y.Ishigaki, T.Minato, Y.Motoo: Apoptosis-related gene expression profile is changed by gemcitabine in pancreatic cancer cell line(PANC-1), *The Journal of Japan Pancreas Society.*, 22:14–20, 2007 (in Japanese) .

Case Reports

0920D001 Y.Takahashi, T.Kiba, K.Yamaguchi, Y.Saitou, K.Nishio, M.Iguchi, Y.Motoo: A case undergoing repeated anaphylactic shock after systemic administration of vinorelbine, *Cancer & chemotherapy.*, 34:2321–2323, 2007 (in Japanese) .

Short Communications

0920E001 T.Ota, M.Maeda, M.Murakami, T.Takegami, S.Suto, M.Tatsuka: Activation of Rac1 by Rho-guanine nucleotide dissociation inhibitor- β with defective isoprenyl-binding pocket, *Cell Biol. Int.*, 31:92–96, 2007.

Presentations at Conference

International Conference (Symposium)

0920H001 Y.Motoo, T.Shimasaki, T.Minamoto: Gemcitabine changes the gene expression of human pancreatic cancer cells : search for new therapeutic molecular targeting, NATO Advanced Research Workshop, (Tashkent,Uzbekistan, '07.09).

0920H002 Y.Motoo, I.Arai, I.Hyodo, K.Tsutani: Introduction of GRADE Profiler (GRADEpro) ., Meeting on Development of Evidence-based Clinical Practice Guidelines in Traditional Medicines 2007 supported by WHO, (Hong Kong, '07.12).

International Conference (Presentations)

0920I001 (A.Kanda), S.Sakita-Suto, F.Suzuki, T.Ota, M.Inoue, O.Niwa, M.Tatsuka: Study on the damage-response signal transduction generated in egg fertilized by sperm of ionizing irradiated male parent., Hiroshima University 21st Century COE Program — Radiation Casualty Medical Research Center — The 4th International Symposium, (Hiroshima, '07.02).

0920I002 T.Shimasaki, Y.Ishigaki, X.Zhao, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against pancreas cancer resulting in altered gene expression profiles, The Second Meeting of Asian-Oceanic Pancreatic Association(AOPA), (Kobe, '07.10).

0920I003 T.Shimasaki, Y.Ishigaki, X.Zhao X, N.Tomosugi, T.Tanaka, W.Mai, K.Kawakami, T.Minamoto, Y.Motoo: Combined effect of gemcitabine and GSK3 β inhibitor against human pancreas cancer: GSK3 β as a new therapeutic molecular target, 38th Annual Meeting of the American Pancreatic Association, (Chicago, '07.11).

0920I004 J.Moriya, J.Yamakawa, Y.Motoo, T.Takahashi, T.Kanda: Effect of Hochuekkito(Bu Zhong Yi Qi Tang)on Physical Activity of Murine Model of Chronic Fatigue Syndrome., The14th International Congress of Oriental Medicine, (Taiwan, '07.12).

0920I005 J.Yamakawa, J.Moriya, Y.Motoo, T.Takahashi, F.Yoshizaki, T.Kanda: A Kampo Medicine, Boiogito(Fangyi-Huangqi-Tang), Inhibits Obesity in Ovariectomized Rats., The14th international Congress of Oriental Medicine, (Taiwan, '07.12).

0930 Division of Dermatomyology (Novartis Pharma)

Faculty

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

Keywords of Research

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

Outline of Research

Research activities in the Division of Dermatomyology are as follows:

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

Publications

Originals

- 0930B001 T.Mochizuki, M.Kawasaki, H.Tanabe, K.Anzawa, H.Ishizaki, J.S.Choi: Molecular epidemiology of *Trichophyton tonsurans* isolated in Japan using RFLP analysis of non-transcribed spacer regions of ribosomal RNA genes, *Jpn. J. Infect. Dis.*, 60:188-192, 2007.
- 0930B002 M.Yanagihara, K.Takeda, H.Tanabe, S.Abe, H.Ishizaki: Follicular keratosis of the chin treated with 1.24R-dihydroxyvitamin D3 ointment, *Pediatr. Dermatol.*, 24:412-414, 2007.

Case Reports

- 0930D001 (H.Fujii), M.Tanioka, M.Yonezawa, A.Arakawa, Y.Matsumura, S.Kore-eda, Y.Miyachi, S.Tanaka, Herpes zoste: A case of atypical sporotrichosis with multifocal cutaneous ulcers, *Clin. Exp. Dermatol.*, 33:135-138, 2007.
- 0930D005 (S.Okada), T.Masu, T.Tsunoda, M.Kawasaki, T.Mochizuki, R.Okuyama, S.Aiba: A case of Phaeohyphomycosis infected with *Exophiala jeanselmei*, *Nishinohon j. dermatol.*, 69:162-164, 2007 (in Japanese) .
- 0930D009 (S.Fujita), T.Mochizuki: A case of black dot ringworm on the right forearm caused by *Trichophyton tonsurans*, *The Japanese Society for Medical Mycology.*, 48:91-95, 2007 (in Japanese) .

Presentations at Conference

International Conference (Key Note Lecture)

0930G001 M.Kawasaki: Molecular biology and black fungi around the world, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

International Conference (Symposium)

0930H001 M.Kawasaki, H.Ishizaki: Global molecular biology and *Sporothrix schenckii*, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

International Conference (Presentations)

0930I001 M.Terada, J.Fujita, S.Watanabe, H.Tanabe, M.Kawasaki, T.Mochizuki: A case of hyalohyphomycotic cyst caused by *Fusarium solani*, 21st World Congress of Dermatology, (Buenos Aires., '07.10).

0970 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, epidemiology.
Assistant Professor(Additional Post)	KAWAKAMI Yutaka	cataract, thyroid ocular.
Researcher	YAMASHIRO Yoko	cataract, electromagnetic wave induced ocular tissue changes, epidemiology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0970B001 M.Kojima, L.Sun, I.Hata, Y.Sakamoto, H.Sasaki, K.Sasaki: Efficacy of α -lipoic acid against diabetic cataract in rat, *Jpn. J. Ophthalmol.*, 51:10-13, 2007.
- 0970B002 (K.Wake), H.Hongo, S.Watanabe, M.Taki, Y.Kamimura, Y.Yamanaka, T.Uno, M.Kojima, I.Hata, K.Sasaki: Development of a 2.45-GHz local exposure system for In Vivo study on ocular effects, *IEEE Trans. Microw. Theory Tech.*, 55:588-596, 2007.
- 0970B003 (T.Olsen), A.Arnarsson, H.Sasaki, K.Sasaki, F.Jonasson: On the ocular refractive components : the Reykjavik eye study, *Acta Ophthalmol. Scand.*, 85:361-366, 2007.
- 0970B004 (A.Arnarsson), KF.Damji, T.Sverrisson, H.Sasaki, F.Jonasson: Pseudoexfoliation in the Reykjavik eye study : prevalence and related ophthalmological variables, *Acta Ophthalmol. Scand.*, 85:822-827, 2007.
- 0970B005 I.Shima, S.Katsuda, Y.Ueda, N.Takahashi, H.Sasaki: Expression of matrix metalloproteinases in wound healing after glaucoma filtration surgery in rabbits, *Ophthalmic Res.*, 39:315-324, 2007.
- 0970B006 (A.Hirata), S.Watanabe, O.Fujiwara, M.Kojima, K.Sasaki, T.Shiozawa: Temperature elevation in the eye of anatomically based human head models for plane-wave exposures, *Phys. Med. Biol.*, 52:6389-6399, 2007.

0970B008 Q.Jingtao, H.Sasaki, L.Zhongxin, Z.Jinsheng, W.Kaili, M.Kojima, Y.Sakamoto, R.Honda, Y.Kawakami, Y.Yamashiro, Z.Jinsong, K.Sasaki, Japan-China Co-operative Study Group: Current status about blindness among low-income farmers in Sanya district, hainan, China, Japanese journal of clinical ophthalmology Rinsho ganka., 61:411-416, 2007 (in Japanese) .

0970B009 M.Fukuda, K.Yamamoto, N.Takahashi, H.Sasaki, M.Yoshikawa: Corneal disorder quantification by corneal resistance, Journal of the eye., 24:521-525, 2007 (in Japanese) .

Others

0970F002 M.Kojima: Ultraviolet exposure as a risk factor in cataract formation, J & J, 1-2, 2007 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

0970I001 K.Sasaki, H.Sasaki, R.Honda, Y.Kawakami, M.Kojima, Y.Sakamoto, J.Qu, Y.Yamashiro, J.Zhang, Z.Lilu: High Prevalence of Pterygium in the Population of a Tropical Area in China -Sanya Eye Study-, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I002 (A.M.Arnarsson), K.F.Damji, T.Sverrisson, H.Sasaki, F.Jonasson: Prevalence of pseudoexfoliation and association with IOP, corneal thickness, and structural optic disc parameters in the Reykjavik eye study, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I003 H.Sasaki, Y.Sakamoto, E.Shibuya, T.Yamaguchi, Y.Kawakami, H.Nakaizumi, K.Sasaki: Deterioration of reading performance and ocular higher order aberration in subjects with cortical cataract, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I004 K.Nagai, H.Sasaki, R.Honda, M.Kojima, Y.Sakamoto, J.Qu, K.Sasaki: Prevalence of cataract in eyes with posterior vitreous detachment, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I005 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.Liu, J.Zhang, K.Sasaki: True exfoliation in chinese population in a tropical area -The Sanya Eye Study-, Association for Research in vision and Ophthalmology, (Florida, '07.05).

0970I006 M.Fukuda, H.Sasaki: Intraocular penetration of moxifloxacin ophthalmic solution in rabbit eyes, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I007 M.Kojima, Y.Yamashiro, M.Hanazawa, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Investigation of frequency specificity of ocular effects through quasi-millimeter and millimeter wave exposure, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I008 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: The relationship of axial length and three main types of cataract in the population of a tropical area of China, Association for Research in Vision and Ophthalmology, (Florida, '07.05).

0970I009 (H.Wakatsuchi), M.Hanazawa, T.Sakai, S.Watanabe, M.Kojima, Y.Yamashiro, K.Sasaki, O.Hashimoto: Complex permittivities measurements of ocular tissues in quasi-millimeter and millimeter wave bands, Bioelectromagnetics, (Kanazawa, '07.06).

0970I010 M.Kojima, M.Hanazawa, Y.Yamashiro, S.Watanabe, H.Sasaki, M.Taki, K.Sasaki: Possibility of frequency specificity of ocular effects by quasi-millimeter and, Bioelectromagnetics, (Kanazawa, '07.07).

0970I011 K.Kitagawa, N.Tomosugi, H.Tuchida, H.Sasaki: Automated identification and quantification of tear proteins from Sjogern's syndrome by LC/MS on a hybrid linear ion trap mass spectrometer, 5th international Conference on the Tear Film & Ocular Surface : Basic Science and Clinical Relevance, (Italy, '07.08).

0970I012 M.Kojima, Y.Yamashiro, H.Sasaki, K.Sasaki: Difference of ocular injury by millimeter wave exposure with different frequency, European association for Vision and Eye Research, (Slovenia, '07.10).

- 0970I013 K.Sasaki: Cataract classification systems, a critical review, European Association for Vision and Eye Research, (Slovenia, '07.10).
- 0970I014 H.Sasaki: Racial differences of lens trabecular properties, European Association for Vision and Eye Research, (Slovenia, '07.10).
- 0970I015 Y.Sakamoto, H.Nakaizumi, N.Yamamoto, M.Sakamoto, H.Sasaki, K.Sasaki: Influence of the riling of aspheric intraocular lens on the ocular higher order aberration and the contrast sensitivity function, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0970I016 K.Nagai, H.Sasaki, R.Honda, Y.Kawakami, Y.Sakamoto, J.Qu, K.Sasaki: Change of light scattering intensity in eyes with posterior vitreous detachment, Monzen eye study, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0970I017 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Effect of 5-S-GAD (eye drops) on UV-B-induced cataract in rats, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).
- 0970I018 M.Kojima, Y.Yamashiro, Y.Sakamoto, Y.Kawakami, H.Sasaki, K.Sasaki: Difference of cataract development by different frequency in millimeter wave, US-Japan Cooperative cataract Research Group Meeting, (, '07.12).
- 0970I019 H.Sasaki, N.Fujita, Y.Sakamoto, M.Kojima, J.Qu, N.Yamamoto, Y.Kawakami, K.Nagai, H.Nakaizumi, K.Sasaki: Myopia induced by retrodots and nuclear caratact, US-Japan Cooperative Cataract Research Group Meeting, (Hawaii, '07.12).

**Kanazawa Medical University
Research Activities and Publications 2007**

Published December, 2008

Issuer: Yuichi Yamada

Editor: 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)

Printing office: TANAKA&SHOBUNDO GRAPHIC ART Co.LTD.
