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L i b e r a l A r t s

0010 Department of Human Science (Humanities)

Faculty

Title	Name	Field of Specialization
	HIRAGUCHI Tetsuo	environmental-ethnoarchaeology, peace studies.
	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, peace study, logic, metaphysics, form, content, predicate, category, deduction, induction, matter, being, substance, definition

Outline of Research

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

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.

0030 Department of Human Science (Mathematics)

Faculty

Title	Name	Field of Specialization
	MATSUDA Hiroo	Lorentz manifolds, Curves in Euclidean space
	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
	SUGITANI Michio	Optical imaging of signal propagation in the piriform cortex
	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
	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

Originals

- 0050B001 M.Maeda, M.Murakami, T.Takegami, T.Ota: Promotion or suppression of experimental metastasis of B16 melanoma cells, *Toxicol. Appl. Pharmacol.*, 229:232-238, 2008.

Presentations at Conference

International Conference (Presentations)

- 0050I001 T.Ota, M.Maeda, Z.-P.Zong, M.Murakami, T.Takegami, M.Tatsuka: Phosphorylation and localization of FAK in v-Src transformed fibroblast cells after anoikis induction., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).
- 0050I002 Z.-P.Zong, M.Maeda, M.Murakami, T.Takegami, M.Tatsuka, T.Ota: Effects of oral administration of lapachol on experimental metastasis of B16 melanoma cells in mice., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).

0060 Department of Life Science (Natural Science: Biology)

Faculty

Title	Name	Field of Specialization
	HORI Isao	Development of ascidians
	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 (K.Wakabayashi), M.Komatsu, M.Murakami, I.Hori, T.Takegami: Morphology and gene analysis of hybrids between two congeneric sea stars with different modes of development, *Biol. Bull.*, 215:89-97, 2008.
- 0060B002 (S.Amano), I.Hori: Hemocyte differentiation in the juveniles of the ascidian *Halocynthia roretzi*, *Invertebr. Reprod. Dev.*, 51:11-18, 2008.

0070 Department of Human Science (Foreign Languages:English)

Faculty

Title	Name	Field of Specialization
	SHIBUYA Yoshiho	English linguistics, Phonetics
	KAKIZAKI Kenichi	Contemporary Jewish American Authors' Works
	CURRY Carla	English education from a viewpoint of music
	BURKE STEVEN Thomas	English

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, Performance studies, chanting, oral interpretation, Musicology

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: 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.

Burke: My most recent research interest has been the connection and power that extensive reading has on English acquisition for EFL students.

Publications

Originals

- 0070B001 K.Kakizaki: The rediscovery of jewish heritage in "The Old System", Shlemiel., 7:21-34, 2008.
- 0070B002 K.Kakizaki: The narcissistic collapse of the self in *dangling* man, The Journal of Psychoanalytical Study of English Language and Literature., 28:53-67, 2008.
- 0070B003 K.Kakizaki: The holocaust and memory in *the bellarosa connection*, Journal of English Language and Literature, 56:43-58, 2008.
- 0070B004 K.Kakizaki: Spiritual awakening in "Dora", Mem. Lib. Kanazawa Med. Univ., 36:39-47, 2008.

0080 Department of Human Science (Foreign Languages:German)

Faculty

Title	Name	Field of Specialization
	HARA Akira	Austria literature led by Hofmannsthal
	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.

0081 Department of Human Science (Linguistics)

Faculty

Title	Name	Field of Specialization
	AINODA Noriko	How do the Japanese medical students acquire medical terms in English as a second language? My research focuses on this question using both linguistic and phonetic knowledge, with the research evidence in cognitive science.

Keywords of Research

English education, medical English, learning

Outline of Research

Metacognition is an essential factor for lifelong learning of which skills should be fostered during undergraduate medical education. To seek longitudinal changes in metacognitive processes through problem-based learning (PBL), the year 3 students' reflective comments were categorically analyzed. The results showed that "knowledge of ignorance," one of metacognitive skills, could be fostered in PBL.

0090 Department of Life Science (Physical Education)

Faculty

Title	Name	Field of Specialization
	TAMURA Nobuki	OtherGraduate School, Division of Physical Recreation
	YAMASHINA Tadahiko	Muscle Strength, Muscle Strength Training, Thickness of Muscles in the Lower leg
	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, I practice 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 N.Tamura: Report on the use of wheelchairs among Kanazawa Medical University 1st-year students, Mem. Lib. Kanazawa Med. Univ., 36:49-56, 2008 (in Japanese) .
- 0090B002 T.Yamashina: The interrelation of the crural muscle group with human walking and equilibrium function, Mem. Lib. Kanazawa Med. Univ., 36:57-64, 2008 (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 IV), Mem. Lib. Kanazawa Med. Univ., 36:65-72, 2008 (in Japanese) .

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

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

Faculty

Title	Name	Field of Specialization
	HATTA Toshihisa	developmental biology, neuroscience
	HIGASHI Nobuaki	macroscopic anatomy, embryology.
	SHIMADA Hiroki	Medical science of free radical
	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 H.Otani, J.Udagawa, T. Lundh, T.Hatta, R.Hashimoto, A.Masumoto, F.Satow: Morphometric study on the characteristic external features of normal and abnormal human embryos, *Congenit. Anom. (Kyoto)*, 48:18-28, 2008.
- 0100B002 E.Simamura, H.Shimada, Y.Ishigaki, T.Hatta, N.Higashi, K-I.Hirai: Bioreductive activation of quinone antitumor drugs by mitochondrial voltage-dependent anion channel 1, *Anat. Sci. Int.*, 83:261-266, 2008.

Reviews

- 0100C001 E.Simamura, H.Shimada, T.Hatta, K-I.Hirai: Mitochondrial voltage-dependent anion channels (VDACs) as novel pharmacological targets for anti-cancer agents, *J. Bioenerg. Biomembr.*, 40:213-217, 2008.
- 0100C002 K.Kaneyama, N.Segami, T.Hatta: Congenital deformities and developmental abnormalities of the mandibular condyle in the temporomandibular joint, *Congenit. Anom. (Kyoto)*, 48:118-125, 2008.

Case Reports

- 0100D001 N.Higashi, H.Shimada, E.Simamura, T.Hatta: Right vertebral artery as the fourth branch of the aortic arch, *Anat. Sci. Int.*, 83:314-318, 2008.

Short Communications

- 0100E001 (M.Yamada), T.Hatta, H.Otani: Mouse exo utero development system: Protocol and troubleshooting, *Congenit. Anom. (Kyoto)*, 48:183-187, 2008.

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

Faculty

Title	Name	Field of Specialization
	SHINOHARA Harumichi	gross anatomy,embryology,lymphatic vessels,microscopy.
	SHIMOKAWA Takashi	regeneration of skeletal muscle,development of peripheral nerve.
	YASUTAKA Satoru	gross anatomy,central nervous system.
	KOMINAMI Rieko	immunocytochemistry,pituitary,cell proliferation,electron microscopy.

Keywords of Research

arthrology, osteology, clinical anatomy, development, lymphatic vessels, muscle, innervation, nerve, pituitary, ACTH, LH, GH, ontogenesis, immunocytochemistry, bromodeoxyuridine, proliferation, electron microscopy, rat, PCNA

Outline of Research

Theme of researches

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

Publications

Originals

- 0110B001 T.Shimokawa, S.Yasutaka, R.Kominami, S.Tanaka, H.Shinohara: *Pitx1* expression in developing and regenerating axolotl limbs, *Okajimas Folia Anat Jpn*, 85:5-10, 2008.
- 0110B002 (H.Ming-Yu), T.Shimokawa, R.Kominami, S.Yasutaka, H.Shinohara: Morphological characteristics of the branchial nerve in axolotl embryos at different stages (in Chinese), *Chinese journal of zoology*, 43:121-125, 2008.

Short Communications

- 0110E001 (H.Ming-Yu), T.Shimokawa, R.Kominami, S.Yasutaka, H.Shinohara: Developmental study of hypoglossal nerve in axolotl embryo (in Chinese), *Chinese journal of anatomy*, 31:862-863, 2008.

0120 Department of Physiology I

Faculty

Title	Name	Field of Specialization
	KATO Nobuo	Brain Science
	SUGAI Tokio	Neurophysiology
	YAMAMOTO Ryo	Neuroscience
	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 H.Yoshimura, M.Honjo, Y.Mashiyama, K.kaneyama, N.Segami, J.Sato, T.Sugai, N.kato, N.Onoda: Multiple tooth-losses during development suppress age-dependent emergence of oscillatory neural activities in the oral somatosensory cortex., *Brain Res.*, 1224:37-42, 2008.
- 0120B002 Y.Ueta, R.Yamamoto, S.Sugiura, K.Inokuchi, N.Kato: Homer 1a suppresses neocortex long-term depression in a cortical layer-specific manner., *J. Neurophysiol.*, 99:950-957, 2008.

Others

- 0120F001 T.Sugai, R.Yamamoto, H.Yoshimura, N.Kato: Functional connections between olfactory and gustatory information via the endopiriform nucleus in the rat., *The Japanese journal of taste and smell research.*, 15:345-346, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0120I001 N.Kato, Y.Ueta, K.Yamamoto, R.Yamamoto, T.Sugai: The cortical layer specificity in physiological effects of electroconvulsive therapy in a rat model., A Brain Research Meeting: Stress, Coping and Disease., (Washington DC, '08.11).
- 0120I002 K.Yamamoto, Y.Ueta, R.Yamamoto, N.Kato: Intracellular amyloid- β enhances spike-induced calcium increase by suppressing BK channels in neocortical pyramidal neurons., Neuroscience 2008, (Washington DC, '08.11).

0130 Department of Physiology II

Faculty

Title	Name	Field of Specialization
	SHIBAMOTO Toshishige	Circulatory Physiology
	KURATA Yasutaka	Cardiac Electrophysiology
	MIYAMAE Shunichi	Cardiac Electrophysiology
	KAMIKADO Chiaki	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, W.Zhang, H.Takano, Y.Kurata: Venous resistance increases during rat anaphylactic shock., *Shock*, 29:733-739, 2008.
- 0130B002 (Y.Hirota), Y.Kurata, M.Kato, T.Notsu, S.Koshida, T.Inoue, Y.Kawata, J.Miake, U.Bahrudin, P.Li, Y.Hoshikawa, Y.Yamamoto, O.Igawa, Y.Shirayoshi, A.Nakai, H.Ninomiya, K.Higaki, M.Hiraoka, I.Hisatome: Functional stabilization of Kv1.5 protein by Hsp70 in mammalian cell lines., *Biochem. Biophys. Res. Commun.*, 372:469-474, 2008.
- 0130B003 Y.Kurata, H.Matsuda, I.Hisatome, T.Shibamoto: Regional difference in dynamical property of sinoatrial node pacemaking: role of Na⁺ channel current., *Biophys. J.*, 95:951-977, 2008.
- 0130B004 T.Shibamoto, C.Kamikado, S.Koyama: Increased sinusoidal resistance is responsible for the basal state and endothelin-induced venoconstriction in perfused cirrhotic rat liver, *Pflugers Arch.*, 456:467-477, 2008.
- 0130B005 T.Shibamoto, W.Liu, S.Cui, W.Zhang, H.Takano, Y.Kurata: PAF, rather than histamine, participates in mouse anaphylactic hypotension., *Pharmacology.*, 82:114-120, 2008.

- 0130B006 (S.Yano), J.Miake, E.Mizuta, K.Manabe, U.Bahrudin, K.Morikawa, K.Arakawa, N.Sasaki, O.Igawa, C.Shigemasa, Y.Yamamoto, T.Morisaki, K.Hidaka, Y.Kurata, A.Yoshida, G.Shiota, K.Higaki, H.Ninomiya, JK.Lee, Y.Shirayoshi, I.Hisatome: Changes of HCN gene expression and I_f currents in Nkx2.5-positive cardiomyocytes derived from murine embryonic stem cells during differentiation., Biomed. Res., 29:195-203, 2008.

Presentations at Conference

International Conference (Presentations)

- 0130I001 T.Shibamoto, S.Cui, W.Zhang, Y.Kurata: Vascular resistance to venous return increases during rat anaphylactic shock., International Shock Congress 2008, (Cologne (Germany), '08.07), Shock, 29 (Suppl 1):67, 2008.

0140 Department of Biochemistry I

Faculty

Title	Name	Field of Specialization
	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
	MATSUI Tadashi	Molecular biology, DNA repair, p53-binding proteins
	HASHIMOTO Mitsumasa	Cell biology, DNA repair, Cell cycle, p53-binding proteins

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0140B001 K.Iwabuchi, M.Hashimoto, T.Matsui, A.Kurosawa, N.Adachi, T.Date: Cell sorting analysis of cell cycle-dependent X-ray sensitivity in end joining-deficient human cells, *Biochem. Biophys. Res. Commun.*, 372:662-667, 2008.
- 0140B002 K.Iwabuchi, T.Matsui, M.Hashimoto, Y.Matsumoto, T.Kurihara, T.Date: Characterization of a cancer cell line that expresses a splicing variant form of 53BP1:Separation of checkpoint and repair functions in 53BP1, *Biochem. Biophys. Res. Commun.*, 376:509-513, 2008.
- 0140B003 M.Hashimoto, T.Matsui, K.Iwabuchi, T.Date: PKU- β /TLK1 regulates myosin II activities, and is required for accurate equaled chromosome segregation, *Mutat. Res.*, 657:63-67, 2008.

Reviews

- 0140C001 (J.Kobayashi), K.Iwabuchi, K.Miyagawa, E.Sonoda, K.Suzuki, M.Takata, H.Tauchi: Current topics in DNA double-strand break repair, *J. Radiat. Res.*, 49:93-103, 2008.

Presentations at Conference

International Conference (Presentations)

- 0140I001 K.Iwabuchi, M.Hashimoto, T.Matsui, T.Date: Identification of a cancer cell-line that expresses a splicing variant form of 53BP1:separation of checkpoint and repair functions in 53BP1, *The International Ataxia-Telangiectasia Workshop2008*, (Otsu, '08.04), *Ataxia-Telangiectasia Workshop2008 Abstracts*, 141, 2008.

0140I002 T.Date, M.Hashimoto, T.Matsui, M.Ozaki, K.Iwabuchi: PKU-beta/TLK1 plays a dual role in both centrosome separation and chromosome segregation, 33th FEBS Congress 11th IUBMB Conference, (Athens, '08.06), Abstracts, 112, 2008.

0150 Department of Biochemistry II

Faculty

Title	Name	Field of Specialization
	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing, MicroRNA function
	YOSHITAKE Yoshino	MicroRNA involved in angiogenesis, Functions of FGF-2 binding protein
(Additional Post)	NAGAO Yosinobu	Spermatogenesis and epigenetics

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 (S.Matsumoto), T.Yoshida, H.Murata, S.Harada, N.Fujita, S.Nakamura, Y.Yamamoto, T.Watanabe, H.Yonekura, H.Yamamoto, T.Ohkubo, Y.Kobayashi: Solution structure of the variable-type domain of the receptor for advanced glycation end products: new insight into AGE-RAGE interaction, *Biochemistry*, 47:12299-12311, 2008.

Presentations at Conference

International Conference (Presentations)

- 0150I001 H.Yonekura, N.Turuoka, Y.Yoshitake, L.Sun, T.Watanabe, H.Yamamoto: Regulatory mechanisms of alternative 3'-end processing of soluble VEGF receptor pre-mRNA in vascular endothelial cells, 33rd FEBS Congress & 11th IUBMB Conference, (athens, '08.06), the FEBS Journal, 275:134, 2008.
- 0150I002 Y.Yoshitake, H.Yonekura: Micro-RNAs expressed in human microvascular endothelial cells, 33rd FEBS Congress & 11th IUBMB Conference, (athens, '08.06), the FEBS Journal, 275:155, 2008.

0160 Department of Pharmacology

Faculty

Title	Name	Field of Specialization
(Additional Post)	NISHIO Matomo	Electrophysiological and pharmacological study of excitable and non-excitable cells, Pharmacology of cardiovascular drugs
	ISHIBASHI Takaharu	Kinetics of NO(nitric oxide)-related compounds in cardiovascular system
	YOSHIDA Junko	Pharmacology in cardiovascular system, Cancer chemotherapy
	NISHIZAWA Naoki	Pharmacology of cardiovascular drugs, Kinetics of NO-related compounds in cardiovascular system, Cancer chemotherapy
	NAKAMOTO 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-excitable cells
- 2 Signaling mechanisms of bioactive substances
- 3 Electropharmacology of the drugs acting on the cardiovascular system
- 4 Pharmacological study of the ischemic cardiomyocytes
- 5 Kinetics of NO(nitric oxide)-related compounds in cardiovascular system

Publications

Originals

- 0160B001 T.Ishibashi, T.Miwa, I.Shinkawa, N.Nishizawa, M.Nomura, J.Yoshida, M.Nishio: Quantifying nanomolar levels of nitrite in biological samples by HPLC-Griess method: Special reference to arterio-venous difference *in vivo*, *Tohoku J. Exp. Med.*, 215:1-11, 2008.
- 0160B002 J.Yamakawa, Y.Ishigaki, F.Takano, T.Takahashi, J.Yoshida, J.Moriya, T.Takata, T.Tatsuno, K.Sasaki, T.Ohta, T.Takegami, F.Yoshizaki: The kampo medicines orangedokuto, bofutsushosan and boiogito have different activities to regulate gene expressions in differentiated rat white adipocytes: comprehensive analysis of genetic profiles, *Biol.Pharm.Bull.*, 31:2083-2089, 2008.

0170 Department of Oncologic Pathology

Faculty

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

Publications

Originals

- 0170B001 (S.Miyamoto), Y.Yasui, M.Kim, S.Sugie, A.Murakami, R.Ishigamori-Suzuki, T.Tanaka: A novel *rasH2* mouse carcinogenesis model that is highly susceptible to 4-NQO-induced tongue and esophageal carcinogenesis is useful for preclinical chemoprevention studies, *Carcinogenesis*, 29:418-426, 2008.
- 0170B002 (S.Miyamoto), Y.Yasui, T.Tanaka, H.Ohigashi, A.Murakami: Suppressive effects of nobiletin on hyperleptinemia and colitis-related colon carcinogenesis in male ICR mice, *Carcinogenesis*, 29:1057-1063, 2008.
- 0170B003 Y.Yasui, S.Miyamoto, M.Kim, H.Kohno, S.Sugie, T.Tanaka: Aqueous and ethanolic extract fractions from the Brazilian propolis suppress azoxymethane-induced aberrant crypt foci in rats, *Oncol. Rep.*, 20:493-499, 2008.
- 0170B004 M.Kim, S.Miyamoto, S.Sugie, Y.Yasui, R.Ishigamori-Suzuki, A.Murakami, H.Nakagama, T.Tanaka: A tobacco-specific carcinogen, NNK, enhances AOM/DSS-induced colon carcinogenesis in male A/J mice, *In Vivo.*, 22:557-564, 2008.
- 0170B005 (S.Miyamoto), F.Epifano, M.Curini, S.Genovese, M.Kim, R.Ishigamori-Suzuki, Y.Yasui, S.Sugie, T.Tanaka: A novel prodrug of 4'-geranyloxy-ferulic acid suppresses colitis-related colon carcinogenesis in mice, *Nutr. Cancer.*, 60:675-684, 2008.

- 0170B006 (Y.Shirakami), M.Shimizu, H.Tsurumi, Y.Hara, T.Tanaka, H.Moriwaki: EGCG and polyphenon E attenuate inflammation-related mouse colon carcinogenesis induced by AOM plus DSS, *Molecular Medicine Reports.*, 1:355-361, 2008.
- 0170B007 (M.Shimizu), Y.Shirakami, H.Sakai, S.Adachi, K.Hata, Y.Hirose, H.Tsurumi, T.Tanaka, H.Moriwaki: (-)-Epigallocatechin gallate suppresses azoxymethane-induced colonic premalignant lesions in male C57BL/KsJ-*db/db* mice, *Cancer Prev. Res. (Phila. Pa.)*, 1:298-304, 2008.

Reviews

- 0170C001 T.Tanaka, Y.Yasui, R.Ishigamori-Suzuki, T.Oyama: Citrus compounds inhibit inflammation- and obesity-related colon carcinogenesis in mice, *Nutr. Cancer.*, 60(Suppl.1):70-80, 2008.
- 0170C002 Y.Yasui, M.Kim, T.Tanaka: PPAR ligands for cancer chemoprevention, *PPAR Res.*, 2008:548919, 2008.

Case Reports

- 0170D001 K.Sato, T.Odake, T.Hashimoto, H.Nishida, Y.Ueda, T.Tanaka, S.Katsuda: A case of peritoneal deciduoid mesothelioma, *J. Jpn. Soc. Clin. Cytol.*, 47:306-309, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0170I001 (M.Shimizu), Y.Shirakami, K.Hats, Y.Hirose, T.Tanaka, H.Moriwak: EGCG suppresses obesity-related colonic preneoplastic lesions in C57BUKsJ-dblbd mice, 2008 AACR Annual Meeting, (San Diego,CA, '08.04).
- 0170I002 (Y.Shirakami), M.Shimizu, H.Sakai, H.Tatebe, Y.Hara, T.Tanaka, H.Moriwaki: EGCG suppresses tumor growth by inhibiting activation of the VEGF/VEGFR axis in the xenograft model of human colon cancer and hepatoma, 2008 AACR Annual Meeting, (San Diego,CA, '08.04).
- 0170I003 Y.Yasui, S.Miyamoto, M.Kim, T.Oyama, S.Sugie, A.Murakami, T.Tanaka: Zerumbone, a tropical ginger sesquiterpene, inhibits colon and lung carcinogenesis in mice, 4th International Niigata Symposium on Diet and Health - "Integrative Functions of Diet in Anti-aging and Cancer Prevention", (Niigata, '08.11).

0180 Department of Pathophysiological and Experimental Pathology

Faculty

Title	Name	Field of Specialization
	KATSUDA Shogo	Vascular pathology, Pathophysiology of ECM
	UEDA Yoshimichi	Bone and soft tissue tumor, Pulmonary pathology
	SATO Katsuaki	Neuropathology
	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 Z-P.Zong, S.Matsui, J-F.Han, S.Katsuda, ML.Fu: Involvement of thymus in amiodarone-treated autoimmune myocarditis in rats, *Int. J. Cardiol.*, 125:122-129, 2008.
- 0180B002 (J-I.Wu), S.Matsui, Z-P.Zong, K.Nishikawa, B-G.Sun, S.Katsuda, M.Fu: Amelioration of myocarditis by statin through inhibiting cross-talk between antigen presenting cells and lymphocytes in rats, *J. Mol. Cell. Cardiol.*, 44:1023-1031, 2008.
- 0180B003 G.Ma, X.Zhao, M.Ueno, M.Tanaka, Y.Machida, H.Aikawa, K.Usuda, M.Sagawa, Y.Ueda, T.Sakuma: Increased reabsorption of alveolar edema fluid in the obese zucker rat, *Tohoku J. Exp. Med.*, 216:223-230, 2008.
- 0180B004 (Y. Kanazawa), Y. Ueda, M. Shimasaki, S. Katsuda, N. Yamamoto, K. Tomita, H. Tsuchiya: Down-regulation of *plakoglobin* in soft tissue sarcoma is associated with a higher risk of pulmonary metastasis, *Anticancer Res.*, 28:655-664, 2008.
- 0180B005 (S. Ii), Y. Ueda, M. Shimasaki, S. Katsuda, K. Takazawa, Y. Kanazawa, K. Tomita, H. Tsuchiya: Identification of novel genes involved in the synergistic antitumor effect of caffeine in osteosarcoma cells using cDNA microarray, *Anticancer Res.*, 28:645-653, 2008.

Reviews

0180C001 Y.Ueda, M.Shimasaki, K.Higashi, G.Guo, K.Sato, M.Sagawa, T.Sakuma, S.Katsuda: Recent advance in the pathology of lung cancer, *J. Kanazawa. Med. Univ.*, 33:21-30, 2008 (in Japanese) .

Case Reports

0180D001 K.Sato, Y.Shimode, M.Hirokawa, Y.Ueda, S.Katsuda: Thyroid adenomatous nodule with bizarre nuclei: a case report and mutation analysis of the *p53* gene, *Pathol. Res. Pract.*, 204:191-195, 2008.

0180D002 K.Sato, Y.Ueda, H.Tachibana, K.Miyazawa, I.Chikazawa, S.Kaji, T.Nojima, S.Katsuda: Malignant epithelioid angiomyolipoma of the kidney in a patient with tuberous sclerosis: An autopsy case report with *p53* gene mutation analysis., *Pathol. Res. Pract.*, 204:771-777, 2008.

0180D003 K.Sato, Y.Ueda, S.Miwa, A.Yokogawa, M.Ozaki, S.Katsuda: Low-grade malignant soft-tissue perineurioma: interphase fluorescence in situ hybridization, *Pathol. Int.*, 58:718-722, 2008.

0180D004 M.Sagawa, H.Aikawa, K.Usuda, Y.Machida, M.Tanaka, M.Ueno, Y.Ueda, T.Sakuma: Extended sleeve pulmonary resection in patient with synchronous triple bronchogenic squamous cell carcinoma, *Lung Cancer*, 59:262-265, 2008.

0180D005 K.Sato, M.Nakano, T.Terauchi, M.Takenaka, Y.Asakura, S.Kaji, T.Nojima, Y.Ueda: A case of large cell lung carcinoma with rhabdoid phenotype, *J. Jpn. Soc. Clin. Cytol.*, 47:64-68, 2008 (in Japanese) .

0180D006 K.Sato, T.Terauchi, Y.Asakura, M.Takenaka, M.Nakano, N.Kurose, Y.Ueda, M.Hirokawa: A case of thyroid oxyphilic follicular carcinoma with distinct trabecular growth pattern, *J. Jpn. Soc. Clin. Cytol.*, 47:200-204, 2008 (in Japanese) .

0180D007 K.Sato, Y.Uwami, M.Ariga, Y.Nishida, K.Tanimoto, Y.Ueda, S.Katsuda: A case of pleural sarcomatoid mesothelioma, *J. Jpn. Soc. Clin. Cytol.*, 47:301-305, 2008 (in Japanese) .

0180D008 K.Sato, T.Odake, T.Hashimoto, H.Nishida, Y.Ueda, T.Tanaka, S.Katsuda: A case of peritoneal deciduoid mesothelioma, *J. Jpn. Soc. Clin. Cytol.*, 47:306-309, 2008 (in Japanese) .

0180D009 M.Takenaka, K.Sato, T.Terauchi, M.Yamashita, Y.Asakura, M.Nakano, N.Kurose, T.Nojima: A case of diffuse large B-cell lymphoma hardly differentiating from high-grade urothelial carcinoma in cytology, *J. Jpn. Soc. Clin. Cytol.*, 47:296-300, 2008 (in Japanese) .

Others

0180F001 M.Yamada, H.Kawahara, H.Shiroeda, M.Tsuchishima, Y.Masaki, K.Sato, S.Takase: Successful rituximab monotherapy for API2-MALT1 fusion positive primary mucosa-associated lymphoid tissue lymphoma of the transverse colon in a patient with liver cirrhosis, *Scand. J. Gastroenterol.*, 43:761-764, 2008.

0190 Department of Microbiology

Faculty

Title	Name	Field of Specialization
	OHARA Yoshiro	Neurovirology, Neuroimmunology
	SAITO Mineki	Neurology, Neurovirology
	TANIURA Naoko	Neurovirology
	SAITO 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 (E.Matsuura), F.Umehara, H.Nose, I.Higuchi, E.Matuoka, K.Izumi, R.Kubota, M.Saito, S.Izumo, K.Arimura, M.Osame: Inclusion body myositis associated with human T-lymphotropic virus-type 1 infection: eleven patients from an endemic area in Japan., *J. Neuropathol. Exp. Neurol.*, 67: 41-49, 2008.
- 0190B002 (M.Yukitake), E.Sueoka, N. Sueoka-Aragane, A.Sato, H.Ohashi, Y.Yakushiji, M.Saito, M.Osame, S.Izumo, Y.Kuroda: Significantly increased antibody response to heterogeneous nuclear ribonucleoproteins in cerebrospinal fluid of multiple sclerosis patients but not in patients with human T-lymphotropic virus type 1-associated myelopathy/tropical spastic paraparesis., *J. Neurovirol.*, 14: 130-135, 2008.
- 0190B003 M.Saito, K.Usuku, K.Arimura, S.Izumo, M.Osame, Y.Ohara: Increased frequency of CD4+T cells expressing fractalkine receptor CX3CR1 in patients with HTLV-1 associated myelopathy/tropical spastic paraparesis (HAM/TSP), but its AIDS susceptible polymorphisms are not associated with the disease., *J. Neurol. Sci.*, 266: 13-19, 2008.
- 0190B004 (AH.Sabouri), K.Usuku, D.Hayashi, S.Izumo, Y.Ohara, M.Osame, M.Saito: Impaired function of human T-lymphotropic virus type 1 (HTLV-1) —specific CD8⁺ T cells in HTLV-1—associated neurologic disease, *Blood*, 112: 2411-2420, 2008.

Presentations at Conference

International Conference (Presentations)

- 0190I001 Y.Ohara, N.Taniura, T.Okuwa, M.Saito, K.Saitou: A binding partner of L protein of Theiler's murine encephalomyelitis virus (TMEV) and its potential role in virus persistence, American Academy of Neurology 60th Annual Meeting, (Chicago, '08.06).
- 0190I002 N.Taniura, T.Okuwa, M.Saito, K.Saitou, Y.Ohara: Different subcellular localization of neurovirulent strain GDVII and persistent strain DA of Theiler's murine encephalomyelitis virus leader protein, Europic 2008, (Barcelona, '08.07).

0200 Department of Fundamental Research for CAM

Faculty

Title	Name	Field of Specialization
	YAMAGUCHI Nobuo	Developmental immunology, Defense immunity, Tumor immunity, Complementary & alternative medicine
	SHIMIZU Shoji	Immunology, Protective immunology, Tumor immunology
	MATSUBA Shintaro	Complementary & alternative medicine, Immunological pharmacology
	SAKUMA Masahiro	Molecular and cellular immunology, Pathological examination studies, Complementary & alternative medicine

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 (H.Shen), M.Sakuma, S.Matsuba, N.Yamaguchi, I.Horiuchi: Culture condition of closed system for mycelia, *cordyceps militaris*, *Medicine and biology.*, 152:34-42, 2008.
- 0200B002 S.Matsuba, H.Matsuno, M.Sakuma, Y.Komatsu: *Phellinus linteus* extract augments the immune response in Mitomycin C induced immunodeficient mice, *Evid Based Complement Alternat Med*, 5:85-90, 2008.
- 0200B003 R.Chen, J.Moriya, J.Yamakawa, T.Takahashi, Q.Li, S.Morimoto, K.Iwai, H.Sumino, N.Yamaguchi, T.Kanda: Brain atrophy in a murine model of chronic fatigue syndrome and beneficial effect of hochu-ekki-to(TJ-41), *Neurochem. Res.*, 33:1759-1767, 2008.
- 0200B004 (K. Kawakita), T. Shichidou, E. Inoue, T. Nabeta, H. Kitakoji, S. Aizawa, A. Nishida, N. Yamaguchi, N. Takahashi, E. Sumiya, K. Okada, T. Umeda, T. Yano, S. Tanzawa: Do Japanese style acupuncture and moxibustion reduce symptoms of the common cold?, *Evid Based Complement Alternat Med*, 5:481-489, 2008.
- 0200B005 K.Iwai, T.Takahashi, T.Nakahashi, K.Nomura, M.Atsumi, L.Zeng, K.Ishigami, T.Kanda, N.Yamaguchi, S.Morimoto: Immobilization stress inhibits intimal fibromuscular proliferation in the process of arterial remodeling in rats, *Hypertens. Res.*, 31:977-986, 2008.

0210 Department of Medical Zoology

Faculty

Title	Name	Field of Specialization
	IKEDA Teruaki	Immunological and biochemical studies of parasitic diseases
	OIKAWA Yosaburo	diagnosis of parasitic disease, tick-borne disease
	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 (A.Kobayashi), Y.Ishibashi, Y.Oikawa, H.Yokogawa, K.Sugiyama: In vivo and ex vivo laser confocal microscopy findings in patients with early-stage acanthamoeba keratitis, *Cornea*, 27:439-445, 2008.

Reviews

- 0210C002 (M.Tokoro), T.Yamaguchi, M.Tanaka, A.Kobayashi, Y.Oikawa: Current status of molecular taxonomy in pathogenic protozoan parasites, *Journal of the Juzen Medical Society.*, 117:53-57, 2008 (in Japanese) .

0220 Department of Pathology and Laboratory Medicine

Faculty

Title	Name	Field of Specialization
	NOJIMA Takayuki	surgical pathology, molecular pathology, basic science on bone and soft tissue tumors
	MINATO Hiroshi	Surgical pathology, Pathological study of head and neck, lung, mediastinum, and pleura
	FUKUNAGA Toshiharu	laboratory medicine, standardization of blood gas analysis, pulmonary function test
	KUROSE Nozomu	surgical pathology, molecular pathology
	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 (T.Yamaguchi), A.Kawahara, H.Minato, S.Ota, K.Fujiyoshi, K.Ushijima, T.Kamura, M.Kage: Cytological study of neuroendocrine tumors of the uterine cervix—Differential diagnosis from cervical squamous cell carcinoma and adenocarcinoma—, *J. Jpn. Soc. Clin. Cytol.*, 47:86-94, 2008 (in Japanese) .
- 0220B002 T.Fukunaga: Detection of expiratory flow limitation during tidal breathing with slope of mouth pressure curve after airflow interruption, *J. Kanazawa. Med. Univ.*, 33:13-20, 2008 (in Japanese) .
- 0220B003 (J.Shimizu), M.Oda, I.Matsumoto, Y.Arano, N.Ishikawa, K.Saitoh, H.Minato: Clinicopathologic study of surgically treated cases of tracheobronchial adenoid cystic carcinoma, *Proceedings of the Japanese Lung Cancer Society Lung cancer.*, 48:261-265, 2008 (in Japanese) .

Case Reports

- 0220D001 (H.Takato), M.Yasui, Y.Ichikawa, M.Fujimura, S.Nakao, Y.Zen, H.Minato: Nonspecific interstitial pneumonia with abundant IgG4-positive cells infiltration, which was thought as pulmonary involvement of IgG4-related autoimmune disease, *Intern. Med.*, 47:291-294, 2008.

- 0220D002 K.Sato, Y.Ueda, H.Tachibana, K.Miyazawa, I.Chikazawa, S.Kaji, T.Noijima, S.Katsuda: Malignant epithelioid angiomylipoma of the kidney in a patient with tuberous sclerosis: An autopsy case report with *p53* gene mutation analysis., *Pathol. Res. Pract.*, 204:771-777, 2008.
- 0220D003 (J.Shimizu), Y.Arano, T.Murata, N.Ishikawa, T.Yachi, T.Nomura, H.Minato: A case of intrathoracic giant malignant peripheral nerve sheath tumor in neurofibromatosis type I (von recklinghausen's disease), *Ann Thorac Cardiovasc Surg*, 14:42-47, 2008.
- 0220D004 K.Sato, M.Nakano, T.Terauchi, M.Takenaka, Y.Asakura, S.Kaji, T.Noijima, Y.Ueda: A case of large cell lung carcinoma with rhabdoid phenotype, *J. Jpn. Soc. Clin. Cytol.*, 47:64-68, 2008 (in Japanese) .
- 0220D006 K.Sato, T.Terauchi, Y.Asakura, M.Takenaka, M.Nakano, N.Kurose, Y.Ueda, M.Hirokawa: A case of thyroid oxyphilic follicular carcinoma with distinct trabecular growth pattern, *J. Jpn. Soc. Clin. Cytol.*, 47:200-204, 2008 (in Japanese) .
- 0220D007 M.Takenaka, K.Sato, T.Terauchi, M.Yamashita, Y.Asakura, M.Nakano, N.Kurose, T.Noijima: A case of diffuse large B-cell lymphoma hardly differentiating from high-grade urothelial carcinoma in cytology, *J. Jpn. Soc. Clin. Cytol.*, 47:296-300, 2008 (in Japanese) .

Others

- 0220F005 T.Noijima: Differential diagnosis on multinucleated osteoclast-type giant cell lesions, *Pathology and clinical medicine.*, 26:990-991, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0220I001 Y.Masaki, L.Dong, N.Kurose, K.Kitagawa, Y.Morikawa, M.Yamamoto, H.Takahashi, T.Saeki, A.Azumi, S.Nakada, S.Matsui, T.Origuchi, S.Nishiyama, I.Nishimori, T.Noijima, K.Yamada, M.Kawano, Y.Zen, M.Kaneko, K.Miyazaki, K.Tomoda, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, S.Sugai, H.Umehara: Proposal for A new clinical entity, IGG4-Positive Multi-Organ Lymphoproliferative syndrome : analysis of 64 cases of IGG4-Related disorders., 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0220I002 E.Kinoshita, N.Kurose, H.Minato, T.Noijima: Clear cell adenocarcinoma coexisting with squamous cell carcinoma in situ of the uterine cervix: a case repor, Internationalcongress of the international academy of pathology, (Athens, '08.10), *Histopathology*, 53:191, 2008.
- 0220I003 H.Minato, T.Noijima, N.Kurose, E.Kinoshita: Adenomatoid tumor of the pleura: a case report, International congress of the international academy of pathology, (Athens, '08.10), *Histopathology*, 53:355, 2008.

0230 Department of Social and Environmental Medicine

Faculty

Title	Name	Field of Specialization
	YAMADA Yuichi	Occupational Health, Epidemiology of circulatory and respiratory diseases
	ISHIZAKI Masao	Occupational Health, Job stress
(Additional Post)	HONDA Ryumon	Environmental health, Statistical analysis, Analytical chemistry
	NAKATA Minori	Industrial hygiene, Occupational medicine, Musculoskeletal disorders
	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 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Serial changes in urinary cadmium concentrations and degree of renal tubular injury after soil replacement in cadmium-polluted rice paddies, *Toxicol. Lett.*, 176:124-130, 2008.
- 0230B002 (E.Kobayashi), Y.Suwazono, M.Dochi, R.Honda, M.Nishiho, T.Kido, H.Nakagawa: Estimation of benchmark doses as threshold levels of urinary cadmium, based on excretion of β_2 -microglobulin in cadmium-polluted and non-polluted regions in Japan, *Toxicology Lett.*, 179:108-112, 2008.
- 0230B003 Y.Morikawa, K.Miura, S.Sasaki, K.Yoshita, S.Yoneyama, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, M.Higashiyama, H.Nakagawa: Evaluation of the effects of shift work on nutrient intake:a cross-sectional study, *J. Occup. Health*, 50:270-278, 2008.
- 0230B004 (T.Ninomiya), Y.Kiyohara, Y.Tokuda, Y.Do, H.Arima, A.Harada, Y.Ohashi, H.Ueshima, Japan Arteriosclerosis Longitudinal Study Group, H.Nakagawa, K.Miura, Y.Morikawa, M.Ishizaki: Impact of kidney disease and blood pressure on the development of cardiovascular disease: an overview from the Japan Arteriosclerosis Longitudinal Study., *Circulation*, 118:2694-2701, 2008.
- 0230B005 M.Ishizaki, H.Nakagawa, Y.Morikawa, R.Honda, Y.Yamada, N.Kawakami, The Japan Work Stress and Health Cohort Study Group: Influence of job strain on changes in body mass index and waist circumference—6-year longitudinal study, *Scand. J. Work Environ. Health*, 34:288-296, 2008.
- 0230B006 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Changes in renal tubular and glomerular functions and biological Acid-base balance after soil replacement in Cd-polluted rice paddies calculated with a general linear mixed model, *Biol Trace Elem Res*, 124:164-172, 2008.

- 0230B007 (T.Watanabe), M.Miyao, R.Honda, Y.Yamada: Hiroshima survivors exposed to very low doses of A-bomb primary radiation showed a high risk for cancers, *Environ. Health Prevent. Med.*, 13:264-270, 2008.
- 0230B008 M.Nishijo, K.Tawara, H.Nakagawa, R.Honda, T.Kido, H.Nishijo, S.Saito: 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin in maternal breast milk and newborn head circumference, *J. Expo. Sci. Environ. Epidemiol.*, 18:246-251, 2008.

Others

- 0230F002 (C.Aoki), M.Higashiyama, Y.Nakashima, H.Takayosi, C.Okamoto, E.Nagayama, C.Kobayashi, T.Kido, K.Miura, Y.Morikawa, M.Sakurai, K.Nakamura, H.Nakagawa, M.Ishizaki, Y.Naruse: Smoking cessation rate and its related factors on a smoking cessation support program in a workplace, *Hokuriku Japanese Journal of Public Health.*, 35:36-38, 2008 (in Japanese) .
- 0230F003 (C.Okamoto), M.Higashiyama, E.Nagayama, C.Aoki, H.Takayoshi, Y.Nakashima, C.Kobayashi, K.Miura, M.Sakurai, K.Nakamura, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Effects of educational program under a tutorial or a small-group system on body weight loss for obese participants in a workplace, *Hokuriku Japanese Journal of Public Health.*, 35:39-41, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0230I001 H.Osada, Y.Yamashiro, R.Honda, Y.Sakamoto, K.Nagai, Y.Kawakami, K.Sasaki, H.Sasaki: Posterior capsule opacification in rural areas of China, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0230I002 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: Effect factors of lens thickness, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th international Conference for Eye Research and the 11th Conference of Chinese Cataract Society Clinical Workshop, (Xi'an, '08.09).
- 0230I003 K.Nagai, H.Sasaki, R.Honda, M.Kojima, K.Sasaki, F.Jonasson, M.Ono: Lens thickness by three main types of cataract, The 7th Asina Cataract Research Conference in Conjunction with Cataract satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0230I004 Y.Morikawa, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, H.Nakagawa, Y.Naruse, M.Higashiyama: Drinking habit among shift workers and its health effects, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 0230I005 K.Kitaoka, Y.Morikawa, S.Matsuda, K.Ogino, K.Miura, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Burnout and riskfactors for arteriosclerotic disease: follow-up study, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.

0240 Department of Epidemiology and Public Health

Faculty

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

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 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Serial changes in urinary cadmium concentrations and degree of renal tubular injury after soil replacement in cadmium-polluted rice paddies, *Toxicol. Lett.*, 176:124-130, 2008.
- 0240B002 (Y.Kamon), T.Okamura, T.Tanaka, A.Hozawa, Z.Yamagata, T.Takebayashi, Y.Kusaka, S.Urano, H.Nakagawa, T.Kadowaki, Y.Miyoshi, H.Yamato, A.Okayama, H.Ueshima, HIPOP-OHP Research Group: Marital Status and Cardiovascular Risk Factors among Middleaged Japanese Male Workers: The High-risk and Population Strategy for Occupational Health Promotion (HIPOP-OHP) Study, *J. Occup. Health*, 50:348-356, 2008.
- 0240B003 K.Miura, A.Matsumori, A.Nasermoaddeli, Y.Soyama, Y.Morikawa, M.Sakurai, A.Kitabatake, M.Nagai, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with idiopathic dilated cardiomyopathy in Japan—results from a nationwide study—, *Circ. J.*, 72:343-348, 2008.
- 0240B004 (Y.Hayashino), S.Fukuhara, T.Okamura, H.Yamato, H.Tanaka, T.Tanaka, T.Kadowaki, H.Ueshima, HIPOP-OHP Research Group, H.Nakagawa, K.Miura: A prospective study of passive smoking and risk of diabetes in a cohort of workers:the high-risk and population strategy for occupational health promotion (HIPOP-OHP) study, *Diabetes Care.*, 31:732-734, 2008.

- 0240B005 (M.Naito), T.Nakayama, T.Okamura, K.Miura, M.Yanagita, Y.Fujieda, F.Kinoshita, Y.Naito, H.Nakagawa, T.Tanaka, H.Ueshima, HIPOP-OHP Research Group: Effect of a 4-year workplace-based physical activity intervention program on the blood lipid profiles of participating employees:the high-risk and population strategy for occupational health promotion(HIPOP-OHP) study, *Atherosclerosis*, 197:784-790, 2008.
- 0240B006 (E.Kobayashi), Y.Suwazono, M.Dochi, R.Honda, M.Nishiho, T.Kido, H.Nakagawa: Estimation of benchmark doses as threshold levels of urinary cadmium, based on excretion of β_2 -microglobulin in cadmium-polluted and non-polluted regions in Japan, *Toxicology Lett.*, 179:108-112, 2008.
- 0240B007 Y.Morikawa, K.Miura, S.Sasaki, K.Yoshita, S.Yoneyama, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, M.Higashiyama, H.Nakagawa: Evaluation of the effects of shift work on nutrient intake:a cross-sectional study, *J. Occup. Health*, 50:270-278, 2008.
- 0240B008 (P.Elliott), H.Kesteloot, L.J.Appel, AR.Dyer, H.Ueshima, Q.Chan, IJ.Brown, L.Zhao, J.Stamler, INTERMAP Cooperative Research Group, H.Nakagawa, K.Miura: Dietary phosphorus and blood pressure:international study of macro-and micro-nutrients and blood pressure, *Hypertension*, 51:669-675, 2008.
- 0240B009 (Y.Murakami), A.Hozawa, T.Okamura, H.Ueshima, Evidence for Cardiovascular Prevention From Observational Cohorts in Japan Reserch Group (EPOCH-JAPAN), H.Nakagawa, K.Miura: Relation of blood presssure and all-cause mortality in 180 000 Japanese participants:pooled analysis of 13 cohort studies, *Hypertension*, 51:1483-1491, 2008.
- 0240B010 K.Sunaga, K.Miura, Y.Naruse, M.Sakurai, Y.Morikawa, Y.Kurosawa, H.Nakagawa: Glycated hemoglobin and risk of stroke, ischemic and hemorrhagic, in Japanese men and women, *Cerebrovasc. Dis.*, 26:310-316, 2008.
- 0240B011 K.Miura, J.Stamler, H.Nakagawa, P.Elliott, H.Ueshima, Q.Chan, IJ.Brown, I.Tzoulaki, S.Saitoh, AR.Dyer, ML.Daviglus, H.Kesteloot, A.Okayama, JD.Curb, BL.Rodriguez, PJ.Elmer, LM.Steffen, C.Robertson, L.Zhao, International Study of Macro-Micronutrients and Blood Pressure Reserch Group: Relationship of dietary linoleic acid to blood pressure:the international study of macro-micronutrients and blood pressure study, *Hypertension*, 52:408-414, 2008.
- 0240B012 S.Yoneyama, K.Miura, K.Itai, K.Yoshita, H.Nakagawa, T.Shimmura, A.Okayama, K.Sakata, S.Saitoh, H.Ueshima, P.Elliott, J.Stamler, INTERMAP Research Group: Dietary intake and urinary excretion of selenium in the Japanese adult population: the INTERMAP Study Japan, *Eur. J. Clin. Nutr.*, 62:1187-1193, 2008.
- 0240B013 (Japan Arteriosclerosis Longitudinal Study(JALS) Group), H.Nakagawa: Japan arteriosclerosis longitudinal study-existing cohorts combine(JALS-ECC)-rationale, design, and population characteristics-, *Circ. J.*, 72:1563-1568, 2008.
- 0240B014 (T.Ninomiya), Y.Kiyohara, Y.Tokuda, Y.Do, H.Arima, A.Harada, Y.Ohashi, H.Ueshima, Japan Arteriosclerosis Longitudinal Study Group, H.Nakagawa, K.Miura, Y.Morikawa, M.Ishizaki: Impact of kindey disease and blood pressure on the development of cardiovascular disease: an overview from the Japan Arteriosclerosis Longitudinal Study., *Circulation*, 118:2694-2701, 2008.
- 0240B015 M.Ishizaki, H.Nakagawa, Y.Morikawa, R.Honda, Y.Yamada, N.Kawakami, The Japan Work Stress and Health Cohort Study Group: Influence of job strain on changes in body mass index and waist circumference-6-year longitudinal study, *Scand. J. Work Environ. Health*, 34:288-296, 2008.
- 0240B016 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Changes in renal tubular and glomerular functions and biological Acid-base balance after soil replacement in Cd-polluted rice paddies calculated with a general linear mixed model, *Biol Trace Elem Res*, 124:164-172, 2008.
- 0240B017 M.Nishijo, K.Tawara, H.Nakagawa, R.Honda, T.Kido, H.Nishijo, S.Saito: 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin in maternal breast milk and newborn head circumference, *J. Expo. Sci. Environ. Epidemiol.*, 18:246-251, 2008.
- 0240B018 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.
- 0240B019 (H.Ueda), A.Higashiyama, A.Okayama, T.Okamura, N.Okuda, K.Yoshita, S.Saitoh, K.Sakata, SR.Choudhury, T.Kadowaki, Y.Kita, K.Miura, H.Nakagawa, M.Watanabe, H.Ueshima, INTERMAP Japan Research Group: Obestiy and percentage energy from fat: the INTERMAP study of middle-age Japanese men, *Japanese journal of cardiovascular disease prevention.*, 43:123-131, 2008 (in Japanese) .

- 0240B020 (M.Nozue), N.Sarukura, M.Nishijo, H.Fujii, Y.Arai, A.Ishiwaki, N.Yoshiike, H.Nakagawa, K.Yoshita: A study on seasonal variations in nutrients and food groups and the relation between vegetable consumption and nutrients/food groups in a rural area of Toyama, Hokuriku Japanese Journal of Public Health., 34:58-64, 2008 (in Japanese) .
- 0240B021 M.Nakashima, K.Miura, Y.Morikawa, M.Nishijo, Y.Nakanishi, M.Sakurai, H.Nakagawa: Effect of smoke-free medical school on smoking behavior of medical students, Japanese Journal of Public Health., 55:647-654, 2008 (in Japanese) .

Short Communications

- 0240E001 M.Nishijo, S.Maruzeni, K.Tawara, T.Kido, Nhu.DD, Naganuma.R, H.Suzuki, Hung.TM, Dung.PT, Thom.LH, H.Nakagawa: Porychlorinated-dibenzo-p-dioxins/Furans and pregnancy outcome among vietnamese women living in a herbicide sprayed area, Organohalogen Compounds., 70:1882-1885, 2008.
- 0240E002 (T.Kido), R.Naganuma, H.Suzuki, Nhu.DD, K.Saito, M.Nishijo, H.Nakagawa, K.Tawara, Hung.NN, Thom.LH, Dung.PT: The relationship between visual acuity and dioxin levels of breast milk in the herbicide sprayed and non-sprayed areas in vietnam, Organohalogen Compounds., 70:550-553, 2008.

Others

- 0240F001 M.Sakurai, T.Takamura, K.Miura, S.Kaneko, H.Nakagawa: BMI may be better than waist circumference for defining metabolic syndrome in Japanese women, Diabetes Care., 31:e12, 2008.
- 0240F002 (T.Kido), S.Maruzeni, H.suzuki, Y.Odamae, M.Marunaka, 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 war agent orange/dioxin on human health in vietnam, Grant-in-Aid for Scientific Research (B) (2005~2007), 1-37, 2008.
- 0240F011 (C.Aoki), M.Higashiyama, Y.Nakashima, H.Takayosi, C.Okamoto, E.Nagayama, C.Kobayashi, T.Kido, K.Miura, Y.Morikawa, M.Sakurai, K.Nakamura, H.Nakagawa, M.Ishizaki, Y.Naruse: Smoking cessation rate and its related factors on a smoking cessation support program in a workplace, Hokuriku Japanese Journal of Public Health., 35:36-38, 2008 (in Japanese) .
- 0240F012 (C.Okamoto), M.Higashiyama, E.Nagayama, C.Aoki, H.Takayoshi, Y.Nakashima, C.Kobayashi, K.Miura, M.Sakurai, K.Nakamura, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Effects of educational program under a tutorial or a small-group system on body weight loss for obese participants in a workplace, Hokuriku Japanese Journal of Public Health., 35:39-41, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0240I001 M.Sakurai, K.Miura, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of long-term body weight change to HDL particle size change in Japanese men and women:The INTERMAP Toyama study. Joint conference, 49th Cardiovascular Disease Epidemiology and Prevention -and- Nutrition, (Colorado, '08.03), Physical Activity and Metabolism, 103, 2008.
- 0240I002 K.Miura, M.Sakurai, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of 9-year body weight change to change in LDL particle size in Japanese men and women:The INTERMAP Toyama study, Joint Conference -49th Cardiovascular Disease Epidemiology and Prevention -and- Nutrition, (Colorado, '08.03), Physical Activity and Metabolism, 103, 2008.
- 0240I003 M.Nishijo, S.Maruzeni, K.Tawara, T.Kido, N.DD, R.Naganuma, H.Suzuki, H.TM, D.PT, T.LTHN, H.Nakagawa: Porychlorinated-dibenzo-p-dioxins/furans and pregnancy outcome among vietnamesewomen living in a herbicide sprayed area, 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs), (Birmingham, '08.08), LOOKING TO THE FUTURE DEVELOPING THE NEXT GENERATION, 1882-1884, 2008.

- 0240I004 (H.Horikawa), H.Suzuki, R.Naganuma, K.Tawara, M.Nishijo, H.Nakagawa, H.NN, T.LTH, D.PT, N.DD, V.PT, B.NT, W.T, T.Kido, Y.Sato: Relation between dioxins levels in human breast milk samples and SCE values among lactating females in a defoliant-sprayed area in Vietnam, 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs), (Birmingham, '08.08), LOOKING TO THE FUTURE:DEVELOPING THE NEXT GENERATION, 646-648, 2008.
- 0240I005 (T.Kido), R.Naganuma, H.Suzuki, D.D.N, K.Sato, M.Nishijo, H.Nakagawa, K.Tawara, N.N.H, L.H.T, P.T.D.PT: The relationship between visual acuity and dioxin levels of breast milk in the herbicide sprayed and non-sprayed areas in Vietnam, 28th International Symposium on Halogenated Persistent Organic Pollutants (POPs), (BIRMINGHAM, '08.08), LOOKING TO THE FUTURE:DEVELOPING THE NEXT GENERATION, 550-552, 2008.
- 0240I006 Y.Morikawa, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, H.Nakagawa, Y.Naruse, M.Higashiyama: Drinking habit among shift workers and its health effects, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 0240I007 K.Kitaoka, Y.Morikawa, S.Matsuda, K.Ogino, K.Miura, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Burnout and riskfactors for arteriosclerotic disease: follow-up study, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.

0250 Department of Legal Medicine

Faculty

Title	Name	Field of Specialization
	KITAMURA Osamu	Forensic Pathology, Drug Dependence
	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 diatom detection in the diagnosis of drowning

Presentations at Conference

International Conference (Key Note Lecture)

0250G001 O.Kitamura: Detection of methamphetamine neurotoxicity in forensic autopsy cases, 7th International Symposium ADVANCES IN LEGAL MEDICINE, (Osaka, '08.09), THE JAPANESE JOURNAL OF LEGAL MEDICINE, 62:73, 2008.

International Conference (Presentations)

0250I001 T.Takeichi, O.Kitamura: Detection of diatom in formalin-fixed organs by enzymatic digestion, 7th International Symposium ADVANCES IN LEGAL MEDICINE, (Osaka, '08.09), THE JAPANESE JOURNAL OF LEGAL MEDICINE, 62:149, 2008.

0260 Department of Medical Education

Faculty

Title	Name	Field of Specialization
	YASUDA Yukio	undergraduate clinical teaching, graduate education of physicians, medical education
	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
	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.

0300 Department of Cardiovascular Medicine

Faculty

Title	Name	Field of Specialization
(Additional Post)	KAJINAMI Kouji	Atherosclerosis, lipid metabolism
	MATSUI Shinobu	Heart failure
	TSUGAWA Hiroichi	Arrhythmia, Catheter ablation
	ASAJI Takayoshi	Heart failure
	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
	UENISHI Hiroaki	Ischemic heart disease, Coronary intervention
	AKAO Hironobu	Ischemic heart disease, Coronary intervention
	TAKEDA Kenji	Molecular Biology
	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
	SATAKE Osamichi	Cardiomyopathy
	SATO Ryoko	Ischemic heart disease, Coronary intervention
	KASENO Kenichi	Arrhythmia, Catheter ablation
	NOMURA Yusuke	nuclear cardiology
	MOTOYAMA Atsushi	Ischemic heart disease, Coronary intervention
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 Z-P.Zong, S.Matsui, J-F.Han, S.Katsuda, ML.Fu: Involvement of thymus in amiodarone-treated autoimmune myocarditis in rats, *Int. J. Cardiol.*, 125:122-129, 2008.
- 0300B002 K.Takeda, S.Akazawa, Y.Kawai, K.Kajinami: Regulation of positive feedback loop of HB-EGF signal by gene 33/ralt in H9c2 cells, *J. Kanazawa. Med. Univ.*, 33:76-85, 2008.

- 0300B003 (J-I.Wu), S.Matsui, Z-P.Zong, K.Nishikawa, B-G.Sun, S.Katsuda, M.Fu: Amelioration of myocarditis by statin through inhibiting cross-talk between antigen presenting cells and lymphocytes in rats, *J. Mol. Cell. Cardiol.*, 44:1023-1031, 2008.
- 0300B004 K.Kaseno, H.Tada, K.Koyama, M.Jingu, S.Hiramatsu, M.Yokokawa, K.Goto, S.Naito, S.Oshima, K.Taniguchi: Prevalence and characterization of pulmonary vein variants in patients with atrial fibrillation determined using 3-dimensional computed tomography, *Am. J. Cardiol.*, 101:1638-1642, 2008.
- 0300B005 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.
- 0300B006 (Chun Yuan), Y.Kawai, S.Inaba, K.Arakawa, M.Katsuyama, K.Kajinami, T.Yasuda, C.Yabe-Nishimura, T.Konoshita, I.Miyamori: Synergy of aldosterone and high salt induces vascular smooth muscle hypertrophy through up-regulation of NOX1, *J. Steroid Biochem. Mol. Biol.*, 111:29-36, 2008.

Reviews

- 0300C001 A.Motoyama, H.Akao, K.Kajinami: LDL apheresis into the prevention of coronary atherosclerosis, *Japanese journal of apheresis.*, 27:42-46, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0300I001 H.Akao, M.Kitayama, Y.Kawai, H.Uenishi, A.Motoyama, R.Sato, M.Wakasa, K.Kajinami: Opposite role of osteopontin(OPN) and matrix gla protein(MGP) in advanced coronary atherosclerosis in patients treated with coronary rotational atherectomy(RA), *Arteriosclerosis, Thrombosis, and Vascular Biology Annual Conference 2008*, (Atlanta, '08.04).
- 0300I002 H.Akao, M.Kitayama, H.Uenishi, R.Sato, A.Motoyama, K.Kaseno, Y.Nomura, M.Wakasa, K.Kajinami: Differential role of calcification related molecules in advanced coronary atherosclerosis, *ESC Congress 2008*, (Munich, '08.08).

0310 Department of Respiriology (Respiratory Medicine)

Faculty

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

Books

- 0310A005 K.Osanai, D. R. Voelker: Analysis and expression of Rab38 in oculocutaneous lung disease, Small GTPases in disease, Part A, 203-215, Academic Press, USA, 2008.

Publications

Originals

- 0310B001 K.Osanai, R.Oikawa, J.Higuchi, M.Kobayashi, K.Tsuchihara, M.Iguchi, J.Huang, H.Toga, D.R.Voelker: A mutation in rab38 small GTPase causes abnormal lung surfactant homeostasis and aberrant alveolar structure in mice, *Am. J. Pathol.*, 173:1265-1274, 2008.
- 0310B002 M.Sagawa, K.Usuda, K.Tsuchihara, H.Aikawa, Y.Machida, M.Tanaka, M.Ueno, K.Nakagawa, T.Sakuma: Comparison of the images of virtual bronchoscopy under the different conditions, *The Japanese journal of thoracic surgery.*, 61:102-108, 2008 (in Japanese) .

0310B004 H.Aikawa, M.Sagawa, M.Tanaka, Y.Machida, M.Ueno, K.Usuda, T.Tobe, H.Toga, T.Sakuma: Endobronchial treatment using spiral-z stent and electrocauterization, J. Kanazawa. Med. Univ., 33:141-144, 2008 (in Japanese) .

Case Reports

0310D001 R. Oikawa, Y. Takahara, A. Yamaya, M. Saito, K. Kojima, Y. Tachi, T. Oikawa, K. Nakagawa, K. Tsuchihara, M. Iguchi, T. Tobe, M. Takahashi, J. Huang, K. Osanai, H. Toga: A case of broncholithiasis lithoptysis occurring spontaneously after repeated pneumonia, The journal of the Japanese Respiratory Society., 46:126-130, 2008 (in Japanese) .

0320 Department of Gastroenterology

Faculty

Title	Name	Field of Specialization
(Additional Post)	KAWAHARA Hiromu	Liver injury and oxidative stress
	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
	OZAKI Kazuaki	Mechanism of portal hypertension in alcoholic liver injury
	SHIROEDA Shoko	Clinical feature and treatment of severe acute pancreatitis
	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer
	FUKUMURA Atsushi	Etiology and clinical feature of acute hepatitis
	FUKURA Masayuki	Chemotherapy of advanced hepatic cancer
	YANO Hirokazu	Clinico-epidemiology of alcoholic liver injury
	OOTSUKA Toshimi	Clinico-pathological study of nonalcoholic steatohepatitis
	HAYASHI Nobuhiko	Effect of alcohol on colon carcinogenesis by chemical carcinogen
	YAMADA Masayoshi	Nonalcoholic steatohepatitis and oxidative stress
	FUKUYAMA Tomoki	Chemotherapy for gastrointestinal malignant disease

Keywords of Research

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

Outline of Research

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

Publications

Originals

0320B001 (T.Tahara), T.Shibata, H.Yamashita, I.Hirata, T.Arisawa: Effect of cyclin D1(CCND1)polymorphism on gastric premalignant condition, Clin. Chem. Lab. Med., 46:1696-1701, 2008.

Others

0320F001 M.Yamada, H.Kawahara, H.Shiroeda, M.Tsuchishima, Y.Masaki, K.Sato, S.Takase: Successful rituximab monotherapy for API2-MALT1 fusion positive primary mucosa-associated lymphoid tissue lymphoma of the transverse colon in a patient with liver cirrhosis, Scand. J. Gastroenterol., 43:761-764, 2008.

0330 Department of Nephrology

Faculty

Title	Name	Field of Specialization
(Additional Post)	YOKOYAMA Hitoshi	Clinicopathological study of nephritic and nephrotic syndrome, Clinical study of blood purification, Clinicopathological study of renal transplantation
	TOMOSUGI Naohisa	Proteomics in clinical nephrology
	ASAKA Mitsuhiro	Cellular immunity in uremia, Clinicopathological study of primary nonfunction and chronic allograft nephropathy in renal transplantation
	YAMAYA Hideki	Clinical nephrology,
	ADACHI Hiroki	Clinical nephrology,
	OKUYAMA Hiroshi	Clinical nephrology,
	CHIKAZAWA Yoshihiro	Clinical nephrology,
	NAKAGAWA Masaru	Clinical nephrology,
	HAYAMA Satoshi	Clinical nephrology,
	MORITA Kyoko	Clinical nephrology,
	ATSUMI Hirokatsu	Clinical nephrology.
	IMURA Junko	Clinical nephrology.
	FUJIMOTO Keiji	Clinical nephrology.
	KIMURA Shogo	Clinical nephrology.

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0330B001 H.Yokoyama, T.Kawaguchi, T.Wada, Y.Takahashi, T.Higashi, S.Yamazaki, S.Fukuhara, T.Akiba, T.Akizawa, Y.Asano, K.Kurokawa, A.Saito: Biocompatibility and permeability of dialyzer membranes 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, *Nephron Clin. Pract.*, 109:c100-c108, 2008.
- 0330B002 M.Asaka, H.Imamura, K.Sato, H.Atsumi, H.Okuyama, H.Yamaya, H.Yokoyama, I.Ishikawa: Ischemia-reperfusion injury as the leading cause of primary non-function in renal transplantation using donors with prolonged warm ischemic time, *Clin. Transplant.*, 22(Suppl 19):19-24, 2008.

Reviews

- 0330C006 H.Yokoyama, H.Yamaya: Urinalysis in chronic kidney diseases, *Nipponrinsho.*, 66:1713-1718, 2008 (in Japanese) .

Case Reports

- 0330D001 M.Nakagawa, S.Kimura, K.Fujimoto, H.Atsumi, J.Imura, Y.Chikazawa, H.Imamura, H.Okuyama, H.Yamaya, T.Fukushima, A.Nakagawa, M.Asaka, H.Yokoyama: A case report of an adult with severe hyperlipidemia during acute lymphocytic leukemia induction therapy successfully treated with plasmapheresis, *Ther Apher Dial*, 12:509-513, 2008.
- 0330D002 (H.Suzuki), F.Ito, H.Nakazawa, Y.Maeda, K.Yoshida, H.Tomoe, N.Tomosugi: Perioperative management in a maintenance hemodialysis patient with congenital antithrombin III deficiency undergoing surgery for renal cell carcinoma, *J. Jpn. Soc. Dial. Ther.*, 41:641-645, 2008 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0330H001 H.Yokoyama: Chronic allograft injury (CAI) as the aspect of chronic kidney disease (CKD), The 38th Annual Congress of the Korean Society for Transplantation & The 7th Korea-Japan Transplantation Forum, (Seoul, '08.10).

International Conference (Presentations)

- 0330I001 (M.Horio), E. Imai, T.Konta, K.Yamagata, K.Iseki, S.Hara, N.Ura, Y.Ando, T.Moriyama, Y.Kiyahara, H.Yokoyama, S.Fujimoto, T.Watanabe, H.Makino, A.Hishida, S.Matsuo: Update of the estimated prevalence of CKD in Japan from recent annual health checkup data of 574,024 subjects, *Renal Week 2008 ASN's 41st Annual Meeting & Scientific Exposition*, (Philadelphia, '08.11), *J.Am.Soc.Nephrol*, 19:534A, 2008.
- 0330I002 H.Yokoyama, M.Asaka, S.Kimura, H.Atsumi, J.Imura, Y.Chikazawa, M.Nakagawa, H.Okuyama, H.Yamaya, N.Tomosugi: Statins preserved the function of transplanted kidneys under controlled blood pressure, *Renal Week 2008 ASN's 41st Annual Meeting & Scientific Exposition*, (Philadelphia, '08.11), *J.Am.Soc.Nephrol*, 19:682A, 2008.

0340 Department of Endocrinology and Metabolism

Faculty

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

Keywords of Research

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

Outline of Research

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

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

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

Publications

Originals

- 0340B001 (Y.Yokomaku), T.Sugimoto, S.Kume, S.Araki, K.Isshiki, M.Chin-Kanasaki, M.Sakaguchi, N.Nitta, M.Haneda, D.Koya, T.Uzu, A.Kashiwagi: Asialoerythropoietin prevents contrast-induced nephropathy, *J. Am. Soc. Nephrol.*, 19:321-328, 2008.
- 0340B002 S.Tsuda, S.Nakano, K.Konishi, D.Koya: A lack of increase in high molecular weight-adiponectin in macroalbuminuric subjects with metabolic syndrome may exert renal and atherosclerotic risks, *Diabetes Res. Clin. Pract.*, 79:503-509, 2008.
- 0340B003 (The Shiga microalbuminuria reduction trial (SMART) group), S.Nakano, D.Koya: Impact of renin-angiotensin system inhibition on microalbuminuria in type 2 diabetes: a post hoc analysis of the Shiga Microalbuminuria Reduction Trial (SMART), *Hypertens. Res.*, 31:1171-1176, 2008.
- 0340B004 K.Konishi, S.Nakano, S.Tsuda, A.Nakagawa, T.Kigoshi, D.Koya: AST-120 (Kremezin) initiated in early stage chronic kidney disease stunts the progression of renal dysfunction in type 2 diabetic subjects, *Diabetes Res. Clin. Pract.*, 81:310-315, 2008.
- 0340B005 (S.Araki), M.Haneda, D.Koya, A.Kashiwagi, T.Uzu, R.Kikkawa: Clinical impact of reducing microalbuminuria in patients with type 2 diabetes mellitus, *Diabetes Res. Clin. Pract.*, 82(Suppl.1):S54-S58, 2008.
- 0340B006 S.Abe, S.Ohta, K.Uchida: The effect of diastolic dysfunction and hypertension in diabetes mellitus—Examination of left ventricular diastolic dysfunction using the valsalva maneuver—, *Journal of the Japan Diabetes Society.*, 51:213-218, 2008 (in Japanese) .

Case Reports

- 0340D001 M.Nakagawa, S.Kimura, K.Fujimoto, H.Atsumi, J.Imura, Y.Chikazawa, H.Imamura, H.Okuyama, H.Yamaya, T.Fukushima, A.Nakagawa, M.Asaka, H.Yokoyama: A case report of an adult with severe hyperlipidemia during acute lymphocytic leukemia induction therapy successfully treated with plasmapheresis, *Ther Apher Dial*, 12:509-513, 2008.

Presentations at Conference

International Conference (Presentations)

- 0340I001 (S.Kume), A.Kashiwagi, D.Koya: The role of mitochondrial biogenesis and SIRT1-PGC1alpha pathway on the development of age-associated kidney diseases, *New Applications for Aging Research*, (San Diego, CA, '08.01).
- 0340I002 K.Konishi, S.Nakano, S.Tsuda, A.Nakagawa, T.Kigoshi, D.Koya: AST-120 (Kremezin) initiated in early stage chronic kidney disease stunts the progression of renal dysfunction in type 2 diabetic subjects, *The Shiga Internatrional Symposium on Diabetic Nephropathy*, (Otsu, Japan, '08.03).
- 0340I003 M.Kitada, N.Imaizumi, D.Koya: Resveratrol was effective in protecting diabetic nephropathy, via normalizing Mn-SOD dysfunction, *ISN Nexus Diabetes and the Kidney*, (Dublin, Ireland, '08.06), *ISN Nexus Diabetes and the Kidney; Final Program & Book of Abstracts*, p12, 2008.
- 0340I004 Tsuda S, Nakano S, Konishi K, Koya D: The positive link between serum adiponectin level and occurrences of cardiovascular disease, *American Diabetes Association 68th Scientific Sessions*, (San Francisco, CA, '08.06), *Diabetes*, 57(Suppl.1):A196, 2008.
- 0340I005 (Kume S), Hirata K, Araki S, Nishiyama A, Sugimoto T, Koya D, Haneda M, Uzu T, Kashiwagi A: A GLP-1 analog, exendin-4, attenuates the developments of renal injury and hypertension in type 2 diabetic db/db mice, *American Diabetes Association 68th Scientific Sessions*, (San Francisco, CA, '08.06), *Diabetes*, 57(Suppl.1):A205, 2008.
- 0340I006 (Araki S), Matsuno H, Uzu T, Sugimoto T, Nishio Y, Maegawa H, Koya D, Haneda M, Kashiwagi A: Albuminuria is an independent risk factor to induce spontaneous platelet micro-aggregation in patients with type 2 diabetes mellitus, *American Diabetes Association 68th Scientific Sessions*, (San Francisco, CA, '08.06), *Diabetes*, 57(Suppl.1):A207, 2008.

- 0340I007 Kitada M, Imaizumi N, Nishizawa M, Nakagawa A, Koya D: Resveratrol protects against oxidative stress induced diabetic nephropathy, American Diabetes Association 68th Scientific Sessions, (San Francisco, CA, '08.06), Diabetes, 57(Suppl.1):A219, 2008.
- 0340I008 (Deji N), Kume S, Araki S, Sugimoto T, Isshiki K, Koya D, Haneda M, Uzu T, Kashiwagi A: Renal metabolic functional and structural alterations in the mice fed on a high-fat diet, American Diabetes Association 68th Scientific Sessions, (San Francisco, CA, '08.06), Diabetes, 57(Suppl.1):A479, 2008.
- 0340I009 M.Kitada, N.Imaizumi, D.Koya: Effectiveness of resveratrol treatment in the improvement of oxidative stress and protection against diabetic nephropathy via normalisation of Mn-SOD dysfunction, 44th EASD Annual Meeting, (Rome, Italy, '08.09).
- 0340I010 D.Koya: Control of mitochondrial turnover under the influence of SIRT1 in aged kidney, Renal week 2008, (Philadelphia, USA, '08.11).

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
	UMEHARA Hisanori	Hematology and Immunology
	HIROSE Yuko	Hematology and Immunology, Transfusion Medicine
	FUKUSHIMA Toshihiro	Hematology and Immunology
	MASAKI Yasufumi	Hematology and Immunology
	TANAKA Masao	Rheumatology, Immunology
	SAWAKI Toshioki	Hematology and Immunology
	KAWANAMI Takafumi	Hematology and Immunology
	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 (K.Shimada), K.Matsue, K.Yamamoto, T.Murase, N.Ichikawa, M.Okamoto, N.Niitsu, H.Kosugi, N.Tsukamoto, H.Miwa, H.Asaoku, A.Kikuchi, M.Matsumoto, Y.Saburi, Y.Masaki, M.Yamaguchi, S.Nakamura, T.Naoe, T.Kinoshita: Retrospective analysis of intravascular large B-Cell lymphoma treated with rituximab-containing chemotherapy as reported by the IVL study group in Japan, *J. Clin. Oncol.*, 26:3189-3195, 2008.
- 0350B002 (T.Yamashita), T.Fukushima, T.Ueda: Pharmacokinetic self-potential of idarubicin by induction of anthracycline carbonyl reducing enzymes, *Leukemia and Lymphoma*, 49:809-814, 2008.
- 0350B003 Z.Jin, C.Huang, L.Dong, S.Goda, T.Kawanami, T.Sawaki, T.Sakai, X.Tong, Y.Masaki, T.Fukushima, M.Tanaka, T.Mimori, H.Tojo, E.Bloom, T.Okazaki, H.Umehara: Impaired TCR signaling through dysfunction of lipidrafts in sphingomyelin synthase 1(SMS1)-knockdown T cells, *Int. Immunol.*, 20:1427-1437, 2008.

- 0350B004 C.Huang: Relationship between cisplatin-induced apoptosis and membrane sphingomyelin, J. Kanazawa. Med. Univ., 33:91-97, 2008 (in Japanese) .
- 0350B005 Y.Saito, K.Naruhashi, N.Inoue, A.Kubo, Y.Takahashi, M.Kobori, Y.masaki, K.Nishio: Investigation of usefulness of drugs prescribed for supportive therapy for CHOP-related chemotherapy based on clinical pathway, Japanese journal of pharmaceutical health care and sciences., 34:52-58, 2008 (in Japanese) .

Reviews

- 0350C001 (S.Sugai), Y.Masaki: Current and prospective treatment options for Sjögren's syndrome, Expert Rev. Clin. Immunol., 4:469-479, 2008.

Case Reports

- 0350D001 M.Nakagawa, S.Kimura, K.Fujimoto, H.Atsumi, J.Imura, Y.Chikazawa, H.Imamura, H.Okuyama, H.Yamaya, T.Fukushima, A.Nakagawa, M.Asaka, H.Yokoyama: A case report of an adult with severe hyperlipidemia during acute lymphocytic leukemia induction therapy successfully treated with plasmapheresis, Ther Apher Dial, 12:509-513, 2008.
- 0350D002 T.Fukushima, L.Dong, T.Sakai, T.Sawaki, M.Miki, M.Tanaka, Y.Masaki, Y.Hirose, M.Kuwana, H.Umehara: Successful treatment of amegakaryocytic thrombocytopenia with anti-CD20 antibody(rituximab)in a patient with systemic lupus erythematosus, Lupus., 17:210-214, 2008.

Others

- 0350F001 M.Yamada, H.Kawahara, H.Shiroeda, M.Tsuchishima, Y.Masaki, K.Sato, S.Takase: Successful rituximab monotherapy for API2-MALT1 fusion positive primary mucosa-associated lymphoid tissue lymphoma of the transverse colon in a patient with liver cirrhosis, Scand. J. Gastroenterol., 43:761-764, 2008.

Presentations at Conference

International Conference (Presentations)

- 0350I001 (K.Matsue), K.Shimada, K.Yamamoto, T.Murase, N.Ichikawa, M.Okamoto, N.Niitsu, H.Kosugi, N.Tsukamoto, H.Miwa, H.Asaoku, A.Kikuchi, M.Matsumoto, Y.Saburi, Y.Masaki, M.Kashimura, T.Yoshida, M.Yamaguchi, S.Nakamura, T.Naoe, T.Kinoshita: A retrospective analysis of rituximab-containing chemotherapies for intravascular large B-cell lymphoma, 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0350I002 (N.Tomita), N.Nakamura, K.Takeuchi, J.Koike, S.Motomura, K.Miyamoto, A.Kikuchi, R.Hyo, Y.Yakushijin, Y.Masaki, S.Fujii, T.Hayashi, Y.Ishigatsubo, I.Miura: Clinicopathological features of lymphoma/ leukemia patients carrying both BCL2 and MYC translocations, 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0350I003 Y.Masaki, L.Dong, N.Kurose, K.Kitagawa, Y.Morikawa, M.Yamamoto, H.Takahashi, T.Saeki, A.Azumi, S.Nakada, S.Matsui, T.Origuchi, S.Nishiyama, I.Nishimori, T.Nojima, K.Yamada, M.Kawano, Y.Zen, M.Kaneko, K.Miyazaki, K.Tomoda, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, S.Sugai, H.Umehara: Proposal for A new clinical entity, IGG4-Positive Multi-Organ Lymphoproliferative syndrome : analysis of 64 cases of IGG4-Related disorders., 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0350I004 N.Tomosugi, K.Kitagawa, H.Tsuchida, H.Umehara: Identification and quantification of tear proteins in sjogren's, HUPO 2008 'th WORLO CONGRESS, (Amsterdam, '08.08).
- 0350I005 H.Umehara: An Interim Report of SICCA-International Sjögren Syndrome Registry, MEDICAL-EXPO 2008 in APLAR's World, (Yokohama, '08.09).
- 0350I006 X.Tong: Prevalence And Relevance To Disease Manifestation Of Autoantibodies To RBP1-like protein(Rbik)in Rheumatoid Arthritis, MEDICAL-EXPO 2008 in APLAR's World, (Yokohama, '08.09).

- 0350I007 (S.Sugai), Y.Masaki: Sjögren's syndrome and IgG4-related disorders(Mikulicz's disease), MEDICAL-EXPO 2008 in APLAR's World, (Yokohama, '08.09).
- 0350I008 (S.Sugai), Y.Masaki: Sjögren's syndrome and lymphoproliferative disorders, MEDICAL-EXPO 2008 in APLAR's World, (Yokohama, '08.09).
- 0350I009 (T.Daniels), K.Kitagawa, H.Tsuchida, H.Umehara: -SICCA- International sjogren's syndrome registry : Two Year follow-up analyses and elucidation of fow keratoconjunctivitis sicca subtypes, ACR/ARHP 08, (San Francisco, '08.10).

0360 Department of Neurology

Faculty

Title	Name	Field of Specialization
	MATSUI Makoto	Clinical neurology, Neuroimmunology, Clinical Immunology
	TANAKA Keiko	Clinical neurology, Neuroimmunology
	NAGAYAMA Shigeni	Clinical neurology, Neuroimmunology
	KAWAMURA Kazuyuki	Clinical neurology, Neuroimmunology
	NAGAISHI Akiko	Clinical neurology
	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
	KAITO Muichi	Clinical neurology
	GONDO Yuichiro	Clinical neurology
	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 A.Nagaishi, M.Yukitake, Y.Kuroda: Long-term treatment of steroid-dependent myasthenia gravis patients with low-dose tacrolimus, *Intern. Med.*, 47:731-736, 2008.

Reviews

0360C001 M.Matsui: Multiple sclerosis immunology for clinicians, *NEUROLOGY ASIA*, 13:195-198, 2008.

0360C002 M.Matsui: Classification of MS and treatment strategy, *Nipponrinsho.*, 66:1112-1116, 2008 (in Japanese).

0360C005 M.Matsui: Progress in unravelling the etiology of multiple sclerosis?, *Clinical Neurology.*, 48:849-852, 2008 (in Japanese).

0360C006 K.Tanaka: The role of anti-aquaporin 4 antibody in NMO/OSMS, *Neuroimmunol Neuroimmunology.*, 16:161-164, 2008 (in Japanese).

Case Reports

0360D001 A.Nagaishi, H.Tanabe, M.Ueno, M.Matsui, M.Matsui: A case of non-alcoholic pellagra following gastrectomy, *Clinical Neurology.*, 48:202-204, 2008 (in Japanese).

- 0360D002 S.Nagayama, F.Koike, T.Sakai, Y.Antoku, M.Yukitake, Y.Kuroda: A case of anti P/Q type VGCC antibody positive small lung cell carcinoma that occurred with subacute cerebellar degeneration, Lambert-Eaton myasthenic syndrome, and brainstem encephalitis, *Brain and nerve.*, 60:1470-1474, 2008 (in Japanese) .

Short Communications

- 0360E001 K.Tanaka, T.Tani, M.Tanaka, M.Nishizawa, K.Sakimura, M.Matsui: Anti-aquaporin 4 antibody test in a large series of Japanese optic-spinal multiple sclerosis and neuromyelitis optica, *NEUROLOGY ASIA*, 13:203-204, 2008.

Presentations at Conference

International Conference (Key Note Lecture)

- 0360G001 M.Matsui: How to diagnose OSMS and NMO, Expert Meeting for sixth MS Forum Pan-Asian Conference, (Bangkok, '08.06).
- 0360G002 K.Tanaka: Research Update in Anti-AQP4 Testing, MS Forum Consensus, (Bangkok, '08.06).
- 0360G003 M.Matsui: MS Immunology for the Clinicians, 1st PACTRIMS Congress and 6th MS Forum, (Kuala Lumpur, '08.11).

International Conference (Presentations)

- 0360I001 K.Tanaka, T.Tani, M.Tanaka, M.Nishizawa, K.Sakimura, M.Matsui: NMO-IgG and anti-aquaporin 4 antibody simultaneously examined in a large series of Japanese neuromyelitis optica, World congress on Treatment and Research in Multiple Sclerosis, (Montreal, '08.09).
- 0360I002 M.Matsui, S.Araya, Y.Kitagawa, M.Nakata: Percentage of regulatory T cell used to monitor inflammation in the central nervous system in comparison to systemic circulation in neurological patients with infection and multiple sclerosis, 9th International Congress of Neuroimmunology, (Fort Worth, Texas, '08.10).
- 0360I003 K.Tanaka: Anti-Aquaporin4 antibody test in a large series of Japanese NMO/OSMS, 1st PACTRIMS, (Kuala Lumpur, '08.11).

0370 Department of Geriatric Medicine

Faculty

Title	Name	Field of Specialization
	MORIMOTO Shigeto	Geriatrics, Hypertension, Calcium Metabolism, Dementia, Osteoporosis
	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
	TSUCHIYA Hiroshi	Geriatrics, Circulation, Atherosclerosis
	NAKHASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology
	MURAI Hiroshi	Geriatrics, Gastroenterology, Dementia, Nutrition
	OKURO Masashi	Geriatrics, Circulation, Hypertension, Atherosclerosis
	ISHIGAMI Keiichiro	Geriatrics, Dementia
	OHASHI Isao	Geriatrics, Hypertension, Atherosclerosis
	OWARI Masaki	Geriatrics, Hypertension, Atherosclerosis
	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 α s dementia scale, eicosapentaenoic acid, nitrendipine

Outline of Research

The main fields of research of our Department are to elucidate pathogenesis 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 R.Chen, J.Moriya, J.Yamakawa, T.Takahashi, Q.Li, S.Morimoto, K.Iwai, H.Sumino, N.Yamaguchi, T.Kanda: Brain atrophy in a murine model of chronic fatigue syndrome and beneficial effect of hochu-ekki-to(TJ-41), *Neurochem. Res.*, 33:1759-1767, 2008.
- 0370B002 K.Nomura, H.Murai, T.Nakahashi, H.Tsuchiya, K.Iwai, S.Morimoto: Association seroprevalence of human metapneumovirus with small vessel disease with dementia in elderly inpatients in Japan, *J. Kanazawa. Med. Univ.*, 33:86-90, 2008.
- 0370B003 F.Yu, R.Chen, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Candesartan improves myocardial damage in obese mice with viral myocarditis and induces cardiac adiponectin, *Int. J. Cardiol.*, 129:414-421, 2008.

- 0370B004 K.Iwai, T.Takahashi, T.Nakahashi, K.Nomura, M.Atsumi, L.Zeng, K.Ishigami, T.Kanda, N.Yamaguchi, S.Morimoto: Immobilization stress inhibits intimal fibromuscular proliferation in the process of arterial remodeling in rats, *Hypertens. Res.*, 31:977-986, 2008.

Others

- 0370F001 K.Nomura, H.Murai, T.Nakahashi, S.Mashiba, Y.Watoh, T.Takahashi, S.Morimoto: Outbreak of norovirus gastroenteritis in elderly evacuees after the 2007 Noto peninsula earthquake in Japan, *J. Am. Geriatr. Soc.*, 56:361-363, 2008.
- 0370F002 T.Takahashi, K.Nomura, H.Honda, T.Nakahashi, K.Iwai, M.Atsumi, K.Ishigami, T.Inamatsu, S.Morimoto: Association between seroprevalence of human metapneumovirus and c-reactive protein level and apolipoprotein e- ϵ 4 allele in elderly inpatients in Japan, *J. Am. Geriatr. Soc.*, 56:1758-1760, 2008.

Presentations at Conference

International Conference (Presentations)

- 0370I001 T.Kanda, K.Kusaka, T.Takahashi, J.Moriya, J.Yamakawa, R.Chen, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai: Candesartan regulates polarization of Th1 and Th2 cytokines in lymphoid organs of obese mice with acute myocarditis, *Basic Cardiovascular Sciences Conference 2008*, (Colorado, '08.07).

0380 Department of Pediatrics

Faculty

Title	Name	Field of Specialization
(Additional Post)	KAKINUMA Hiroaki	Child neurology, Inborn errors of metabolism, Clinical genetics
	YANASE Takuya	Pediatric hematology, Pediatric nephrology
	NAKAMURA Tsuneyuki	Pediatric cardiology
	KOBAYASHI Azusa	Neonatology
	NAKAMURA Toshimi	Pediatric allergy, Pediatric immunology
	ITO Masatsune	Pediatric endocrinology, Pediatric metabolism, Inborn errors of metabolism.
	YAMAMURA Junichi	Pediatric Psychosomatic Disorder, Infectious Disease of Childhood, Clinical Virology, Fast and Easy Detection System for Infectious agent
	FUJIKI Takuma	Pediatric nephrology
	SATO Hitoshi	Infectious disease in children, Molecular biology, Child neurology, Inborn errors of metabolism
	OKADA Naoki	Pediatric hematology, Pediatric oncology
	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 (S.Otomo), J.Yamamura, E.Hayashi, T.Nakamura, H.Kakinuma, Y.Nakamoto, H.Takahashi, T.Karasawa: Analysis of children with *Chlamydomphila(Chlamydia)pneumoniae* and *Mycoplasma pneumoniae* respiratory infections by real-time PCR assay and serological tests, APMIS., 116:477-483, 2008.
- 0380B003 T.Nakamura, A.Kobayashi, C.Akita, C.Kitaoka, N.Okada, H.Sato, J.Yamamura, H.Kakinuma, H.Takahashi: Use of new therapeutic agents in cardiovascular diseases of neonates in our hospital, Japanese journal of pediatrics., 61: 41-45, 2008 (in Japanese) .
- 0380B005 T.Nakamura, J.Yamamura, T.Nakamura, H.Sato, Y.Mastue, Y.Saikawa: The current situation concerning the outreach of the basic life support and the automated external defibrillator in the elementary and junior high school in the Noto area, Ishikawa Prefecture, Japanese Society of Emergency Pediatrics., 7:309-312, 2008 (in Japanese) .

- 0380B006 (Y.Adachi), G.Murakami, T.Nakamura, A.Yachie, Y.Ohshima, M.Mayumi: Use of a simple questionnaire and checklist to implement childhood asthma guideline, *Jpn. j. pediatr. allergy clin. immunol.*, 22:369-378, 2008 (in Japanese) .

Reviews

- 0380C001 H.Kakinuma, H.Sato: Copy-number variations associated with autism spectrum disorder, *Pharmacogenomics*, 9:1143-1154, 2008.

Case Reports

- 0380D001 C.Akita, T.Nakamura, H.Sato, H.Kakinuma: Recovery from lethal arrhythmia after weight gain in a patient with an eating disorder and epilepsy, *Pediatr. Cardiol.*, 29:673-675, 2008.
- 0380D002 C.Akita, C.Kitaoka, T.Nakamura: A case of recurrent Kawasaki disease with severe cardiac sequelae, *Progress in Medicine*, 28:1730-1734, 2008 (in Japanese) .

Short Communications

- 0380E001 H.Kakinuma, M.Ozaki, H.Sato, H.Takahashi: Variation in GABA-A subunit gene copy number in an autistic patient with mosaic 4 p duplication (p12p16), *Am. J. Med. Genet. B Neuropsychiatr. Genet.*, 147B:973-975, 2008.

Presentations at Conference

International Conference (Presentations)

- 0380I001 M.Ito, H.Kakinuma: Functional studies of a duplication mutation of valine at 235 by a transient expression assay in a boy with mct8 deficiency, *SSIEM 2008, (Lisboa, '08.09)*, *JIMD*, 31 Suppl 1:139, 2008.
- 0380I002 T.Horisawa, T.Komatsuzaki, Y.Saikawa: Computational Hematology in Systems Biology, 8th International Conference on Cellular Automata for Research and Industry, (Yokohama, '08.09), "Proceedings of 8th International Conference on Cellular Automata for Research and Industry Yokohama," , 23-26, 2008.
- 0380I003 (K.Hirono), K.Ibuki, K.Saito, S.Watanabe, K.Watanabe, F.Ichida, T.Miyawaki, N.Yoshimura, C.Akita, T.Nakamura: Bosentan induces clinical and hemodynamic improvement in candidates for right heart bypass surgery, *AHA Scientific Sessions, (New Orleans, '08.11)*.

0390 Department of Neuropsychiatry

Faculty

Title	Name	Field of Specialization
	JIBIKI Itsuki	Schizophrenia, Epilepsy, Brain imaging, Psychopharmacology, Senile Dementia, Senile Psychosis
	KUBOTA Takashi	Schizophrenia, Psychopharmacology, Epilepsy
	IWASAKI Shinzo	Psycho Physiology, Neuropsychology, Brain Imaging
	WATANABE Kenichiro	Neuropsychology, Neuropharmacology
	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
	KOIZUMI Hazuki	Clinical Psychology, Cognitive-behavioral therapy
	KOIWA Daisuke	Brain imaging, Schizophrenia
	NANNO Hisatoshi	Schizophrenia
	HIROYASU Kiwamu	Molecular Psychiatry, Schizophrenia, Epilepsy
	KAWAMURA Tomomi	Psychopharmacology, Neuropsychology
	SHIMIZU Satoru	Brain imaging
	MASUDA Shinji	Schizophrenia
	MONKAWA Akikazu	Brain imaging, Schizophrenia

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0390B001 T.Kubota, I.Jibiki, A.Ishikawa, T.Kawamura, S.Kurokawa, M.Wang: Increase in extracellular dopamine levels during clozapine-induced potentiation in the hippocampal dentate gyrus of chronically prepared rabbits, *Can. J. Physiol. Pharmacol.*, 86:249–256, 2008.
- 0390B002 清水 聡: Relations between VSRAD-based Parahippocampal Atrophy and Results of Neuropsychological Tests in Patients with Alzheimer's Disease and in Those with Mild Cognitive Impairment, *J. Kanazawa. Med. Univ.*, 33:145–152, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0390I001 T.Kubota, A.Ishikawa, T.Kawamura, M.Sho, L.Xudong, I.Jibiki: Effects of atypical antipsychotics on excitatory synaptic transmission, and dopamine and 5-HT levels in the hippocampus., 21Th ECNP Congress, (Barcelona, '08.09).
- 0390I002 T.Kubota, A.Ishikawa, T.Kawamura, M.Sho, L.Xudong, I.Jibiki: Effects of Antipsychotics on Synaptic Transmission, and Dopamine and 5-HT Levels in the Hippocampus, 2nd WFSBP Asia-Pacific Congress and 30th Annual Meeting of JSBP, (Toyama, '08.09), THE WORLD JOURNAL OF BIOLOGICAL PSYCHIATRY, 182, 2008.
- 0390I003 H.Koizumi, M.Hiraguchi: MMPI profile pattern of ocd patients and its changes after CBT interventions: implications for treatment of resistant OCD, 38th EABCT Annual Congress, (Finland, '08.09).

0400 Department of Diagnostic and Therapeutic Radiology

Faculty

Title	Name	Field of Specialization
	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
	MATOBA Munetaka	Interventional Radiology, Diagnostic Imaging
	YOKOTA Hajime	Gastrointestinal Radiology, MR Spectroscopy
	OGUCHI Manabu	Radiation Therapy, Nuclear Medicine
	TANIGUCHI Mitsuru	Cardiac Nuclear Medicine
(Additional Post)	KUGINUKI Yasuaki	Diagnostic Imaging
(Additional Post)	OTA Kiyotaka	Radiation Therapy
	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging.
	KITADATE Masataka	Diagnostic Imaging,
	DOAI Mariko	Diagnostic Imaging,

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0400B001 H.Yokota, H.Tonami: Experimental studies on the bone metabolism of male rats chronically exposed to cadmium intoxication using dual-energy X-ray absorptiometry, *Toxicol. Ind. Health.*, 24:161-170, 2008.
- 0400B002 T.Kondo: Experimental study on the evaluation of early therapeutic effect after irradiation using high-resolution MRI and ^1H -MRS, *J. Kanazawa. Med. Univ.*, 33:129-138, 2008 (in Japanese) .

Reviews

- 0400C001 Y.Ueda, M.Shimasaki, K.Higashi, G.Guo, K.Sato, M.Sagawa, T.Sakuma, S.Katsuda: Recent advance in the pathology of lung cancer, *J. Kanazawa. Med. Univ.*, 33:21-30, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0400I001 Y.Kuginuki, H.Tonami: Computational flow dynamics in abdominal aortic aneurysm using multislice CT, RSNA 94th Scientific assembly and annual meeting, (Chicago, '08.11).

0410 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
	AKITA Toshiaki	Cardiovascular surgery
	SHIKATA Hiroo	Vascular surgery
	HIDA Kenji	Vascular surgery
	NAGAYOSHI Yasuhiro	Cardiovascular surgery
	NISHIZAWA Hisateru	Cardiovascular surgery
	KANNO Masaaki	Cardiovascular surgery
	KOBATA Takashi	Vascular surgery
	HASEGAWA Hiroki	Cardiovascular surgery
	NONAKA Toshimichi	Cardiovascular surgery
	NOGUCHI Yasuhisa	Cardiovascular surgery
	KIYOSAWA Jun	Cardiovascular surgery
	MIZUNO Fumito	Cardiovascular surgery

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0410B001 K.I.Takeuchi, S.Sakamoto, Y.Nagayoshi, H.Nishizawa, Y.Noguchi, J.Kiyosawa, J.Matsubara: Change in serum S-100 β after cardiovascular surgery, Estratto da CHIRURGIA., 21:135-138, 2008.

Reviews

- 0410C001 (T.Nishibe), Y.Kondo, M.Ando, N.Shiiya, A.Ishida, T.Miyata, Y.Obitsu, H.Shigematsu, S.Shindo, K.Hida, J.Matsubara, T.Ohta, T.Kawasaki, T.Yasugi, T.Onohara: Current status of antiplatelet drug treatment for patients with ASO in Japan, The journal of Japanese College of Angiology., 48:67-73, 2008 (in Japanese) .

Case Reports

0410D001 H.Shikata, M.Kohno, M.Kanno, J.Matsubara: A case of endoscopic surgery in an octogenarian for large esophageal hernia oppressing the lung and heart, The Journal of the Japanese Association for Chest Surgery., 22: 649-653, 2008 (in Japanese) .

Presentations at Conference

International Conference (Synposium)

0410H001 K.Hida, Y.Noguchi, T.Kobata, H.Shikata, T.Akita: Evaluation of the short-term results of endovenous radiofrequency obliteration of the saphenous vein using ultrasound echography and air plethysmography, The 5th Meeting of the Japanese-German Society for Vascular Surgery, (Toba, '08.08).

0420 Department of Surgical Oncology

Faculty

Title	Name	Field of Specialization
	TAKASHIMA Shigeki	Surgical treatment of gastrointestinal cancer—especially gastric cancer and colorectal cancer
	KOSAKA Takeo	Surgical treatment of gastric cancer
	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
	NAKANO Yasuharu	Surgery of breast cancer
	OMOTE Kazuhiko	Surgical treatment of gastric cancer
	YOSHITANI Shinichiro	Surgery of colorectal cancer
	TANAKA Yumiko	Surgery of colorectal cancer
	HASEGAWA Taisuke	Surgery of hepatobiliary diseases
	MUKAI Hirokado	Surgery of digestive disease
	YOKOI Miki	Surgery of breast cancer
	KURODA Masatoshi	Surgery of colorectal cancer
	HAYASHI Kei	Surgery of digestive disease
	OOBA Masaru	Surgery of gastric cancer, Surgery of colorectal cancer

Keywords of Research

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

Outline of Research

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

0430 Department of Orthopedics Surgery

Faculty

Title	Name	Field of Specialization
	MATSUMOTO Tadami	Hip surgery
(Additional Post)	OKADA Masato	Peripheral nerve surgery, Trauma
	FUJITA Takuya	Spinal surgery
	KANEUJI Ayumi	Hip and Knee surgery, Sports medicine
	OKUDA Tetsuhito	Spinal surgery
	SUGIMORI Tanzo	Hip and Knee surgery, Sports medicine
	MAEOKA Hayato	Trauma
	HOSOKAWA Hidetaka	Spinal surgery
	ICHISEKI Toru	Hip surgery
	HATANO Eiju	Spinal surgery
	MIAKI Kohei	Hip surgery
	HIROMURA Kentaro	Trauma
	FUKUI Kiyokazu	Hip surgery
	YASUDA Yoshihito	Spinal surgery
	YAMADA Kengo	Hip surgery
	KITAMURA Kenji	Hip surgery
	TAKADA Naruki	Trauma
	TOMIDOKORO Jun	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 (H.Kimura), A.Kaneuji, T.Sugimori, T.Matsumoto: Revision total hip arthroplasty by nonmodular short and long cementless stems, *J. Orthop. Sci.*, 13:335–340, 2008.
- 0430B002 (T.Kabata), T.Matsumoto, S.Yagishita, T.Wakayama, S. Iseki, K.Tomita: Vascular endothelial growth factor in rabbits during development of corticosteroid-induced osteonecrosis: a controlled experiment, *J. Rheumatol.*, 35:2383–2390, 2008.
- 0430B003 (K.Hirosaki), K.Shintani, A.Kaneuji: Development of custom-made design method of artificial hip joint stem, *Journal of the Japan Society of Precision Engineering.*, 74:313–318, 2008 (in Japanese) .
- 0430B005 (H.Matsuzaki), M.Iwasaki, H.Sato, K.Sato, T.Fujita: A clinical evaluation in 4 different hospitals for the pedicle screw fixation with hydroxyapatite granules (HA stick), *Med. Postgrad.*, 46:209–215, 2008 (in Japanese) .
- 0430B009 (K.Shintani), K.Matsunaga, A.Kaneuji: A study of the insert position of the acetabular shell in total hip arthroplasty. —Effect of elevated or medial hip center on stress distribution in the pelvis—, *Nippon rinsho Japanese Journal of Clinical Biomechanics.*, 29:331–336, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0430I001 T.Fujita, T.Okuda, H.Hosokawa, Y.Yasuda, T.Matsumoto: Postoperative change of the cross-sectional area of the multifidus muscle after percutaneous pedicle screw fixation, *The International Society for the Study of the Lumbar Spine (ISSLS), Spineweek 2008, (Geneva, '08.05).*
- 0430I002 A.Kobe, M.Minamizuka, K.Kuriwa, J.Kiyoi, T.Muratani, M.Oda, M.Yamaguchi, A.Kaneuji, T.Matsumoto: Control in Motor units on gluteus medius muscles of hip osteoarthritic persons with D–T sign during free walking., *10th International Congress of the Asian Confederation for Physical Therapy, (Chiba, '08.08), 10th International Congress of the Asian Confederation for Physical Therapy Program & Abstract, 90, 2008.*
- 0430I003 T.Okuda, T.Fujita, A.Kaneuji, K.Miaki, H.Hosokawa, E.Hatano, Y.Yasuda, T.Matsumoto: Influences of osteoarthritis of the hip joint on the lumbar spine, *The 18th Japanese–Korean Combined Orthopaedic Symposium (JKCOS 2008), (Nagasaki, '08.08).*

0440 Department of Neurosurgery

Faculty

Title	Name	Field of Specialization
	IIZUKA Hideaki	spinal disease, brain tumor, peripheral nerve disease
	TACHIBANA Osamu	brain tumor, hypothalamic and pituitary tumor
	AKAI Takuya	brain tumor, pediatric neurosurgical disease
	TAKADA Hisashi	crebrovascular disease, head injury, interventional neurosurgery
	IIDA Takaaki	spinal disease, peripheral nerve disease
	OKAMOTO Kazuya	brain tumor, stereotactic radiosurgery
	SASAGAWA Yasuo	brain tumor
	SIRAGA Syunsuke	general neurosurgery
	MURASAKA Kenshi	general neurosurgery
	YAMAMOTO Kenji	general neurosurgery
	YAMAMOTO Jiro	general neurosurgery
	TORIGOE Keiichiro	general neurosurgery
	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

Originals

- 0440B001 T.Akai, S.Siraga, Y.Sasagawa, K.Okamoto, O.Tachibana, H.Iizuka: Intra-Parenchymal tumor biopsy using neuroendoscopy with navigation, Minim Invasive Neurosurg, 51:83-86, 2008.

Reviews

- 0440C001 H.Iizuka, T.Iida: Surgical management of non-traumatic atlantoaxial dislocation, Japanese journal of neurosurgery., 17:317-321, 2008 (in Japanese) .

Case Reports

- 0440D001 Y.Sasagawa, T.Akai, T.Sasaki, H.Iizuka: Chiasmal and/or optic-nerve apoplexy due to rupture of vascular malformation — Case Report —, Neurol. Med. Chir. (Tokyo), 48:460-465, 2008.

0450 Department of Plastic and Reconstructive Surgery

Faculty

Title	Name	Field of Specialization
	KAWAKAMI Shigehiko	Plastic and Reconstructive Surgery
	SHIMADA Kenichi	Plastic and Reconstructive Surgery
	KISHIBE Miyuki	Plastic and Reconstructive Surgery
	YAMAMOTO Yasunori	Plastic and Reconstructive Surgery
	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
	NISHIBU Yasuhiro	Plastic and Reconstructive Surgery
	KUROSAWA Tomoko	Plastic and Reconstructive Surgery
	HIMI Yuji	Plastic and Reconstructive Surgery
	SHINOKAWA Yasuo	Plastic and Reconstructive Surgery
	HARASHIMA Youto	Plastic and Reconstructive Surgery
	MORITA Reiji	Plastic and Reconstructive Surgery
	MIYASHITA Matsuki	Plastic and Reconstructive Surgery
	OKAMURA Ai	Plastic and Reconstructive Surgery
	NAKAMURA Namiki	Plastic and Reconstructive Surgery
	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.Satsuki, N.Nakabayashi, S.Kawakami: Characteristics of inpatients with burns at fukui prefectural hospital over 6 years, Japanese journal of burn injuries., 34:23-31, 2008 (in Japanese) .
- 0450B002 T.Miyanaga: Degradation and absorption process of injected hyaluronic acid into subcutaneous tissue, J. Kanazawa. Med. Univ., 33:117-128, 2008 (in Japanese) .

Reviews

- 0450C007 K.Shimada, S.Kawakami: Surgical management for trochanteric and iliac pressure sores, The Japanese journal of plastic & reconstructive surgery., 51:1153-1161, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0450I001 H.Daizo, R.Morita, S.Kawakami: The treatment of orbital medial wall fracture using a navigation system, The 18th Japan-China Joint Meeting on Plastic Surgery, (Xi'an, Shaanxi, China, '08.09).
- 0450I002 R.Sakurai, M.Kishibe, S.Kawakami: Reconstruction of the contracted finger deformity due to a lineal volar scar using subcutaneous pedicle flaps of the remained volar and mid lateral normal, The 18th Japan-China Joint Meeting on Plastic Surgery, (Xi'an, Shaanxi, China, '08.09).
- 0450I003 N.Koizumi, M.Kishibe, S.Kawakami: Proliferative and differentiative effects of bFGF on elastic cartilage, The 18th Japan-China Joint Meeting on Plastic Surgery, (Xi'an, Shaanxi, China, '08.09).
- 0450I004 Y.Yamamoto, S.Kawakami, N.Nakamura: Cowden disease accompanied with unilateral breast hypertrophy, The 18th Japan-China Joint Meeting on Plastic Surgery, (Xi'an, Shaanxi, China, '08.09).
- 0450I005 A.Nishio, S.Kawakami: Primary Repair of Bilateral Cleft Lip using Dehaan's Method, The 18th Japan-China Joint Meeting on Plastic Surgery, (Xi'an, Shaanxi, China, '08.09).

0460 Department of Pediatric Surgery

Faculty

Title	Name	Field of Specialization
	IKAWA Hiromichi	Pediatric surgery, Defecatory function, Liver transplantation
	KONUMA Kunio	Pediatric surgery, Anorectal malformations, Pediatric laryngo tracheo surgery
	KOHNO Miyuki	Pediatric surgery, Pediatric endoscopic surgery, Pediatric urology
	MASUYAMA Hiroaki	Pediatric surgery, Liver transplantation
	FUKUMOTO Hironori	Pediatric surgery
	OGAWA Eri	Pediatric surgery
	OSHIKIRI Takahiro	Pediatric surgery
	TAKAHASHI Sadayoshi	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 K.Konuma, H.Ikawa, M.Kohno, H.Masuyama, H.Fukumoto, E.Ogawa, T.Oshikiri: A psychological background study of patients with encopresis, Japanese journal of pediatric surgery ; Shoni geka., 40:149-158, 2008 (in Japanese) .

Case Reports

- 0460D001 H.Shikata, M.Kohno, M.Kanno, J.Matsubara: A case of endoscopic surgery in an octogenarian for large esophageal hernia oppressing the lung and heart, The Journal of the Japanese Association for Chest Surgery., 22: 649-653, 2008 (in Japanese) .
- 0460D002 M.Kohno, S.Takahashi, T.Oshikiri, E.Ogawa, H.Fukumoto, H.Masuyama, K.Konuma, H.Ikawa: Cystic lymphangioma of the round ligament of the liver in a child, Journal of the Japanese Society of Pediatric Surgery., 44:981-984, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0460I001 M.Kohno, H.Ikawa, K.Konuma, H.Masuyama, H.Fukumoto, E.Ogawa, T.Oshikiri:Laparoscopic retroperitoneal approaches for nephrectomy in children, 11th World Congress of Endoscopic Surgery, (Yokohama, '08.09).
- 0460I002 E.Ogawa, T.Oshikiri, H.Fukumoto, H.Masuyama, K.Konuma, M.Kohno, H.Ikawa:Elective laparoscopic resection for intestinal duplication at the radix mesenterii with repeated perforations in a child, 11th World congress of endoscopic surgery, (Yokohama, '08.09).

0470 Department of Ophthalmology

Faculty

Title	Name	Field of Specialization
(Additional Post)	SASAKI Hiroshi	cataract, epidemiology, uveitis.
	NAKAIZUMI Hiroko	intraocular lens, strabismus amblyopia, blepharospasm, pediatric ophthalmology.
	KITAGAWA Kazuko	ocular infection, Sjogren's syndrome, keratoconjunctivitis sicca, lacrimal fluid, proteomics.
	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology.
	FUKUDA Masamichi	ocular pharmacology, intraocular, penetration.
	NAGAI Kouta	cataract, epidemiology,
	KAWAKAMI Yutaka	cataract, thyroid ocular.
	FUJITA Nobuyuki	uveitis
	HAGIWARA Kenta	ocular infection
	INAGAKI Shinsuke	ocular infection
	NAKANO Tarou	cataract
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 (R.P.Kowalski), E.G.Romanowski, F.S.Mah, H.Sasaki, M.Fukuda, Y.J.Gordpm: A comparison of moxifloxacin and levofloxacin topical prophylaxis in a fluoroquinolone-resistant *staphylococcus aureus* rabbit model, *Jpn. J. Ophthalmol.*, 52:211–216, 2008.
- 0470B002 (A.Hirata), S.Watanabe, M.Taki, O.Fujiwara, M.Kojima, K.Sasaki: Computation of temperature elevation in rabbit eye irradiated by 2.45-GHz microwaves with different field configurations, *Health Phys.*, 92:134–144, 2008.
- 0470B003 (A.Hirata), H.Sugiyama, M.Kojima, H.Kawai, Y.Yamashiro, O.Fujiwara, S.Watanabe, K.Sasaki: Computational model for calculating body-core temperature elevation in rabbits due to whole-body exposure at 2.45 GHz, *Phys. Med. Biol.*, 53:3391–3404, 2008.
- 0470B004 M.Fukuda, H.Sasaki: Calculation of AQCmax: comparison of five ophthalmic fluoroquinolone solution, *Curr. Med. Res. Opin.*, 24:3479–3486, 2008.
- 0470B005 M.Fukuda, J.Takahashi, Y.Nishida, H.Sasaki: Intraocular penetration of astaxanthin in rabbit eyes, *Journal of the eye.*, 25:1461–1464, 2008 (in Japanese) .

Reviews

- 0470C001 (GW.Laurie), LA.Olsakovsky, BP.Conway, RL.Mckown, K.Kitagawa, JJ.Nichols: Dry eye and designer ophthalmics, *Optom. Vis. Sci.*, 85:643–652, 2008.

Others

- 0470F001 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, A.Hirata, Y.Sakamoto, Y.Kawakami, S.Watanabe, K.Wake, M.Taki, Y.Kamimura, H.Sasaki, K.Sasaki: Investigation of wavelength-specific characteristics of quasi- and millimeter-waves, *URSI, KP214:1–4*, 2008.

Presentations at Conference

International Conference (Presentations)

- 0470I001 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, Y.Sakamoto, Y.Kawakami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of millimeter wave exposure through ocular temperature measurement and heat transportation, *Association for Research in vision and Ophthalmology*, (Florida, '08.04).
- 0470I002 H.Sasaki, N.Yamamoto, Y.Takashima, T.Yamaguchi, E.Shibuya, Y.Inomata, Y.Sakamoto, Y.Kawakami, H.Nakaizumi, K.Sasaki: Higher-order aberrations in transparent crystalline lens Japanese eye, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 0470I003 N.Fujita, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, N.Yamamoto, Y.Kawakami, K.Nagai, H.Nakaizumi, K.Sasaki: Comparison of myopia induced by retinoids and nuclear cataract, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 0470I004 M.Fukuda, H.Sasaki, N.Takahashi, M.Yoshikawa, M.Kojima, K.Kitagawa, Y.Sakamoto, K.Sasaki: Development of technique to measure corneal resistance that can be used to evaluate corneal injury, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 0470I005 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Protective effect of topical 5-S-GAD on UV-B-induced cataract in rats, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 0470I006 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.lu, J.Zhang, K.Sasaki: Prevalence of pseudoexfoliation in China, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).

- 0470I007 J.Qu, H.Sasaki, Y.Sakamoto, H.Nakaizumi, Y.Kawakami, K.Nagai, K.Sasaki: Influence of capsular capture of intraocular lens on ocular higher- order wavefront aberration, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0470I008 Y.Yamashiro, R.Honda, M.Kojima, Y.Sakamoto, Y.Kawakami, J.Qu, K.Sasaki, H.Sasaki: Does corneal curvature radius contribute to pathogenesis of pterygium? -A report from chinese ophtalmic surveys in Hainan and Shanxi, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0470I009 Y.Masaki, L.Dong, N.Kurose, K.Kitagawa, Y.Morikawa, M.Yamamoto, H.Takahashi, T.Saeki, A.Azumi, S.Nakada, S.Matsui, T.Origuchi, S.Nishiyama, I.Nishimori, T.Nojima, K.Yamada, M.Kawano, Y.Zen, M.Kaneko, K.Miyazaki, K.Tomoda, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, S.Sugai, H.Umehara: Proposal for A new clinical entity, IGG4-Positive Multi-Organ Lymphoproliferative syndrome : analysis of 64 cases of IGG4-Related disorders., 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0470I010 M.Kojima, T.Sakai, Y.Suzuki, Y.Yamashiro, Y.Sakamoto, Y.Kawanami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of Quasi and millimeter wave exposure through ocular temperature measurement and heat transportation, The Bioelectromagnetics in Society 30th Annual Meeting, (San Diego, '08.06).
- 0470I011 N.Tomosugi, K.Kitagawa, H.Tsuchida, H.Umehara: Identification and quantification of tear proteins in sjogren's, HUPO 2008 'th WORLO CONGRESS, (Amsterdam, '08.08).
- 0470I012 H.Osada, Y.Yamashiro, R.Honda, Y.Sakamoto, K.Nagai, Y.Kawakami, K.Sasaki, H.Sasaki: Posterior capsule opacification in rural areas of China, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0470I013 H.Sasaki: High order aberration of phakic and pseudophakic eyes, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satelite Meeting of the 18th International Cngrence for Eye Research and the 11th Conference of Chinaese Cataract Society Clinical Warkshop, (Xi'an, '08.09).
- 0470I014 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: Effect factors of lens thickness, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th international Conference for Eye Research and the 11th Conference of Chinese Cataract Society Clinical Warkshop, (Xi'an, '08.09).
- 0470I015 K.Nagai, H.Sasaki, R.Honda, M.Kojima, K.Sasaki, F.Jonasson, M.Ono: Lens thickness by three main types of cataract, The 7th Asina Cataract Research Conference in Conjunction with Cataract satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0470I016 M.Fukuda, H.Sasaki: Vitreous and aqueous penetration of orally and topically administered moxifloxacin, International Society of Ocular Toxiology 11th Congress ISOT 2008, (September, '08.09).
- 0470I017 Y.Sakamoto, H.Sasaki, E.Shibuya, N.Yamamoto, Y.Inomata, M.Tarura, K.Sasaki: Visible light abeorption band of spectacle lesn and contrast sensitivity function, The 7th Asian Cataract Research Conference in Conjunction with Cataract Stellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0470I018 (T.Daniels), K.Kitagawa, H.Tsuchida, H.Umehara: -SICCA- International sjogren's syndrome registry : Two Year follow-up analyses and elucidation of fow keratoconjunctivitis sicca subtypes, ACR/ARHP 08, (San Francisco, '08.10).

0480 Department of Otolaryngology

Faculty

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

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
Restration 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 (M.Izumikawa), SA.Batts, T.Miyazawa, DL.Swidorski, Y.Raphael: Response of the flat cochlear epithelium to forced expression of Atoh1, *Hear. Res.*, 240:52-56, 2008.

- 0480B002 J.Yamamoto, Y.Shimode, T.Miyazawa, N.Yang, A.Sakai, K.Yamada, K.Tomoda, H.Takahashi: The pollen count of *cryptomeria japonica* and its relation to the direction of wind in Uchinada(2007), Pollen allergy and prevention., 19:20-27, 2008 (in Japanese) .
- 0480B004 (T.Inoue), M.Nagata, H.Yukawa, M.Ogura, M.Yagi, T.Fujisawa, M.Miyamoto, S.Chikano, H.Takemura, T.Yamashita, H.Tsuji: Pathological study on preoperative concurrent chemoradiation for advanced hypopharyngeal cancer, Head and neck cancer., 34:544-547, 2008 (in Japanese) .
- 0480B005 (T.Wada), Y.Suzuka, J.Inokuchi, S.Ooki, S.Ohyama, Y.Okamoto, S.Sugihara, H.Torii, K.Makishima, K.Murai, H.Zusho, A.Hara, S.Komune, S.Shida: Noise at the work place and noise-induced hearing loss in the Japanese industry, especially in small-sized companied with less than 50 employees, Audiol Jpn, 51:1-7, 2008 (in Japanese) .
- 0480B006 T.Miyazawa, H.Murata, Y.Shimode, Y.Suzuka, K.Tomoda: Timing for emergent air way preservation of acute epiglottitis adults, Journal of Japan Society for Infectious Diseases in Otolaryngology., 26:125-129, 2008 (in Japanese) .

Case Reports

- 0480D001 K.Sato, Y.Shimode, M.Hirokawa, Y.Ueda, S.Katsuda: Thyroid adenomatous nodule with bizarre nuclei: a case report and mutation analysis of the *p53* gene, Pathol. Res. Pract., 204:191-195, 2008.

Others

- 0480F001 Y.Suzuka, M.Higuchi, N.Hatsusaka, H.Kado: Mechanism of illusory motion in the "Rotating Snakes" illusionary image:an MEG study, Proceedings of the 13th International Conference on Biomagnetism, 115-117, 2008.

Presentations at Conference

International Conference (Symposium)

- 0480H001 K.Tomoda, H.Murata, Y.Suzuka, J.Yamamoto: Current status of image-guided surgery in Otorhinolaryngology,Japan, Computer Assisted Radiology and Surgery (CARS) 2008, (Barcelona, '08.06), Int J CARS, 3 (Suppl 1): 84-85, 2008.

International Conference (Presentations)

- 0480I001 K.Tomoda, H.Murata: Current status of image-guided surgery in Otorhinolaryngology, Japan, 27th International Symposium of Infection & Allergy of the Nose (ISHIAN), (Crete, Greece, '08.06).
- 0480I002 Y.Masaki, L.Dong, N.Kurose, K.Kitagawa, Y.Morikawa, M.Yamamoto, H.Takahashi, T.Saeki, A.Azumi, S.Nakada, S.Matsui, T.Origuchi, S.Nishiyama, I.Nishimori, T.Nojima, K.Yamada, M.Kawano, Y.Zen, M.Kaneko, K.Miyazaki, K.Tomoda, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, S.Sugai, H.Umehara: Proposal for A new clinical entity, IGG4-Positive Multi-Organ Lymphoproliferative syndrome : analysis of 64 cases of IGG4-Related disorders., 10th International Conference on Malignant Lymphoma, (Switzerland, '08.06).
- 0480I003 Y.Suzuka: Mechanism of illusory motion in the "Rotating Snakes" illusionary image: an MEG study, The 26th International Conference on Biomagnetism, (Sapporo, '08.08), The 26th International Conference on Biomagnetism proceeding, 26:117, 2008.

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
	MOCHIZUKI Takashi	Medical mycology , Dermatmycosis
	TANABE Hiroshi	Medical mycology, Decubitns
	WATANABE Seiji	Medical mycology
	KAWASAKI Masako	Medical mycology
	ABE Shinya	Skin tumor and growth factores
	FUJII Toshiki	Dermatopathology
	ISHIZAKI Yasuko	Dermatopathology, cutaneous malignant tumor
	TAKEDA Kiminobu	Medical mycology
	TACHIKAWA Nobuyuki	Medical mycology
	WAKAMATSU Nobuhiko	Dermatopathology
	FUJITA Jun	Medical mycology
	HASEI Maki	Skin tumor and growth factores, Medical mycology
	OGAWA Haruko	Dermatopathology
	TERADA Maiko	Dermatopathology

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 M.Kawasaki, K.Anzawa, K.Takeda, H.Tanabe, T.Mochizuki, H.Ishizaki: Genetic and phenotypic variations among F1 progenies of *Arthroderma benhamiae*, Jpn. J. Med. Mycol., 49:103-110, 2008.
- 0490B002 M.Kawasaki, K.Anzawa, A.Wakasa, K.Takeda, H.Tanabe, T.Mochizuki, H.Ishizaki, BM. Hemashettar: Different genes can result in different phylogenetic relationships in *Trichophyton* species, Jpn. J. Med. Mycol., 49:311-318, 2008.
- 0490B003 (H.Shinoda), K.Nishimoto, T.Mochizuki: Screening Examination of *Trichophyton tonsurans* among Judo Practitioners at the All Japan Inter High School Championships, Saga 2007, Jpn. J. Med. Mycol., 49:305-309, 2008 (in Japanese) .

Reviews

- 0490C001 T.Mochizuki: The university network of education and technical support of treatment of fungal diseases for dermatologists, Jpn. J. Med. Mycol., 49:181-185, 2008 (in Japanese) .
- 0490C002 T.Mochizuki: Mycological tests, Nipponrinsho., 66:2319-2325, 2008 (in Japanese) .

Case Reports

- 0490D001 (S.Ohno), H.Tanabe, M.Kawasaki, Y. Horiguchi: Tinea corporis with acute inflammation caused by *Trichophyton tonsurans*, J. Dermatol., 35:590-593, 2008.
- 0490D003 A.Nagaishi, H.Tanabe, M.Ueno, M.Mtsui, M.Matsui: A case of non-alcoholic pellagra following gastrectomy, Clinical Neurology., 48:202-204, 2008 (in Japanese) .
- 0490D004 M.Terada, M.Hasei, S.Watanabe, T.Fujii, H.Tanabe, T.Mochizuki: A case of gefitinib (Iressa®)-induced eruption with acantholysis, Skin research., 7:131-136, 2008 (in Japanese) .
- 0490D007 K.Takeda, T.Ushigami, J.Fujita, H.Tanabe, T.Mochizuki, T.Machi: A case of penis tuberculid with induratio penis plastica, Skin research., 7:676-680, 2008 (in Japanese) .
- 0490D011 (N.Umemoto), T.Demitsu, K.Sasaki, M.Kakurai, M.Hayashi, Y.Wada, M.Moriguchi, Y.Hiratsuka, E.Iida, R.Azuma, M.Kawasaki, T.Mochizuki: Phaeohyphomycosis due to *Exophiala jeanselmei* in immunocompromised hosts - Report of two cases, Jichi Medical School journal., 31:77-83, 2008 (in Japanese) .

Short Communications

- 0490E001 T.Mochizuki, M.Kawasaki, K.Anzawa, J.Fujita, T.Ushigami, K.Takeda, A.Sano, Y.Takahashi, K.Kamei: Epidemiology of sporadic (non-epidemic) cases of *Trichophyton tonsurans* infection in Japan based on PCR-RFLP analysis of non-transcribed spacer region of ribosomal RNA gene, Jpn.J.Infect.Dis., 61:219-222, 2008.

Presentations at Conference

International Conference (Key Note Lecture)

- 0490G001 T.Mochizuki, K.Anzawa: Molecular diagnosis of superficial mycoses, 8th Asian Dermatological Congress, (Seoul, Korea, '08.10).

International Conference (Symposium)

- 0490H001 T.Mochizuki: Molecular epidemiology of cutaneous fungal infection in Japan, 4th Congress of Asia Pacific Society for Medical Mycology, (Seoul, Korea, '08.10).

0500 Department of Urogenital Surgery

Faculty

Title	Name	Field of Specialization
	SUZUKI Koji	kidney stone disease, kidney transplantation, hyperparathyroidism
	TANAKA Tatsuro	kidney transplantation, endourology
	MIYAZAWA Katsuhito	kidney stone disease, endourology, prostate cancer
	KAWAMURA Kenji	kidney stone disease, urogenital cancer
	MORIYAMA Manabu	kidney transplantation, kidney stone disease
	SUGA Koudai	general urology
	CHIKAZAWA Ippei	general urology
	TOKUNAGA Kousuke	general urology
	TACHIBANA Hiromichi	general urology
	ISHII Takeo	general urology
	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

Case Reports

- 0500D001 K.Sato, Y.Ueda, H.Tachibana, K.Miyazawa, I.Chikazawa, S.Kaji, T.Nojima, S.Katsuda: Malignant epithelioid angiomyolipoma of the kidney in a patient with tuberous sclerosis: An autopsy case report with *p53* gene mutation analysis., *Pathol. Res. Pract.*, 204:771-777, 2008.

Presentations at Conference

International Conference (Presentations)

- 0500I001 K.Miyazawa: The role of cyclooxygenase 2 and prostaglandin e2 in the attachment of calcium oxalate crystals to renal epithelial cells, 11th International Symposium on Urolithiasis, (Nice, '08.09).

0500I002 M.Moriyama, K.Suga, K.Miyazawa, T.Tanaka, M.Higashioka, K.Noda, M.Oka, M.Tanaka, K.Suzuki: Effects of an extract of *Quercus salicina* Blume/*Q. stenophylla* Makino on urinary stone formation in a rat calcium oxalate urolithiasis model, 11th International Symposium on Urolithiasis, (Nice, '08.09).

0510 Department of Obstetrics and Gynecology

Faculty

Title	Name	Field of Specialization
	MAKINODA Satoru	reproductive physiology, perinatal medicine, gynecologic oncology, ovulation and cytokines
	FUJII Ryota	perinatal medicine, reproductive endocrinology
	WATANABE Yukio	perinatal medicine, reproductive endocrinology, perinatal diagnosis
	WASADA Tomoo	reproductive medicine, perinatal medicine, gynecologic oncology
	TAKAGI Hiroaki	perinatal medicine, reproductive medicine
	TOMIZAWA Hideki	perinatal medicine, reproductive medicine
	FUJITA Satoko	perinatal medicine, reproductive medicine
	INOUE Hirokazu	perinatal medicine, perinatal diagnosis
	SASAKURA Chihaya	perinatal medicine, perinatal diagnosis
	OKA Yasuko	perinatal medicine, reproductive medicine
	KUWAHARA Takashi	perinatal medicine
	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 S.Makinoda, N.Hirosaki, T.Wasada, H.Tomizawa, R.Fujii: Granulocyte colony-stimulating factor (G-CSF) in the mechanism of human ovulation and its clinical usefulness, *Curr. Med. Chem.*, 15:604-613, 2008.

Case Reports

- 0510D001 J.Moriya, J.Yamakawa, R.Chen, H.Takagi, S.Makinoda, T.Takahashi, T.Kanda: A large ovarian tumor mimicking the accumulation of ascites, *J. Kanazawa. Med. Univ.*, 33:31-32, 2008.

Presentations at Conference

International Conference (Key Note Lecture)

- 0510G001 S.Makinoda, H.Tomizawa, S.Fujita, T.Waseda, R.Fujii, T.Utsunomiya: A new application of granulocyte colony-stimulating factor (G-CSF) in the female reproductive medicine – For prevention of luteinized unruptured follicle (LUF) –, 2nd World Conference on Magic Bullets(EHRLICH II), (Nuremberg, '08.10).

International Conference (Presentations)

- 0510I001 S.Makinoda: Luteinized unruptured follicle (LUF) can be prevented by granulocyte colony-stimulating factor (G-CSF), The 13th World Congress of Gynecological Endocrinology, (Florence, '08.03).
- 0510I002 H.Inoue, S.Makinoda, T.Waseda: Analysis of the hemodynamics of fetal renal artery and fetal renal volume during the normal course of pregnancy, The 18th World Congress of Ultrasound in Obstetrics and Gynecology, (Chicago, '08.08), *Ultrasound in Obstetrics and Gynecology*, 32:357.
- 0510I003 T.Waseda, H.Inoue, S.Makinoda: Myometrial blood flow analysis in pregnant women with IUGR, The 18th World Congress of Ultrasound in Obstetrics and Gynecology, (Chicago, '08.08), *Ultrasound in Obstetrics and Gynecology*, 32:437.
- 0510I004 T.Waseda, H.Inoue, H.Tomizawa, S.Makinoda: Three patients suspected of malignant formation of mature cystic teratoma, 12th Meeting of International Gynecologic Cancer Society, (Bangkok, '08.10).

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
	TSUCHIDA Hideaki	Cardiovascular Effects of Anesthetics, Intravenous Anesthetics
	SEKI Sumihiko	Vascular Reactivity and Cellular calcium dynamics
	SHIRAIISHI Miharuru	Cardiac Anesthesia, Cardiovascular Agents
	KARASAWA Noriyuki	Anaphylaxis
	SHIMO Tomohiro	Anaphylaxis
	NISHIIKE Satoshi	Cardiovascular effects of anesthetics, Volatile anesthetic
	SUGIURA Soichiro	Influence of the endothelium in sepsis, Cardiovascular effects of ultra-short acting β 1-selective blocker
	HORIUCHI Katsura	General anesthesia, Local anesthesia
	KIDA Hiromasa	Anaphylaxis
	YAMAOKA Yuko	General anesthesia, Local anesthesia
	MAGARA Ayuko	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

Case Reports

- 0520D001 S.Nishiike, M.Shiraishi, N.Karasawa, S.Seki, H.Tsuchida: Is pulmonary artery catheter indicated for transsphenoidal resection of hypophyseal tumor in patients with acromegalic heart disease? a case report, The Journal of Japan Society for Clinical Anesthesia., 28:330-333, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0520I001 N.Tomosugi, K.Kitagawa, H.Tsuchida, H.Umehara: Identification and quantification of tear proteins in sjogren's, HUPO 2008 'th WORLO CONGRESS, (Amsterdam, '08.08).

0520I002 (T.Daniels), K.Kitagawa, H.Tsuchida, H.Umehara: -SICCA- International sjogren's syndrome registry : Two Year follow-up analyses and elucidation of fow keratoconjunctivitis sicca subtypes, ACR/ARHP 08, (San Francisco, '08.10).

0530 Department of Oral and Maxillofacial Surgery

Faculty

Title	Name	Field of Specialization
	SEGAMI Natsuki	oral and maxillofacial surgery, temporomandibular joint disorders, oral cancer, orthognathic surgery
	YOSHMURA Hiroshi	temporomandibular joint disorders, stomatology, neuroscience
	DEMURA Noboru	orthodontics, stomatology
	KANEYAMA Keiseki	oral cancer, stomatology, oral and maxillofacial surgery, orthognathic surgery
	TAKAHASHI Motohiro	temporomandibular joint disorders, stomatology
	NAGAO Toshikazu	temporomandibular joint disorders, stomatology
	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 (W.Sun), L.Dong, K.Kaneyama, T.Takegami, N.Segami: Bacterial diversity in synovial fluids of patients with TMD determined by cloning and sequencing analysis of the 16S ribosomal RNA gene, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 105:566-571, 2008.
- 0530B002 H.Yoshimura, M.Honjo, Y.Mashiyama, K.kaneyama, N.Segami, J.Sato, T.Sugai, N.kato, N.Onoda: Multiple tooth-losses during development suppress age-dependent emergence of oscillatory neural activities in the oral somatosensory cortex., *Brain Res.*, 1224:37-42, 2008.

Reviews

- 0530C001 K.Kaneyama, N.Segami, T.Hatta: Congenital deformities and developmental abnormalities of the mandibular condyle in the temporomandibular joint, *Congenit. Anom. (Kyoto)*, 48:118-125, 2008.

Others

- 0530F001 T.Sugai, R.Yamamoto, H.Yoshimura, N.Kato: Functional connections between olfactory and gustatory information via the endopiriform nucleus in the rat., The Japanese journal of taste and smell research., 15:345-346, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0530I001 N.Segami, W.Sun, K.Kaneyama: Bacterial DNA in synovial fluids of patients with TMD., XIXCongress of the European Association for Cranio-Maxillo-Facial Surgery, (Bologna, '08.09).

0550 Department of Emergency Medicine

Faculty

Title	Name	Field of Specialization
	WATOH Yukihiro	Emergency, Emergency medical system, Disaster Medicine,
	MASHIBA Satoru	Emergency, Anaphylaxis
	HAYASHI Nobuyuki	Emergency,
	MORITA Hideki	Emergency,
	GOTO Tetsuro	Emergency,
	FUKUZUMI Mari	Emergency,
	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.

Publications

Others

- 0550F001 K.Nomura, H.Murai, T.Nakahashi, S.Mashiba, Y.Watoh, T.Takahashi, S.Morimoto: Outbreak of norovirus gastroenteritis in elderly evacuees after the 2007 Noto peninsula earthquake in Japan, J. Am. Geriatr. Soc., 56:361-363, 2008.

0560 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology
	NAKAJIMA Hideo	Medical Oncology, Immunology, Molecular Biology
	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics
	NAKAYA Naoki	Medical Oncology

Keywords of Research

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

Outline of Research

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

Publications

Case Reports

- 0560D001 J.Moriya, J.Yamakawa, Y.Motoo: Effect of kampo medicine on the long-term administration of NSAIDs in three cases of gonarthrosis, Pain and kampo medicine., 18:82-87, 2008 (in Japanese) .

Presentations at Conference

International Conference (Symposium)

- 0560H001 Y.Motoo: Intergration of herbal medicine into multidisciplinary treatment and holistic care of cancer patients, 2008 Internationaional Symposium of East-West Medicine for Cancer Treatment, (Seoul, '08.10).
- 0560H002 Y.Motoo: Current status of Kampo (Japanese herbal) medicine, 1st Asia Pacific Traditional and Complementary Medicine Conference 2008, (Kuala Lumpur, Malaysia, '08.11).

International Conference (Presentations)

- 0560I001 Y.Motoo: Gene expression analysis in gemcitabine-treated human pancreatic cancer cells; GSK-3beta as a new therapeutic target, BIT's Annual WORLD Cancer CONGRESS-2008, (Shanghai, China, '08.02).
- 0560I002 (Mai W), A.Shakoori, K.Miyashita, Zhang B, Y.Motoo, K.Kawakami, Y.Takahashi, T.Minamoto: Detection of active fraction of GSK3beta in cancer cells by non-radioisotopic in vitro kinase assay, AACR Annual Meeting 2008, (San Diego, CA, USA, '08.04).

0570 District medical

Faculty

Title	Name	Field of Specialization
	KANDA Tsugiyasu	Cardiovascular distase, Diabetes Mellitus, Mental distase.
	SO Shihei	Cardiovascular distase , Diabetes Mellitus , Mental distase

Keywords of Research

cytokine, myocarditis, atherosclerosis, chronic fatigue syndrome, immunotherapy

Outline of Research

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

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

Publications

Originals

- 0570B001 R.Chen, J.Moriya, J.Yamakawa, T.Takahashi, Q.Li, S.Morimoto, K.Iwai, H.Sumino, N.Yamaguchi, T.Kanda: Brain atrophy in a murine model of chronic fatigue syndrome and beneficial effect of hochu-ekki-to(TJ-41), *Neurochem. Res.*, 33:1759-1767, 2008.
- 0570B002 Z-P.Zong, S.Matsui, J-F.Han, S.Katsuda, ML.Fu: Involvement of thymus in amiodarone-treated autoimmune myocarditis in rats, *Int. J. Cardiol.*, 125:122-129, 2008.
- 0570B003 (J-l.Wu), S.Matsui, Z-P.Zong, K.Nishikawa, B-G.Sun, S.Katsuda, M.Fu: Amelioration of myocarditis by statin through inhibiting cross-talk between antigen presenting cells and lymphocytes in rats, *J. Mol. Cell. Cardiol.*, 44:1023-1031, 2008.
- 0570B004 F.Yu, R.Chen, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Candesartan improves myocardial damage in obese mice with viral myocarditis and induces cardiac adiponectin, *Int. J. Cardiol.*, 129:414-421, 2008.
- 0570B005 K.Iwai, T.Takahashi, T.Nakahashi, K.Nomura, M.Atsumi, L.Zeng, K.Ishigami, T.Kanda, N.Yamaguchi, S.Morimoto: Immobilization stress inhibits intimal fibromuscular proliferation in the process of arterial remodeling in rats, *Hypertens. Res.*, 31:977-986, 2008.

Reviews

- 0570C001 R.Chen, F.Liang, J.Moriya, J.Yamakawa, T.Takahashi, L.Shen, T.Kanda: Peroxisome proliferator-activated receptors(ppars) and their agonists for hypertension and heart failure: are the reagents beneficial or harmful?, *Int. J. Cardiol.*, 130:131-139, 2008.
- 0570C002 Q.Li, R.Chen, J.Moriya, J.Yamakawa, H.Sumino, T.Kanda, T.Takahashi: A novel adipocytokine, visceral adipose tissue-derived serine protease inhibitor(vaspin),and obesity, *J. Int. Med. Res.*, 36:625-629, 2008.
- 0570C003 R.Chen, FX.Liang, J.Moriya, J.Yamakawa, H.Sumino, T.Kanda, T.Takahashi: Chronic fatigue syndrome and the central nervous system, *J. Int. Med. Res.*, 36:867-874, 2008.

Case Reports

- 0570D001 J.Moriya, J.Yamakawa, R.Chen, H.Takagi, S.Makinoda, T.Takahashi, T.Kanda: A large ovarian tumor mimicking the accumulation of ascites, J. Kanazawa. Med. Univ., 33:31-32, 2008.

Presentations at Conference

International Conference (Presentations)

- 0570I001 T.Ota, M.Maeda, Z.-P.Zong, M.Murakami, T.Takegami, M.Tatsuka: Phosphorylation and localization of FAK in v-Src transformed fibroblast cells after anoikis induction., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).
- 0570I002 Z.-P.Zong, M.Maeda, M.Murakami, T.Takegami, M.Tatsuka, T.Ota: Effects of oral administration of lapachol on experimental metastasis of B16 melanoma cells in mice., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).
- 0570I003 T.Kanda, K.Kusaka, T.Takahashi, J.Moriya, J.Yamakawa, R.Chen, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai: Candesartan regulates polarization of Th1 and Th2 cytokines in lymphoid organs of obese mice with acute myocarditis, Basic Cardiovascular Sciences Conference 2008, (Colorado, '08.07).

0610 Health Management Center

Faculty

Title	Name	Field of Specialization
	TAKASE Shujiro	Gastroenterology
	MATSUDA Yoshiro	Glossary of Gastroenterology, Hepatology
(Additional Post)	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
(Additional Post)	YASUDA Yukio	evidence-based health care
(Additional Post)	YAMADA Yuichi	Occupational health, Epidemiology for cardiovascular and pulmonary diseases
(Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
(Additional Post)	ISHIZAKI Masao	Occupational health, Epidemiology for cardiovascular disease
(Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
	NAKANISHI Yumiko	Preventive medicine
	NAKAMURA Koshi	Epidemiology of Cardiovascular disease and Lifestyle-related disease Lifestyle/Disease and Medical expenditure
	KUGINUKI Yasuaki	hemodynamics
	KUSAKA Kazuya	Radiology
	OTA Kiyotaka	Radiology

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 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Serial changes in urinary cadmium concentrations and degree of renal tubular injury after soil replacement in cadmium-polluted rice paddies, *Toxicol. Lett.*, 176:124-130, 2008.
- 0610B002 (Y.Kamon), T.Okamura, T.Tanaka, A.Hozawa, Z.Yamagata, T.Takebayashi, Y.Kusaka, S.Urano, H.Nakagawa, T.Kadowaki, Y.Miyoshi, H.Yamato, A.Okayama, H.Ueshima, HIPOP-OHP Research Group: Marital Status and Cardiovascular Risk Factors among Middleaged Japanese Male Workers: The High-risk and Population Strategy for Occupational Health Promotion (HIPOP-OHP) Study, *J. Occup. Health*, 50:348-356, 2008.
- 0610B003 K.Miura, A.Matsumori, A.Nasermoaddeli, Y.Soyama, Y.Morikawa, M.Sakurai, A.Kitabatake, M.Nagai, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with idiopathic dilated cardiomyopathy in Japan—results from a nationwide study—, *Circ. J.*, 72:343-348, 2008.

- 0610B004 (Y.Hayashino), S.Fukuhara, T.Okamura, H.Yamato, H.Tanaka, T.Tanaka, T.Kadowaki, H.Ueshima, HIPOP-OHP Research Group, H.Nakagawa, K.Miura: A prospective study of passive smoking and risk of diabetes in a cohort of workers:the high-risk and population strategy for occupational health promotion (HIPOP-OHP) study, *Diabetes Care.*, 31:732-734, 2008.
- 0610B005 (M.Naito), T.Nakayama, T.Okamura, K.Miura, M.Yanagita, Y.Fujieda, F.Kinoshita, Y.Naito, H.Nakagawa, T.Tanaka, H.Ueshima, HIPOP-OHP Research Group: Effect of a 4-year workplace-based physical activity intervention program on the blood lipid profiles of participating employees:the high-risk and population strategy for occupational health promotion(HIPOP-OHP) study, *Atherosclerosis*, 197:784-790, 2008.
- 0610B006 (E.Kobayashi), Y.Suwazono, M.Dochi, R.Honda, M.Nishiho, T.Kido, H.Nakagawa: Estimation of benchmark doses as threshold levels of urinary cadmium, based on excretion of β_2 -microglobulin in cadmium-polluted and non-polluted regions in Japan, *Toxicology Lett.*, 179:108-112, 2008.
- 0610B007 Y.Morikawa, K.Miura, S.Sasaki, K.Yoshita, S.Yoneyama, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, M.Higashiyama, H.Nakagawa: Evaluation of the effects of shift work on nutrient intake:a cross-sectional study, *J. Occup. Health*, 50:270-278, 2008.
- 0610B008 (P.Elliott), H.Kesteloot, L.J.Appel, A.R.Dyer, H.Ueshima, Q.Chan, I.J.Brown, L.Zhao, J.Stamler, INTERMAP Cooperative Research Group, H.Nakagawa, K.Miura: Dietary phosphorus and blood pressure:international study of macro-and micro-nutrients and blood pressure, *Hypertension*, 51:669-675, 2008.
- 0610B009 (Y.Murakami), A.Hozawa, T.Okamura, H.Ueshima, Evidence for Cardiovascular Prevention From Observational Cohorts in Japan Reserch Group (EPOCH-JAPAN), H.Nakagawa, K.Miura: Relation of blood pressure and all-cause mortality in 180 000 Japanese participants:pooled analysis of 13 cohort studies, *Hypertension*, 51:1483-1491, 2008.
- 0610B010 K.Sunaga, K.Miura, Y.Naruse, M.Sakurai, Y.Morikawa, Y.Kurosawa, H.Nakagawa: Glycated hemoglobin and risk of stroke, ischemic and hemorrhagic, in Japanese men and women, *Cerebrovasc. Dis.*, 26:310-316, 2008.
- 0610B011 K.Miura, J.Stamler, H.Nakagawa, P.Elliott, H.Ueshima, Q.Chan, I.J.Brown, I.Tzoulaki, S.Saitoh, A.R.Dyer, M.L.Daviglus, H.Kesteloot, A.Okayama, J.D.Curb, B.L.Rodriguez, P.J.Elmer, L.M.Steffen, C.Robertson, L.Zhao, International Study of Macro-Micronutrients and Blood Pressure Reserch Group: Relationship of dietary linoleic acid to blood pressure:the international study of macro-micronutrients and blood pressure study, *Hypertension*, 52:408-414, 2008.
- 0610B012 S.Yoneyama, K.Miura, K.Itai, K.Yoshita, H.Nakagawa, T.Shimmura, A.Okayama, K.Sakata, S.Saitoh, H.Ueshima, P.Elliott, J.Stamler, INTERMAP Research Group: Dietary intake and urinary excretion of selenium in the Japanese adult population: the INTERMAP Study Japan, *Eur. J. Clin. Nutr.*, 62:1187-1193, 2008.
- 0610B013 (Japan Arteriosclerosis Longitudinal Study(JALS) Group), H.Nakagawa: Japan arteriosclerosis longitudinal study-existing cohorts combine(JALS-ECC)-rationale, design, and population characteristics-, *Circ. J.*, 72:1563-1568, 2008.
- 0610B014 (T.Ninomiya), Y.Kiyohara, Y.Tokuda, Y.Do, H.Arima, A.Harada, Y.Ohashi, H.Ueshima, Japan Arteriosclerosis Longitudinal Study Group, H.Nakagawa, K.Miura, Y.Morikawa, M.Ishizaki: Impact of kidney disease and blood pressure on the development of cardiovascular disease: an overview from the Japan Arteriosclerosis Longitudinal Study., *Circulation*, 118:2694-2701, 2008.
- 0610B015 M.Ishizaki, H.Nakagawa, Y.Morikawa, R.Honda, Y.Yamada, N.Kawakami, The Japan Work Stress and Health Cohort Study Group: Influence of job strain on changes in body mass index and waist circumference-6-year longitudinal study, *Scand. J. Work Environ. Health*, 34:288-296, 2008.
- 0610B016 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.
- 0610B017 (H.Ueda), A.Higashiyama, A.Okayama, T.Okamura, N.Okuda, K.Yoshita, S.Saitoh, K.Sakata, S.R.Choudhury, T.Kadowaki, Y.Kita, K.Miura, H.Nakagawa, M.Watanabe, H.Ueshima, INTERMAP Japan Research Group: Obesity and percentage energy from fat: the INTERMAP study of middle-age Japanese men, *Japanese journal of cardiovascular disease prevention.*, 43:123-131, 2008 (in Japanese) .

- 0610B018 (M.Nozue), N.Sarukura, M.Nishijo, H.Fujii, Y.Arai, A.Ishiwaki, N.Yoshiike, H.Nakagawa, K.Yoshita: A study on seasonal variations in nutrients and food groups and the relation between vegetable consumption and nutrients/food groups in a rural area of Toyama, Hokuriku Japanese Journal of Public Health., 34:58-64, 2008 (in Japanese) .
- 0610B019 M.Nakashima, K.Miura, Y.Morikawa, M.Nishijo, Y.Nakanishi, M.Sakurai, H.Nakagawa: Effect of smoke-free medical school on smoking behavior of medical students, Japanese Journal of Public Health., 55:647-654, 2008 (in Japanese) .

Short Communications

- 0610E001 M.Nishijo, S.Maruzeni, K.Tawara, T.Kido, Nhu.DD, Naganuma.R, H.Suzuki, Hung.TM, Dung.PT, Thom.LH, H.Nakagawa: Porychlorinated-dibenzo-p-dioxins/Furans and pregnancy outcome among vietnamese women living in a herbicide sprayed area, Organohalogen Compounds., 70:1882-1885, 2008.
- 0610E002 (T.Kido), R.Naganuma, H.Suzuki, Nhu.DD, K.Saito, M.Nishijo, H.Nakagawa, K.Tawara, Hung.NN, Thom.LH, Dung.PT: The relationship between visual acuity and dioxin levels of breast milk in the herbicide sprayed and non-sprayed areas in vietnam, Organohalogen Compounds., 70:550-553, 2008.

Others

- 0610F001 M.Sakurai, T.Takamura, K.Miura, S.Kaneko, H.Nakagawa: BMI may be better than waist circumference for defining metabolic syndrome in Japanese women, Diabetes Care., 31:e12, 2008.
- 0610F002 M.Yamada, H.Kawahara, H.Shiroeda, M.Tsuchishima, Y.Masaki, K.Sato, S.Takase: Successful rituximab monotherapy for API2-MALT1 fusion positive primary mucosa-associated lymphoid tissue lymphoma of the transverse colon in a patient with liver cirrhosis, Scand. J. Gastroenterol., 43:761-764, 2008.
- 0610F003 (T.Kido), S.Maruzeni, H.suzuki, Y.Odamae, M.Marunaka, 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 war ahent orange/dioxinn on human health in fietnam, 平成 17 年度~平成 19 年度科学研究費補助金(基盤研究(B)) 研究成果報告書(研究代表者 城戸照彦), 1-37, 2008.
- 0610F010 (C.Aoki), M.Higashiyama, Y.Nakashima, H.Takayosi, C.Okamoto, E.Nagayama, C.Kobayashi, T.Kido, K.Miura, Y.Morikawa, M.Sakurai, K.Nakamura, H.Nakagawa, M.Ishizaki, Y.Naruse: Smoking cessation rate and its related factors on a smoking cessation support program in a workplace, Hokuriku Japanese Journal of Public Health., 35:36-38, 2008 (in Japanese) .
- 0610F011 (C.Okamoto), M.Higashiyama, E.Nagayama, C.Aoki, H.Takayoshi, Y.Nakashima, C.Kobayashi, K.Miura, M.Sakurai, K.Nakamura, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Effects of educational program under a tutorial or a small-group system on body weight loss for obese participants in a workplace, Hokuriku Japanese Journal of Public Health., 35:39-41, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0610I001 M.Sakurai, K.Miura, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of long-term body weight change to HDL particle size change in Japanese men and women:The INTERMAP Toyama study. Joint conference, 49th Cardiovascular Disease Epidemiology and Prevention -and- Nutrition, (Colorado, '08.03), Physical Activity and Metabolism, 103, 2008.
- 0610I002 K.Miura, M.Sakurai, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of 9-year body weight change to change in LDL particle size in Japanese men and women:The INTERMAP Toyama study, Joint Conference -49th Cardiovascular Disease Epidemiology and `revention -and- Nurtrition, (Colorado, '08.03), Physical Activity and Metabolism, 103, 2008.

- 0610I003 T.Kanda, K.Kusaka, T.Takahashi, J.Moriya, J.Yamakawa, R.Chen, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai: Candesartan regulates polarization of Th1 and Th2 cytokines in lymphoid organs of obese mice with acute myocarditis, Basic Cardiovascular Sciences Conference 2008, (Colorado, '08.07).
- 0610I004 M.Nishijo, S.Maruzeni, K.Tawara, T.Kido, N.DD, R.Naganuma, H.Suzuki, H.TM, D.PT, T.LTHN, H.Nakagawa: Porychlornated-dibenzo-p-dioxins/furans and pregnancy outcome among vietnamesewomen living in a herbicide sprayed area, 28th International Symposium on Halogenated Persistent Organic Pollutans (POPs), (Birmingham, '08.08), LOOKING TO THE FUTURE DEVELOPING THE NEXT GENERATION, 1882-1884, 2008.
- 0610I005 (H.Horikawa), H.Suzuki, R.Naganuma, K.Tawara, M.Nishijo, H.Nakagawa, H.NN, T.LTH, D.PT, N.DD, V.PT, B.NT, W.T, T.Kido, Y.Sato: Relation between dioxins levels in human breast milk samples and SCE values among lactating females in a defoliant-sprayed area in Vietnam, 28th International Symposium on Halogenated Persistent Organic Pollutans (POPs), (Birmingham, '08.08), LOOKING TO THE FUTURE:DEVELOPING THE NEXT GENERATION, 646-648, 2008.
- 0610I006 (T.Kido), R.Naganuma, H.Suzuki, D.D.N, K.Sato, M.Nishijo, H.Nakagawa, K.Tawara, N.N.H, L.H.T, P.T.D.PT: The relationship between visual acuity and dioxin levels of breast milk in the herbicide sprayed and non-sprayed areas in Vietnam, 28th International Symposium on Halogenated Persistent Organic Pollutans (POPs), (BIRMINGHAM, '08.08), LOOKING TO THE FUTURE:DEVELOPING THE NEXT GENERATION, 550-552, 2008.
- 0610I007 Y.Morikawa, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, H.Nakagawa, Y.Naruse, M.Higashiyama: Drinking habit among shift workers and its health effects, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 0610I008 K.Kitaoka, Y.Morikawa, S.Matsuda, K.Ogino, K.Miura, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Burnout and riskfactors for arteriosclerotic disease: follow-up study, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 0610I009 Y.Kuginuki, H.Tonami: Computational flow dynamics in abdominal aortic aneurysm using multislice CT, RSNA 94th Scientific assembly and annual meeting, (Chicago, '08.11).

0620 Department of Pathology

Faculty

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

Originals

- 0620B001 (T.Yamaguchi), A.Kawahara, H.Minato, S.Ota, K.Fujiyoshi, K.Ushijima, T.Kamura, M.Kage: Cytological study of neuroendocrine tumors of the uterine cervix—Differential diagnosis from cervical squamous cell carcinoma and adenocarcinoma—, *J. Jpn. Soc. Clin. Cytol.*, 47:86–94, 2008 (in Japanese) .
- 0620B002 (J.Shimizu), M.Oda, I.Matsumoto, Y.Arano, N.Ishikawa, K.Saitoh, H.Minato: Clinicopathologic study of surgically treated cases of tracheobronchial adenoid cystic carcinoma, *Proceedings of the Japanese Lung Cancer Society Lung cancer.*, 48:261–265, 2008 (in Japanese) .

Case Reports

- 0620D001 K.Sato, M.Nakano, T.Terauchi, M.Takenaka, Y.Asakura, S.Kaji, T.Noijima, Y.Ueda: A case of large cell lung carcinoma with rhabdoid phenotype, *J. Jpn. Soc. Clin. Cytol.*, 47:64–68, 2008 (in Japanese) .
- 0620D003 K.Sato, T.Terauchi, Y.Asakura, M.Takenaka, M.Nakano, N.Kurose, Y.Ueda, M.Hirokawa: A case of thyroid oxyphilic follicular carcinoma with distinct trabecular growth pattern, *J. Jpn. Soc. Clin. Cytol.*, 47:200–204, 2008 (in Japanese) .
- 0620D004 M.Takenaka, K.Sato, T.Terauchi, M.Yamashita, Y.Asakura, M.Nakano, N.Kurose, T.Noijima: A case of diffuse large B-cell lymphoma hardly differentiating from high-grade urothelial carcinoma in cytology, *J. Jpn. Soc. Clin. Cytol.*, 47:296–300, 2008 (in Japanese) .

0630 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
	YAMAKAWA Junichi	General medicine,Kampo medicine
(Additional Post)	KUSAKA Kazuya	Diagnosis for esophagus,gastro-intestine,colon,liver & bileduct disease.Endoscopical treatment of its disease,especially,superficial type esophageal cancer, earygastric cancer, eary colon cancer
	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 R.Chen, J.Moriya, J.Yamakawa, T.Takahashi, Q.Li, S.Morimoto, K.Iwai, H.Sumino, N.Yamaguchi, T.Kanda: Brain atrophy in a murine model of chronic fatigue syndrome and beneficial effect of hochu-ekki-to(TJ-41), *Neurochem. Res.*, 33:1759-1767, 2008.
- 0630B002 J.Yamakawa, Y.Ishigaki, F.Takano, T.Takahashi, J.Yoshida, J.Moriya, T.Takata, T.Tatsuno, K.Sasaki, T.Ohta, T.Takegami, F.Yoshizaki: The kampo medicines orenge dokuto, bofutsushosan and boiogito have different activities to regulate gene expressions in differentiated rat white adipocytes: comprehensive analysis of genetic profiles, *Biol.Pharm.Bull.*, 31:2083-2089, 2008.
- 0630B003 F.Yu, R.Chen, T.Takahashi, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai, M.Matsumoto, T.Kanda: Candesartan improves myocardial damage in obese mice with viral myocarditis and induces cardiac adiponectin, *Int. J. Cardiol.*, 129:414-421, 2008.
- 0630B004 K.Iwai, T.Takahashi, T.Nakahashi, K.Nomura, M.Atsumi, L.Zeng, K.Ishigami, T.Kanda, N.Yamaguchi, S.Morimoto: Immobilization stress inhibits intimal fibromuscular proliferation in the process of arterial remodeling in rats, *Hypertens. Res.*, 31:977-986, 2008.

Reviews

- 0630C001 R.Chen, F.Liang, J.Moriya, J.Yamakawa, T.Takahashi, L.Shen, T.Kanda: Peroxisome proliferator-activated receptors(ppars) and their agonists for hypertension and heart failure: are the reagents beneficial or harmful?, *Int. J. Cardiol.*, 130:131-139, 2008.
- 0630C002 Q.Li, R.Chen, J.Moriya, J.Yamakawa, H.Sumino, T.Kanda, T.Takahashi: A novel adipocytokine, visceral adipose tissue-derived serine protease inhibitor(vaspin),and obesity, *J. Int. Med. Res.*, 36:625-629, 2008.

- 0630C003 R.Chen, FX.Liang, J.Moriya, J.Yamakawa, H.Sumino, T.Kanda, T.Takahashi: Chronic fatigue syndrome and the central nervous system, *J. Int. Med. Res.*, 36:867–874, 2008.

Case Reports

- 0630D001 J.Moriya, J.Yamakawa, R.Chen, H.Takagi, S.Makinoda, T.Takahashi, T.Kanda: A large ovarian tumor mimicking the accumulation of ascites, *J. Kanazawa. Med. Univ.*, 33:31–32, 2008.
- 0630D002 J.Moriya, J.Yamakawa, Y.Motoo: Effect of kampo medicine on the long-term administration of NSAIDs in three cases of gonarthrosis, *Pain and kampo medicine.*, 18:82–87, 2008 (in Japanese) .

Others

- 0630F001 K.Nomura, H.Murai, T.Nakahashi, S.Mashiba, Y.Watoh, T.Takahashi, S.Morimoto: Outbreak of norovirus gastroenteritis in elderly evacuees after the 2007 Noto peninsula earthquake in Japan, *J. Am. Geriatr. Soc.*, 56:361–363, 2008.
- 0630F002 T.Takahashi, K.Nomura, H.Honda, T.Nakahashi, K.Iwai, M.Atsumi, K.Ishigami, T.Inamatsu, S.Morimoto: Association between seroprevalence of human metapneumovirus and c-reactive protein level and apolipoprotein ϵ -4 allele in elderly inpatients in Japan, *J. Am. Geriatr. Soc.*, 56:1758–1760, 2008.

Presentations at Conference

International Conference (Presentations)

- 0630I001 T.Kanda, K.Kusaka, T.Takahashi, J.Moriya, J.Yamakawa, R.Chen, H.Sumino, S.Morimoto, T.Nakahashi, K.Iwai: Candesartan regulates polarization of Th1 and Th2 cytokines in lymphoid organs of obese mice with acute myocarditis, *Basic Cardiovascular Sciences Conference 2008*, (Colorado, '08.07).

0640 Endoscopy Center

Faculty

Title	Name	Field of Specialization
	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, lansoplazole metabolism, helicobacter pylori, eradication therapy of helicobacter pylori, early gastric cancer, endoscopic mucosal resection, endoscopic submucosal dissection, endoscopic ultrasound, marking rivet, early colon cancer, apoptosis, vascular endothelial growth factor, ulcerative colitis, Crohn disease

Outline of Research

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

Publications

Others

- 0640F001 M.Yamada, H.Kawahara, H.Shiroeda, M.Tsuchishima, Y.Masaki, K.Sato, S.Takase: Successful rituximab monotherapy for API2-MALT1 fusion positive primary mucosa-associated lymphoid tissue lymphoma of the transverse colon in a patient with liver cirrhosis, Scand. J. Gastroenterol., 43:761-764, 2008.

0650 Department of Rehabilitation Medicine

Faculty

Title	Name	Field of Specialization
	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.
	SUGIMOTO Atsuo	Rehabilitation science/welfare engineering
(Additional Post)	NAKATA Minori	Treatment and rehabilitation of musculoskeletal disorders, caused by work-related, whiplash-injury-associated, and other origins

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0650B002 M.Tsubokawa, K.Kyoda, T.Ito, K.Yabukoshi, H.Kawasaki, M.Yamaguchi: Ingestion and swallowing abilities of elderly patients over the age of 75 years with pneumonia, J. Kanazawa. Med. Univ., 33:69-75, 2008 (in Japanese).
- 0650B007 (H.Kawasaki), C.Motomura, R.Yamada, S.Fujita, E.Iida, M.Tsubokawa, M.Yamaguchi: Effectiveness of alternate swallowing of jelly food for removing residual food on the pharynx in dysphagia patients, The Japanese journal of dysphagia rehabilitation., 12:223-232, 2008 (in Japanese).

Presentations at Conference

International Conference (Presentations)

- 0650I001 A.Kobe, M.Minamizuka, K.Kuriwa, J.Kiyoi, T.Muratani, M.Oda, M.Yamaguchi, A.Kaneuji, T.Matsumoto: Control in Motor units on gluteus medius muscles of hip osteoarthritic persons with D-T sign during free walking., 10th International Congress of the Asian Confederation for Physical Therapy, (Chiba, '08.08), 10th International Congress of the Asian Confederation for Physical Therapy Program & Abstract, 90, 2008.

0660 Department of Respirology (Thoracic Surgery)

Faculty

Title	Name	Field of Specialization
	SAKUMA Tsutomu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery, pulmonary edema.
	SAGAWA Motoyasu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery, epidemiology of mass screening.
	USUDA Katsuo	thoracic surgery, video assisted thoracoscopic surgery, lung cancer, mediastinal tumor, early lung cancer, interventional bronchology, clinical cytology,
	AIKAWA Hirokazu	thoracic surgery, lung cancer, video assisted thoracoscopic surgery.
(Additional Post)	KANNO Masaaki	Thoracic surgery
	MACHIDA Yuichiro	thoracic surgery, lung cancer, pulmonary circulation

Keywords of Research

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

Outline of Research

Lung tumor

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

Mediastinal and pleural tumors

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

Lung injury

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

New instruments

1. Bronchoscopy
2. Thoracoscopy

Publications

Originals

- 0660B001 G.Ma, X.Zhao, M.Ueno, M.Tanaka, Y.Machida, H.Aikawa, K.Usuda, M.Sagawa, Y.Ueda, T.Sakuma: Increased reabsorption of alveolar edema fluid in the obese zucker rat, *Tohoku J. Exp. Med.*, 216:223-230, 2008.
- 0660B002 M.Sagawa, K.Usuda, K.Tsuchihara, H.Aikawa, Y.Machida, M.Tanaka, M.Ueno, K.Nakagawa, T.Sakuma: Comparison of the images of virtual bronchoscopy under the different conditions, *The Japanese journal of thoracic surgery.*, 61:102-108, 2008 (in Japanese) .
- 0660B003 H.Aikawa, M.Sagawa, M.Tanaka, Y.Machida, M.Ueno, K.Usuda, T.Tobe, H.Toga, T.Sakuma: Endobronchial treatment using spiral-z stent and electrocauterization, *J. Kanazawa. Med. Univ.*, 33:141-144, 2008 (in Japanese) .

Reviews

- 0660C001 H.Aikawa, M.Sagawa, K.Usuda, M.Ueno, M.Tanaka, Y.Machida, T.Sakuma: Multidisciplinary treatment of lung cancer in 21st century, *The Japanese journal of thoracic surgery.*, 61:51-54, 2008 (in Japanese) .
- 0660C003 Y.Ueda, M.Shimasaki, K.Higashi, G.Guo, K.Sato, M.Sagawa, T.Sakuma, S.Katsuda: Recent advance in the pathology of lung cancer, *J. Kanazawa. Med. Univ.*, 33:21-30, 2008 (in Japanese) .

Case Reports

- 0660D001 K.Usuda, M.Sagawa, H.Aikawa, M.Tanaka, Y.Machida, M.Ueno, T.Sakuma: Virtual bronchoscopic navigation is useful in the diagnosis of synchronous pulmonary squamous cell carcinomas, *J. Bronchol.*, 15:104-106, 2008.
- 0660D002 X.Zhao, M.Tanaka, M.Ueno, Y.Machida, H.Aikawa, K.Usuda, M.Sagawa, Y.Ueda, T.Sakuma: Mediastinal parathyroid cyst dissected under video-assisted thoracoscopic surgery: Report of a case, *J. Kanazawa. Med. Univ.*, 33:153-155, 2008.
- 0660D003 M.Sagawa, H.Aikawa, K.Usuda, Y.Machida, M.Tanaka, M.Ueno, Y.Ueda, T.Sakuma: Extended sleeve pulmonary resection in patient with synchronous triple bronchogenic squamous cell carcinoma, *Lung Cancer*, 59:262-265, 2008.
- 0660D004 Y.Machida, M.Tanaka, H.Aikawa, K.Usuda, M.Sagawa, T.Sakuma: Sclerosing hemangioma of lung with FDG and ²⁰¹Tl uptake: Report of a case, *日呼外会誌*, 22:71-74, 2008 (in Japanese) .

0670 Lifestyle-related Diseases Center

Faculty

Title	Name	Field of Specialization
(Additional Post)	MATSUI Shinobu	cardiac function, echocardiography, myocardial metabolism
(Additional Post)	KIGOSHI Toshikazu	intracellular signaling of hormones, aldosterone secretion
(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.
(Additional Post)	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
(Additional Post)	NAKANISHI Yumiko	Preventive medicine.
	KUDOH AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology.
	KITADA Munehiro	diabetes, hypertension.
	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

Originals

- 0670B001 K.Takeda, S.Akazawa, Y.Kawai, K.Kajinami: Regulation of positive feedback loop of HB-EGF signal by gene 33/ralt in H9c2 cells, J. Kanazawa. Med. Univ., 33:76-85, 2008.
- 0670B002 S.Abe, S.Ohta, K.Uchida: The effect of diastolic dysfunction and hypertension in diabetes mellitus—Examination of left ventricular diastolic dysfunction using the valsalva maneuver—, Journal of the Japan Diabetes Society., 51:213-218, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0670I001 (H.Akazawa), N.Ysuda, S.Miura, T.Tanaka, Y.Qin, S.Kudoh akazawa, I.Komuro: Conformational switch of angiotensin II type 1 receptor underlying mechanical stress-induced activation, KEYSTONE G Protein-Coupled Receptors, (London, '08.05).

0680 Medical Genetic Center

Faculty

Title	Name	Field of Specialization
(Additional Post)	KAKINUMA Hiroaki	child neurology, inborn errors of metabolism, congenital malformation, medical genetics
(Additional Post)	ITO Masatsune	child endocrinology
(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.

Publications

Short Communications

- 0680E001 H.Kakinuma, M.Ozaki, H.Sato, H.Takahashi: Variation in GABA-A subunit gene copy number in an autistic patient with mosaic 4 p duplication (p12p16), Am. J. Med. Genet. B Neuropsychiatr. Genet., 147B:973-975, 2008.

Presentations at Conference

International Conference (Presentations)

- 0680I001 M.Ito, H.Kakinuma: Functional studies of a duplication mutation of valine at 235 by a transient expression assay in a boy with mct8 deficiency, SSIEM 2008, (Lisboa, '08.09), JIMD, 31 Suppl 1:139, 2008.

0690 Department of Endoscopy

Faculty

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

Keywords of Research

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

Outline of Research

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

0700 Multidisciplinary Cancer Center

Faculty

Title	Name	Field of Specialization
	MOTOO Yoshiharu	Medical Oncology
	NAKAJIMA Hideo	Medical Oncology
	SHIMASAKI Takeo	Medical Oncology
	NAKAYA Naoki	Medical Oncology
(Additional Post)	TSUJI Hiroyuki	Head & Neck Surgery

Outline of Research

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

Presentations at Conference

International Conference (Symposium)

- 0700H001 Y.Motoo: Intergration of herbal medicine into multidisciplinary treatment and holistic care of cancer patients, 2008 Internaional Symposium of East-West Medicine for Cancer Treatment, (Seoul, '08.10).
- 0700H002 Y.Motoo: Current status of Kampo (Japanese herbal)medicine, 1st Asia Pacific Traditional and Complementary Medicine Conference 2008, (Kuala Lumpur, Malaysia, '08.11).

International Conference (Presentations)

- 0700I001 Y.Motoo: Gene expressoin analysis in gemcitabine-treated human pancreatic cancer cells;GSK-3beta as a new therapeutic target, BIT's Annual WORLD Canser CONGRESS-2008, (Shanghai, China, '08.02).
- 0700I002 (Mai W), A.Shakoori, K.Miyashita, Zhang B, Y.Motoo, K.Kawakami, Y.Takahashi, T.Minamoto: Detection of active fraction of GSK3beta in cancer cells by non-raioisotopic in vitro kinase assay, AACR Annual Meeting 2008, (San Diego, CA, USA, '08.04).

School of Nursing

8010 Basic Nursing

Faculty

Title	Name	Field of Specialization
	TAWARA Tomoe	Feelings and QOL of senior citizens living care-house run by a municipal government or private sector.
	SAKAI Keiko	Proficiency and stressor of teachers in nursing.
	KIMOTO Miki	Experiences of diabetic patients that hemodialysis begins hold family's desire

Keywords of Research

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

Outline of Research

-
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.
-

8030 Psychiatric and Mental Health Nursing

Faculty

Title	Name	Field of Specialization
	KITAOKA Kazuyo	Occupational Mental Health, Job Stress, Burnout, Rehabilitation of People with Mental Disability
	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 (A.Shimazu), WB.Schaufeli, S.Kosugi, A.Suzuki, H.Nashiwa, A.Kato, M.Sakamoto, H.Irimajiri, S.Amano, K.Hirohata, R.Goto, K.Kitaoka-Higashiguchi: Work engagement in Japan: validation of the Japanese version of the Utrecht Work Engagement Scale, *Applied psychology : an international review.*, 57: 510-523, 2008.
- 8030B002 M.Nagai: Nursing practice towards mental health promotion: evaluation of independent action in fresh employee and analysis of nursing practice, *Journal of Japan Academy of Psychiatric and Mental Health Nursing.*, 17: 1-11, 2008 (in Japanese) .
- 8030B004 Y.Hamazaki, K.Fukuma, M.Nagai: Living experiences with ossification of posterior longitudinal ligament and it's characteristics—focus on physical, mental and social condition—, *J. J. Intrac. Ill. Nurs.*, 13:149-157, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 8030I001 K.Kitaoka, Y.Morikawa, S.Matsuda, K.Ogino, K.Miura, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Burnout and riskfactors for arteriosclerotic disease: follow-up study, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 8030I002 (K.Ohnishi), M.Nakano, Y.Ohgushi, H.Tanaka, K.Kitaoka: Development of moral distress scale in psychiatric care in Japan, The RCN 14th International NPNR (Network for Psychiatric Nursing Research) Conference, (Oxford, UK, '08.10).

8040 Adult Nursing

Faculty

Title	Name	Field of Specialization
	TAMURA Sachiko	Nephrology Nursing, Transplant Nursing.
	HIRAYAMA Emiko	Nursing Ethics, Medical Ethics, Caring.
	UCHIDA Maki	Cancer Nursing, Terminal Care.
	KITAMURA Yoshiko	Cancer Nursing.
	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
	HASHIMOTO Tomoe	community/elderly nursing science

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.

8060 Child Nursing

Faculty

Title	Name	Field of Specialization
	TSUDA Akiko	Pediatric Nursing
	OGURA Mutsumi	child nursing

Keywords of Research

child, parenting, parenting support, attachment, daily living life, biological rhythm

Outline of Research

The study on biological rhythm and life style in childhood.

8070 Maternity Nursing

Faculty

Title	Name	Field of Specialization
	OCHIAI Fumie	Maternity Health, Child Health, Midwifery.
	SASANO Kyoko	Critical nursing, Nursing education.
	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, A.Sakai: Experience of primiparous women who continued breastfeeding for three months, J. Tsuruma Health Sci. Soc., 32:1-12, 2008.

Reviews

8070C001 (C.Miyamoto), K.Yoritsune, T.Hasegawa: A systematic review: The effect of prevention interventions for food allergies during childhood, The journal of the Nursing Society of University of Toyama., 8:1-9, 2008 (in Japanese) .

8080 Community Nursing

Faculty

Title	Name	Field of Specialization
	FUKUMA Kazumi	Community Health Nursing
	HAMAZAKI Yuko	public health nursing study of elder abuse
	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, Y.Morikawa, K.Tsukazaki, T.Kido: Relations between physical/mental function and social activities of independent elderly people—analysis of social activities of elderly who participate in the association of graduates of a learning course for elderly people—, Hokuriku Japanese Journal of Public Health., 35:6–11, 2008 (in Japanese) .
- 8080B002 Y.Hamazaki, K.Fukuma, M.Nagai: Living experiences with ossification of posterior longitudinal ligament and its characteristics—focus on physical, mental and social condition—, J. J. Intrac. Ill. Nurs., 13:149–157, 2008 (in Japanese) .

8090 Home Care Nursing

Faculty

Title	Name	Field of Specialization
	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
	ISHIBASHI Takaharu	Cardiovascular Pharmacology
	OKADA Masato	Peripheral nerve surgery, Trauma
	KAKINUMA Hiroaki	Pediatric neurology, Pediatric clinical genetics
	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
	KOJIMA Masami	Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature
	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, M. Kojima/electromagnetic radiation, M. Kojima/ultraviolet exposure, M. Kojima/infrared rays exposure

Outline of Research

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

Publications

Originals

- 8100B001 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Serial changes in urinary cadmium concentrations and degree of renal tubular injury after soil replacement in cadmium-polluted rice paddies, *Toxicol. Lett.*, 176:124-130, 2008.
- 8100B002 Takaharu Ishibashi, Tomoko Miwa, Shinkawa, Naoki Nishizawa, Nomura, Junko Yoshida, Tome Kawada, Matomo Nishio: Quantifying nanomolar levels of nitrite in biological samples by HPLC-Griess method: Special reference to arterio-venous difference in vivo, *Tohoku J. Exp. Med.*, 215 (1): 1-11, 2008.
- 8100B003 (A.Hirata), S.Watanabe, M.Taki, O.Fujiwara, M.Kojima, K.Sasaki: Computation of temperature elevation in rabbit eye irradiated by 2.45-GHz microwaves with different field configurations, *Health Phys.*, 92:134-144, 2008.
- 8100B004 K.Miura, A.Matsumori, A.Nasermoaddeli, Y.Soyama, Y.Morikawa, M.Sakurai, A.Kitabatake, M.Nagai, Y.Inaba, H.Nakagawa: Prognosis and prognostic factors in patients with idiopathic dilated cardiomyopathy in Japan—results from a nationwide study—, *Circ. J.*, 72:343-348, 2008.
- 8100B005 (E.Kobayashi), Y.Suwazono, M.Dochi, R.Honda, M.Nishiho, T.Kido, H.Nakagawa: Estimation of benchmark doses as threshold levels of urinary cadmium, based on excretion of β_2 -microglobulin in cadmium-polluted and non-polluted regions in Japan, *Toxicology Lett.*, 179:108-112, 2008.

- 8100B006 Y.Morikawa, K.Miura, S.Sasaki, K.Yoshita, S.Yoneyama, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, Y.Suwazono, M.Higashiyama, H.Nakagawa: Evaluation of the effects of shift work on nutrient intake:a cross-sectional study, *J. Occup. Health*, 50:270-278, 2008.
- 8100B007 (A.Hirata), H.Sugiyama, M.Kojima, H.Kawai, Y.Yamashiro, O.Fujiwara, S.Watanabe, K.Sasaki: Computational model for calculating body-core temperature elevation in rabbits due to whole-body exposure at 2.45 GHz, *Phys. Med. Biol.*, 53:3391-3404, 2008.
- 8100B008 T.Ishibashi, T.Miwa, I.Shinkawa, N.Nishizawa, M.Nomura, J.Yoshida, M.Nishio: Quantifying nanomolar levels of nitrite in biological samples by HPLC-Griess method: Special reference to arterio-venous difference *in vivo*, *Tohoku J. Exp. Med.*, 215:1-11, 2008.
- 8100B009 K.Sunaga, K.Miura, Y.Naruse, M.Sakurai, Y.Morikawa, Y.Kurosawa, H.Nakagawa: Glycated hemoglobin and risk of stroke, ischemic and hemorrhagic, in Japanese men and women, *Cerebrovasc. Dis.*, 26:310-316, 2008.
- 8100B010 (T.Ninomiya), Y.Kiyohara, Y.Tokuda, Y.Do, H.Arima, A.Harada, Y.Ohashi, H.Ueshima, Japan Arteriosclerosis Longitudinal Study Group, H.Nakagawa, K.Miura, Y.Morikawa, M.Ishizaki: Impact of kidney disease and blood pressure on the development of cardiovascular disease: an overview from the Japan Arteriosclerosis Longitudinal Study., *Circulation*, 118:2694-2701, 2008.
- 8100B011 M.Ishizaki, H.Nakagawa, Y.Morikawa, R.Honda, Y.Yamada, N.Kawakami, The Japan Work Stress and Health Cohort Study Group: Influence of job strain on changes in body mass index and waist circumference-6-year longitudinal study, *Scand. J. Work Environ. Health*, 34:288-296, 2008.
- 8100B012 Y.Yasui, S.Miyamoto, M.Kim, H.Kohno, S.Sugie, T.Tanaka: Aqueous and ethanolic extract fractions from the Barazilian propolis suppress azoxymethane-induced aberrant crypt foci in rats, *Oncol. Rep.*, 20:493-499, 2008.
- 8100B013 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Changes in renal tubular and glomerular functions and biological Acid-base balance after soil replacement in Cd-polluted rice paddies calculated with a general linear mixed model, *Biol Trace Elem Res*, 124:164-172, 2008.
- 8100B014 (T.Watanabe), M.Miyao, R.Honda, Y.Yamada: Hiroshima survivors exposed to very low doses of A-bomb primary radiation showed a high risk for cancers, *Environ. Health Prevent. Med.*, 13:264-270, 2008.
- 8100B015 M.Nishijo, K.Tawara, H.Nakagawa, R.Honda, T.Kido, H.Nishijo, S.Saito: 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin in maternal breast milk and newborn head circumference, *J. Expo. Sci. Environ. Epidemiol.*, 18:246-251, 2008.
- 8100B020 M.Nakashima, K.Miura, Y.Morikawa, M.Nishijo, Y.Nakanishi, M.Sakurai, H.Nakagawa: Effect of smoke-free medical school on smoking behavior of medical students, *Japanese Journal of Public Health.*, 55:647-654, 2008 (in Japanese) .

Reviews

- 8100C001 H.Kakinuma, H.Sato: Copy-number variations associated with autism spectrum disorder, *Pharmacogenomics*, 9:1143-1154, 2008.

Short Communications

- 8100E001 H.Kakinuma, M.Ozaki, H.Sato, H.Takahashi: Variation in GABA-A subunit gene copy number in an autistic patient with mosaic 4 p duplication (p12p16), *Am. J. Med. Genet. B Neuropsychiatr. Genet.*, 147B:973-975, 2008.

Others

- 8100F001 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, A.Hirata, Y.Sakamoto, Y.Kawakami, S.Watanabe, K.Wake, M.Taki, Y.Kamimura, H.Sasaki, K.Sasaki: Investigation of wavelength-specific characteristics of quasi- and millimeter-waves, *URSI, KP214:1-4*, 2008.
- 8100F007 (C.Aoki), M.Higashiyama, Y.Nakashima, H.Takayosi, C.Okamoto, E.Nagayama, C.Kobayashi, T.Kido, K.Miura, Y.Morikawa, M.Sakurai, K.Nakamura, H.Nakagawa, M.Ishizaki, Y.Naruse: Smoking cessation rate and its related factors on a smoking cessation support program in a workplace, *Hokuriku Japanese Journal of Public Health.*, 35:36-38, 2008 (in Japanese) .

- 8100F008 (C.Okamoto), M.Higashiyama, E.Nagayama, C.Aoki, H.Takayoshi, Y.Nakashima, C.Kobayashi, K.Miura, M.Sakurai, K.Nakamura, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Effects of educational program under a tutorial or a small-group system on body weight loss for obese participants in a workplace, *Hokuriku Japanese Journal of Public Health.*, 35:39-41, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 8100I001 M.Sakurai, K.Miura, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of long-term body weight change to HDL particle size change in Japanese men and women:The INTERMAP Toyama study. Joint conference, 49th Cardiovascular Disease Epidemiology and Prevention -and- Nutrition, (Colorado, '08.03), *Physical Activity and Metabolism*, 103, 2008.
- 8100I002 K.Miura, M.Sakurai, R.Naganuma, Y.Morikawa, S.Yoneyama, H.Nakagawa, K.Yoshita, H.Ueshima, J.Stamler: Relation of 9-year body weight change to change in LDL particle size in Japanese men and women:The INTERMAP Toyama study, Joint Conference -49th Cardiovascular Disease Epidemiology and `revention -and- Nurrition, (Colorado, '08.03), *Physical Activity and Metabolism*, 103, 2008.
- 8100I003 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, Y.Sakamoto, Y.Kawakami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of millimeter wave exposure through ocular temperature measurement and heat transportation, *Association for Research in vision and Ophthalmology*, (Florida, '08.04).
- 8100I004 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Protective effect of topical 5-S-GAD on UV-B- induced cataract in rats, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 8100I005 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.lu, J.Zhang, K.Sasaki: Prevalence of pseudoexfoliation in china, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 8100I006 Y.Yamashiro, R.Honda, M.Kojima, Y.Sakamoto, Y.Kawakami, J.Qu, K.Sasaki, H.Sasaki: Does corneal curvature radius contribute to pathogenesis of pterygium? -A report from chinese opthalmic surveys in Hainan and Shanxi, *Association for Research in Vision and Ophthalmology*, (Florida, '08.04).
- 8100I007 Y.Masaki, L.Dong, N.Kurose, K.Kitagawa, Y.Morikawa, M.Yamamoto, H.Takahashi, T.Saeki, A.Azumi, S.Nakada, S.Matsui, T.Origuchi, S.Nishiyama, I.Nishimori, T.Nojima, K.Yamada, M.Kawano, Y.Zen, M.Kaneko, K.Miyazaki, K.Tomoda, T.Sawaki, T.Kawanami, M.Tanaka, T.Fukushima, S.Sugai, H.Umehara: Proposal for A new clinical entity, IGG4-Positive Multi-Organ Lymphoproliferative syndrome : analysis of 64 cases of IGG4-Related disorders., *10th International Conference on Malignant Lymphoma*, (Switzerland, '08.06).
- 8100I008 M.Kojima, T.Sakai, Y.Suzuki, Y.Yamashiro, Y.Sakamoto, Y.Kawanami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of Quasi and millimeter wave exposure through ocular temperature measurement and heat transportation, *The Bioelectromagnetics in Society 30th Annual Meeting*, (San Diego, '08.06).
- 8100I009 H.Osada, Y.Yamashiro, R.Honda, Y.Sakamoto, K.Nagai, Y.Kawakami, K.Sasaki, H.Sasaki: Posterior capsule opacification in rural areas of China, *The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International conference for Eye Research and the 11th Conference of Chinese Cataract Society*, (Xi'an, '08.09).
- 8100I010 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: Effect factors of lens thickness, *The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th international Conference for Eye Research and the 11th Conference of Chinese Cataract Society Clinical Warkshop*, (Xi'an, '08.09).
- 8100I011 K.Nagai, H.Sasaki, R.Honda, M.Kojima, K.Sasaki, F.Jonasson, M.Ono: Lens thickness by three main types of cataract, *The 7th Asina Cataract Research Conference in Conjunction with Cataract satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society*, (Xi'an, '08.09).

- 8100I012 Y.Morikawa, M.Sakurai, K.Miura, M.Ishizaki, T.Kido, H.Nakagawa, Y.Naruse, M.Higashiyama: Drinking habit among shift workers and its health effects, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.
- 8100I013 K.Kitaoka, Y.Morikawa, S.Matsuda, K.Ogino, K.Miura, M.Sakurai, M.Ishizaki, T.Kido, Y.Naruse, H.Nakagawa: Burnout and riskfactors for arteriosclerotic disease: follow-up study, 3rd ICOH International Conference on Psychosocial Factors at work, (Quebec, '08.09), 2008.

Medical Research Institute/
Center for FDD - MB

0710 Medical Research Institute

Faculty

Title	Name	Field of Specialization
	DATE Takayasu	Mechanisms of chromosome segregation and DNA repair.

Keywords of Research

Gene analysis, PKU- β (TLK1), PKU- α (TLK2), DNA repair, cell cycle, signal transduction, chromosome

Outline of Research

Our research is to clarify the function of nuclear protein kinases. PKU- α /TLK2 and PKU- β /TLK1. Much of the work in our laboratory has focused on identifying the role of PKU- β /TLK1 in cell proliferation.

Publications

Originals

- 0710B001 K.Iwabuchi, M.Hashimoto, T.Matsui, A.Kurosawa, N.Adachi, T.Date: Cell sorting analysis of cell cycle-dependent X-ray sensitivity in end joining-deficient human cells, *Biochem. Biophys. Res. Commun.*, 372:662-667, 2008.
- 0710B002 K.Iwabuchi, T.Matsui, M.Hashimoto, Y.Matsumoto, T.Kurihara, T.Date: Characterization of a cancer cell line that expresses a splicing variant form of 53BP1:Separation of checkpoint and repair functions in 53BP1, *Biochem. Biophys. Res. Commun.*, 376:509-513, 2008.
- 0710B003 M.Hashimoto, T.Matsui, K.Iwabuchi, T.Date: PKU- β /TLK1 regulates myosin II activities, and is required for accurate equaled chromosome segregation, *Mutat. Res.*, 657:63-67, 2008.

Presentations at Conference

International Conference (Presentations)

- 0710I001 K.Iwabuchi, M.Hashimoto, T.Matsui, T.Date: Identification of a cancer cell-line that expresses a splicing variant form of 53BP1:separation of checkpoint and repair functions in 53BP1, *The International Ataxia-Telangiectasia Workshop2008*, (Otsu, '08.04), *Ataxia-Telangiectasia Workshop2008 Abstracts*, 141, 2008.
- 0710I002 T.Date, M.Hashimoto, T.Matsui, M.Ozaki, K.Iwabuchi: PKU- β /TLK1 plays a dual role in both centrosome separation and chromosome segregation, *33th FEBS Congress 11th IUBMB Conference*, (Athens, '08.06), *Abstracts*, 112, 2008.

0740 Division of Human Genetics (Biochemistry)

Faculty

Title	Name	Field of Specialization
	KUHARA Tomiko	Human metabolome analysis for diagnosis of metabolic disorders and personalized medicine
	SHINKA Toshihiro	Chemical diagnosis of metabolic disorders by mass spectrometry (Tyrosinosis, Metabolic disorders of fatty acid beta oxidation, Acylcarnitine analysis, Sulfated bile acids analysis)
	INOUE Yoshito	Chemical diagnosis and follow up study for metabolic disorders (urea cycle disorders, prenatal diagnosis of organic acidemias, Canavan disease, optical isomer analysis)
	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 Y.Inoue, M.Ohse, T.Shinka, T.Kuhara: Prenatal diagnosis of propionic acidemia by measuring methylcitric acid in dried amniotic fluid on filter paper using GC/MS, *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.*, 870:160-163, 2008.
- 0740B002 T.Shinka, M.Ohse, Y.Inoue, K.Kataoka, Y.Kondou, T.Kuhara: Comparison of urinary organic acids in medium-chain Acyl-CoA dehydrogenase deficiency and MCT milk-treated patients by GC/MS, *J. Kanazawa. Med. Univ.*, 33:112-116, 2008 (in Japanese).

Case Reports

- 0740D001 (P.Wasant), S.Liammongkolkul, C.Kuptanon, N.Vatanavicharn, A.Sathienkijakanchai, T.Shinka: Organic acid disorders detected by urine organic acid analysis: twelve cases in Thailand over three-year experience, *Clin. Chim. Acta*, 392:63-68, 2008.

Presentations at Conference

International Conference (Presentations)

- 0740I001 (T.Takayama), N.Takaoka, M.Miyazaki, M.Nagata, S.Mugiya, K.Johnin, Y.Okada, T.Kuhara, S.Cramer, S.Ozono: The relationship between molecular analysis and ethnic differences of genotype in Japanese patients with primary hyperoxaluria type 2, 11th International Symposium on Urolithiasis, (Nice, France, '08.09).

0750 Division of Human Genetics (Clinical Medicine)

Faculty

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

Keywords of Research

genetic counseling, genetic service, prenatal diagnosis, congenital abnormality

Publications

Originals

0750B001 M.Ozaki, Y.Ishigaki: Comparative study of chromosomal analysis using SNPs genotyping arrays and G-banding in MCA/MR(multiple congenital abnormality / mental retardation) patients, J. Kanazawa. Med. Univ., 33:1-12, 2008 (in Japanese) .

Case Reports

0750D001 K.Sato, Y.Ueda, S.Miwa, A.Yokogawa, M.Ozaki, S.Katsuda: Low-grade malignant soft-tissue perineurioma: interphase fluorescence in situ hybridization, Pathol. Int., 58:718-722, 2008.

Short Communications

0750E001 H.Kakinuma, M.Ozaki, H.Sato, H.Takahashi: Variation in GABA-A subunit gene copy number in an autistic patient with mosaic 4 p duplication (p12p16), Am. J. Med. Genet. B Neuropsychiatr. Genet., 147B:973-975, 2008.

0770 Division of Core Facility (Radioisotope Center)

Faculty

Title	Name	Field of Specialization
	ISHIGAKI Yasuhito	Molecular and Cellular Biology
	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 E.Simamura, H.Shimada, Y.Ishigaki, T.Hatta, N.Higashi, K-I.Hirai: Bioreductive activation of quinone antitumor drugs by mitochondrial voltage-dependent anion channel 1, *Anat. Sci. Int.*, 83:261-266, 2008.
- 0770B002 (T.Takata), T.Taanaka, N.Yahagi, R.Yahagi, H.Tsuchida, Y.Ishigaki, N.Tomosugi, S.Fushiya, F.Takano, T. Ohta: The liquid culture filtrates of entomogenous fungus *Paecilomyces tenuipes* and its glycoprotein constituent protects against anemia in mice treated with 5-fluorouracil, *Biol.Pharm.Bull.*, 31:1565-1573, 2008.
- 0770B003 J.Yamakawa, Y.Ishigaki, F.Takano, T.Takahashi, J.Yoshida, J.Moriya, T.Takata, T.Tatsuno, K.Sasaki, T.Ohta, T.Takegami, F.Yoshizaki: The kampo medicines orengedokuto, bofutsushosan and boiogito have different activities to regulate gene expressions in differentiated rat white adipocytes: comprehensive analysis of genetic profiles, *Biol.Pharm.Bull.*, 31:2083-2089, 2008.
- 0770B004 (T.Kiba), Y.Kintaka, Y.Suzuki, E.Nakata, T.Osaka, Y.Ishigaki, S.Inoue: Changes of neuron-specific and apoptosis gene expression levels after ventromedial hypothalamic lesions in rat intestine, *Exp. Biol. Med. (Maywood)*, 233:1368-1373, 2008.
- 0770B005 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.
- 0770B006 M.Ozaki, Y.Ishigaki: Copmparative study of chromosomal analysis using SNPs genotyping arrays and G-banding in MCA/MR(multiple congenital abnormality / mental retardation) patients, *J. Kanazawa. Med. Univ.*, 33:1-12, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0770I001 T.Takata, F.Takano, Y.Nakamura, Y.Ishigaki, T.Ohta: Aqueous extract of peanut coat and its main constituent procyanidin A1 suppress serum IgE and IgG1 levels in mice-immunized with ovalbumin, The 4th KSP-JSP-CCTNM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTNM Joint Symposium on Pharmacognosy, 209, 2008.
- 0770I002 (K.Mitani), T.Takata, T.Tatsuno, J.Date, N.Ohta, R.Yahagi, Y.Ishigaki, F.Takano, T.Ohta: The liquid culture filtrates of entomogenous fungus *Paecilomyces tenuipes* and its glycoprotein constituent protects against anemia in mice-treated with 5-fluorouracil, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 207, 2008.
- 0770I003 (T.Tatsuno), T.Takata, Y.Ishigaki, F.Takano, T.Ohta: Proanthocyanidin-enriched fraction isolated from *Diospyros kaki* peel inhibited melanogenesis in cultured human melanoma HMV-2 cells, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 210, 2008.
- 0770I004 (J.Date), T.Takata, T.Tatsuno, Y.Ishigaki, F.Takano, T.Ohta: N-Glycoryl neuraminic acid from edible/toxic mushroom *Pleurocybella porrigens*, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 131, 2008.
- 0770I005 (T.Tatsuno), T.Takata, Y.Ishigaki, F.Takano, T.Ohta: Proanthocyanidin-enriched fraction isolated from *Diospyros kaki* peel inhibited melanogenesis in cultured human HMV-2 cells, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 210, 2008.
- 0770I006 (K.Mitani), T.Takata, T.Tatsuno, J.Date, N.Ohta, N.Yahagi, R.Yahagi, Y.Ishigaki, F.Takano, T.Ohta: The liquid culture filtrates of entomogenous fungus *Paecilomyces tenuipes* and its glycoprotein constituent protects against anemia in mice-treated with 5-fluorouracil, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 207, 2008.
- 0770I007 (J.Date), T.Takata, T.Tatsuno, Y.Ishigaki, F.Takano, T.Ohta: N-glycoryl neuraminic acid from edible/toxic mushroom *Pleurocybella porrigens*, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (Gangneung, Republic of Korea, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 131, 2008.
- 0770I008 T.Takegami, M.Murakami, M.Sato, T.Ota, Y.Ishigaki: Analysis of gene expression in Japanese encephalitis virus infected cells using microarray., 15th International Congress of Virology, (Istanbul, '08.08).

0780 Division of Core Facility (Experimental Animal Center)

Faculty

Title	Name	Field of Specialization
(Additional Post)	MATSUI Shinobu	

Publications

Originals

- 0780B001 Z-P.Zong, S.Matsui, J-F.Han, S.Katsuda, ML.Fu: Involvement of thymus in amiodarone-treated autoimmune myocarditis in rats, *Int. J. Cardiol.*, 125:122-129, 2008.
- 0780B002 (J-I.Wu), S.Matsui, Z-P.Zong, K.Nishikawa, B-G.Sun, S.Katsuda, M.Fu: Amelioration of myocarditis by statin through inhibiting cross-talk between antigen presenting cells and lymphocytes in rats, *J. Mol. Cell. Cardiol.*, 44:1023-1031, 2008.
- 0780B003 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.

0790 Division of Core Facility (Morphological Equipment Center)

Keywords of Research

Mechanism of Chromosomal Instability

Outline of Research

Mechanism of Chromosomal Instability

Publications

Originals

- 0790B001 K.Iwabuchi, T.Matsui, M.Hashimoto, Y.Matsumoto, T.Kurihara, T.Date: Characterization of a cancer cell line that expresses a splicing variant form of 53BP1:Separation of checkpoint and repair functions in 53BP1, *Biochem. Biophys. Res. Commun.*, 376:509–513, 2008.

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

Faculty

Title	Name	Field of Specialization
(Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
	KIM Mihye	Cancer chemoprevention by natural products.
	SATO Kyoko	Biological system pharmaceutical science
	TAKATA Takanobu	Development of the method for diagnosis and therapy of the intractable disease by 'Proteome Analysis'

Publications

Originals

- 0800B001 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Serial changes in urinary cadmium concentrations and degree of renal tubular injury after soil replacement in cadmium-polluted rice paddies, *Toxicol. Lett.*, 176:124-130, 2008.
- 0800B002 (E.Kobayashi), Y.Suwazono, M.Dochi, R.Honda, M.Nishiho, T.Kido, H.Nakagawa: Estimation of benchmark doses as threshold levels of urinary cadmium, based on excretion of β_2 -microglobulin in cadmium-polluted and non-polluted regions in Japan, *Toxicology Lett.*, 179:108-112, 2008.
- 0800B003 (S.Miyamoto), Y.Yasui, M.Kim, S.Sugie, A.Murakami, R.Ishigamori-Suzuki, T.Tanaka: A novel *rasH2* mouse carcinogenesis model that is highly susceptible to 4-NQO-induced tongue and esophageal carcinogenesis is useful for preclinical chemoprevention studies, *Carcinogenesis*, 29:418-426, 2008.
- 0800B004 Y.Yasui, S.Miyamoto, M.Kim, H.Kohno, S.Sugie, T.Tanaka: Aqueous and ethanolic extract fractions from the Brazilian propolis suppress azoxymethane-induced aberrant crypt foci in rats, *Oncol. Rep.*, 20:493-499, 2008.
- 0800B005 M.Kim, S.Miyamoto, S.Sugie, Y.Yasui, R.Ishigamori-Suzuki, A.Murakami, H.Nakagawa, T.Tanaka: A tobacco-specific carcinogen, NNK, enhances AOM/DSS-induced colon carcinogenesis in male A/J mice, *In Vivo.*, 22:557-564, 2008.
- 0800B006 (S.Miyamoto), F.Epifano, M.Curini, S.Genovese, M.Kim, R.Ishigamori-Suzuki, Y.Yasui, S.Sugie, T.Tanaka: A novel prodrug of 4'-geranyloxy-ferulic acid suppresses colitis-related colon carcinogenesis in mice, *Nutr. Cancer.*, 60:675-684, 2008.
- 0800B007 (E.Kobayashi), Y.Suwazono, R.Honda, M.Dochi, M.Nishijo, T.Kido, H.Nakagawa: Changes in renal tubular and glomerular functions and biological Acid-base balance after soil replacement in Cd-polluted rice paddies calculated with a general linear mixed model, *Biol Trace Elem Res*, 124:164-172, 2008.
- 0800B008 M.Nishijo, K.Tawara, H.Nakagawa, R.Honda, T.Kido, H.Nishijo, S.Saito: 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin in maternal breast milk and newborn head circumference, *J. Expo. Sci. Environ. Epidemiol.*, 18:246-251, 2008.
- 0800B009 (M.Nozone), N.Sarukura, M.Nishijo, H.Fujii, Y.Arai, A.Ishiwaki, N.Yoshiike, H.Nakagawa, K.Yoshita: A study on seasonal variations in nutrients and food groups and the relation between vegetable consumption and nutrients/food groups in a rural area of Toyama, Hokuriku Japanese Journal of Public Health., 34:58-64, 2008 (in Japanese).
- 0800B010 M.Nakashima, K.Miura, Y.Morikawa, M.Nishijo, Y.Nakanishi, M.Sakurai, H.Nakagawa: Effect of smoke-free medical school on smoking behavior of medical students, *Japanese Journal of Public Health.*, 55:647-654, 2008 (in Japanese).

Reviews

- 0800C001 Y.Yasui, M.Kim, T.Tanaka: PPAR ligands for cancer chemoprevention, *PPAR Res.*, 2008:548919, 2008.

Short Communications

- 0800E001 M.Nishijo, S.Maruzeni, K.Tawara, T.Kido, Nhu.DD, Naganuma.R, H.Suzuki, Hung.TM, Dung.PT, Thom.LH, H.Nakagawa: Porychlorinated-dibenzo-p-dioxins/Furans and pregnancy outcome among vietnamese women living in a herbicide sprayed area, *Organohalogen Compounds.*, 70:1882-1885, 2008.
- 0800E002 (T.Kido), R.Naganuma, H.Suzuki, Nhu.DD, K.Saito, M.Nishijo, H.Nakagawa, K.Tawara, Hung.NN, Thom.LH, Dung.PT: The relationship between visualacuity and dioxin levels of breast milk in the herbicide sprayed and non-sprayed areas in vietnam, *Organohalogen Compounds.*, 70:550-553, 2008.

Presentations at Conference

International Conference (Presentations)

- 0800I001 高田尊信, 高野文英, 中村有香, 石垣靖人, 太田富久: Aqueous extract of peanut coat and its main constituent procyanidin A1 suppress serum IgE and IgG1 levels in mice-immunized with ovalbumin, The 4th KSP-JSP-CCTNM Joint Symposium on Pharmacognosy, (大韓民国江原道江陵市, '08.06), The 4th KSP-JSP-CCTNM Joint Symposium on Pharmacognosy, 209, 2008.
- 0800I002 (辰野貴則), 高田尊信, 石垣靖人, 高野文英, 太田富久: Proanthocyanidin-enriched fraction isolated from *Diospyros kaki* peel inhibited melanogenesis in culutured human HMV-2 cells, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (江陵, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 210, 2008.
- 0800I003 (三谷 薫), 高田尊信, 辰野貴則, 伊達絢一郎, 太田奈津子, 矢萩信夫, 矢萩れみ子, 石垣靖人, 高野文英, 太田富久: The liquind culuture filtrates of entomogenous fungi *Paecilomyces tenuipes* and its glycoprotein constituent protects against anemia in mice-treated with 5-fluorouracil, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (江陵, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 207, 2008.
- 0800I004 (伊達絢一郎), 高田尊信, 辰野貴則, 石垣靖人, 高野文英, 太田富久: *N*-glycory neuraminic acid from edible/toxic mushroom *Pleurocybella porrigens*, The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, (江陵, '08.06), The 4th KSP-JSP-CCTCCM Joint Symposium on Pharmacognosy, 131, 2008.

0900 Division of Cell Medicine

Faculty

Title	Name	Field of Specialization
	FUJIKAWA Kohzaburo	polyploid cells, cell cycle,transformation
	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 X.Luo, K.Fujikawa-Yamamoto, M.Miyagoshi, H.Yamagishi: Tetraploid-diploid transition of tetraploid H-1 (ES) cells in L15F10 medium without leukemia inhibitory factor, J. Kanazawa. Med. Univ., 33:107-111, 2008.
- 0900B002 K.Fujikawa-Yamamoto, M.Miyagoshi, H.Yamagishi, X.Luo: Alteration and preservation of cellular characteristics in long-term culture of tetraploid H-1(ES) cells, Hum. Cell., 21:18-27, 2008.
- 0900B003 K.Fujikawa-Yamamoto, M.Miyagoshi, H.Yamagishi, X.Luo: Cell proliferation of diploid and tetraploid H1(ES) cells in L15F10 medium without leukemia inhibitory factor, Cytologia (Tokyo), 73:259-268, 2008.

Reviews

- 0900C001 K.Fujikawa-Yamamoto: A new hypothesis for the genome structure of mammalian cells I - A fractal structure model -, Cytometry Res, 18:57-64, 2008 (in Japanese) .
- 0900C002 K.Fujikawa-Yamamoto: A new hypothesis for the genome structure of mammalian cells II -Development to polyploid cells -, Cytometry Res, 18:65-71, 2008 (in Japanese) .

Presentations at Conference

International Conference (Presentations)

- 0900I001 Kohzaburo Fujikawa-Yamamoto, Minoru Miyagoshi, Hiroko Yamagishi, Xianwen Luo: Alteration and preservation of cellular characteristics in long-term culture of mouse tetraploid H-1 (ES) cels, 24th International Congress of International Society for Analytical Cytology, (Budapest (Hungary), '08.05).

0910 Division of Advanced Medicine

Faculty

Title	Name	Field of Specialization
	MATSUI Shinobu	Clinical cardiology
	TOMOSUGI Naohisa	Clinical Proteomics
	NAGAO Yosinobu	spermatogenesis, epigenetics, endocrine disruptors
	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. Hepcidin, 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 Z-P.Zong, S.Matsui, J-F.Han, S.Katsuda, ML.Fu: Involvement of thymus in amiodarone-treated autoimmune myocarditis in rats, *Int. J. Cardiol.*, 125:122-129, 2008.
- 0910B002 (H.Kijima), T.Sawada, N.Tomosugi, K.Kubota: Expression of hepcidin mRNA is uniformly suppressed in hepatocellular carcinoma, *BMC Cancer*, 8:167, 2008.
- 0910B003 (T.Takata), T.Taanaka, N.Yahagi, R.Yahagi, H.Tsuchida, Y.Ishigaki, N.Tomosugi, S.Fushiya, F.Takano, T. Ohta: The liquid culture filtrates of entomogenous fungus *Paecilomyces tenuipes* and its glycoprotein constituent protects against anemia in mice treated with 5-fluorouracil, *Biol.Pharm.Bull.*, 31:1565-1573, 2008.
- 0910B004 (J-I.Wu), S.Matsui, Z-P.Zong, K.Nishikawa, B-G.Sun, S.Katsuda, M.Fu: Amelioration of myocarditis by statin through inhibiting cross-talk between antigen presenting cells and lymphocytes in rats, *J. Mol. Cell. Cardiol.*, 44:1023-1031, 2008.
- 0910B005 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301-305, 2008.
- 0910B006 (N.Fujita), R.Sugimoto, S.Motonishi, N.Tomosugi, H.Tanaka, M.Takeo, M.Iwasa, Y.Kobayashi, H.Hayashi, M.Kaito, Y.Takei: Patients with chronic hepatitis C achieving a sustained virological response to peginterferon and ribavirin therapy recover from impaired hepcidin secretion, *J. Hepatol.*, 49:702-710, 2008.

Case Reports

- 0910D001 (H.Suzuki), F.Ito, H.Nakazawa, Y.Maeda, K.Yoshida, H.Tomoe, N.Tomosugi: Perioperative management in a maintenance hemodialysis patient with congenital antithrombin III deficiency undergoing surgery for renal cell carcinoma, *J. Jpn. Soc. Dial. Ther.*, 41:641–645, 2008 (in Japanese) .

Short Communications

- 0910E001 (J.Kanda), C.Mizumoto, H.Kawabata, H.Tsuchida, N.Tomosugi, K.Matsuo, T.Uchiyama: Serum hepcidin level and erythropoietic activity after hematopoietic stem cell transplantation, *Haematologica.*, 93:1550–1554, 2008.

Presentations at Conference

International Conference (Key Note Lecture)

- 0910G001 N.Tomosugi: Proteomics for molecular diagnostics, 15th Congress of the FAOPS 2008, (Nagoya, '08.05).

International Conference (Presentations)

- 0910I001 N.Tomosugi, K.Kitagawa, H.Tsuchida, H.Umehara: Identification and quantification of tear proteins in sjogren's, HUP0 2008 'th WORLO CONGRESS, (Amsterdam, '08.08).
- 0910I002 H.Yokoyama, M.Asaka, S.Kimura, H.Atsumi, J.Imura, Y.Chikazawa, M.Nakagawa, H.Okuyama, H.Yamaya, N.Tomosugi: Statins preserved the function of transplanted kidneys under controlled blood pressure, Renal Week 2008 ASN's 41st Annual Meeting & Scientific Exposition, (Philadelphia, '08.11), *J.Am.Soc.Nephrol.*, 19:682A, 2008.
- 0910I003 (J.Kanda), C.Mizumoto, H.Kawabata, T.Ichinohe, H.Tsuchida, N.Tomosugi, K.Matsuno, T.Kondo, T.Ishikawa, T.Uchiyama: Clinical significance of serum hepcidin-25 levels on early treatment-related complications after hematopoietic stem cell transplantation, 50th annual meeting and exposition of the American Society of Hematology, (San Francisco, '08.12), *Blood (ASH Annual Meeting Abstracts)*, 122:1160, 2008.
- 0910I004 (J.JC.Kroot), E.HJM.Kemna, S.Bansal, M.Busbridge, N.Campostrini, D.Girelli, R.C.Hider, V.Koliaraki, A.Manalaki, G.Olbina, N.Tomosugi, C.Tselepis, D.G.Ward, T.Ganz, J.CM.Hendriks, D.W.Swinkels: Results of the first international round robin for the quantification of urinary and plasma hepcidin: need for sandardization, 50th annual meeting and exposition of the American Society of Hematology, (San Francisco, '08.12), *Blood (ASH Annual Meeting Abstracts)*, 112:120, 2008.

0920 Division of Molecular Oncology and Virology

Faculty

Title	Name	Field of Specialization
	TAKEGAMI Tsutomu	Molecular mechanism of flavivirus replication, interaction with host cells and viral carcinogenesis
(Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
	OTA Takahide	Molecular analysis of the mechanism of cancer metastasis
	MURAKAMI Manabu	Pathogenicity of flavivirus, isolation from the field-collected mosquitoes

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 (W.Sun), L.Dong, K.Kaneyama, T.Takegami, N.Segami: Bacterial diversity in synovial fluids of patients with TMD determined by cloning and sequencing analysis of the 16S ribosomal RNA gene, *Oral Surg. Oral Med. Oral Pathol. Oral Radiol. Endod.*, 105:566–571, 2008.
- 0920B002 M.Maeda, M.Murakami, T.Takegami, T.Ota: Promotion or suppression of experimental metastasis of B16 melanoma cells, *Toxicol. Appl. Pharmacol.*, 229:232–238, 2008.
- 0920B003 (K.Wakabayashi), M.Komatsu, M.Murakami, I.Hori, T.Takegami: Morphology and gene analysis of hybrids between two congeneric sea stars with different modes of development, *Biol. Bull.*, 215:89–97, 2008.
- 0920B004 J.Yamakawa, Y.Ishigaki, F.Takano, T.Takahashi, J.Yoshida, J.Moriya, T.Takata, T.Tatsuno, K.Sasaki, T.Ohta, T.Takegami, F.Yoshizaki: The kampo medicines orangedokuto, bofutsushosan and boiogito have different activities to regulate gene expressions in differentiated rat white adipocytes: comprehensive analysis of genetic profiles, *Biol.Pharm.Bull.*, 31:2083–2089, 2008.
- 0920B005 (A.Nagao), X.Zhao, T.Takegami, H.Nakagawa, S.Matsui, T.Matsunaga, Y.Ishigaki: Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene, *Biochem. Biophys. Res. Commun.*, 370:301–305, 2008.

Presentations at Conference

International Conference (Presentations)

- 0920I001 T.Ota, M.Maeda, Z.-P.Zong, M.Murakami, T.Takegami, M.Tatsuka: Phosphorylation and localization of FAK in v-Src transformed fibroblast cells after anoikis induction., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).

- 0920I002 Z.-P.Zong, M.Maeda, M.Murakami, T.Takegami, M.Tatsuka, T.Ota: Effects of oral administration of lapachol on experimental metastasis of B16 melanoma cells in mice., BIT Life Sciences' 1st Annual World Cancer Congress, (Shanghai, '08.06).
- 0920I003 T.Takegami, M.Murakami, M.Sato, T.Ota, Y.Ishigaki: Analysis of gene expression in Japanese encephalitis virus infected cells using microarray., 15th International Congress of Virology, (Istanbul, '08.08).

0930 Division of Dermatmycology (Novartis Pharma)

Faculty

Title	Name	Field of Specialization
(Additional Post)	MOCHIZUKI Takashi	Medical mycology, Dermatmycosis
(Additional Post)	KAWASAKI Masako	Medical mycology
	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 Dermatmycology 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 M.Kawasaki, K.Anzawa, K.Takeda, H.Tanabe, T.Mochizuki, H.Ishizaki: Genetic and phenotypic variations among F1 progenies of *Arthroderma benhamiae*, Jpn. J. Med. Mycol., 49:103-110, 2008.
- 0930B002 M.Kawasaki, K.Anzawa, A.Wakasa, K.Takeda, H.Tanabe, T.Mochizuki, H.Ishizaki, BM. Hemashettar: Different genes can result in different phylogenetic relationships in *Trichophyton* species, Jpn. J. Med. Mycol., 49:311-318, 2008.
- 0930B003 (H.Shinoda), K.Nishimoto, T.Mochizuki: Screening Examination of *Trichophyton tonsurans* among Judo Practitioners at the All Japan Inter High School Championships, Saga 2007, Jpn. J. Med. Mycol., 49:305-309, 2008 (in Japanese) .

Reviews

- 0930C002 T.Mochizuki: The university network of education and technical support of treatment of fungal diseases for dermatologists, Jpn. J. Med. Mycol., 49:181-185, 2008 (in Japanese) .
- 0930C003 T.Mochizuki: Mycological tests, Nipponrinsho., 66:2319-2325, 2008 (in Japanese) .

Case Reports

- 0930D001 (S.Ohno), H.Tanabe, M.Kawasaki, Y. Horiguchi: Tinea corporis with acute inflammation caused by *Trichophyton tonsurans*, J. Dermatol., 35:590–593, 2008.
- 0930D002 M.Terada, M.Hasei, S.Watanabe, T.Fujii, H.Tanabe, T.Mochizuki: A case of gefitinib (Iressa®)-induced eruption with acantholysis, Skin research., 7:131–136, 2008 (in Japanese) .
- 0930D005 K.Takeda, T.Ushigami, J.Fujita, H.Tanabe, T.Mochizuki, T.Machi: A case of penis tuberculid with induratio penis plastica, Skin research., 7:676–680, 2008 (in Japanese) .
- 0930D009 (N.Umemoto), T.Demitsu, K.Sasaki, M.Kakurai, M.Hayashi, Y.Wada, M.Moriguchi, Y.Hiratsuka, E.Iida, R.Azuma, M.Kawasaki, T.Mochizuki: Phaeohyphomycosis due to *Exophiala jeanselmei* in immunocompromised hosts – Report of two cases, Jichi Medical School journal., 31:77–83, 2008 (in Japanese) .

Short Communications

- 0930E001 T.Mochizuki, M.Kawasaki, K.Anzawa, J.Fujita, T.Ushigami, K.Takeda, A.Sano, Y.Takahashi, K.Kamei: Epidemiology of sporadic (non-epidemic) cases of *Trichophyton tonsurans* infection in Japan based on PCR-RFLP analysis of non-transcribed spacer region of ribosomal RNA gene, Jpn.J.Infect.Dis., 61:219–222, 2008.

Presentations at Conference

International Conference (Key Note Lecture)

- 0930G001 T.Mochizuki, K.Anzawa: Molecular diagnosis of superficial mycoses, 8th Asian Dermatological Congress, (Seoul, Korea, '08.10).

International Conference (Symposium)

- 0930H001 T.Mochizuki: Molecular epidemiology of cutaneous fungal infection in Japan, 4th Congress of Asia Pacific Society for Medical Mycology, (Seoul, Korea, '08.10).

0970 Division of Vision Research for Environmental Health

Faculty

Title	Name	Field of Specialization
(Additional Post)	SASAKI Hiroshi	cataract, epidemiology, uveitis
(Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology
(Additional Post)	KAWAKAMI Yutaka	cataract, thyroid ocular
	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 (R.P.Kowalski), E.G.Romanowski, F.S.Mah, H.Sasaki, M.Fukuda, Y.J.Gordpm: A comparison of moxifloxacin and levofloxacin topical prophylaxis in a fluoroquinolone-resistant *staphylococcus aureus* rabbit model, Jpn. J. Ophthalmol., 52:211-216, 2008.
- 0970B002 (A.Hirata), S.Watanabe, M.Taki, O.Fujiwara, M.Kojima, K.Sasaki: Computation of temperature elevation in rabbit eye irradiated by 2.45-GHz microwaves with different field configurations, Health Phys., 92:134-144, 2008.
- 0970B003 (A.Hirata), H.Sugiyama, M.Kojima, H.Kawai, Y.Yamashiro, O.Fujiwara, S.Watanabe, K.Sasaki: Computational model for calculating body-core temperature elevation in rabbits due to whole-body exposure at 2.45 GHz, Phys. Med. Biol., 53:3391-3404, 2008.
- 0970B004 M.Fukuda, H.Sasaki: Calculation of AQCmax:comparison of five ophthalmic fluoroquinolone solution, Curr. Med. Res. Opin., 24:3479-3486, 2008.
- 0970B005 M.Fukuda, J.Takahashi, Y.Nishida, H.Sasaki: Intraocular penetration of astaxanthin in rabbit eyes, Journal of the eye., 25:1461-1464, 2008 (in Japanese) .

Others

- 0970F001 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, A.Hirata, Y.Sakamoto, Y.Kawakami, S.Watanabe, K.Wake, M.Taki, Y.Kamimura, H.Sasaki, K.Sasaki: Investigation of wavelength-specific characteristics of quasi- and millimeter-waves, URSI, KP214:1-4, 2008.

Presentations at Conference

International Conference (Presentations)

- 0970I001 M.Kojima, T.Sakai, Y.Yamashiro, Y.Suzuki, Y.Sakamoto, Y.Kawakami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of millimeter wave exposure through ocular temperature measurement and heat transportation, Association for Research in vision and Ophthalmology, (Florida, '08.04).
- 0970I002 H.Sasaki, N.Yamamoto, Y.Takashima, T.Yamaguchi, E.Shibuya, Y.Inomata, Y.Sakamoto, Y.Kawakami, H.Nakaizumi, K.Sasaki: Higher-order aberrations in transparent crystalline lens Japanese eye, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0970I003 N.Fujita, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, N.Yamamoto, Y.Kawakami, K.Nagai, H.Nakaizumi, K.Sasaki: Comparison of myopia induced by retinopathy and nuclear cataract, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0970I004 M.Fukuda, H.Sasaki, N.Takahashi, M.Yoshikawa, M.Kojima, K.Kitagawa, Y.Sakamoto, K.Sasaki: Development of technique to measure corneal resistance that can be used to evaluate corneal injury, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0970I005 H.Kawada, M.Kojima, Y.Yamashiro, M.Fukuda, T.Kimura, S.Natori, K.Sasaki, H.Sasaki: Protective effect of topical 5-S-GAD on UV-B induced cataract in rats, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0970I006 Y.Kawakami, H.Sasaki, Y.Sakamoto, M.Kojima, J.Qu, Z.Lu, J.Zhang, K.Sasaki: Prevalence of pseudoexfoliation in China, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
- 0970I007 J.Qu, H.Sasaki, Y.Sakamoto, H.Nakaizumi, Y.Kawakami, K.Nagai, K.Sasaki: Influence of capsular capture of intraocular lens on ocular higher-order wavefront aberration, Association for Research in Vision and Ophthalmology, (Florida, '08.04).
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- 0970I009 M.Kojima, T.Sakai, Y.Suzuki, Y.Yamashiro, Y.Sakamoto, Y.Kawakami, S.Watanabe, M.Taki, K.Sasaki, H.Sasaki: Investigation of frequency specificity of Quasi and millimeter wave exposure through ocular temperature measurement and heat transportation, The Bioelectromagnetics in Society 30th Annual Meeting, (San Diego, '08.06).
- 0970I010 H.Osada, Y.Yamashiro, R.Honda, Y.Sakamoto, K.Nagai, Y.Kawakami, K.Sasaki, H.Sasaki: Posterior capsule opacification in rural areas of China, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0970I011 H.Sasaki: High order aberration of phakic and pseudophakic eyes, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society Clinical Workshop, (Xi'an, '08.09).
- 0970I012 J.Qu, H.Sasaki, Y.Kawakami, Y.Sakamoto, M.Kojima, J.Zhou, K.Wu, J.Zhang, R.Honda, K.Sasaki: Effect factors of lens thickness, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society Clinical Workshop, (Xi'an, '08.09).

- 0970I013 K.Nagai, H.Sasaki, R.Honda, M.Kojima, K.Sasaki, F.Jonasson, M.Ono: Lens thickness by three main types of cataract, The 7th Asina Cataract Research Conference in Conjunction with Cataract satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).
- 0970I014 M.Fukuda, H.Sasaki: Vitreous and aqueous penetration of orally and topically administered moxifloxacin, International Society of Ocular Toxiology 11th Congress ISOT 2008, (September, '08.09).
- 0970I015 Y.Sakamoto, H.Sasaki, E.Shibuya, N.Yamamoto, Y.Inomata, M.Tarura, K.Sasaki: Visible light absorption band of spectacle lens and contrast sensitivity function, The 7th Asian Cataract Research Conference in Conjunction with Cataract Satellite Meeting of the 18th International Conference for Eye Research and the 11th Conference of Chinese Cataract Society, (Xi'an, '08.09).

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Keywords of Research

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

Outline of Research

Mission of Center for FDD-MB

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

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Kanazawa Medical University
Research Activities and Publications 2008

Published December, 2009

Issuer : Yuichi Yamada

Editor: Takayuki Nojima

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 : HASHIMOTO KAKUBUNDO Co., LTD
