

Kanazawa Medical University
Research Activities and Publications

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Basic Medical Science

0100 Department of Anatomy I

Faculty

Title	Name	Field of Specialization
Professor	HATTA Toshihisa	developmental biology, neuroscience
Professor	HIGASHI Nobuaki	macroscopic anatomy, embryology
Associate Professor	SAKATA Hiromi	Developmental toxicology
Associate Professor (Additional Post)	SHIMADA Hiroki	Medical science of free radical
Assistant Professor	TSUKADA Tsuyoshi	Developmental biology, Neuroscience, Neurosurgery
Assistant Professor	MASUDA Natsumi	Hematology

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 (Kazunori Matsuda), Tadashi Kitahara, Taeko Ito, Munehisa Fukushima, Junya Fukuda, Go Sato, Yoshiaki Kitamura, Koji Abe, Atsuhiko Uno, Koichi Tomita, Hiromi Sakata-Haga, Yoshihiro Fukui, Noriaki Takeda: A new immunohistochemical method to evaluate the development of vestibular compensation after unilateral labyrinthectomy in rats, 139: 505-510, 2019.
- 0100B002 Takuya Noda, Hideaki Shiga, Kentaro Yamada, Masayuki Harita, Yukari Nakamura, Tomoko Ishikura, Masami Kumai, Zenji Kawakami, Atsushi Kaneko, Toshihisa Hata, Hiromi Sakata-Haga, Hiroki Shimada, Takaki Miwa: Effects of tokishakuyakusan on regeneration of murine olfactory neurons in vivo and in vitro, Chemical Senses, 44: 5; 327-338, 2019.

Reviews

- 0100C001 Tsuyoshi Tsukada, Hiroki Shimada, Hiromi Sakata-Haga, Hideaki Iizuka, Toshihisa Hata: Molecular mechanisms underlying the models of neurodevelopmental disorders in maternal immune activation relevant to the placenta, Congenital anomalies, 59: 81-87, 2019.

Presentations at Conference

International Conference (Presentations)

- 0100I001 Yukari Nakamura, Hideaki Shiga, Toshihisa Hatta, Hiromi Sakata, Hideaki Ninomiya, Takaki Miwa: The effect of the neuroblast in the brain with intranasal administration of IGF-1, Rhinoworld Chicago 2019, Chicago, 2019.
- 0100I002 (Nobuo Kariyama), Hiromi Sakata-Haga, Tsuyoshi Tsukada, Hiroki Shimada, Toshihisa Hatta: Rapid bone staining procedure for adult mice, Asian Confederation of Orthopaedic Manipulative Physical Therapy Congress 2019 Tokyo, Tokyo, 2019.09.

0110 Department of Anatomy II

Faculty

Title	Name	Field of Specialization
Professor	HONMA Satoru	gross anatomy
Associate Professor	ITO Tetsufumi	neuroanatomy
Assistant Professor	TANAKA Takashi	neuroanatomy
Assistant Professor	KOMINAMI Rieko	neuroanatomy
Assistant Professor	KAGAYA Miyuki	gross anatomy

Keywords of Research

arthrology, osteology, clinical anatomy, development, lymphatic vessels, muscle, innervation, nerve, ontogenesis, immunohistochemistry, electron microscopy, hippocampus, reconstruction, vascularization, Neuroanatomy, BMI

Outline of Research

Theme of researches

1) Human gross anatomy

2) Functional organization of auditory system

3) Reconstruction of neural circuits after brain injury

4) Tissue reconstruction and vascularization of human hippocampus

Books

0110A001 Tetsufumi Ito, Munenori Ono, Douglas L Oliver: Neuron Types, Intrinsic Circuits, and Plasticity in the Inferior Colliculus, *The Oxford Handbook of the Auditory Brainstem* (Karl Kandler), 1–26, Oxford University Press, Oxford, 2019.

Publications

Originals

0110B001 (Akimichi Takemura), Mamoru Uemura, Wataru Kawashima, Isumi Toda, Kotaro Moriue, Takamitsu Arakawa, Rieko Kominami, Satoru Honma: Microvascular architecture of the filiform papillae of the lingual dorsum in the lion (*Panthera leo*), *Journal of Osaka Dental University*, 53: 1; 95–102, 2019.

0110B002 (Nakanishi Toru), Fujita Yuki, Tanaka Takashi, Yamashita Toshihide: Anti-repulsive guidance molecule—a antibody treatment and repetitive transcranial magnetic stimulation have synergistic effects on motor recovery after spinal cord injury, *Neuroscience letters*, 709: 134329, 2019.

0110B003 Ito Tetsufumi, Yamamoto Ryo, Furuyama Takafumi, Hase Kazuma, Kobayasi Kohta I, Hiryu Shizuko, Honma Satoru: Three forebrain structures directly inform the auditory midbrain of echolocating bats, *Neuroscience letters*, 712: 134481, 2019.

0120 Department of Physiology I

Faculty

Title	Name	Field of Specialization
Professor	KATO Nobuo	Brain Science
Associate Professor	ONO Munenori	Neuroscience
Senior Assistant Professor	YAMAMOTO Ryo	Neuroscience

Keywords of Research

central nervous system, neurophysiology, electrophysiology, immunohistochemistry, field potential, propagating signal, horizontal propagation, oscillation, rat, guinea pig, slice preparation, in vitro, voltage-sensitive dye, subdivision, intracellular recording, intracellular staining, Neuroethology, Behavioral test battery, BK channel

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.

Books

- 0120A001 Tetsufumi Ito, Munenori Ono, Douglas L Oliver: Neuron Types, Intrinsic Circuits, and Plasticity in the Inferior Colliculus, The Oxford Handbook of the Auditory Brainstem (Karl Kandler), 1-26, Oxford University Press, Oxford, 2019.

Publications

Originals

- 0120B001 (Ueta Yoshifumi), Yamamoto Ryo, Kato Nobuo: Layer-specific modulation of pyramidal cell excitability by electroconvulsive shock, NEUROSCIENCE LETTERS, 709: 134383, 2019.
- 0120B002 Tajima Nobuyoshi, Liu Xiaoyan, Taniguchi Makoto, Kato Nobuo: 24S-hydroxycholesterol alters activity of large-conductance Ca²⁺-dependent K⁺ (slo1 BK) channel through intercalation into plasma membrane, BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS, 1864: 10; 1525-1535, 2019.
- 0120B003 Ito Tetsufumi, Yamamoto Ryo, Furuyama Takafumi, Hase Kazuma, Kobayashi Kohta I, Hiryu Shizuko, Honma Satoru: Three forebrain structures directly inform the auditory midbrain of echolocating bats, Neuroscience letters, 712: 134481, 2019.

Presentations at Conference

International Conference (Presentations)

0120I001 Munenori Ono: Excitatory and inhibitory neural circuits in the auditory midbrain, FAOPS2019, kobe, 2019.

0130 Department of Physiology II

Faculty

Title	Name	Field of Specialization
Professor	KURATA Yasutaka	Cardiac Electrophysiology
Professor	SHIBAMOTO Toshishige	Circulatory Physiology
Associate Professor	TANIDA Mamoru	Circulatory Physiology
Associate Professor	TSUMOTO Kunichika	Cardiac Electrophysiology
Senior Assistant Professor	KUDA Yuhichi	Circulatory Physiology

Keywords of Research

physiology, circulatory shock, systemic anaphylaxis, pulmonary circulation, pulmonary edema, cardiac electrophysiology, ion channels, pacemaker mechanisms, cardiac arrhythmias, biological pacemaker, mathematical modeling, bifurcation analysis, nonlinear dynamics, computer simulation, sympathetic nervous system, smooth muscle, vascular electrophysiology, artery, vein

Outline of Research

Our works widely cover the area of cardiovascular physiology and autonomic nervous system. We are particularly interested in the mechanisms of regulations of organ circulation under normal and anaphylactic conditions, and the mechanisms of cardiac automaticity and arrhythmias as well as their regulations. We also explored the possible roles of pacemaker currents in robust pacemaking and driving of biological pacemakers, and dynamical mechanisms of early afterdepolarizations in long QT syndrome. We also aim to elucidate the central mechanisms for autonomic regulations of appetite-related hormones and circulatory shock.

Publications

Originals

- 0130B001 Tao Zhang, Toshishige Shibamoto, Mamoru Tanida, Yuhichi Kuda, Wei Yang, Yasutaka Kurata: Tonic contraction develops in the colon during anaphylactic hypotension in anesthetized rats, *Journal of Physiological Sciences*, 69: 953–960, 2019.
- 0130B002 Tanida M, Iwasaki Y, Yamamoto N: Central injection of leptin increases sympathetic nerve outflows to the stomach and spleen in anesthetized rats, *In Vivo*, 33: 6; 1827–1832, 2019.
- 0130B003 (Yonemizu Sayaka), Masuda Keiichiro, Kurata Yasutaka, Notsu Tomomi, Higashi Yuhei, Fukumura Kenta, Li Peili, Ninomiya Haruaki, Miake Junichiro, Tsuneto Motokazu, Shirayoshi Yasuaki, Hisatome Ichiro: Inhibitory effects of class I antiarrhythmic agents on Na⁺ and Ca²⁺ currents of human iPS cell-derived cardiomyocytes, *Regenerative Therapy*, 10: 104–111, 2019.
- 0130B004 (Kazuharu Furutani), Kunichika Tsumoto, I-Shan Chen, Kenichiro Handa, Yuko Yamakawa, Jon T. Sack, Yoshihisa Kurachi: Facilitation of IKr current by some hERG channel blockers suppresses early afterdepolarizations, *Journal of General Physiology*, 151: 2; 214–230, 2019.

- 0130B005 (Taufiq Fikri), Maharani Nani, Li Peili, Kurata Yasutaka, Ikeda Nobuhito, Kuwabara Masanari, Otani Naoyuki, Miake Junichiro, Hasegawa Akira, Tsuneto Motokazu, Shirayoshi Yasuaki, Ninomiya Haruaki, Saitoh Tatsuya, Nakai Akira, Yamamoto Kazuhiro, Hisatome Ichiro: Uric acid-induced enhancements of Kv1.5 protein expression and channel activity via the Akt-HSF1-Hsp70 pathway in HL-1 atrial myocytes, *Circulation Journal*, 83: 4; 718-726, 2019.
- 0130B006 (Eri Ioka), Kunichika Tsumoto, Hiroyuki Kitajima: Synchronous firing frequency dependence in unidirectional coupled neuronal networks with chemical synapses, *Neurocomputing*, 350: 202-211, 2019.
- 0130B007 Kuda Y, Tanida M, Chen F, Kurata Y, Shibamoto T: Anaphylaxis stimulates afferent vagal nerve activity and efferent sympathetic nerve activity in the stomach of anesthetized rats, *American Journal of Physiology-Regulatory Integrative and Comparative Physiology*, 317: R337-R345, 2019.
- 0130B008 (Adachi Maya), Watanabe Mai, Kurata Yasutaka, Inoue Yumiko, Notsu Tomomi, Yamamoto Kenshiro, Horie Hiromu, Tanno Shogo, Morita Maki, Miake Junichiro, Hamada Toshihiro, Kuwabara Masanari, Nakasone Naoe, Ninomiya Haruaki, Tsuneto Motokazu, Shirayoshi Yasuaki, Yoshida Akio, Nishimura Motonobu, Yamamoto Kazuhiro, Hisatome Ichiro: β -Adrenergic blocker, carvedilol, abolishes ameliorating actions of adipose-derived stem cell sheets on cardiac dysfunction and remodeling after myocardial infarction, *Circulation Journal*, 83: 11; 2282-2291, 2019.

Reviews

- 0130C001 (Shinichi Uchida), Yoshiyuki Asai, Yoshiaki Kariya, Kunichika Tsumoto, Hiroshi Hibino, Masashi Honma, Takeshi Abe, Fumiaki Nin, Yasutaka Kurata, Kazuharu Furutani, Hiroshi Suzuki, Hiroaki Kitano, Ryuji Inoue, Yoshihisa Kurachi: Integrative and theoretical research on the architecture of a biological system and its disorder, *Journal of Physiological Sciences*, 69: 433-451, 2019.

Presentations at Conference

International Conference (Presentations)

- 0130I001 Kunichika Tsumoto, Takashi Ashihara, Yasutaka Kurata, Yoshihisa Kurachi: Reflected conduction caused by subcellular sodium channel redistributions, 9th Federation of the Asian and Oceanian Physiological Societies (FAOPS) congress in conjunction with The 96th Annual Meeting of the Physiological Society of Japan, Kobe, 2019.
- 0130I002 Kuda Yuichi, Tanida Mamoru, Kurata Yasutaka, Shibamoto Toshishige: Effects of anaphylaxis on the gastric autonomic nerve activities in anesthetized rats, 9th Federation of the Asian and Oceanian Physiological Societies (FAOPS) congress in conjunction with The 96th Annual Meeting of the Physiological Society of Japan, Kobe, 2019.03.
- 0130I003 Mamoru Tanida: Sympathetic regulation in anaphylactic shock or feeding suppression, 9th Federation of the Asian and Oceanian Physiological Societies (FAOPS) congress in conjunction with The 96th Annual Meeting of the Physiological Society of Japan, Kobe, 2019.03.
- 0130I004 Toshishige Shibamoto, Tao Zhang, Mamoru Tanida, Yuhichi Kuda, Yasutaka Kurata: Angiotensin-2 is released only at late phase of systemic anaphylaxis in awake rats, The 2019 American Academy of Allergy Asthma & Immunology Annual Meeting, San Francisco, 2019.
- 0130I005 Yasutaka Kurata, Kunichika Tsumoto, Mamoru Tanida, Yuichi Kuda, Ichiro Hisatome: Dynamical mechanisms of phase-2 early afterdepolarizations in human ventricular myocyte models, FAOPS2019, Kobe, 2019.
- 0130I006 Fu Chen, Mamoru Tanida: Ethanol injection differently activates autonomic nerve activity in anesthetized rats: 9th Federation of the Asian and Oceanian Physiological Societies (FAOPS) congress in conjunction with The 96th Annual Meeting of the Physiological Society of Japan, Kobe, 2019.03.

0140 Department of Biochemistry I

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0140B001 Koichi Okuda, Naoto Watanabe, Mitsumasa Hashimoto, Mariko Doai, Yasuyuki Kawai, Tomoko Takahashi, Tomohiro Arikawa, Kazumasa Ooiso, Yumi Sunatani, Kuniyoshi Iwabuchi, Koji Kajinami, Munetaka Matoba: Preliminary quantitative evaluation of radiation-induced DNA damage in peripheral blood lymphocytes after cardiac dual-isotope imaging, *Applied Radiation and Isotopes*, 154: 108890, 2019.

0150 Department of Biochemistry II

Faculty

Title	Name	Field of Specialization
Professor	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Associate Professor	IKEDA Takayuki	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Senior Assistant Professor	YOSHITOMI Yasuo	Molecular mechanisms of angiogenesis and vasculogenesis
Assistant Professor	TAKATSUJI-SAITO Hidehito	neuroscience, molecular biology, regenerative medicine

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 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 0150B002 Yang Fan, Takagaki Yuta, Yoshitomi Yasuo, Ikeda Takayuki, Li Jinpeng, Kitada Munehiro, Kumagai Asako, Kawakita Emi, Shi Sen, Kanasaki Keizo, Koya Daisuke: Inhibition of Dipeptidyl Peptidase-4 Accelerates Epithelial-Mesenchymal Transition and Breast Cancer Metastasis via the CXCL12/CXCR4/mTOR Axis, *Cancer research*, 79: 4; 735-746, 2019.

0160 Department of Pharmacology

Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Kinetics of NO(nitric oxide)-related compounds in cardiovascular system
Associate Professor	MASUOKA Takayoshi	Electrophysiology and behavioural pharmacology in central and peripheral nervous system
Senior Assistant Professor	TAWA Masashi	Cardiovascular pharmacology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0160B001 Masashi Tawa, Yoko Yano, Masaki Yamanaka, Tatsuya Sawano, Kana Iesaki, Yuka Murata, Ryosuke Tanaka, Keisuke Nakagawa, Mamoru Ohkita, Yasuo Matsumura: Effects of Beet Juice Supplementation on Monocrotaline-Induced Pulmonary Hypertension in Rats, *American journal of hypertension*, 32: 2; 216-222, 2019.
- 0160B002 Takayoshi Masuoka, Junsuke Uwada, Makiko Kudo, Hatsumi Yoshiki, Yuka Yamashita, Takanobu Taniguchi, Matomo Nishio, Takaharu Ishibashi, Ikunobu Muramatsu: Augmentation of endogenous acetylcholine uptake and cholinergic facilitation of hippocampal long-term potentiation by acetylcholinesterase inhibition, *Neuroscience*, 404: 39-47, 2019.
- 0160B003 Masashi Tawa, Yuka Yamashita, Takayoshi Masuoka, Katsuya Nakano, Junko Yoshida, Matomo Nishio, Takaharu Ishibashi: Responsiveness of rat aorta and pulmonary artery to cGMP generators in the presence of thiol or heme oxidant, *Journal of Pharmacological Sciences*, 140: 1; 43-47, 2019.
- 0160B004 Ikunobu Muramatsu, Junsuke Uwada, Hatsumi Yoshiki, Kiyonao Sada, Kung-Shing Lee, Takashi Yazawa, Takanobu Taniguchi, Matomo Nishio, Takaharu Ishibashi, Takayoshi Masuoka: Novel regulatory systems for acetylcholine release in rat striatum and anti-Alzheimer's disease drugs, *Journal of Neurochemistry*, 149: 5; 605-623, 2019.
- 0160B005 Takayoshi Masuoka, Ryo Ikeda, Shiro Konishi: Persistent activation of histamine H1 receptors in the hippocampal CA1 region enhances NMDA receptor-mediated synaptic excitation and long-term potentiation in astrocyte- and D-serine-dependent manner, *Neuropharmacology*, 151: 64-73, 2019.

0160B006 Masashi Tawa, Takashi Shimosato, Hiroshi Sakonjo, Takayoshi Masuoka, Matomo Nishio, Takaharu Ishibashi, Tomio Okamura: Chronological change of vascular reactivity to cGMP generators in the balloon-injured rat carotid artery, Journal of Vascular Research, 56: 109-116, 2019.

Presentations at Conference

International Conference (Presentations)

0160I001 Masashi Tawa, Tomio Okamura, Takayoshi Masuoka, Matomo Nishio, Takaharu Ishibashi: Differences in the response to BAY 60-2770 among various isolated monkey arteries, 9th International Conference on cGMP, Mainz, 2019.

0170 Department of Pathology I

Faculty

Title	Name	Field of Specialization
Professor	KIYOKAWA Etsuko	Experimental Pathology, Fluorescent Imaging
Assistant Professor	FUJIOKA Masaki	Toxicologic Pathology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0170B001 (Tominaga K), Minato H, Murayama T, Sasahara A, Nishimura T, Kiyokawa E, Kanauchi H, Shimizu S, Sato A, Nishioka K, Tsuji E, Yano M, Ogawa T, Ishii H, Mori M, Akashi K, Okamoto K, Tanabe M, Tada K, Tojo A, Gotoh N: Semaphorin signaling via MICAL3 induces symmetric cell division to expand breast cancer stem-like cells, Proceedings of the National Academy of Sciences of the United States of America, 116: 625–630, 2019.
- 0170B002 Akane Aikawa, Hideto Fujita, Takeo Kosaka, Hiroshi Minato, Etsuko Kiyokawa: Clinicopathological significance of heterogeneous Ezrin expression in poorly differentiated clusters of colorectal cancers, Cancer Science, 110: 2667–2675, 2019.

Reviews

- 0170C001 (Hirata Eishu), Kiyokawa Etsuko: ERK Activity Imaging During Migration of Living Cells In Vitro and In Vivo, International journal of molecular sciences, 20: 3; 679, 2019.

Presentations at Conference

International Conference (Presentations)

- 0170I001 Etsuko Kiyokawa: Active K-RAS induces the rotation of epithelial cells : A model for collective cell invasion in vitro, Keystone Symposia: Cancer Metastasis: The Role of Metabolism, Immunity and the Microenvironment, Florence, 2019.
- 0170I002 Tepei Shibata, Shinsuke Shibata, Dharendra P. Singh, Etsuko Kiyokawa, Masahito Ikawa, Hiroshi Sasaki, Eri Kubo: Age-related changer of the lens in Tropomyosin 1 conditional knockout mice, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0170I003 Eri Kubo, Tepei Shibata, Shinsuke Shibata, Dharendra P Singh, Etsuko Kiyokawa, Yasuhito Ishigaki, Masahito Ikawa, Hiroshi Sasaki: Effect of tropomyosin 1 knockout in lens development and fiber differentiation, The 6th International Conference on the Lens, Kailua Kona, 2019.

0180 Department of Pathology II

Faculty

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

Keywords of Research

lung carcinoma, bone and soft tissue tumor, metastasis, invasion, apoptosis, diagnostic histopathology, phospholipid, regeneration of cartilage, steroid induced femoral neurosis, mesenchymal stem cell, 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 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.
2. Molecular pathological diagnosis by FISH using probes origination from BAC clones and RT-PCR methods.
3. 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.

Publications

Originals

- 0180B001 Usuda Katsuo, Iwai Shun, Funasakr Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-weighted magnetic resonance imaging is useful for the response evaluation of chemotherapy and/or radiotherapy to recurrent lesions of lung cancer, *Translational Oncology*, 12: 5; 699-704, 2019.
- 0180B002 Yasuto Tomita, Takahiro Domoto, Yoshimichi Ueda, Toshinari Minamoto, Takeo Kosaka: Expression of coding region determinant-binding protein (CRD-BP) in colorectal cancer and its influence on target gene expression and clinical characteristics, *Journal of Kanazawa Medical University*, 44: 1; 32-42, 2019.
- 0180B003 Usuda Katsuo, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-Weighted Imaging Can Differentiate between Malignant and Benign Pleural Diseases, *Cancers*, 11: 811, 2019.
- 0180B004 Kaori Kinoshita, Nobuyuki Toshikuni, Takashi Saito, Nobuhiko Hayashi, Takahiro Minato, Yasuhiro Matsue, Yoshimichi Ueda, Mutsumi Tsuchishima, Mikihiro Tsutsumi: The combination of fatty liver and increased gamma-glutamyl transpeptidase levels as a risk factor for atherosclerotic plaque development in apparently healthy people, *Turkish Journal of Medical Scences*, 49: 1350-1357, 2019.
- 0180B005 Yuki Hirakawa, Mutsumi Tsuchishima, Atsushi Fukumura, Kaori Kinoshita, Nobuhiko Hayashi, Takashi Saito, Joseph George, Toshikuni Nobuyuki, Ueda Yoshimichi, Tsutsumi Mikihiro: Recombinant thrombomodulin prevented hepatic ischemia-reperfusion injury by inhibiting high-mobility group box 1 in rats, *European Journal of Pharmacology*, 863: 172681, 2019.

Case Reports

- 0180D001 Takahara Yutaka, Sakuma Takashi, Nishiki Kazuaki, Nakase Keisuke, Nojiri Masafumi, Ueda Yoshimichi, Mizuno Shiro: Primary pulmonary T-cell lymphoma with lung adenocarcinoma: a case report, *Journal of medical case reports*, 13: 199, 2019.
- 0180D002 Yuki Tsujiguchi, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Katsuaki Sato, Hidetaka Uramoto: A resected case of invasive thymoma successfully treated with preoperative steroid pulse therapy, *The Hokuriku Journal of Surgery*, 38: 1; 5-8, 2019.

0190 Department of Microbiology

Faculty

Title	Name	Field of Specialization
Professor	HIGUCHI Masaya	Virology, Hematology, Oncology, Cellular biology
Associate Professor	HIMEDA Toshiki	Neurovirology
Assistant Professor	OKUWA Takako	Neurovirology
Assistant Professor	UTANI Koh-ichi	Cellular biology

Keywords of Research

Ubiquitin specific peptidase 10, Theiler's virus, Saffold virus,

Outline of Research

Functional analysis of the deubiquitinating enzyme USP10 in stress response and innate immunity. Mechanism of persistent infection and pathogenesis of Theilovirus (Theiler's virus and Saffold virus).

0200 Department of Immunology

Faculty

Title	Name	Field of Specialization
Professor	ONAI Nobuyuki	Immunology, Hematology
Professor (Additional Post)	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Senior Assistant Professor	YABE-WADA Toshiki	Immunology, Functional biochemistry, Structural biochemistry
Assistant Professor	MATSUBA Shintaro	Immunological pharmacology
Assistant Professor	SAITO Fumiji	Immunology, Microbiology

Keywords of Research

The origin, development, and function of mononuclear phagocytes, Dendritic cells, Monocytes/Macrophages, Allergic effector cells, Innate immune responses, Cytokines

Outline of Research

Our research is focused on the regulation mechanisms of various immune responses. In the years, we have characterized several proteins that are involved in cytokine trafficking and the regulation of serine protease activity using mouse models. Specific areas of interest include; The origin, development, and function of mononuclear phagocytes (dendritic cells, monocytes, and macrophages). The regulation of cytokine production from innate immune cells. The role of endogenous serine protease inhibitors in allergic effector cells.

0210 Department of Medical Zoology

Faculty

Title	Name	Field of Specialization
Associate Professor	MURAKAMI Manabu	Infection-mediated arthropod
Associate Professor (Additional Post)	TASAKI Takafumi	Protein regulation by the post-translational modifications and its underlying molecular mechanisms
Senior Assistant Professor	OIKAWA Yosaburo	diagnosis of parasitic disease, tick-borne disease

Keywords of Research

parasite, cysticercosis, tick born disease, immunodiagnosis, antigen purification, circulating antigen, excretory/secretory products, IgE antibody, molecular biological diagnosis, cysteine proteinase, Acanthamoeba, atopic dermatitis, mite, Myobia musculi, Leptotrombidium, Japanese encephalitis Virus, mosquito, Culex tritaeniorhynchus, Culex tritaeniorhynchus, Aedes albopictus

Outline of Research

The main subjects of our department are as follows:

1. Development of immunological and molecular biological diagnosis of parasitic diseases.
2. Epidemiological research of tick-born diseases in the Noto Peninsula, Ishikawa Prefect.
3. Investigation of mosquito situation around the pipen in Ishikawa prefecture, and JE virus distribution.

Publications

Originals

- 0210B001 Masami Kojima, Cheng-Yu Tsai, Yukihiisa Suzuki, Kensuke Sasaki, Takafumi Tasaki, Masao Taki, Soichi Watanabe, Hiroshi Sasaki: Ocular Response to Millimeter Wave Exposure Under Different Levels of Humidity, Journal of Infrared, Millimeter, and Terahertz Waves, 40: 5; 574-584, 2019.
- 0210B002 Takafumi Tasaki, Masami Kojima, Yukihiisa Suzuki, Yoshinori Tatematsu, Hiroshi Sasaki: Creating a Stable Short-term Housing Environment for Rabbits in a Cargo Van, Journal of American Association for Laboratory Animal Science, 58: 4; 456-461, 2019.

Presentations at Conference

International Conference (Symposium)

- 0210H001 (Suzuki Y), Kojima M, Okuno T, Takamura M, Hada A, Tasaki T, Tatematsu Y, Fukunari M, Mizuno M, Tani M, Sasaki H: Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages, The 7th International Workshop on Far-Infrared Technologies, Fukui, 2019.
- 0210H002 (Masahiko Tani), Yoshinori Tatematsu, Maya Mizuno, Yukihiisa Suzuki, Masami Kojima, Takafumi Tasaki, Hideaki Kitahara, Masafumi Fukunari: Investigation on Influence of Terahertz Wave Irradiation to Living Organisms by Using THz Gyrotron and THz Time-Domain Spectroscopy, EMC Sapporo & APEMC 2019, Sapporo, 2019.

International Conference (Presentations)

- 0210I001 M.Kojima, Y.Suzuki, T.Tasaki, Y.Tatematsu, M.Fukunari, M.tani, H.Sasaki: Ocular damage threshold to millimeter wave (162GHz) exposure, IWFIRT2019, Fukui, 2019.
- 0210I002 (M.Tani), Y.Tatematsu, H.Kitahara, M.Fukunari, M.Mizuno, Y.Suzuki, M.Kojima, T.Tasaki: Terahertz Wave Sources and Their Applications – With Some Topics on Influence of THz Wave Irradiation to Living Organisms–, EMC Sapporo&APEMC2019, Sapporo, 2019.
- 0210I003 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Toshinori Tatematsu, Masafumi Fukunari, Maya Misuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Investigation of the thresholds for ocular damage caused by MMW exposure from 30GHz to 160GHz by experimental and numerical approach, URSI-JRSM 2019, Tokyo, 2019.
- 0210I004 (Yoon Jee Lee), Sung Tae Kim, Joonsung Hwang, Takafumi Tasaki, Bo Yeon Kim, Yong Tae Kwon: The N-recognin UBR4 of the N-degron pethway is required for endosomal maturation and trafficking, 1st Annual meeting of the International Society of Protein Termini(ISPT)–Protein Termini2019, Soul, 2019.

0220 Department of Pathology and Laboratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	YAMADA Sohsuke	Experimental pathology
Associate Professor	KUROSE Nozomu	surgical pathology, molecular pathology
Assistant Professor	SHIOYA Akihiro	Surgical pathology
Assistant Professor	GUO Xin	Experimental 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

Since atherosclerosis and its complications account for approximately up to 30% of cause of human death in the whole world, it is very critical to overcome this issue from the economical as well as medical aspects. I first focused on the histopathological viewpoints that the initiation to progression of atherosclerosis basically depends on inflammatory response. In order to elucidate its mechanism, I have thoroughly performed the in vivo experiments together with the extensively morphological to biochemical and molecular analyses from the wide view, by using various genetically modified animal models of mice or rabbits. Furthermore, I recently aim to multidimensionally and comprehensively re-evaluate these chronic inflammatory diseases including some kinds of malignancy, via overlooking the entity of metabolic syndrome, manifesting as not only atherosclerosis but diabetes mellitus (DM) or non-alcoholic steatohepatitis (NASH).

Publications

Originals

- 0220B001 Satoko Nakada, Yasuo Sasagawa, Osamu Tachibana, Hideaki Iizuka, Nozomu Kurose, Akihiro Sioya, Xin Guo, Sohsuke Yamada, Takayuki Nojima: The clinicopathological analysis of receptor tyrosine kinases in meningiomas: the expression of VEGFR-2 in meningioma was associated with a higher WHO grade and shorter progression-free survival, *Brain Tumor Pathology*, 36: 1; 7-13, 2019.
- 0220B002 Kurose Nozomu, Mizutani Ken-Ichi, Kumagai Motona, Shioya Akihiro, Guo Xin, Nakada Satoko, Fujimoto Shino, Kawabata Hiroshi, Masaki Yasufumi, Takai Kazue, Aoki Sadao, Kojima Masaru, Nakamura Shigeo, Kida Masatoshi, Yamada Sohsuke: An extranodal histopathological analysis of idiopathic multicentric Castleman disease with and without TAFRO syndrome, *PATHOLOGY RESEARCH AND PRACTICE*, 215: 3; 410-413, 2019.
- 0220B003 Mariko Doai, Hisao Tonami, Munetaka Matoba, Osamu Tachibana, Hideaki Iizuka, Satoko Nakada, Sohsuke Yamada: Pituitary macroadenoma: Accuracy of apparent diffusion coefficient magnetic resonance imaging in grading tumor aggressiveness, *The Neuroradiology Journal*, 32: 2; 86-91, 2019.
- 0220B004 Usuda Katsuo, Iwai Shun, Funasakr Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-weighted magnetic resonance imaging is useful for the response evaluation of chemotherapy and/or radiotherapy to recurrent lesions of lung cancer, *Translational Oncology*, 12: 5; 699-704, 2019.
- 0220B005 Usuda Katsuo, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-Weighted Imaging Can Differentiate between Malignant and Benign Pleural Diseases, *Cancers*, 11: 811, 2019.

- 0220B006 Kenichi Mizutani, Xin Guo, Akihiro Shioya, Jing Zhang, Jianbo Zheng, Nozomu Kurose, Hiroaki Ishibashi, Nozomu Motono, Hidetaka Uramoto, Sohsuke Yamada: The impact of PRDX4 and the EGFR mutation status on cellular proliferation in lung adenocarcinoma, *International journal of medical sciences*, 16: 9; 1199–1206, 2019.
- 0220B007 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Kazue Takai, Sadao Aoki, Junya Kuroda, Makoto Ide, Keigo Setoguchi, Norifumi Tsukamoto, Haruka Iwao–Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Yasufumi Masaki: Is TAFRO syndrome a subtype of idiopathic multicentric Castleman disease?, *American Journal of Hematology*, 94: 9; 975–983, 2019.
- 0220B008 Kurose Nozomu, Guo Xin, Shioya Akihiro, Mizutani Ken–Ichi, Kumagai Motona, Fujimoto Shino, Kawabata Hiroshi, Masaki Yasufumi, Takai Kazue, Aoki Sadao, Nakamura Shigeo, Yamada Sohsuke: The potential role of follicular helper T cells in idiopathic multicentric Castleman disease with and without TAFRO syndrome, *Pathology, research and practice*, 215: 10; 152563, 2019.
- 0220B009 Atsushi Sekimura, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Sohsuke Yamada, Hidetaka Uramoto, Munetaka Matoba: Sugical resection of lung cancer with interstitial pneumonia:short–term outcomes, *Journal of kanazawa medical university*, 44: 63–67, 2019.
- 0220B010 Yasufumi Masaki, Hiroshi Kawabata, Shino Fujimoto, Mitsuhiro Kawano, Noriko Iwaki, Takeharu Kotani, Akikatsu Nakashima, Nozomu Kurose, Kazue Takai, Ritsuro Suzuki, Sadao Aoki: Epidemiological analysis of multicentric and unicentric Castleman disease and TAFRO syndrome in Japan, *Journal of clinical and experimental hematopathology*, 59: 4; 175–178, 2019.
- 0220B011 Meng X, Guo X, Zhang J, Moriya J, Kobayashi J, Yamaguchi R, Yamada S: Acupuncture on ST36, CV4 and KI1 Suppresses the Progression of Methionine– and Choline–Deficient Diet–Induced Nonalcoholic Fatty Liver Disease in Mice, *Metabolites*, 9: 12; 299, 2019.
- 0220B012 (Tetsuya Hanaka), Takashi Kido, Shingo Noguchi, Sohsuke Yamada, Hirotosugu Noguchi, Xin Guo, Aya Nawata, Ke–Yong Wang, Keishi Oda, Tsutomu Takaki, Hiroto Izumi, Hiroshi Ishimoto, Kazuhiro Yatera, Hiroshi Mukae: The overexpression of peroxiredoxin–4 affects the progression of idiopathic pulmonary fibrosis, *BMC Pulmonary Medicine*, 19: 1; 265, 2019.
- 0220B013 Motona Kumagai, Xin Guo, Ke–Yong Wang, Hiroto Izumi, Manabu Tsukamoto, Tamiji Nakashima, Takashi Tasaki, Nozomu Kurose, Hidetaka Uramoto, Yasuyuki Sasaguri, Kimitoshi Kohno, Sohsuke Yamada: Depletion of WNT10A Prevents Tumor Growth by Suppressing Microvessels and Collagen Expression, *International journal of medical sciences*, 16: 3; 416–423, 2019.

Reviews

- 0220C001 (Li M), Hirano KI, Ikeda Y, Higashi M, Hashimoto C, Zhang B, Kozawa J, Sugimura K, Miyauchi H, Suzuki A, Hara Y, Takagi A, Ikeda Y, Kobayashi K, Futsukaichi Y, Zaima N, Yamaguchi S, Shrestha R, Nakamura H, Kawaguchi K, Sai E, Hui SP, Nakano Y, Sawamura A, Inaba T, Sakata Y, Yasui Y, Nagasawa Y, Kinugawa S, Shimada K, Yamada S, Hao H, Nakatani D, Ide T, Amano T, Naito H, Nagasaka H, Kobayashi K; Japan TGCV study group: Triglyceride deposit cardiomyovascularopathy: a rare cardiovascular disorder, *Orphanet journal of rare diseases*, 14: 1; 134, 2019.

Case Reports

- 0220D001 Xin Guo, Jiro Watanabe, Kenji Takahashi, Tatsuro Hayashi, Nozomu Kurose, Yasuyuki Sasaguri, Hidetaka Uramoto, Hiromi Iwagaki, Kazuki Nabeshima, Sohsuke Yamada: Localized Malignant Pleural Mesothelioma Arising in the Interlobar Fissure: A Unique Surgical Case Masquerading Clinicopathologically as Primary Lung Adenocarcinoma, *SAGE Open Medical Case Reports*, 7: 1–5, 2019.
- 0220D002 (Sato Shuku), Teshima Shinichi, Nakamura Naoya, Ohtake Takayasu, Kikuchi Jun, Kishi Hirohisa, Nomura Kyoichi, Kurose Nozomu, Masaki Yasufumi, Tamaru Jun–Ichi: Intravascular large B–cell lymphoma involving large blood vessels, three autopsy cases, *Pathology international*, 69: 2; 97–103, 2019.
- 0220D003 Yamamoto K, Guo X, Mizutani KI, Kurose N, Kumagai M, Shioya A, Nakada S, Terauchi T, Ikeda Y, Aoki H, Kajinami K, Yamada S: Possibly Late–Onset Arrhythmogenic Right Ventricular Cardiomyopathy: Unique Triglyceride Deposition by Analysis of Lipid Contents, *Clinical Medicine Insights. Case Reports*, 12: 1179547619828715, 2019.

- 0220D004 (Watanabe J), Yamada S, Sasaguri Y, Guo X, Kurose N, Kitada K, Inagaki M, Iwagaki H: A Surgical Case of Inflammatory Myofibroblastic Tumor of the Liver: Potentially Characteristic Gross Features, *Clinical Medicine Insights. Oncology*, 13: 1179554919829498, 2019.
- 0220D005 Nozomu Kurose, Seiya Mizuguchi, Yoshiiku Ohkanemasa, Manabu Yamashita, Mariko Nakano, Xin Guo, Akane Aikawa, Satoko Nakada, Toshiyuki Sasagawa, Sohsuke Yamada: Adenosquamous carcinoma of the uterine cervix displaying tumor-associated tissue eosinophilia, *SAGE Open Medical Case Reports*, 7: 2050313X19828235, 2019.
- 0220D006 Mizuguchi S, Mizutani K, Yamashita M, Minato H, Yamada S: The potential usefulness of sputum cytology in the conclusive diagnosis of methotrexate-associated lymphoproliferative disorders: A case report, *SAGE Open Medical Case Reports*, 7: 2050313X19836017, 2019.
- 0220D007 Kiyokazu Fukui, Ayumi Kaneuji, Hiroaki Hirata, Jun-ichi Tsujioka, Akihiro Shioya, Sohsuke Yamada, Norio Kawahara: Bilateral spontaneous simultaneous femoral neck occult fracture in a middle-aged man due to osteoporosis and vitamin D deficiency osteomalacia: A case report and literature review, *International Journal of Surgery Case Reports*, 60: 358-362, 2019.
- 0220D008 Akane Aikawa, Kenichi Mizutani, Chizuru Futatsuya, Motona Kumagai, Akihiro Shioya, Satoko Nakada, Nozomu Kurose, Takayuki Nojima, Toyonori Tsuzuki, Sohsuke Yamada: Rhabdomyosarcoma arising from retroperitoneal teratoma in an infantile neurofibromatosis type 1 patient, *Pathology international*, 69: 8; 488-495, 2019.
- 0220D009 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Mariko Doai, Munetaka Matoba, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Hiroki Mizumaki, Masaki Yamaguchi, Yasufumi Masaki: Osteosarcoma Manifesting Systemic Inflammation and Histological Features Mimicking Plasma Cell-type Castleman Disease, *Internal Medicine*, 58: 17; 2555-2560, 2019.
- 0220D010 Kiyokazu Fukui, Akihiro Shioya, Yoshiyuki Tachi, Katsutaka Yonezawa, Hiroaki Hirata, Norio Kawahara: Subchondral fracture caused by unevenly stiffened meniscus after radiofrequency-assisted arthroscopic knee meniscectomy: A case report and review of the literature, *International Journal of Surgery Case Reports*, 65: 135-140, 2019.

Presentations at Conference

International Conference (Presentations)

- 0220I001 Tohru Itoh, Ken Kawaura, Sadafumi Azukisawa, Junji Kamai, Rika Kobayashi, Kazu Hamada, Hideyuki Okamura, Sachio Urashima, Sousuke Yamada, Hidekazu Kitakata: Bleeding after gastric endoscopic submucosal dissection and necessity of endoscopic examination (2nd look) on the following day, UEGW2019, Barcelona, 2019.

0230 Department of Social and Environmental Medicine

Faculty

Title	Name	Field of Specialization
Professor	ISHIZAKI Masao	Occupational Health, Job stress
Associate Professor	SAKURAI Masaru	Cardiovascular epidemiology, preventive cardiology

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 Zheng Jianbo, Nakamura Tsuneyuki, Lu Na, Hori Kaori, Oguri Masato, Sakurai Masaru, Ishizaki Masao: The radial augmentation index in children with Kawasaki disease without acute coronary artery lesions during the convalescent period, *Therapeutics and clinical risk management*, 15: 701–709, 2019.
- 0230B002 Kakuda Hirokazu, Kobayashi Junji, Sakurai Masaru, Takekoshi Noboru: Residual Effect of Sodium Glucose Cotransporter 2 Inhibitor, Tofogliflozin, on Body Weight After Washout in Japanese Men With Type 2 Diabetes, *Journal of clinical medicine research*, 11: 1; 35–41, 2019.
- 0230B003 (White IR), Kaptoge S, Royston P, Sauerbrei W; Emerging Risk Factors Collaboration (Nakagawa H, Sakurai M et al.): Meta-analysis of non-linear exposure-outcome relationships using individual participant data: A comparison of two methods, *Statistics in Medicine*, 38: 3; 326–338, 2019.
- 0230B004 Pennells L, Kaptoge S, Wood A, Sweeting M, Zhao X, White I, Burgess S, Willeit P, Bolton T, Moons KGM, van der Schouw YT, Selmer R, Khaw KT, Gudnason V, Assmann G, Amouyel P, Salomaa V, Kivimaki M, Nordestgaard BG, Blaha MJ, Kuller LH, Brenner H, Gillum RF, Meisinger C, Ford I, Knuiman MW, Rosengren A, Lawlor DA, Völzke H, Cooper C, Marín Ibañez A, Casiglia E, Kauhanen J, Cooper JA, Rodriguez B, Sundström J, Barrett-Connor E, Dankner R, Nietert PJ, Davidson KW, Wallace RB, Blazer DG, Björkelund C, Donfrancesco C, Krumholz HM, Nissinen A, Davis BR, Coady S, Whincup PH, Jørgensen T, Ducimetiere P, Trevisan M, Engström G, Crespo CJ, Meade TW, Visser M, Kromhout D, Kiechl S, Daimon M58, Price JF, Gómez de la Cámara A, Wouter Jukema J, Lamarche B, Onat A, Simons LA, Kavousi M, Ben-Shlomo Y, Gallacher J, Dekker JM, Arima H, Shara N, Tipping RW, Roussel R, Brunner EJ, Koenig W, Sakurai M, Pavlovic J, Gansevoort RT, Nagel D, Goldbourt U, Barr ELM, Palmieri L, Njølstad I, Sato S, Monique Verschuren WM, Varghese CV, Graham I, Onuma O, Greenland P, Woodward M, Ezzati M, Psaty BM, Sattar N, Jackson R, Ridker PM, Cook NR, D'Agostino RB, Thompson SG, Danesh J, Di Angelantonio E; Emerging Risk Factors Collaboration: Equalization of four cardiovascular risk algorithms after systematic recalibration: individual-participant meta-analysis of 86 prospective studies, *European heart journal*, 40: 7; 621–631, 2019.
- 0230B005 Nitta Kyoko, Nagai Takako, Mizunuma Yuiko, Kitada Munehiro, Nakagawa Atsushi, Sakurai Masaru, Toyoda Masao, Haneda Masakazu, Kanasaki Keizo, Koya Daisuke: N-Acetyl-seryl-aspartyl-lysyl-proline is a potential biomarker of renal function in normoalbuminuric diabetic patients with eGFR ≥ 30 ml/min/1.73 m², *Clinical and Experimental Nephrology*, 23: 8; 1004–1012, 2019.

- 0230B006 The WHO CVD Risk Chart Working Group; (Kaptoge S), Pennells L, De Bacquer D, Cooney MT, Kavousi M, Stevens G, Riley LM, Savin S, Khan T, Altay S, Amouyel P, Assmann G, Bell S, Ben-Shlomo Y, Berkman L, Beulens JW, Björkelund C, Blaha M, Blazer DG, Bolton T, Bonita Beaglehole R, Brenner H, Brunner EJ, Casiglia E, Chamnan P, Choi YH, Chowdry R, Coady S, Crespo CJ, Cushman M, Dagenais GR, D'Agostino RB Sr, Daimon M, Davidson KW, Engström G, Ford I, Gallacher J, Gansevoort RT, Gaziano TA, Giampaoli S, Grandits G, Grimsgaard S, Grobbee DE, Gudnason V, Guo Q, Tolonen H, Humphries S, Iso H, Jukema JW, Kauhanen J, Kengne AP, Khalili D, Koenig W, Kromhout D, Krumholz H, Lam TH, Laughlin G, Marín Ibañez A, Meade TW, Moons KGM, Nietert PJ, Ninomiya T, Nordestgaard BG, O'Donnell C, Palmieri L, Patel A, Perel P, Price JF, Providencia R, Ridker PM, Rodriguez B, Rosengren A, Roussel R, Sakurai M, Salomaa V, Sato S, Schöttker B, Shara N, Shaw JE, Shin HC, Simons LA, Sofianopoulou E, Sundström J, Völzke H, Wallace RB, Wareham NJ, Willeit P, Wood D, Wood A, Zhao D, Woodward M, Danaei G, Roth G, Mendis S, Onuma O, Varghese C, Ezzati M, Graham I, Jackson R, Danesh J, Di Angelantonio E: World Health Organization cardiovascular disease risk charts: revised models to estimate risk in 21 global regions, *THE LANCET Global Health*, 7: 10; e1332–e1345, 2019.
- 0230B007 (Lee CMY), Colagiuri S, Woodward M, Gregg EW, Adams R, Azizi F, Gabriel R, Gill TK, Gonzalez C, Hodge A, Jacobs Jr DR, Joseph JJ, Khalili D, Magliano DJ, Mehlig K, Milne R, Mishra G, Mongraw-Chaffin M, Pasco JA, Sakurai M, Schreiner PJ, Selvin E, Shaw JE, Wittert G, Yatsuya H, Huxley RR: Comparing different definitions of prediabetes with subsequent risk of diabetes: an individual participant data meta-analysis involving 76 513 individuals and 8208 cases of incident diabetes, *BMJ open diabetes research & care*, 7: 1; e000794, 2019.

Short Communications

- 0230E001 Yoneyama Satoko, Tanaka Koji, Matsuda Yukihisa, Hashimoto Reiko, Ishizaki Masao, Tamai Akira, Kawasaki Yasuhiro: Relationship of neighborly ties with cognitive decline and total mood disturbances in older adult residents of depopulated areas in Japan: The Ninchisho (Dementia) Supporter Caravan Himi Study, *Psychiatry and clinical neurosciences*, 73: 12; 763–765, 2019.

0240 Department of Epidemiology and Public Health

Faculty

Title	Name	Field of Specialization
Professor	NISHINO Yoshikazu	Epidemiology of cancer, preventive medicine
Professor	NISHIJO Muneko	Environmental epidemiology, Environmental health sciences, Epidemiology of cadmium pollution
Professor (Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Senior Assistant Professor	NAGASAWA Shinya	Cardiovascular epidemiology, preventive cardiology
Assistant Professor	TAKIGUCHI Tomoya	Epidemiology, Public health

Keywords of Research

epidemiology, public health, cancer, hypertension, diabetes mellitus, screening, 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
Environmental Epidemiology
Epidemiology of Occupation-related Diseases
Epidemiology of Congenital Anomalies
Epidemiology of Interactable Diseases
Clinical Epidemiology

Books

- 0240A001 Muneko Nishijo, Hideaki Nakagawa: Chapter5 Effects of Cadmium Exposure on Life Prognosis, Cadmium Toxicity:New Aspects in Human Disease, Rice Contamination, and Cytotoxicity (Seiichiro Himeno, Keiko Aoshima), 63-73, Springer, Singapore, 2019.
- 0240A002 Yuri Ito, Yoshikazu Nishino, Seiki Kanemura, Tomoki Nakaya: Chapter4 Deaths from Cancer, The Atlas of Health Inequalities in Japan (Tomoki Nakaya, Yuri Ito), 73-160, Springer, Switzerland, 2019.

Publications

Originals

- 0240B001 (Kaoru Yoshida), Yoko Takizawa, Yoshikazu Nishino, Satomi Takahashi, Seiki Kanemura, Junko Omori, Hajime Kurosawa, Makoto Maemondo, Yuko Minami: Association between Family History of Cancer and Lung Cancer Risk among Japanese Men and Women, The Tohoku journal of experimental medicine, 247: 2; 99-110, 2019.
- 0240B002 (Cecilia Kimani), Aya Kadota, Katsuyuki Miura, Akira Fujiyoshi, Maryam Zaid, Sayaka Kadowaki, Takashi Hisamatsu, Hisatimi Arima, Minoru Horie, Hirotsugu Ueshima, for the SESSA Research Group: Differences Between Coronary Artery Calcification and Aortic Artery Calcification in Relation to Cardiovascular Disease Risk Factors in Japanese Men, Journal of Atherosclerosis and thrombosis, 26: 5; 452-464, 2019.

- 0240B003 (GiangThi Thuy Nghiem), Muneko Nishijo, Thao Ngoc Pham, Mika Ito, Tai The Pham, Anh Hai Tran, Hiroshi Nishimaru, Yoshikazu Nishino, Hisao Nishijo: Adverse effects of maternal dioxin exposure on fetal brain development before birth assessed by neonatal electroencephalography (EEG) leading to poor neurodevelopment; a 2-year follow-up study, *The Science of the total environment*, 667: 718-729, 2019.
- 0240B004 (Soisungwan Satarug), David A. Vesey, Muneko Nishijo, Werawan Ruangyuttikarn, Glenda C. Gobe: The inverse association of glomerular function and urinary β 2-MG excretion and its implications for cadmium health risk assessment, *Environmental research*, 173: 40-47, 2019.
- 0240B005 (Masaki Sumi), Takashi Hisamatsu, Akira Fujiyoshi, Aya Kadota, Naoko Miyagawa, Keiko Kondo, Sayaka Kadowaki, Sentaro Suzuki, Sayuki Torii, Maryam Zaid, Atsushi Sato, Hisatomi Arima, Tomohiro Terada, Katsuyuki Miura, Hirotsugu Ueshima, for the SESSA Research Group: Association of Alcohol Consumption With Fat Deposition in a Community-Based Sample of Japanese Men: The Shiga Epidemiological Study of Subclinical Atherosclerosis (SESSA), *Journal of Epidemiology*, 29: 6; 205-212, 2019.
- 0240B006 Ngoc Thao Pham, Muneko Nishijo, The Tai Pham, Ngoc Nghi Tran, Van Quan Le, Hai Anh Tran, Huy Anh Vu Phan, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese children in the most contaminated area from Agent Orange in Vietnam, *The Science of the total environment*, 678: 217-226, 2019.
- 0240B007 (Atsushi Satoh), Hisatomi Arima, Atsushi Hozawa, Takayoshi Ohkubo, Takashi Hisamatsu, Sayaka Kadowaki, Aya Kadota, Akira Fujiyoshi, Naoko Miyagawa, Maryam Zaid, Sayuki Torii, Tomonori Okamura, Akira Sekikawa, Katsuyuki Miura, Hirotsugu Ueshima, Minoru Horie, Yasutaka Nakano, Takashi Yamamoto, Emiko Ogawa, Hiroshi Maegawa, Itsuko Miyazawa, Kiyoshi Murata, Kenichi Mitsunami, Kazuhiko Nozaki, Akihiko Shiino, Isao Araki, Teruhiko Tsuru, Ikuo Toyama, Hisakazu Ogita, Souichi Kurita, Toshinaga Maeda, Naomi Miyamatsu, Toru Kita, Takeshi Kimura, Yoshihiko Nishio, Yasuyuki Nakamura, Tomonori Okamura, Akira Sekikawa, Emma J. M. Barinas-Mitchell, Daniel Edmundowicz, Takayoshi Ohkubo, Atsushi Hozawa, Nagako Okuda, Aya Higashiyama, Shinya Nagasawa, Yoshikuni Kita, Yoshitaka Murakami, Aya Kadota, Akira Fujiyoshi, Naoyuki Takashima, Takashi Kadowaki, Sayaka Kadowaki, Robert D. Abbott, Seiko Ohno, Hisatomi Arima, Takashi Hisamatsu, Naoko Miyagawa, Sayuki Torii, Yoshino Saito, Maryam Zaid, Sentaro Suzuki, Takahiro Ito, Masahiro Yamazoe, Takeshi Shibukawa, Masaki Sumi, SESSA Res Grp: The association of home and accurately measured office blood pressure with coronary artery calcification among general Japanese men, *Journal of Hypertension*, 37: 8; 1676-1681, 2019.
- 0240B008 (Isao Oze), Hidemi Ito, Yoshikazu Nishino, Masakazu Hattori, Tomio Nakayama, Isao Miyashiro, Keitaro Matsuo, Yuri Ito: Trends in Small-Cell Lung Cancer Survival in 1993-2006 Based on Population-Based Cancer Registry Data in Japan, *Journal of epidemiology*, 29: 9; 347-353, 2019.
- 0240B009 (Soisungwan Satarug), David A.Vesey, Werawan Ruangyuttikarn, Muneko Nishijo, Glenda C.Gobe, Kenneth R.Phelps: The Source and Pathophysiologic Significance of Excreted Cadmium, *Toxics*, 7: 4; 55, 2019.
- 0240B010 (Yuko Minami), Yoshikazu Nishino, Masaaki Kawai, Hiroshi Tada, Seiki Kanemura, Minoru Miyashita, Takanori Ishida, Yoichiro Kakugawa: Reproductive history and breast cancer survival: a prospective patient cohort study in Japan, *Breast cancer (Tokyo, Japan)*, 26: 6; 687-702, 2019.
- 0240B011 (Yuko Minami), Seiki Kanemura, Masaaki Kawai, Yoshikazu Nishino, Hiroshi Tada, Minoru Miyashita, Takanori Ishida, Yoichiro Kakugawa: Alcohol consumption and survival after breast cancer diagnosis in Japanese women:A prospective patient cohort study, *PLoS One*, 14: 11; e0224797, 2019.
- 0240B012 (Yuyan Liu), Akira Fujiyoshi, Hisatomi Arima, Aya Kadota, Sayaka Kadowaki, Takashi Hisamatsu, Itsuko Miyazawa, Keiko Kondo, Ikuo Tooyama, Katsuyuki Miura, Hirotsugu Ueshima, for the SESSA Research Group: Anthropometric Obesity Indices were Stronger than CT-Based Indices in Associations with Carotid Intima-Media Thickness in Japanese Men, *Journal of atherosclerosis and thrombosis*, 26: 12; 1102-1114, 2019.

Presentations at Conference

International Conference (Presentations)

- 0240I001 (Quyet Do Ba), Tai Pham The, Muneko Nishijo: Overview of dioxin remediation projects from post-war to present in Vietnam, *The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Dioxin 2019 Kyoto, Kyoto*, 2019.

- 0240I002 Hoa Vu Thi, Muneko Nishijo, Thao Pham Ngoc, Tai Pham The, Luong Hoang Van, Anh Tran Hai, Nghi Tran Ngoc, Yoshikazu Nishino, Hisao Nishijo, Quyet Do Ba: Effects of perinatal dioxin exposure on mirror neuron activity in 8-year-old children living in a hot spot of dioxin contamination in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0240I003 Muneko Nishijo, Tai Pham The, Nghi Tran Ngoc, Thao Pham Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Vu Phan HA, Phuong Phan T, Yoshikazu Nishino, Quyet Do Ba, Teruhiko Kido, Hisao Nishijo: Dioxin levels in breast milk in herbicide sprayed and unsprayed areas in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0240I004 (Tai Pham The), Muneko Nishijo, Thao Pham Ngoc, Hoa Vu Thi, Nghi Tran Ngoc, Anh Tran Hai, Luong Hoang Van, Quyet Do Ba, Yoshikazu Nishino, Hisao Nishijo: Effects of prenatal dioxin exposure on children behaviors at 8 years of age, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0240I005 Thao Ngoc Pham, Muneko Nishijo, Giang Thi Thuy Nghiem, Nghi Ngoc Tran, Tai The Pham, Hoa Thi Vu, Anh Hai Tran, Vu Huy Anh Phan, Yoshikazu Nishino, Hisao Nishijo: Effects of perinatal dioxin exposure on fetal brain development assessed by neonatal elctrocephalography (EEG) in the most contaminated area from Agent Orange in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0240I006 (Hisao Nishijo), Muneko Nishijo, Tai Pham The, Thao Pham Ngoc, Nghi Tran Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Phuong Phan H, Yosikazu Nishino, Quyet Do Ba: Prevention and intervention of dioxin related diseases in hot spots of dioxin contamination in Vietnam –A trial of nutritional intervention in Da Nang–, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.

0250 Department of Legal Medicine

Faculty

Title	Name	Field of Specialization
Professor	MIZUKAMI Hajime	Legal Medicine,Forensic pathology,DNA polymorphism
Assistant Professor	KOBAYASHI Masamune	Legal medicine,DNA polymorphism
Assistant Professor	TAKESHITA Hiroshi	Legal medicine,Forensic pathology

Keywords of Research

genetic analysis, drug metabolizing enzyme, sudden unexpected death, amniotic fluid embolism

Outline of Research

Genetic analysis of drug metabolizing enzyme in persons with drug intake.
Genetic analysis of sudden unexpected death and the elucidation of its onset mechanism.
Study on the involvement of anaphylactoid reactions in amniotic fluid embolism.

Publications

Reviews

0250C001 Hajime Mizukami: Application of Spinal-Needle Puncture for Postmortem Examination, Journal of Kanazawa Medical University, 44: 3; 90-98, 2019.

Case Reports

- 0250D001 (Shinjiro Mori), Satoko Kimura, Ayako Ro, Akira Hayakawa, Izumi Funakoshi, Tatsushige Fukunaga, Hajime Mizukami: Two autopsy cases of rupture of the aorta by fistula formation after thoracic endovascular aortic repair and open stent-grafting on aortic arch aneurysm, Cardiovascular Pathology, 39: 61-66, 2019.
- 0250D002 Shinjiro Mori, Satoko Kimura, Ayako Ro, Hldeaki Kigasawa, Shirushi Takahashi, Hajime Mizukami: The extrapleural fat sign on postmortem computed tomography may differentiate acute from chronic extrapleural hematomas, Forensic Science International, 1: 100024, 2019.
- 0250D003 Hiroshi Takeshita, Masamune Kobayashi, Hajime Mizukami: Fatal Rupture of Isolated Aneurysm in Common Iliac Artery Suspected of Traumatic Cause-Report of an Autopsy Case, The Research and Practice in Forensic Medicine, 62: 139-144, 2019.

0260 Department of Medical Education

Faculty

Title	Name	Field of Specialization
Professor	HORI Ariyuki	medical education, clinical neurology, clinical sleep medicine, neurophysiology, medical informatics, problem-based learning
Associate Professor (Additional Post)	OZAKI Kazuaki	Mechanism of portal hypertension in alcoholic liver injury
Senior Assistant Professor	TAKAMURA Akiteru	Community-based Medical Education, Simulated education
Senior Assistant Professor (Additional Post)	KURODA Naohiro	medical informatics, electronic medical record system, medical education

Keywords of Research

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

Outline of Research

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

Presentations at Conference

International Conference (Presentations)

- 0260I001 Joseph George, Takashi Saito, Nobuhiko Hayashi, Kazuaki Ozaki, Mikihiro Tsutsumi, Mutsumi Tsuchishima: SPP1 gene knockout in human hepatic stellate cells decreased profibrogenic cytokines and collagen gene expression, The International Liver Congress, Vienna, 2019.
- 0260I002 Joseph George, Atsushi Fukumura, Kazuaki Ozaki, Nobuyuki Toshikuni, Mutsumi Tsuchishima, Mikihiro Tsutsumi: Diagnostic and prognostic implication of miR-27a-3p in human hepatocellular carcinoma with different etiology, the Digestive Disease Week, San Diego, 2019.

Clinical Medicine

0300 Department of Cardiology

Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Kouji	Atherosclerosis, lipid metabolism
Professor	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
Associate Professor	AKAO Hironobu	Ischemic heart disease, Coronary intervention
Associate Professor	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
Associate Professor (Additional Post)	TSUCHIYA Taketsugu	Ischemic heart disease, Coronary intervention
Senior Assistant Professor	WAKASA Minoru	Heart failure
Assistant Professor	AOKI Hirofumi	Heart failure
Assistant Professor	SAITO Ryuhei	Ischemic heart disease, Coronary intervention
Assistant Professor	TAKEDA Kenji	Molecular Biology
Assistant Professor	UENO Eiichi	Arrhythmia, Catheter ablation
Assistant Professor	FUJIBAYASHI Kousuke	Arrhythmia, Catheter ablation
Assistant Professor	TAKANO Shintaro	Arrhythmia, Catheter ablation
Assistant Professor	TAKAMURA Takaaki	Ischemic heart disease, Coronary intervention
Assistant Professor (Additional Post)	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor (Additional Post)	KITAGAWA Katsuhide	Ischemic heart disease, Coronary intervention
Assistant Professor	FUJITA Wataru	Heart failure

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0300B001 Kouji Kajinami, Asuka Ozaki, Yuki Tajima, Shizuya Yamashita, Hiddenori Arai, Tamio Teramoto: Real-World Data to Identify Hypercholesterolemia Patients on Suboptimal Statin Therapy, *Journal of Atherosclerosis and Thrombosis*, 26: 408–431, 2019.
- 0300B002 (Misuzu Ueki), Kaori Kimura–Kataoka, Junko Fujihara, Reiko Iida, Yasuyuki Kawai, Akari Kusaka, Takamitsu Sasaki, Haruo Takeshita, Toshihiro Yasuda: Evaluation of the functional effects of genetic variants–missense and nonsense SNPs, indels and copy number variations–in the gene encoding human deoxyribonuclease I potentially implicated in autoimmunity, *SCIENTIFIC REPORTS*, 9: 13660, 2019.
- 0300B003 (Nora Lee), Kazuya Maeda, Shinya Fukizawa, Ichiro Ieiri, Atsuko Tomaru, Hironobu Akao, Kenji Takeda, Mizuho Iwadare, Osamu Niwa, Tougen Masauji, Naoe Yamane, Kouji Kajinami, Hiroyuki Kusuhara, Yuichi Sugiyama: Microdosing clinical study to clarify pharmacokinetic and pharmacogenetic characteristics of atorvastatin in Japanese hypercholesterolemic patients, *Drug Metabolism and Pharmacokinetics*, 34: 6; 387–395, 2019.
- 0300B004 Koichi Okuda, Naoto Watanabe, Mitsumasa Hashimoto, Mariko Doai, Yasuyuki Kawai, Tomoko Takahashi, Tomohiro Arikawa, Kazumasa Oiso, Yumi Sunatani, Kuniyoshi Iwabuchi, Koji Kajinami, Munetaka Matoba: Preliminary quantitative evaluation of radiation–induced DNA damage in peripheral blood lymphocytes after cardiac dual–isotope imaging, *Applied Radiation and Isotopes*, 154: 108890, 2019.

Case Reports

- 0300D001 Taketsugu Tsuchiya, Minako Oda, Takaaki Takamura, Katsuhide Kitagawa, Koji Kajinami, Michihiko Kitayama: Healing of femoral artery dissection after drug–coated balloon angioplasty: A case report with intravascular ultrasonography and angioscopy images, *SAGE Open Medical Case Reports*, 7: 2050313X19834159, 2019.
- 0300D002 Yamamoto K, Guo X, Mizutani KI, Kurose N, Kumagai M, Shioya A, Nakada S, Terauchi T, Ikeda Y, Aoki H, Kajinami K, Yamada S: Possibly Late–Onset Arrhythmogenic Right Ventricular Cardiomyopathy: Unique Triglyceride Deposition by Analysis of Lipid Contents, *Clinical Medicine Insights. Case Reports*, 12: 1179547619828715, 2019.

Presentations at Conference

International Conference (Presentations)

- 0300I001 Y. Saeki, J. Sawaguchi, T. Takamura, R. Saito, H. Akao, Y. Kawai, K. Kajinami: Acute decrease of circulating Lp(a) levels in acute coronary syndrome, 87th European Atherosclerosis Society Congress, Maasticht, 2019.
- 0300I002 Kosuke Fujibayashi: Plasma glutamate are increased in non–smoker patients with vasospastic angina pectoris and associated with plasma cystine and antioxidant capacity, ESC CONGRESS 2019, Paris, 2019.
- 0300I003 Minoru Wakasa, Yasuyuki Kawai, Satori Akita, Kouji Kajinami: Prognostic value of Circulating Amino Acids (AAs) in Patients with Idiopathic Dilated Cardiomyopathy (DCM), ESA ASIA, Republic of Singapore, 2019.

0310 Department of Respiratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	MIZUNO Shiro	Lung cell and molecular biology, COPD
Professor (Additional Post)	OSANAI Kazuhiro	Lung cell and molecular biology, Interstitial Lung Disease
Professor	ISHIZAKI Takeshi	Pulmonary circulation
Professor	TOGA Hirohisa	clinical respiratory medicine, sleep disordered breathing
Senior Assistant Professor	OIKAWA Taku	clinical respiratory medicine, lung cancer
Senior Assistant Professor	FUJIMOTO Yuki	clinical respiratory medicine, sleep disordered breathing
Senior Assistant Professor	TAKAHARA Yutaka	clinical respiratory medicine
Assistant Professor	KAMEDA Mari	clinical respiratory medicine
Assistant Professor	KATO Ryo	chronic obstructive pulmonary disease
Assistant Professor	SHINOMIYA Shohei	clinical respiratory medicine
Assistant Professor (Additional Post)	OIKAWA Rieko	clinical respiratory medicine , lung cancer
Assistant Professor	NOJIRI Masahumi	chronic obstructive pulmonary disease
Assistant Professor	NAKASE Keisuke	clinical respiratory medicine
Assistant Professor	NISHIKI Kazuaki	chronic obstructive pulmonary disease
Assistant Professor	YAMADA Shinya	clinical respiratory medicine
Assistant Professor	SAKUMA Takashi	sleep disordered breathing

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0310B001 Takahara Y, Kawasaki Y, Kato R, Shinomiya S, Oikawa T, Mizuno S: Examination of Factors Influencing the Success Rates of an In Vitro Chemosensitivity Test for Lung Cancer Using Collagen Gel Droplet-Embedded Cultures, *Journal of Cancer Biology and Therapeutics*, 5: 1; 295-300, 2019.

Reviews

- 0310C001 Kazuhiro Osanai: Aberrant Lung Surfactant Homeostasis in Rab38-mutated Animal Models of Hermansky-Pudlak Syndrome, *Journal of Kanazawa Medical University*, 43: 51-59, 2019.

Case Reports

- 0310D001 Takahara Yutaka, Sakuma Takashi, Nishiki Kazuaki, Nakase Keisuke, Nojiri Masafumi, Ueda Yoshimichi, Mizuno Shiro: Primary pulmonary T-cell lymphoma with lung adenocarcinoma: a case report, *Journal of medical case reports*, 13: 199, 2019.
- 0310D002 Ryo Kato, Takashi Sakuma, Kazuaki Nishiki, Keisuke Nakase, Masafumi Nojiri, Shohei Shinomiya, Yutaka Takahara, Taku Oikawa, Kazuhiro Osanai, Shiro Mizuno: A Lung Abscess Caused by *Porphyromonas gingivalis* Infection Associated with Marked Thrombocytosis and Thromboembolism, *The Journal of the Japan Society for Respiratory Endoscopy*, 41: 4; 375-380, 2019.
- 0310D003 Yutaka Takahara, Saki Matsuura, Kouichi Yamamura, Takashi Sakuma, Kazuaki Nishiki, Shiro Mizuno: A case of *Propionibacterium acnes* empyema treated with thoracoscopic decortication, *Annals of the Japanese Respiratory Society*, 8: 4; 250-254, 2019.

0320 Department of Gastroenterology

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0320B001 Wu Jing, Otsuka T, Nakamura M, Sakurai N, Takano H, Hayashi T, Ota M, Nomura T, Hayashi R, Shimasaki T, Tahara T, Shibata T, Arisawa T: Association of genetic polymorphisms in DNMT3A with the progression of gastric mucosal atrophy and susceptibility to gastric cancer in Japan, ONCOLOGY LETTERS, 17: 3482-3488, 2019.

Case Reports

- 0320D001 Masakatsu Nakamura, Toshimi Otsuka, Ranji Hayashi, Tomoe Nomura, Masafumi Ota, Naoko Sakurai, Tasuku Hayashi, Hikaru Takano, Takeo Kosaka, Tomiyasu Arisawa: Simultaneous multiple primary small bowel cancers in a patient with anemia, *Gastroenterological Endoscopy*, 61: 10; 2372–2378, 2019.

Presentations at Conference

International Conference (Presentations)

- 0320I001 Takeo Shimasaki: Analysis of intracellular dynamics of exosomes and changes of surface markers, ANNUAL MEETING ISEV 2019, Kyoto, 2019.

0325 Department of Hepatology

Faculty

Title	Name	Field of Specialization
Professor	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
Professor	TSUTSUMI Mikihiro	Mechanism of alcoholic liver disease
Associate Professor	TOSHIKUNI Nobuyuki	Interventional therapy for hepatocellular carcinoma
Associate Professor	SHIROEDA Hisakazu	Endoscopic therapy of early gastric cancer
Associate Professor	OZAKI Kazuaki	Mechanism of portal hypertension in alcoholic liver injury
Senior Assistant Professor	JOSEPH George	Mechanism of hepatic fibrosis
Senior Assistant Professor	HAYASHI Nobuhiko	Mechanism of nonalcoholic fatty liver disease
Senior Assistant Professor	SAITO Takashi	Treatment for metabolic syndrome
Senior Assistant Professor	FUKUMURA Atsushi	Etiology and clinical feature of acute hepatitis
Assistant Professor	MATSUE Yasuhiro	Mechanism of liver cancer
Assistant Professor	MINATO Takahiro	Mechanism of non-alcoholic steatohepatitis
Assistant Professor	YAMADA Kaho	Treatment for decompensated liver cirrhosis

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, regenerative medicine, stem cell, adipose tissue

Outline of Research

1 Basic and clinical study of digestive disease (1)Treatment for esophageal and gastric varices associated with portal hypertension (2)Hepatic support system for severe alcoholic hepatitis (3)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 3 Pathogenesis for nonalcoholic steatohepatitis 4 Regenerative medicine (1)Regenerative of hepatic cell (2)Regenerative of mucosa on esophagus and stomach (3)Development of sheet for stem cell

Publications

Originals

- 0325B001 Joseph George, Mikihiro Tsutsumi, Mutsumi Tsuchishima: Alteration of Trace Elements during Pathogenesis of N-Nitrosodimethylamine Induced Hepatic Fibrosis, Scientific Reports, 9: 708, 2019.

- 0325B002 Kaori Kinoshita, Nobuyuki Toshikuni, Takashi Saito, Nobuhiko Hayashi, Takahiro Minato, Yasuhiro Matsue, Yoshimichi Ueda, Mutsumi Tsuchishima, Mikihiro Tsutsumi: The combination of fatty liver and increased gamma-glutamyl transpeptidase levels as a risk factor for atherosclerotic plaque development in apparently healthy people, *Turkish Journal of Medical Sciences*, 49: 1350–1357, 2019.
- 0325B003 Yuki Hirakawa, Mutsumi Tsuchishima, Atsushi Fukumura, Kaori Kinoshita, Nobuhiko Hayashi, Takashi Saito, Joseph George, Toshikuni Nobuyuki, Ueda Yoshimichi, Tsutsumi Mikihiro: Recombinant thrombomodulin prevented hepatic ischemia–reperfusion injury by inhibiting high–mobility group box 1 in rats, *European Journal of Pharmacology*, 863: 172681, 2019.

Reviews

- 0325C001 Joseph George, Mutsumi Tsuchishima, Mikihiro Tsutsumi: Molecular mechanisms in the pathogenesis of N-nitrosodimethylamine induced hepatic fibrosis, *Cell Death & Disease*, 10: 18, 2019.

Presentations at Conference

International Conference (Presentations)

- 0325I001 Joseph George, Takahiro Minato, Yasuhiro Matsue, Yuki Hirakawa, Mikihiro Tsutsumi, Mutsumi Tsuchishima: Combination treatment with epigallocatechin gallate and silibinin restored antioxidant defense mechanisms and prevented N-nitrosodimethylamine induced hepatic fibrosis in rats, the 28th Annual Convention of the Asian Pacific Association for the Study of the Liver, Manila, 2019.
- 0325I002 Joseph George, Takashi Saito, Nobuhiko Hayashi, Kazuaki Ozaki, Mikihiro Tsutsumi, Mutsumi Tsuchishima: SPP1 gene knockout in human hepatic stellate cells decreased profibrogenic cytokines and collagen gene expression, The International Liver Congress, Vienna, 2019.
- 0325I003 Joseph George, Nobuhiko Hayashi, Takashi Saito, Mikihiro Tsutsumi, Mutsumi Tsuchishima: Targeted delivery of chemotherapeutic agents employing nanovesicles effectively reduced intrahepatic tumors, the 110th Annual meeting of the American Association for Cancer Research, Atlanta, 2019.
- 0325I004 Joseph George, Atsushi Fukumura, Kazuaki Ozaki, Nobuyuki Toshikuni, Mutsumi Tsuchishima, Mikihiro Tsutsumi: Diagnostic and prognostic implication of miR-27a-3p in human hepatocellular carcinoma with different etiology, the Digestive Disease Week, San Diego, 2019.

0330 Department of Nephrology

Faculty

Title	Name	Field of Specialization
Professor	YOKOYAMA Hitoshi	Clinicopathological study of nephritic and nephrotic syndrome, Clinical study of blood purification, Clinicopathological study of renal transplantation
Professor	FURUICHI Kengo	Clinicopathological study of nephritis and nephrotic syndrome, Study of acute kidney injury, Clinicopathological study of diabetic kidney disease, Clinical study of dialysis and kidney transplantation
Associate Professor	ADACHI Hiroki	Clinical nephrology
Senior Assistant Professor	FUJIMOTO Keiji	Clinical nephrology
Senior Assistant Professor	MUKAI Kiyotaka	Clinical nephrology
Senior Assistant Professor	HAYASHI Norifumi	Clinical nephrology
Assistant Professor	IMURA Junko	Clinical nephrology
Assistant Professor	OKINO Kazuaki	Clinical nephrology
Assistant Professor	OKUSHI Yuki	Clinical nephrology
Assistant Professor	OKADA Keiichirou	Clinical nephrology
Assistant Professor	NOMURA Kanae	Clinical nephrology
Assistant Professor	MATSUURA Toshikazu	Clinical nephrology
Assistant Professor	YAMAZAKI Keita	Clinical nephrology
Assistant Professor	MIYATAKE Nobuhiko	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, AKI, DKD

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 (Kohagura K), Furuichi K, Kochi M, Shimizu M, Yuzawa Y, Hara A, Toyama T, Kitamura H, Suzuki Y, Sato H, Uesugi N, Ubara Y, Hoshino J, Hisano S, Ueda Y, Nishi S, Yokoyama H, Nishino T, Ogawa D, Mise K, Shibagaki Y, Kimura K, Haneda M, Makino H, Matsuo S, Wada T: Amplified Association Between Blood Pressure and Albuminuria in Overweight Patients With Biopsy-Proven Hypertensive Nephrosclerosis, *American Journal of Hypertension*, 32: 5; 486–491, 2019.
- 0330B002 (Yamanouchi M), Furuichi K, Hoshino J, Toyama T, Hara A, Shimizu M, Kinowaki K, Fujii T, Ohashi K, Yuzawa Y, Kitamura H, Suzuki Y, Sato H, Uesugi N, Hisano S, Ueda Y, Nishi S, Yokoyama H, Nishino T, Samejima K, Kohagura K, Shibagaki Y, Mise K, Makino H, Matsuo S, Ubara Y, Wada T: Nonproteinuric Versus Proteinuric Phenotypes in Diabetic Kidney Disease: A Propensity Score-Matched Analysis of a Nationwide, Biopsy-Based Cohort Study, *Diabetes Care*, 42: 5; 891–902, 2019.
- 0330B003 (Sako K), Furuichi K, Yamamura Y, Oshima M, Toyama T, Kaneko S, Wada T: Association between the recurrence period of acute kidney injury and mortality: a single-centre retrospective observational study in Japan, *BMJ Open*, 9: e023259, 2019.
- 0330B004 (Shimizu M), Furuichi K, Toyama T, Funamoto T, Kitajima S, Hara A, Iwata Y, Sakai N, Takamura T, Kitagawa K, Yoshimura M, Kaneko S, Yokoyama H, Wada T: Association of renal arteriosclerosis and hypertension with renal and cardiovascular outcomes in Japanese type 2 diabetes patients with diabetic nephropathy, *Journal of diabetes investigation*, 10: 4; 1041–1049, 2019.
- 0330B005 (Yamanouchi M), Mori M, Hoshino J, Kinowaki K, Fujii T, Ohashi K, Furuichi K, Wada T, Ubara Y: Retinopathy progression and the risk of end-stage kidney disease: results from a longitudinal Japanese cohort of 232 patients with type 2 diabetes and biopsy-proven diabetic kidney disease, *BMJ open diabetes research & care*, 7: e000726, 2019.

Reviews

- 0330C001 Hitoshi Yokoyama: Epidemiology and prognosis of IgA nephropathy in Japan, *77: 4; 593–597*, 2019.
- 0330C002 Kazuaki Okino, Yuki Okushi, Kiyotaka Mukai, Norifumi Hayashi, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: Update of Findings of Hepatitis C Virus Infection in Renal Allograft Recipients, *Journal of Kanazawa Medical University*, 44: 1; 7–13, 2019.
- 0330C003 Kengo Furuichi, Hitoshi Yokoyama: Recent Clinicopathological Findings of Kidney Disease in Diabetes Cases, *Journal of Kanazawa Medical University*, 44: 117–121, 2019.

Case Reports

- 0330D001 (Kato T), Ushioji Y, Yokoyama H, Hara S, Matsunaga A, Muso E, Saito T: A case of apolipoprotein E Toyonaka and homozygous apolipoprotein E2/2 showing non-immune membranous nephropathy-like glomerular lesions with foamy changes, *CEN Case Reports*, 8: 2; 106–111, 2019.
- 0330D002 Norifumi Hayashi, Keiichirou Okada, Yuko Tsuruyama, Yu Kagaya, Sho Kumano, Yuki Ishikura, Kiminobu Takeda, Masayuki Nanbu, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: Plasma exchange for thrombotic microangiopathy secondary to dermatomyositis associated with acute kidney injury and complement activation: a case report with literature review, *Renal Replacement Therapy*, 5: 48, 2019.

Presentations at Conference

International Conference (Symposium)

- 0330H001 Kengo Furuichi, Hitoshi Yokoyama: Apheresis for nephrotic syndrome, The 12th World Congress of International Society for Apheresis, Kyoto, 2019.

International Conference (Presentations)

- 0330I001 Keiichiro Okada, Norifumi Hayashi, Keiji Fujimoto, Hiroki Adachi, Kengo Furuichi, Hitoshi Yokoyama: Changes in double-strand DNA breaks predict delayed graft function (DGF) in Japanese renal allograft recipients, 56th ERA-EDTA Congress in Budapest, Budapest, 2019.
- 0330I002 Kazuaki Okino, Yuki Okushi, Kiyotaka Mukai, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: A comparison of Japanese renal allograft long-term outcomes in peritoneal and hemodialysis patients, APCM-ISPDP 2019, Nagoya, 2019.
- 0330I003 Miyatake Nobuhiko, Adachi Hiroki, Okada Keiichiro, Okino Kazuaki, Fujimoto Keiji, Furuichi Kengo, Yokoyama Hitoshi: The Serum CTRP9 Concentration Correlates with Cardiovascular Risk in Renal Allograft Recipients, ASN KIDNEY WEEK 2019, Washington, 2019.
- 0330I004 Furuichi Kengo, Shimizu Miho, Toyama Tadashi, Yokoyama Hitoshi, Wada Takashi: Clinicopathological Features of a Rapid Decliner in Diabetic Nephropathy, ASN KIDNEY WEEK 2019, Washington, 2019.

0340 Department of Diabetology and Endocrinology

Faculty

Title	Name	Field of Specialization
Professor	KOYA Daisuke	diabetes, hypertension, obesity, aging
Associate Professor	NAKAGAWA Atsushi	diabetes, pituitary diseases
Associate Professor	KANASAKI Keizo	diabetes, hypertension, obesity, preeclampsia
Associate Professor	KITADA Munehiro	diabetes, diabetical renal disease, hypertension
Associate Professor	KONISHI Kazunori	diabetes, hypertension, arteriosclerotic disease
Assistant Professor	OGURA Yoshio	diabetes, endocrine, metabolism
Assistant Professor	SHIMADA Keiji	diabetes, endocrine, metabolism
Assistant Professor	TAKAGAKI Yuta	diabetes, endocrine, metabolism
Assistant Professor	HIRAI Taro	diabetes, endocrine, metabolism
Assistant Professor	MONNO Itaru	diabetes, endocrine, metabolism

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 Yang Fan, Takagaki Yuta, Yoshitomi Yasuo, Ikeda Takayuki, Li Jinpeng, Kitada Munehiro, Kumagai Asako, Kawakita Emi, Shi Sen, Kanasaki Keizo, Koya Daisuke: Inhibition of Dipeptidyl Peptidase-4 Accelerates Epithelial-Mesenchymal Transition and Breast Cancer Metastasis via the CXCL12/CXCR4/mTOR Axis, *Cancer research*, 79: 4; 735-746, 2019.

- 0340B002 Kitada Munehiro, Ogura Yoshio, Nitta Kyoko, Fujii Mizue, Kanasaki Keizo, Konishi Kazunori, Iida Yasuo, Nakagawa Atsushi, Koya Daisuke: Effect of switching to teneligliptin from other dipeptidyl peptidase-4 inhibitors on glucose control and renoprotection in type 2 diabetes patients with diabetic kidney disease, *Journal of diabetes investigation*, 10: 3; 706-713, 2019.
- 0340B003 Takagaki Yuta, Shi Sen, Katoh Makoto, Kitada Munehiro, Kanasaki Keizo, Koya Daisuke: Dipeptidyl peptidase-4 plays a pathogenic role in BSA-induced kidney injury in diabetic mice, *Scientific reports*, 9: 7519, 2019.
- 0340B004 Gao Rongfen, Kanasaki Keizo, Li Jinpeng, Kitada Munehiro, Okazaki Toshiro, Koya Daisuke: β klotho is essential for the anti-endothelial mesenchymal transition effects of N-acetyl-seryl-aspartyl-lysyl-proline, *FEBS open bio*, 9: 5; 1029-1038, 2019.
- 0340B005 (Kume Shinji), Araki Shin-ichi, Ugi Satoshi, Morino Katsutaro, Koya Daisuke, Nishio Yoshihiko, Haneda Masakazu, Kashiwagi Atsunori, Maegawa Hiroshi: Secular changes in clinical manifestations of kidney disease among Japanese adults with type 2 diabetes from 1996 to 2014, *Journal of Diabetes Investigation*, 10: 4; 1032-1040, 2019.
- 0340B006 Nitta Kyoko, Nagai Takako, Mizunuma Yuiko, Kitada Munehiro, Nakagawa Atsushi, Sakurai Masaru, Toyoda Masao, Haneda Masakazu, Kanasaki Keizo, Koya Daisuke: N-Acetyl-seryl-aspartyl-lysyl-proline is a potential biomarker of renal function in normoalbuminuric diabetic patients with eGFR \geq 30 ml/min/1.73 m², *Clinical and Experimental Nephrology*, 23: 8; 1004-1012, 2019.
- 0340B007 (Zhou Fang L), Watada Hirotaka, Tajima Yuki, Berthelot Mathilde, Kang Dian, Esnault Cyril, Shuto Yujin, Maegawa Hiroshi, Koya Daisuke: Identification of subgroups of patients with type 2 diabetes with differences in renal function preservation, comparing patients receiving sodium-glucose co-transporter-2 inhibitors with those receiving dipeptidyl peptidase-4 inhibitors, using a supervised machine-learning algorithm (PROFILE study): A retrospective analysis of a Japanese commercial medical database, *Diabetes, obesity & metabolism*, 21: 8; 1925-1934, 2019.

Reviews

- 0340C001 Kitada Munehiro, Ogura Yoshio, Monno Itaru, Koya Daisuke: Sirtuins and Type 2 Diabetes: Role in Inflammation, Oxidative Stress, and Mitochondrial Function, *Frontiers in Endocrinology*, 10: 187, 2019.
- 0340C002 Kanasaki Keizo, Kawakita Emi, Koya Daisuke: Relevance of Autophagy Induction by Gastrointestinal Hormones: Focus on the Incretin-Based Drug Target and Glucagon, *Frontiers in pharmacology*, 10: 476, 2019.
- 0340C003 Kitada Munehiro, Ogura Yoshio, Monno Itaru, Koya Daisuke: The impact of dietary protein intake on longevity and metabolic health, *EBioMedicine*, 43: 632-640, 2019.

Others

- 0340F001 Daisuke Koya: Diabetic kidney disease: Its current trends and future therapeutic perspectives, *JOURNAL OF DIABETES INVESTIGATION*, 10: 5; 1174-1176, 2019.

Presentations at Conference

International Conference (Symposium)

- 0340H001 Daisuke Koya: AOCO Symposium7 SIRT3 activity in the pathogenesis in metabolic kidney injury, 2019 International Congress on Obesity and Metabolic Syndrome & Asia-Oceania Conference on Obesity, Seoul, 2019.

International Conference (Presentations)

- 0340I001 Emi Kawakita, Fan Yang, Asako Kumagai, Keizo Kanasaki, Daisuke Koya: Metformin suppressed DPP-4 inhibitor-induced breast cancer EMT and lung metastasis via suppression of mTOR signalling, 55th Annual Meeting of the European Association for the Study of Diabetes, Barcelona, 2019.

0340I002 Yuiko Mizunuma, Keizo Kanasaki, Yuta Takagagi, Kyoko Nitta, Susumu Takagi, Haijie Liu, Shaolan Li, Jinpeng Li, Yoshimasa Aso, Daisuke Koya: Backcross db gene into CD-1 background results in novel type 2 diabetic mouse model with progressive kidney fibrosis, 55th Annual Meeting of the European Association for the Study of Diabetes, Barcelona, 2019.

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
Professor	MASAKI Yasufumi	Hematology and Immunology, Transfusion Medicine
Professor	FUKUSHIMA Toshihiro	Hematology and Immunology, Clinical Pharmacology
Professor	KAWABATA Hiroshi	Hematology, Iron metabolism
Professor	Mizuta Shuichi	Clinical analysis of Hematopoietic stem cell transplantation, transfusion medicine, Acute lymphoblastic leukemia, Chronic myeloid leukemia
Associate Professor	YAMADA Kazunori	
Senior Assistant Professor	KAWANAMI Takafumi	Hematology and Immunology
Senior Assistant Professor	SAKAI Tomoyuki	Hematology and Immunology
Assistant Professor	FUJIMOTO Shino	Hematology and Immunology
Assistant Professor	YANAGISAWA Hiroto	Hematology and Immunology
Assistant Professor (Additional Post)	KAWANAMI Haruka	Hematology and Immunology

Keywords of Research

Sjögren's syndrome, malignant lymphoma, stem cell, chemotherapy, leukemia cell line, apoptosis, chemokines, rheumatoid arthritis, systemic lupus erythematosus, TAFRO syndrome, Castleman's disease, IgG4-related disease, proteomics, leptin, follicular dendritic cell, regeneration therapy

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.

- 1, Clinico-pathological study of a new disease entity; TAFRO syndrome.
- 2, Pathophysiological analysis of IgG4-related disease.
 - (1) Evaluation of CD14+ cells in lymphoid follicle.
 - (2) The role of neonate immunity of IgG4-RD.
 - (3) Lipid mediators and those balance .
- 3, Analysis of Leptin in patients with systemic autoimmune disorders.
- 4, Evaluation and regeneration therapy of salivary gland tissue in Sjögren's syndrome.
- 5, Clinical study for patients with intractable aggressive lymphomas.
- 6, Analysis of iron metabolism in hematological disorders.
- 7, Treatment stratification of Acute Lymphoid Leukemia.

Publications

Originals

- 0350B001 (Satoshi Yamasaki), Dai Chihara, Sung-Won Kim, Takahito Kawata, Shuichi Mizuta, Hiroatsu Ago, Takaaki Chou, Takahisa Yamane, Hitoji Uchiyama, Tatsuo Oyake, Katsuhiko Miura, Bungo Saito, Hirofumi Taji, Hirohisa Nakamae, Toshihiro Miyamoto, Takahiro Fukuda, Junya Kanda, Yoshiko Atsuta, Ritsuro Suzuki: Risk factors and timing of autologous stem cell transplantation for patients with peripheral T-cell lymphoma, International Journal of Hematology, 109: 2; 175-186, 2019.

- 0350B002 Kurose Nozomu, Mizutani Ken-Ichi, Kumagai Motona, Shioya Akihiro, Guo Xin, Nakada Satoko, Fujimoto Shino, Kawabata Hiroshi, Masaki Yasufumi, Takai Kazue, Aoki Sadao, Kojima Masaru, Nakamura Shigeo, Kida Masatoshi, Yamada Sohsuke: An extranodal histopathological analysis of idiopathic multicentric Castleman disease with and without TAFRO syndrome, *PATHOLOGY RESEARCH AND PRACTICE*, 215: 3; 410-413, 2019.
- 0350B003 (Zachary S Wallace), Yuqing Zhang, Cory A Perugino, Ray Naden, Hyon K Choi, John H Stone, for the ACR/EULAR IgG4-RD Classification Criteria Committee: Clinical phenotypes of IgG4-related disease: an analysis of two international cross-sectional cohorts, *Annals of the Rheumatic Diseases*, 78: 3; 406-412, 2019.
- 0350B004 (Eisei Kondo), Takashi Ikeda, Koji Izutsu, Dai Chihara, Risa Shimizu-Koresawa, Nobuharu Fujii, Tomoyuki Sakai, Tadakazu Kondo, Kohmei Kubo, Yuichi Kato, Takashi Akasaka, Takahiro Fukuda, Tatsuo Ichinohe, Yoshiko Astuta, Junji Suzumiya, Ritsuro Suzuki, for the Adult Lymphoma Working Group of the Japan Society for Hematopoietic Cell Transplantation: High-Dose chemotherapy with autologous stem cell transplantation in primary central nervous system lymphoma: data from the Japan society for hematopoietic cell transplantation registry, *Biology of Blood and Marrow Transplantation*, 25: 5; 899-905, 2019.
- 0350B005 (Motoko Yamaguchi), Ritsuro Suzuki, Kana Miyazaki, Jun Amaki, Jun Takizawa, Nodoka Sekiguchi, Shiori Kinoshita, Naoto Tomita, Hideho Wada, Yukio Kobayashi, Nozomi Niitsu, Toshihiko Ando, Takeshi Maeda, Bungo Saito, Hiroshi Matsuoka, Rika Sakai, Nobuko Kubota, Yasufumi Masaki, Yoshihiro Kameoka, Naoko Asano, Masahiko Oguchi, Naoyuki Katayama: Improved prognosis of extranodal NK/T cell lymphoma, nasal type of nasal origin but not extranasal origin, *Annals of Hematology*, 98: 7; 1647-1655, 2019.
- 0350B006 (Kana Oiwa), Takahiro Yamauchi, Hitoshi Inoue, Hiromichi Iwasaki, Mikio Ueda, Yoshimasa Urasaki, Shigeki Otake, Hirokazu Okumura, Hideki Origasa, Kenichi Kamiya, Yasukazu Kawai, Shinji Kishi, Toshiro Kurokawa, Tsutomu Sato, Aiko Sawazaki, Hideyuki Takamatsu, Hiroshi Tsutani, Yasushi Terasaki, Shinji Nakao, Takashi Nakayama, Toshihiro Haba, Naoko Hosono, Yasufumi Masaki, Sadaya Matano, Ryoichi Murata, Masaki Yamaguchi, Nobuyuki Yoshio, Tatsuo Hosoya, Takanori Ueda: Retrospective survey of tumor lysis syndrome and acute uric acid nephropathy associated with cancer chemotherapy, *Gout and Uric & Nucleic Acids*, 43: 1; 19-26, 2019.
- 0350B007 (Mayumi Hangai), Kevin Y Urayama, Junji Tanaka, koji Kato, Satoshi Nishiwaki, Katsuyoshi Koh, Maiko Noguchi, Keisuke Kato, Nao Yoshida, Maho Sato, Hiroaki Goto, Yuki Yuza, Yoshiko Hashii, Yoshiko Atsuta, Shuichi Mizuta, Motohiro Kato: Allogeneic stem cell transplantation for acute lymphoblastic leukemia in adolescents and young adults, *Biology of Blood and Marrow Transplantation*, 25: 8; 1597-1602, 2019.
- 0350B008 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Kazue Takai, Sadao Aoki, Junya Kuroda, Makoto Ide, Keigo Setoguchi, Norifumi Tsukamoto, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Yasufumi Masaki: Is TAFRO syndrome a subtype of idiopathic multicentric Castleman disease?, *American Journal of Hematology*, 94: 9; 975-983, 2019.
- 0350B009 (Minako Mori), Asuka Hira, Kenichi Yoshida, Hideki Muramatsu, Yusuke Okuno, Yuichi Shiraishi, Michiko Anmae, Jun Yasuda, Shu Tadaka, Kengo Kinoshita, Tomoo Osumi, Yasushi Noguchi, Souichi Adachi, Ryoji Kobayashi, Hiroshi Kawabata, Kohsuke Imai, Tomohiro Morio, Kazuo Tamura, Akifumi Takaori-Kondo, Masayuki Yamamoto, Satoru Miyano, Seiji Kojima, Esturo Ito, Seishi Ogawa, Keitaro Matsuo, Hiromasa Yabe, Miharu Yabe, Minoru Takata: Pathogenic mutations identified by a multimodality approach in 117 Japanese Fanconi anemia patients, *Haematologica*, 104: 10; 1962-1973, 2019.
- 0350B010 Kurose Nozomu, Guo Xin, Shioya Akihiro, Mizutani Ken-Ichi, Kumagai Motona, Fujimoto Shino, Kawabata Hiroshi, Masaki Yasufumi, Takai Kazue, Aoki Sadao, Nakamura Shigeo, Yamada Sohsuke: The potential role of follicular helper T cells in idiopathic multicentric Castleman disease with and without TAFRO syndrome, *Pathology, research and practice*, 215: 10; 152563, 2019.
- 0350B011 (Yu Akahoshi), Satoshi Nishiwaki, Shuichi Mizuta, Kazuteru Ohashi, Naoyuki Uchida, Masatsugu Tanaka, Takahiro Fukuda, Yukiyasu Ozawa, Satoshi Takahashi, Makoto Onizuka, Souichi Shiratori, Hirohisa Nakamae, Yoshinobu Kanda, Tatsuo Ichinohe, Yoshiko Atsuta, Shinichi Kako: Tyrosine kinase inhibitor prophylaxis after transplant for Philadelphia chromosome-positive acute lymphoblastic leukemia, *Cancer Science*, 110: 10; 3255-3266, 2019.
- 0350B012 Hiroshi Kawabata, Kensuke Usuki, Maki Shindo-Ueda, Junya Kanda, Kaoru Tohyama, Akira Matsuda, Kayano Araseki, Tomoko Hata, Takahiro Suzuki, Hidekazu Kayano, Kei Shimbo, Shigeru Chiba, Takayuki Ishikawa, Nobuyoshi Arima, Masaharu Nohgawa, Yasushi Miyazaki, Mineo Kurokawa, Shunya Arai, Kinuko Mitani, Akifumi Takaori-Kondo, the Japanese National Research Group on Idiopathic Bone Marrow Failure Syndromes: Serum ferritin levels at diagnosis predict prognosis in patients with low blast count myelodysplastic syndromes, *International Journal of Hematology*, 110: 5; 533-542, 2019.

- 0350B013 Yasufumi Masaki, Hiroshi Kawabata, Shino Fujimoto, Mitsuhiro Kawano, Noriko Iwaki, Takeharu Kotani, Akikatsu Nakashima, Nozomu Kurose, Kazue Takai, Ritsuro Suzuki, Sadao Aoki: Epidemiological analysis of multicentric and unicentric Castleman disease and TAFRO syndrome in Japan, *Journal of clinical and experimental hematopathology*, 59: 4; 175–178, 2019.
- 0350B014 (Mai Nanya), Kimiko Yurugi, Itaru Kato, Hidefumi Hiramatsu, Hiroshi Kawabata, Tadakazu Kondo, Tomoki Iemura, Rie Hishida, Erika Shibutani, Keiko Matsui, Yoko Nakagawa, Norimi Niwa, Yasunari Kasai, Joseph M. Roig, Yasuyuki Arai, Yasuo Miura, Akifumi Takaori-Kondo, Taira Maekawa, Hideyo Hirai: Successful granulocyte apheresis using medium molecular weight hydroxyethyl starch, *International Journal of Hematology*, 110: 6; 729–735, 2019.

Reviews

- 0350C001 Hiroshi Kawabata: Transferrin and Transferrin receptors update, *Free Radical Biology and Medicine*, 133: 46–54, 2019.
- 0350C002 Hiroshi Kawabata: Clinical practice guidelines, *Japanese Journal of Clinical Medicine*, 77: 9; 1483–1488, 2019.

Case Reports

- 0350D001 (Sato Shuku), Teshima Shinichi, Nakamura Naoya, Ohtake Takayasu, Kikuchi Jun, Kishi Hirohisa, Nomura Kyoichi, Kurose Nozomu, Masaki Yasufumi, Tamaru Jun-Ichi: Intravascular large B-cell lymphoma involving large blood vessels, three autopsy cases, *Pathology international*, 69: 2; 97–103, 2019.
- 0350D002 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Mariko Doai, Munetaka Matoba, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Hiroki Mizumaki, Masaki Yamaguchi, Yasufumi Masaki: Osteosarcoma Manifesting Systemic Inflammation and Histological Features Mimicking Plasma Cell-type Castleman Disease, *Internal Medicine*, 58: 17; 2555–2560, 2019.

Short Communications

- 0350E001 (Koji Kato), Takehiko Mori, Sung-Won Kim, Masashi Sawa, Tomoyuki Sakai, Hisako Hashimoto, Jun Taguchi, Tatsuo Oyake, Shingo Kurahashi, Kazunori Imada, Hitoshi Ohno, Junji Tanaka, Tatsuo Ichinohe, Yoshiko Atsuta, Ritsuro Suzuki, Junji Suzumiya: Outcome of patients receiving consolidative autologous peripheral blood stem cell transplantation in the frontline treatment of intravascular large B-cell lymphoma: Adult Lymphoma Working Group of the Japan Society for Hematopoietic Cell Transplantation, *Bone Marrow Transplantation*, 54: 9; 1515–1517, 2019.
- 0350E002 (Eisei Kondo), Risa Shimizu-Koresawa, Dai Chihara, Shuichi Mizuta, Koji Izutsu, Kazuhiro Ikegame, Naoyuki Uchida, Takahiro Fukuda, Tatsuo Ichinohe, Yoshiko Atsuta, Ritsuro Suzuki, for the Adult Lymphoma Working Group of the JSHCT: Allogeneic haematopoietic stem cell transplantation for primary mediastinal large B-cell lymphoma patients relapsing after high dose chemotherapy with autologous stem cell transplantation: data from the Japan Society for Haematopoietic Cell Transplantation registry, *British Journal of Haematology*, 186: 6; e219–e223, 2019.
- 0350E003 (Satoshi Nishiwaki), Shuichi Mizuta, Kazuteru Ohashi, Takahiro Fukuda, Naoyuki Uchida, Takayoshi Tachibana, Makoto Onizuka, Yukiyasu Ozawa, Yasushi Onishi, Satoshi Takahashi, Tetsuya Eto, Hirohisa Nakamae, Junji Tanaka, Tatsuo Ichinohe, Yoshiko Astuta, Shinichi Kato, for the Adult Acute Lymphoblastic Leukemia Working Group of the Japan Society for Hematopoietic Cell Transplantation: Different impact of BCR-ABL transcripts on allogeneic hematopoietic cell transplantation from different graft sources for Ph + ALL with minimal residual disease, *American Journal of Hematology*, 94: 11; E301–E305, 2019.

Presentations at Conference

International Conference (Symposium)

- 0350H001 Kawabata H, Takaori-Kondo A, Tohyama K, Matsuda A, Masaki Y, Kurokawa M, Arai S, Mitani K: Clinical aspects of myelodysplastic syndromens in Japan, Taiwan and Japan Hematology Forum in the 2019 Joint Annual Congress of HST and TSBMT, Taipei, 2019.

0360 Department of Neurology

Faculty

Title	Name	Field of Specialization
Professor	MATSUI Makoto	Clinical neurology, Neuroimmunology, Clinical Immunology
Associate Professor	NAGAYAMA Shigemi	Clinical neurology, Neuroimmunology
Associate Professor	SANADA Mitsuru	Clinical neurology, Neurophysiology
Associate Professor	NODERA Hiroyuki	Clinical neurology, Neurophysiology
Senior Assistant Professor	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
Assistant Professor	FUJITA Michiyo	Clinical neurology
Assistant Professor	UCHIDA Nobuaki	Clinical neurology
Assistant Professor	MORI Kentaro	Molecular Biology, Developmental Biology
Assistant Professor	NAKAYAMA Takeo	Clinical neurology

Keywords of Research

neuroimmunology, clinical neurophysiology, multiple sclerosis, myasthenia gravis, cerebrovascular disease, amyotrophic lateral sclerosis, neuropathy, myopathy, neuroinfection, cerebrospinal fluid

Outline of Research

Our department is dedicated to development of new diagnostic tools and therapeutic strategies for neurologic disorders, including utilization of meticulous clinical and laboratory approaches based on neuroimaging, neurophysiological, and neuroimmunological methodologies for clarification and elucidation of key features. Accurate interpretation of those results as well as their integration with the latest scientific advancements is expected to lead to identification of factors and molecules that can be utilized for assisting diagnostic and therapeutic processes, resulting in effective treatment of patients.

Publications

Originals

- 0360B001 (Masaaki Niino), Toshiyuki Hukazawa, Jun-ichi Kira, Tatsusada Okuno, Masahiro Mori, Nobuo Sanjyo, Takashi Ohashi, Hikoaki Fukaura, Juichi Fujimori, Yoko Shimizu, Nobuhiro Mihune, Yusei Miyazaki, Eri Takahashi, Seiji Kikuchi, Dawn Langdon, Ralph H.B, Benedict, Makoto Matsui: Cognition with magnetic resonance imaging findings and social activities in patients with multiple sclerosis in a Japanese cohort, *Clinical and Experimental Neuroimmunology*, 10: 41-48, 2019.
- 0360B002 Hiroyuki Nodera, Kazuki Sogawa, Naoko Takamatsu, Shuji Hashiguchi, Miho Saito, Atsuko Mori, Yusuke Osaki, Yuishin Izumi, Ryuji Kaji: Texture analysis of sonographic muscle images can distinguish myopathic conditions, *The Journal of Medical Investigation*, 66: 3,4; 237-240, 2019.

Short Communications

- 0360E001 Kentaro Mori, Kota Tamada, Hisanori Kurooka, Makoto Matsui, Toru Takumi, Yoshifumi Yokota: Gene expression profile data of the developing small intestine of Id2-deficient mice, *Data in brief*, 24: 103717, 2019.
- 0360E002 Hiroyuki Nodera: Reply to "Artificial intelligence in the field of electrodiagnosis—A new threat or heralding a new era in electromyography?", *Clinical Neurophysiology*, 130: 1997, 2019.

0363 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology
Professor	YASUMOTO Kazuo	Clinical Cancer, Gastric Cancer, Target therapy
Senior Assistant Professor	HISAMURA Kazuho	Psycho-Oncology, Oncology social Work, Palliative care
Assistant Professor	KASAI Suguru	Medical Oncology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0363B001 Motoo Y, Yukawa K, Arai I, Hisamura K, Tsutani K: Use of complementary and alternative medicine in Japan: a cross-sectional internet survey using the Japanese version of the International Complementary and Alternative Medicine Questionnaire, *JMA Journal*, 2: 1; 35-46, 2019.
- 0363B002 Motoo Y, Yukawa K, Hisamura K, Tsutani K, Arai I: Internet survey on the provision of complementary and alternative medicine in Japanese private clinics: a cross-sectional study, *Journal of integrative medicine*, 17: 1; 8-13, 2019.
- 0363B003 (Amano K), Ichikura K, Hisamura K, Motomatsu Y, Matsushima E: Factors Associated with Social Support Needs of Spouses of Patients with Cancer: Online Survey, *International Journal of Clinical Medicine*, 10: 270-292, 2019.
- 0363B004 Yui Sasaki, Chunhoo Cheon, Yoshiharu Motoo, Soobin Jang, Sunju Park, Seong-Gyu Ko, Bo-Hyoung Jang, Deok-Sang Hwang: Complementary and Alternative Medicine for Breast Cancer Patients: An Overview of Systematic Reviews, *YAKUGAKU ZASSHI*, 139: 7; 1027-1046, 2019.
- 0363B005 (Hosaka M), Arai I, Ishiura Y, Ito T, Seki Y, Naito T, Matsuzawa Y, Nakayama T, Motoo Y: Efficacy of daikenchuto, a traditional Japanese Kampo medicine, for postoperative intestinal dysfunction in patients with gastrointestinal cancers: meta-analysis, *International Journal of Clinical Oncology*, 24: 11; 1385-1396, 2019.
- 0363B006 (Huang CW), Tran DNH, Li TF, Sasaki Y, Lee JA, Lee MS, Arai I, Motoo Y, Yukawa K, Tsutani K, Ko SG, Hwang SJ, Chen FP: The utilization of complementary and alternative medicine in Taiwan: An internet survey using an adapted version of the international questionnaire (I-CAM-Q), *Journal of the Chinese Medical Association*, 82: 8; 656-671, 2019.

Reviews

- 0363C001 (Takayama S), Arita R, Ohsawa M, Kikuchi A, Yasui H, Makino T, Motoo Y, Ishii T: Perspectives on the use of ninjin'yoeito in modern medicine: a review of randomized controlled trials, Evidence-Based Complementary and Alternative Medicine, 2019: 9590260, 2019.
- 0363C002 Miwa T, Ikeda K, Ishibashi T, Kobayashi M, Kondo K, Matsuwaki Y, Ogawa T, Shiga H, Suzuki M, Tsuzuki K, Furuta A, Motoo Y, Fujieda S, Kurono Y: Clinical practice guidelines for the management of olfactory dysfunction – Secondary publication, Auris Nasus Larynx, 46: 5; 653–662, 2019.

Others

- 0363F001 Motoo Y: Nivolumab-related sclerosing cholangitis in gastric cancer, Internal Medicine, 58: 9; 1197, 2019.

Presentations at Conference

International Conference (Symposium)

- 0363H001 Motoo Y, Tomita Y, Fujita H: Prophylactic efficacy of ninjin'yoeito for oxaliplatin-induced cumulative peripheral neuropathy in patients with colorectal cancer receiving postoperative adjuvant chemotherapy: a randomized, phase 2 trial (HOPE-2), 5th International Symposium for Japanese Kampo Medicine, Hann. Munden, 2019.

International Conference (Presentations)

- 0363I001 (Tsuzuki K), Miwa T, Ikeda K, Ishibashi T, Kobayashi M, Kondo K, Ogawa T, Matsuwaki Y, Suzuki M, Furuta A, Shiga H, Motoo Y, Fujieda S, Kurono Y: Establishment of the new clinical practice guidelines for the management of olfactory dysfunction in Japan, Korean Rhinologic Society Annual Congress 2019, Seoul, 2019.
- 0363I002 Motoo Y, Yukawa K, Hisamura K, Arai I: Usability of the evidence-based Japanese Integrative Medicine (eJIM) information site: interviews and internet surveys on physicians, 2019 International Congress on Complementary Medicine Research, Brisbane, 2019.

0366 Department of Infectious Diseases

Faculty

Title	Name	Field of Specialization
Professor	IINUMA Yoshitsugu	Clinical Infectious Diseases, Infection Control and Prevention
Associate Professor	KAWAI Yasuhiro	Clinical Infectious Diseases, Infection Control and Prevention
Assistant Professor (Additional Post)	USUDA Daisuke	Clinical Infectious Diseases, Infection Control and Prevention

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0366B001 Yumi Nakamoto, Shiho Iida, Shoutarou Murai, Yuna Hashimoto, Eiko Nishida, Keiko Yamazaki, Nao Miyakawa, Yoshitsugu Iinuma: Effect of continuous skin perfusion pressure (SPP) measurement on examination results, 68: 1; 132-137, 2019.
- 0366B002 Yoshihiro Nishita, Masatoshi Taga, Yasuhiro Kawai, Yoko Noda, Yoshiko Nakagawa, Yoshitsugu Iinuma, Osamu Niwa: Feasibility and Value of Developing an Age-stratified Antibiogram, 34: 2; 115-121, 2019.
- 0366B003 (Kawamura K), Kitaoka K, Kimura K, Wachino JI, Kondo T, Iinuma Y, Murakami N, Fujimoto S, Arakawa Y: Spread of seb-Positive Methicillin-Resistant Staphylococcus aureus SCCmec Type II-ST764 Among Elderly Japanese in Nonacute Care Settings, Microbial drug resistance, 25: 915-924, 2019.
- 0366B004 Higashikawa Toshihiro, Shigemoto Kenji, Goshima Kenichi, Usuda Daisuke, Okuro Masashi, Moriyama Manabu, Inujima Hiromi, Hangyou Masahiro, Usuda Kimiko, Morimoto Shigeto, Matsumoto Tadami, Takashima Shigeki, Kanda Tsugiyasu, Sawaguchi Takeshi: Urinary retention as a postoperative complication associated with functional decline in elderly female patients with femoral neck and trochanteric fractures A retrospective study of a patient cohort, MEDICINE, 98: 24; e16023, 2019.
- 0366B005 (Yanagihara K), Matsumoto T, Aoki N, Sato J, Wakamura T, Kiyota H, Tateda K, Hanaki H, Ohsaki Y, Fujiuchi S, Takahashi M, Akiba Y, Masunaga S, Takeuchi K, Takeda H, Miki M, Kumagai T, Takahashi H, Utagawa M, Nishiya H, Kawakami S, Ishigaki S, Kobayasi N, Takasaki J, Mezaki K, Iwata S, Katouno Y, Inose R, Niki Y, Kawana A, Fujikura Y, Kudo M, Hirano T, Yamamoto M, Miyazawa N, Tsukada H, Aso S, Yamamoto Y, Iinuma Y, Mikamo H, Yamagishi Y, Nakamura A, Ohashi M, Kawabata A, Sugaki Y, Seki M, Hamaguchi S, Toyokawa M, Takeya H, Fujikawa Y, Mitsuno N, Ukimura A, Miyara T, Hayasi M, Mikasa K, Kasahara K, Koizumi A, Korohasi N, Matsumoto T, Yosimura Y, Katanami Y, Takesue Y, Wada Y, Sugimoto K, Yamamoto T, Kuwabara M, Doi M, Simizu S, Tokuyasu H, Hino S, Negayama K, Mukae H, Kawanami T, Yatera K, Fujita M, Kadota J, Hiramatsu K, Aoki Y, Magarifuchi H, Oho M, Morinaga Y, Suga M, Muranaka H, Fujita J, Higa F, Tateyama M: Nationwide surveillance of bacterial respiratory pathogens conducted by the surveillance committee of Japanese Society of Chemotherapy, the Japanese Association for Infectious Diseases, and the Japanese Society for clinical microbiology in 2014: General view of the pathogens' antibacterial susceptibility, Journal of infection and chemotherapy, 25: 9; 657-668, 2019.

Case Reports

- 0366D001 Katsuhiro Nagata, Yoshi Tanaka, Masami Matsumoto, Aya Hashimoto, Fumina Yamaguchi, Shizuyo Nakagawa, Yoshitame Yanaida, Yoshitsugu Inuma: Characteristics of Tosufloxacin crystals and crystal casts observed in urine sediment of infants, 68: 4; 751-757, 2019.

Presentations at Conference

International Conference (Symposium)

- 0366H001 Inuma Y: Antimicrobial Stewardship in Japan and at My Own Institute, 2019 General meeting of the Korean society of clinical microbiology, Busan, 2019.

0368 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
Professor	NAKASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Professor	FURUTA Hisakazu	Sleep-wake disorders
Professor	UENISHI Hiroaki	Cardiovascular Medicine
Professor (Additional Post)	KASAMAKI Yuji	Field of Specialization, Cardiology, General Practice, Electrocardiology, Arrhythmia, Echocardiography
Associate Professor	AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology
Associate Professor	MORIYA Junji	General medicine, Kampo medicine
Associate Professor (Additional Post)	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Assistant Professor	SAWADA Mio	Kampo medicine, Women medical care
Assistant Professor	YAMASAKI Naruhiro	General practice, Community medicine

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0368B001 (Kenichi Hashimoto), Yuji Kasamaki, Masayoshi Soma, Bonpei Takase: Diurnal variation of frequency domain T-wave alternans on 24-hour ambulatory electrocardiogram in subjects without heart disease: Significant effect of autonomic nervous activity of the heart, *Annals of Noninvasive Electrocardiology*, 24: 3; e12620, 2019.
- 0368B002 Meng X, Guo X, Zhang J, Moriya J, Kobayashi J, Yamaguchi R, Yamada S: Acupuncture on ST36, CV4 and KI1 Suppresses the Progression of Methionine- and Choline-Deficient Diet-Induced Nonalcoholic Fatty Liver Disease in Mice, *Metabolites*, 9: 12; 299, 2019.

Presentations at Conference

International Conference (Presentations)

- 0368I001 Tsuda Ryosuke: Load characteristics of small-sided games in soccer from the viewpoint of improvement in physical fitness : the effect of rule changes, ECSS Prague 2019, Czech, 2019.

0370 Department of Geriatric Medicine

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0370B001 Harita M, Miwa T, Shiga H, Yamada K, Sugiyama E, Okabe Y, Miyake Y, Okuno T, Iritani O, Morimoto S: Association of olfactory impairment with indexes of sarcopenia and frailty in community-dwelling older adults, *Geriatrics & Gerontology International*, 19: 5; 384-391, 2019.
- 0370B002 Higashikawa Toshihiro, Shigemoto Kenji, Goshima Kenichi, Usuda Daisuke, Okuro Masashi, Moriyama Manabu, Inujima Hiromi, Hangyou Masahiro, Usuda Kimiko, Morimoto Shigeto, Matsumoto Tadami, Takashima Shigeki, Kanda Tsugiyasu, Sawaguchi Takeshi: Urinary retention as a postoperative complication associated with functional decline in elderly female patients with femoral neck and trochanteric fractures A retrospective study of a patient cohort, *MEDICINE*, 98: 24; e16023, 2019.
- 0370B003 Igarashi Y, Okuno T, Kodera K, Iritani O, Hamazaki Y, Himeno T, Yano H, Okuro M, Morita T, Morimoto S: Non-participation in health checkup and Kihon Checklist predicts loss of certification-free survival in community-dwelling older adults, *Geriatrics & Gerontology International*, 19: 12; 1206-1214, 2019.

Presentations at Conference

International Conference (Presentations)

- 0370I001 Masashi Okuro: Significance of intervention by geriatric medical society specialists in proximal femoral fractures and collaboration of other occupations, 4th Geriatric Innovation Forum, Nagoya, 2019.

0380 Department of Pediatrics

Faculty

Title	Name	Field of Specialization
Professor	SAIKAWA Yutaka	Pediatric hematology, Pediatric oncology
Senior Assistant Professor	ITOH Masatsune	Pediatric endocrinology, Pediatric metabolism, Inborn errors of metabolism
Senior Assistant Professor	SATO Hitoshi	Infectious disease in children, Molecular biology, Child neurology, Inborn errors of metabolism
Senior Assistant Professor	AKITA Chisato	Pediatric cardiology
Senior Assistant Professor	OKADA Naoki	Pediatric hematology, Pediatric oncology
Senior Assistant Professor	KOBAYASHI Azusa	Neonatology
Senior Assistant Professor (Additional Post)	FUJIKI Takuma	Pediatric Nephrology
Assistant Professor	IKENO Kanjyu	Child neurology
Assistant Professor	TOKI Shin	Pediatric allergy
Assistant Professor	SHIMIZU Yo	Fetology
Assistant Professor	FUJISAWA Reiko	Pediatric hematology, Pediatric oncology

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 (Keiko Matsubara), Masatsune Itoh, Kenji Shimizu, Shinji Saito, Keisuke Enomoto, Kazuhiko Nakabayashi, Kenichiro Hata, Kenji Kurosawa, Tsutomu Ogata, Maki Fukami, Masayo Kagami: Exploring the unique function of imprinting control centers in the PWS/AS-responsible region: finding from array-based methylation analysis in cases with variously sized microdeletions, *Clinical Epigenetics*, 11: 1; 36, 2019.

Reviews

- 0380C001 Toshimi Nakamura, Yutaka Saikawa: Inhalation Therapy for Children with Bronchial Asthma, *The journal of Japan Society for Infection and Aerosol in Otorhinolaryngology*, 7: 3; 111-115, 2019.

Case Reports

- 0380D001 Yasui Yoshitomo, Sato Hitoshi, Niida Yo, Kohno Miyuki: Spinal muscular atrophy with respiratory distress type 1 associated with novel compound heterozygous mutations in IGHMBP2: Differential diagnosis in a case with congenital diaphragm eventration, *Congenital anomalies*, 59: 22-23, 2019.

0390 Department of Neuropsychiatry

Faculty

Title	Name	Field of Specialization
Professor	KAWASAKI Yasuhiro	Cognitive neurosciences, Neuropsychology, Neuroimaging, Psychopharmacology, Neurophysiology
Associate Professor	UEHARA Takashi	Neuropharmacology
Senior Assistant Professor	WATANABE Kenichiro	Neuropsychology, Neuropharmacology
Senior Assistant Professor	OHI Kazutaka	Psychiatry, Genetics, Neuropsychopharmacology, Biological Psychiatry, Imaging
Senior Assistant Professor	NAGASAWA Tatsuya	General hospital psychiatry, psychophysiology
Senior Assistant Professor	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
Senior Assistant Professor	NITTA Yusuke	Consultation liaison psychiatry
Assistant Professor	HASHIMOTO Reiko	Psychotherapy, Clinical Psychology
Assistant Professor	KIHARA Hiroaki	Brain imaging,, Schizophrenia
Assistant Professor	SHIMADA Takamitsu	Brain imaging,, Schizophrenia
Assistant Professor	OKUBO Hiroaki	Psychiatry, Neurophysiology
Assistant Professor	OSHIMA Kazuaki	Psychiatry

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, rTMS

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 music therapy for dementia
- 7.Study on repetitive transcranial magnetic stimulation for depression

Publications

Originals

- 0390B001 Kazutaka Ohi, Takamitsu Shimada, Aki Kuwata, Yuzuru Kataoka, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Smoking Rates and Number of Cigarettes Smoked per Day in Schizophrenia: A Large Cohort Meta-Analysis in a Japanese Population, The international journal of neuropsychopharmacology, 22: 1; 19-27, 2019.

- 0390B002 (Kazunori Matsumoto), Noriyuki Ohmuro, Naohisa Tsujino, Shimako Nishiyama, Koichi Abe, Yumiko Hamaie, Masahiro Katsura, Naomi Inoue, Hiroo Matsuoka, Yasuhiro Kawasaki, Toshifumi Kishimoto, Michio Suzuki, Masafumi Mizuno: Open-label study of cognitive behavioural therapy for individuals with at-risk mental state: Feasibility in the Japanese clinical setting, *Early Intervention in Psychiatry*, 13: 137–141, 2019.
- 0390B003 (Zhao QL), Ito H, Kondo T, Uehara T, Ikeda M, Abe H, Saitoh JI, Noguchi K, Suzuki M, Kurachi M: Antipsychotic drugs scavenge radiation-induced hydroxyl radicals and intracellular ROS formation, and protect apoptosis in human lymphoma U937 cells, *Free Radical Research*, 53: 3; 304–312, 2019.
- 0390B004 Ohi Kazutaka, Shimada Takamitsu, Kataoka Yuzuru, Koide Yoko, Yasuyama Toshiki, Uehara Takashi, Okubo Hiroaki, Kawasaki Yasuhiro: Intelligence decline between present and premorbid IQ in schizophrenia: Schizophrenia Non-Affected Relative Project (SNARP), *European neuropsychopharmacology*, 29: 5; 653–661, 2019.
- 0390B005 Kazutaka Ohi, Aki Kuwata, Takamitsu Shimada, Yuzuru Kataoka, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Genome-Wide Variants Shared Between Smoking Quantity and Schizophrenia on 15q25 Are Associated With CHRNA5 Expression in the Brain, *Schizophrenia Bulletin*, 45: 4; 813–823, 2019.
- 0390B006 Kazutaka Ohi, Yuzuru Kataoka, Takamitsu Shimada, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Meta-analysis of physical activity and effects of social function and quality of life on the physical activity in patients with schizophrenia, *European Archives of Psychiatry and Clinical Neurosciences*, 269: 5; 517–527, 2019.
- 0390B007 Ohi Kazutaka, Sumiyoshi Chika, Fujino Haruo, Yasuda Yuka, Yamamori Hidenaga, Fujimoto Michiko, Sumiyoshi Tomiki, Hashimoto Ryota: A 1.5-Year Longitudinal Study of Social Activity in Patients With Schizophrenia, *Frontiers in Psychiatry*, 10: 567, 2019.
- 0390B008 (Furuichi Atsushi), Kawasaki Yasuhiro, Takahashi Tsutomu, Nakamura Kazue, Tanino Ryoichiro, Noguchi Kyo, Kurachi Masayoshi, Suzuki Michio: Altered neural basis of self-reflective processing in schizophrenia: An fMRI study, *Asian Journal of Psychiatry*, 45: 53–60, 2019.
- 0390B009 (Takaesu Yoshikazu), Watanabe Koichiro, Numata Shusuke, Iwata Masaaki, Kudo Noriko, Oishi Satoru, Takizawa Takeya, Nemoto Kiyotaka, Yasuda Yuka, Tagata Hiromi, Tsuboi Takashi, Tsujino Naohisa, Hashimoto Naoki, Matsui Yuki, Hori Hikaru, Yamamori Hidenaga, Sugiyama Nobuhiro, Suwa Taro, Kishimoto Taishiro, Hishimoto Akitoyo, Usami Masahide, Furihata Ryuji, Iwamoto Kunihiko, Fujishiro Hiroshige, Nakamura Toshinori, Mizuno Kentaro, Inagak, Takahiko, Katsumoto Eiichi, Tomita Hiroaki, Ohi Kazutaka, Muraoka Hiroyuki, Atake Kiyokazu, Iida Hitoshi, Nagasawa Tatsuya, Fujita Junichi, Yamamura Satoshi, Onitsuka Toshiaki, Murata Atsunobu, Takayanagi Yoichiro, Noda Hokuto, Matsumura Yukiko, Takezawa Kenji, Iga Jun-ichi, Ichihashi Kayo, Ogasawara Kazuyoshi, Yamada Hisashi, Inada Ken, Hashimoto Ryota: Improvement of psychiatrists' clinical knowledge of the treatment guidelines for schizophrenia and major depressive disorders using the 'Effectiveness of Guidelines for Dissemination and Education in Psychiatric Treatment (EGUIDE)' project: A nationwide dissemination, education, and evaluation study, *Psychiatry and clinical neurosciences*, 73: 10; 642–648, 2019.

Short Communications

- 0390E001 Yoneyama Satoko, Tanaka Koji, Matsuda Yukihiisa, Hashimoto Reiko, Ishizaki Masao, Tamai Akira, Kawasaki Yasuhiro: Relationship of neighborly ties with cognitive decline and total mood disturbances in older adult residents of depopulated areas in Japan: The Ninchisho (Dementia) Supporter Caravan Himi Study, *Psychiatry and clinical neurosciences*, 73: 12; 763–765, 2019.

Presentations at Conference

International Conference (Symposium)

- 0390H001 Ohi K: Cognitive impairments in schizophrenia: Drug discovery strategy and potential targets, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.

International Conference (Presentations)

- 0390I001 Ohi K, Shimada T, Kataoka Y, Uehara T, Kawasaki Y: Genome-wide variants shared between smoking quantity and schizophrenia on 15q25 are associated with CHRNA5 expression in the brain, 1st AsCNP-ASEAN International Congress of Neuropsychopharmacology, Republik Indonesia, 2019.
- 0390I002 Yuzuru KATAOKA, Kazutaka OHI, Takamitsu SHIMADA, Hiroaki OKUBO, Takashi UEHARA, Yasuhiro KAWASAKI: Difference in executive function among with patients with schizophrenia, their first-degree relatives and healthy subjects, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.
- 0390I003 Takamitsu SHIMADA, Kazutaka OHI, Yuzuru KATAOKA, Yoko KOIDE, Hiroaki OKUBO, Takashi UEHARA: Impaired social functions in patients with schizophrenia and their first-degree relatives, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.
- 0390I004 Kazutaka OHI, Takeshi OTOWA, Mihoko SHIMADA, Tsukasa SASAKI, Hisashi TANII: Shared Genetic Etiology between Anxiety Disorders and Psychiatric and Related Intermediate Phenotypes, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.

0400 Department of Radiology

Faculty

Title	Name	Field of Specialization
Professor	MATOKA Munetaka	Interventional Radiology, Diagnostic Imaging, Radiation therapy
Professor	WATANABE Naoto	Nuclear Medicine
Professor	MINAMI Tetsuya	Interventional Radiology
Senior Assistant Professor	DOAI Mariko	Diagnostic Imaging
Senior Assistant Professor	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging
Assistant Professor	OTA Kiyotaka	Radiation Therapy, Nuclear Medicine
Assistant Professor	KONDO Tamaki	Diagnostic Imaging
Assistant Professor	TSUCHIYA Naoko	Diagnostic Imaging
Assistant Professor	TOYOTA Ichiro	Diagnostic Imaging
Assistant Professor	TSUCHIYA Hirokazu	Diagnostic Imaging, Interventional Radiology
Assistant Professor	OKIMURA Yotaro	Diagnostic Imaging, Interventional Radiology
Assistant Professor	TATEBE Hitoshi	Radiation Therapy

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0400B001 Mariko Doai, Hisao Tonami, Munetaka Matoba, Osamu Tachibana, Hideaki Iizuka, Satoko Nakada, Sohsuke Yamada: Pituitary macroadenoma: Accuracy of apparent diffusion coefficient magnetic resonance imaging in grading tumor aggressiveness, *The Neuroradiology Journal*, 32: 2; 86-91, 2019.
- 0400B002 Usuda Katsuo, Iwai Shun, Funasakr Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-weighted magnetic resonance imaging is useful for the response evaluation of chemotherapy and/or radiotherapy to recurrent lesions of lung cancer, *Translational Oncology*, 12: 5; 699-704, 2019.

- 0400B003 Usuda Katsuo, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-Weighted Imaging Can Differentiate between Malignant and Benign Pleural Diseases, *Cancers*, 11: 811, 2019.
- 0400B004 Shiga H, Okuda K, Taki J, Watanabe N, Tonami H, Kinuya S, Miwa T: Nasal thallium-201 uptake in patients with parosmia with and without hyposmia after upper respiratory tract infection, *International forum of allergy & rhinology*, 9: 11; 1252-1256, 2019.
- 0400B005 Atsushi Sekimura, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Sohsuke Yamada, Hidetaka Uramoto, Munetaka Matoba: Sugical resection of lung cancer with interstitial pneumonia:short-term outcomes, *Journal of kanazawa medical university*, 44: 63-67, 2019.
- 0400B006 Koichi Okuda, Naoto Watanabe, Mitsumasa Hashimoto, Mariko Doai, Yasuyuki Kawai, Tomoko Takahashi, Tomohiro Arikawa, Kazumasa Ooiso, Yumi Sunatani, Kuniyoshi Iwabuchi, Koji Kajinami, Munetaka Matoba: Preliminary quantitative evaluation of radiation-induced DNA damage in peripheral blood lymphocytes after cardiac dual-isotope imaging, *Applied Radiation and Isotopes*, 154: 108890, 2019.

Reviews

- 0400C001 (Norihide Yoneda), Osamu Matsui, Satoshi Kobayashi, Azusa Kitao, Kazuto Kozaka, Dai Inoue, Kotaro Yshida, Tetsuya Minami, Wayaru Koda, Toshifumi Gabata: Current status of imaging biomarkers predicting the biological nature of hepatocellular carcinoma, *Japanese journal of radiology*, 37: 3; 191-208, 2019.
- 0400C002 Mariko Doai, Naoko Tsuchiya, Hisao Tonami, Munetaka Matoba, Katsuo Usuda, Hidetaka Uramoto, Keiya Hirata: Apparent Diffusion Coefficient Values in Diffusion Weighted Imaging for Assessment of Non-small Cell Lung Cancer, *Japan-Germany medical reports*, 64: 1; 15-20, 2019.
- 0400C003 Munetaka Matoba: Present Status and Perspectives in Advanced Radiation Therapy, *Journal of Kanazawa Medical University*, 44: 1; 1-6, 2019.
- 0400C004 Kazuaki Okino, Yuki Okushi, Kiyotaka Mukai, Norifumi Hayashi, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: Update of Findings of Hepatitis C Virus Infection in Renal Allograft Recipients, *Journal of Kanazawa Medical University*, 44: 1; 7-13, 2019.

Case Reports

- 0400D001 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Mariko Doai, Munetaka Matoba, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Hiroki Mizumaki, Masaki Yamaguchi, Yasufumi Masaki: Osteosarcoma Manifesting Systemic Inflammation and Histological Features Mimicking Plasma Cell-type Castleman Disease, *Internal Medicine*, 58: 17; 2555-2560, 2019.

Presentations at Conference

International Conference (Presentations)

- 0400I001 Kazuaki Okino, Yuki Okushi, Kiyotaka Mukai, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: A comparison of Japanese renal allograft long-term outcomes in peritoneal and hemodialysis patients, *APCM-ISPDP 2019*, Nagoya, 2019.
- 0400I002 Miyatake Nobuhiko, Adachi Hiroki, Okada Keiichiro, Okino Kazuaki, Fujimoto Keiji, Furuichi Kengo, Yokoyama Hitoshi: The Serum CTRP9 Concentration Correlates with Cardiovascular Risk in Renal Allograft Recipients, *ASN KIDNEY WEEK 2019*, Washington, 2019.

0410 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
Professor	SAKAMOTO Shigeru	Cardiovascular Surgery
Professor	ANDO Makoto	Pediatric cardiac surgery
Associate Professor	NAGAYOSHI Yasuhiro	Cardiovascular Surgery
Senior Assistant Professor	SAKAMOTO Daisuke	Cardiovascular Surgery
Assistant Professor	ICHIMORI Yuuki	Cardiovascular Surgery

Keywords of Research

cardiovascular Surgery, Ischemic Heart Surgery, Valvular heart Surgery, ASO, TAO, TEVAR, EVAR, Left and Right ventricular assist system (L & R VAS), Cardiac surgery for severe heart failure, Raser surgery, CABG, OPCAB, Dor'S operation, IABP , PCPS, Batista's operation, Pacemaker implantation, Adult cardiac surgery, Pediatric cardiac surgery

Publications

Originals

- 0410B001 Daisuke Sakamoto, Kazuhiro Okamoto, Yuma Katoh, Keiko Kawasaki, Nobuo Yamaguchi: Hot spring hydro therapy regulates hypothalamus system together with recovery of hearing loss, EC Paediatrics, 8: 4; 288-303, 2019.
- 0410B002 Daisuke Sakamoto, Yasuhiro nagayoshi, Yuma Katoh, Yujiroh Kojima, Nobuo Yamaguchi, Shigeru Sakamoto: Acquired immuno-deficiencies along in cardio vascular disease-special reference to heparinized system, EC Cardiology, 6: 7; 667-680, 2019.
- 0410B003 Yasuhiro Nagayoshi, Daisuke Sakamoto, Yuma Katoh, Yujiroh Kojima, Nobuo Yamaguchi, Shigeru Sakamoto: Quantitative aspect of constitutive regulation of immunological factors by surgical operation in malignant colon cancer, EC Paediatrics, 8: 7; 654-663, 2019.
- 0410B004 Ando Makoto: Effect of internal fixation of the sternum using bioabsorbable pins in small children, Journal of Cardiac Surgery, 34: 983-987, 2019.

0415 Department of Thoracic Surgery

Faculty

Title	Name	Field of Specialization
Professor	URAMOTO Hidetaka	Thoracic Surgery, Video assisted thoracoscopic surgery, Lung Cancer, extended surgery, mediastinal tumor, interventional bronchology, robot assisted thoracic surgery
Professor	USUDA Katsuo	thoracic surgery, video assisted thoracoscopic surgery, lung cancer, mediastinal tumor, early lung cancer, interventional bronchology, clinical cytology, MRI diagnosis
Senior Assistant Professor	MOTONO Nozomu	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	SEKIMURA Atsushi	thoracic surgery
Assistant Professor	FUNASAKI Aika	thoracic surgery

Keywords of Research

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

Outline of Research

Lung tumor

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

Mediastinal and pleural tumors

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

Lung injury

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

New instruments

1. Bronchoscopy
2. Thoracoscopy

Publications

Originals

- 0415B001 Motono Nozomu, Iwai Shun, Funasaki Aika, Sekimura Atsush, Usuda Katsuo, Uramoto Hidetaka: What is the allowed volume threshold for chest tube removal after lobectomy: A randomized controlled trial, *Annals of medicine and surgery*, 43: 29–32, 2019.
- 0415B002 (Maeda Ryo), Tomita Masaki, Usuda Katsuo, Uramoto Hidetaka: Clinicopathologic characteristics of non-small cell lung cancer in patients with smoking-related chronic obstructive pulmonary disease, *General thoracic and cardiovascular surgery*, 67: 2; 239–246, 2019.
- 0415B003 Motono Nozomu, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: Low-dose indocyanine green fluorescence-navigated segmentectomy: prospective analysis of 20 cases and review of previous reports, *Journal of Thoracic Disease*, 11: 3; 702–707, 2019.
- 0415B004 (Homma Hiroshi), Oda Jun, Sano Hidefumi, Kawai Kentaro, Koizumi Nobusato, Uramoto Hidetaka, Sato Norio, Mashiko Kazuki, Yasumatsu Hiroshi, Ito Masayuki, Fukuhara Tomomi, Watanabe Yo, Kim Shiei, Hayashi Shogo, Kawata Shinichi, Miyawaki Makoto, Miyaso Hidenobu, Itoh Masahiro: Advanced cadaver-based educational seminar for trauma surgery using saturated salt solution-embalmed cadavers, *Acute medicine & surgery*, 6: 2; 123–130, 2019.
- 0415B005 Usuda Katsuo, Iwai Shun, Funasakr Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-weighted magnetic resonance imaging is useful for the response evaluation of chemotherapy and/or radiotherapy to recurrent lesions of lung cancer, *Translational Oncology*, 12: 5; 699–704, 2019.
- 0415B006 (Nakao Akira), Hiranuma Osamu, Uchino Junji, Sakaguchi Chikara, Kita Toshiyuki, Hiraoka Noriya, Ishizuka Tamotsu, Kubota Yutaka, Kawasaki Masayuki, Goto Yasuhiro, Imai Hisao, Hattori Noboru, Nakatomi Keita, Uramoto Hidetaka, Uryu Kiyooki, Fukuda Minoru, Uchida Yasuki, Yokoyama Toshihide, Akai Masaya, Mio Tadashi, Nagashima Seiji, Chihara Yusuke, Tamiya Nobuyo, Kaneko Yoshiko, Mouri Takako, Yamada Tadaaki, Yoshimura Kenichi, Fujita Masaki, Takayama Koichi: Osimertinib in Elderly Patients with Epidermal Growth Factor Receptor T790M-Positive Non-Small-Cell Lung Cancer Who Progressed During Prior Treatment: A Phase II Trial, *The oncologist*, 24: 593–e170, 2019.
- 0415B007 Usuda Katsuo, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Motono Nozomu, Matoba Munetaka, Doai Mariko, Yamada Sohsuke, Ueda Yoshimichi, Uramoto Hidetaka: Diffusion-Weighted Imaging Can Differentiate between Malignant and Benign Pleural Diseases, *Cancers*, 11: 811, 2019.
- 0415B008 Nozomu Motono, Shun Iwai, Aika Funasaki, Atsushi Sekimura, Katsuo Usuda, Hidetaka Uramoto: Postoperative complication after non-small cell lung cancer resection is a prognostic factor, *Clinics in surgery*, 4: 2493, 2019.
- 0415B009 Sekimura Atsushi, Funasaki Aika, Iwai Shun, Motono Nozomu, Usuda Katsuo, Uramoto Hidetaka: Thoracoscopic small pulmonary nodule detection using computed tomography-guided cutaneous marking and pleural marking, *Journal of Thoracic Disease*, 11: 7; 2745–2753, 2019.
- 0415B010 Kenichi Mizutani, Xin Guo, Akihiro Shioya, Jing Zhang, Jianbo Zheng, Nozomu Kurose, Hiroaki Ishibashi, Nozomu Motono, Hidetaka Uramoto, Sohsuke Yamada: The impact of PRDX4 and the EGFR mutation status on cellular proliferation in lung adenocarcinoma, *International journal of medical sciences*, 16: 9; 1199–1206, 2019.
- 0415B011 Atsushi Sekimura, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Sohsuke Yamada, Hidetaka Uramoto, Munetaka Matoba: Sugical resection of lung cancer with interstitial pneumonia: short-term outcomes, *Journal of kanazawa medical university*, 44: 63–67, 2019.
- 0415B012 Motona Kumagai, Xin Guo, Ke-Yong Wang, Hiroto Izumi, Manabu Tsukamoto, Tamiji Nakashima, Takashi Tasaki, Nozomu Kurose, Hidetaka Uramoto, Yasuyuki Sasaguri, Kimitoshi Kohno, Sohsuke Yamada: Depletion of WNT10A Prevents Tumor Growth by Suppressing Microvessels and Collagen Expression, *International journal of medical sciences*, 16: 3; 416–423, 2019.

Reviews

- 0415C001 Mariko Doai, Naoko Tsuchiya, Hisao Tonami, Munetaka Matoba, Katsuo Usuda, Hidetaka Uramoto, Keiya Hirata: Apparent Diffusion Coefficient Values in Diffusion Weighted Imaging for Assessment of Non-small Cell Lung Cancer, Japan-Germany medical reports, 64: 1; 15-20, 2019.

Case Reports

- 0415D001 Motono Nozomu, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: A Case of Bronchial Occlusion with an Endobronchial Watanabe Spigot for the Treatment of Fistula Between Bronchi and Iliopsoas Abscess due to Crohn's Disease, The Journal of the Japan Society for Respiratory Endoscopy, 41: 5; 463-467, 2019.
- 0415D002 Sekimura Atsushi, Iwai Shun, Funasaki Aika, Motono Nozomu, Usuda Katsuo, Uramoto Hidetaka: Lung cancer combined with methotrexate-associated lymphoproliferative disorder: A case report, International journal of surgery case reports, 59: 161-164, 2019.
- 0415D003 Xin Guo, Jiro Watanabe, Kenji Takahashi, Tatsuro Hayashi, Nozomu Kurose, Yasuyuki Sasaguri, Hidetaka Uramoto, Hiromi Iwagaki, Kazuki Nabeshima, Sohsuke Yamada: Localized Malignant Pleural Mesothelioma Arising in the Interlobar Fissure: A Unique Surgical Case Masquerading Clinicopathologically as Primary Lung Adenocarcinoma, SAGE Open Medical Case Reports, 7: 1-5, 2019.
- 0415D004 Iwai Shun, Funasaki Aika, Motono Nozomu, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: A case of intrathoracic beaded schwannomas originating from multiple intercostal nerves, The Journal of the Japanese Association for Chest Surgery, 33: 1; 85-89, 2019.
- 0415D005 Funasaki Aika, Iwai Shun, Motono Nozomu, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: Multilocular thymic cyst that required differentiation from malignant lymphoma : Report of a case, The Journal of the Japanese Association for Chest Surgery, 33: 2; 156-160, 2019.
- 0415D006 Motono Nozomu, Shimada Kenichi, Kamata Toru, Uramoto Hidetaka: Sternal resection and reconstruction for metastasis due to breast cancer: the Marlex sandwich technique and implantation of a pedicled latissimus dorsi musculocutaneous flap, Journal of cardiothoracic surgery, 14: 79, 2019.
- 0415D007 Motono Nozomu, Iwai Shun, Funasaki Aika, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: Indocyanine green fluorescence-guided thoracoscopic pulmonary resection for intralobar pulmonary sequestration: a case report, Journal of medical case reports, 13: 228, 2019.
- 0415D008 Sekimura Atsushi, Iwai Shun, Funasaki Aika, Motono Nozomu, Usuda Katsuo, Uramoto Hidetaka: Endobronchial Lipoma with Atelectasis Removed with Bronchoscopy, The Journal of the Japan Society for Respiratory Endoscopy, 41: 5; 441-445, 2019.
- 0415D009 Yuki Tsujiguchi, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Katsuaki Sato, Hidetaka Uramoto: A resected case of invasive thymoma successfully treated with preoperative steroid pulse therapy, The Hokuriku Journal of Surgery, 38: 1; 5-8, 2019.

Presentations at Conference

International Conference (Presentations)

- 0415I001 H.Yoshida, C.Nakashima, N.Matsumoto, K.Iwanaga, N.Eri, A.Nishiyama, K.Yatera, S.Kuyama, M.Fukuda, S.Ushijima, H.Umeguchi, D.Harada, K.Kashiwabara, T.Suetsugu, N.Fujimoto, F.Tanaka, H.Uramoto, C.Yoshii, N.Sueoka-Aragane: #5410 Prospective study for usefulness of plasma DNA on prediction of third generation EGFR tyrosine kinase inhibitors; The intermediate analysis of S-PLAT study, ESMO, Barcelona, 2019.09.
- 0415I002 Katsuyuki Suzuki, Satoshi Shino, Tohru Hasumi, Akira Sakurada, Muneo Minowa, Satomi Takahashi, Nobuyuki Sato, Hidetaka Uramoto, Hiroyuki Oizumi, Hajime Saito, Masayuki Chida, Yoshinori Okada: Clinical significance of synchronous brain tumors in T1-2NO-1 non-small-cell lung cancers, ESTS2019, Dublin, 2019.

0420 Department of General and Digestive Surgery

Faculty

Title	Name	Field of Specialization
Professor	KOSAKA Takeo	Surgical treatment of gastric cancer
Professor	UEDA Nobuhiko	Surgical treatment of hepatobiliary and pancreatic disease
Professor (Additional Post)	KINAMI Shinichi	Surgical treatment of gastric cancer
Professor	TAKAMURA Hiroyuki	
Associate Professor	FUJITA Hideto	Surgical treatment of gastric cancer,
Senior Assistant Professor	MIYATA Takashi	
Assistant Professor	KAIDA Daisuke	Surgery of Digestive Diseases
Assistant Professor	TOMITA Yasuto	Surgery of Digestive Diseases
Assistant Professor	FUJITA Jun	Surgery of Digestive Diseases
Assistant Professor	MIURA Seiko	
Assistant Professor	FUJII Yoritaka	
Assistant Professor	NAKAMURA Naohiko	
Assistant Professor	HASHIZUME Chieko	

Keywords of Research

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

Outline of Research

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

Books

- 0420A001 Shinichi Kinami, Takeo Kosaka: Methodology: Dye and Isotope Method, Lymph Node Metastasis in Gastrointestinal Cancer (Shoji Natsugoe), 305-321, Springer, Singapore, 2019.

Publications

Originals

- 0420B001 Hidekazu Kitakata, Tohru Itoh, Shinichi Kinami, Ken Kawaura, Kazu Hamada, Sadafumi Azukisawa, Rika Kobayashi, Jumji Kamai, Takeo Kosaka: Sealed endoscopy full-thickness resection for gastric cancer: a pilot study in an ex vivo and in vivo porcine model, Endoscopy International Open, 07: E36-E42, 2019.

- 0420B002 Naohiko Nakamura, Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Yasuo Iida, Takeo Kosaka: The neutrophil/lymphocyte ratio as a predictor of peritoneal metastasis during staging laparoscopy for advanced gastric cancer: a retrospective cohort analysis, *World Journal of Surgical Oncology*, 17: 108, 2019.
- 0420B003 Yasuto Tomita, Takahiro Domoto, Yoshimichi Ueda, Toshinari Minamoto, Takeo Kosaka: Expression of coding region determinant-binding protein (CRD-BP) in colorectal cancer and its influence on target gene expression and clinical characteristics, *Journal of Kanazawa Medical University*, 44: 1; 32-42, 2019.
- 0420B004 Akane Aikawa, Hideto Fujita, Takeo Kosaka, Hiroshi Minato, Etsuko Kiyokawa: Clinicopathological significance of heterogeneous Ezrin expression in poorly differentiated clusters of colorectal cancers, *Cancer Science*, 110: 2667-2675, 2019.
- 0420B005 Goichi Matsumoto, Chieko Hashizume, Ken Watanabe, Makoto Taniguchi, Toshiro Okazaki: Deficiency of sphingomyelin synthase 1 but not sphingomyelin synthase 2 reduces bone formation due to impaired osteoblast differentiation, *Molecular Medicine*, 25: 56, 2019.

Reviews

- 0420C001 Shinichi Kinami, Naohiko Nakamura, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Takeo Kosaka: Precision surgical approach with lymph-node dissection in early gastric cancer, *World Journal of Gastroenterology*, 25: 14; 1640-1652, 2019.
- 0420C002 Makoto Taniguchi, Chieko Hashizume, Toshiro Okazaki: Advanced role of ceramide metabolism and signaling in the disease control, 269: 13; 1095-1102, 2019.
- 0420C003 Hiroyuki Takamura, Takashi Miyata, Hisashi Nishiki, Akifumi Hashimoto, Ryosuke Kin, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Naohiko Nakamura, Hideto Fujita, Shinichi Kinami, Nobuhiko Ueda, Takeo Kosaka: Veno-occlusive Disease after Liver Transplantation: Mechanism and Pre-emptive Therapy, *Journal of Kanazawa Medical University*, 44: 3; 99-107, 2019.
- 0420C004 Shinichi Kinami, Naohiko Nakamura, Jun Fujita, Daisuke Kaida, Hideto Fujita, Hiroyuki Takamura, Nobuhiko Ueda, Takeo Kosaka: Rationalization of lymph node dissection for gastric cancer, *Japanese Journal of Lymphology*, 42: 2; 83-88, 2019.

Case Reports

- 0420D001 Naohiko Nakamura, Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Takeo Kosaka: A remarkable clinical response in advanced gastric cancer treated with trastuzumab plus capecitabine combination chemotherapy: A report of two cases, *Clinical Case Reports*, 7: 714-718, 2019.
- 0420D002 Takashi Miyata, Yuta Fujiwara, Koji Nishijima, Fumio Futagami, Takashi Nakamura, Hiroyuki Takamura: Localized multiple malignant epithelioid peritoneal mesotheliomas arising from the hepatoduodenal ligament and diaphragm: a case report, *Journal of Medical Reports*, 13: 1; 66, 2019.
- 0420D003 (Hirofumi Terakawa), Ryosuke Gabata, Satoko Ishikawa, Miki Hirata, Masafumi Inokuchi, Hiroko Kawashima, Tomoharu Miyashita, Hidehiro Tajima, Hiroyuki Takamura, Itasu Ninomiya, Sachio Fushida, Tetsuo Ohta, Takeru Oyama, Hiroko Ikeda: A Case of Histocytoid Breast Cancer Carcinoma Accompanied by Multiple Axillary Lymph Node Metastases, *Japanese Journal of Cancer Chemotherapy*, 46: 6; 1049-1051, 2019.
- 0420D004 (Hirofumi Terakawa), Yuto Kitano, Satoko Ishikawa, Miki Hirata, Masafumi Inokuchi, Hiroko Kawashima, Tomoharu Miyashita, Hidehiro Tajima, Hiroyuki Takamura, Itasu Ninomiya, Sachio Fushida, Tetsuo Ohta: A Case of Thrombotic Microangiopathy Arising from Breast Cancer Treated with Chemotherapy, *Japanese Journal of Cancer Chemotherapy*, 46: 7; 1183-1186, 2019.
- 0420D005 Masakatsu Nakamura, Toshimi Otsuka, Ranji Hayashi, Tomoe Nomura, Masafumi Ota, Naoko Sakurai, Tasuku Hayashi, Hikaru Takano, Takeo Kosaka, Tomiyasu Arisawa: Simultaneous multiple primary small bowel cancers in a patient with anemia, *Gastroenterological Endoscopy*, 61: 10; 2372-2378, 2019.

- 0420D006 Naohiko Nakamura, Hideto Fujita, Hisashi Nishiki, Yasuto Tomita, Takashi Miyata, Shinichi Kinami, Nobuhiko Ueda, Takeo Kosaka: A Case of a Non-specific Small Intestinal Ulcer Treated with Single-incision Laparoscopic Surgery after intestinal Endoscopic Marking, *Journal of Japanese College of Surgeons*, 44: 5; 911-915, 2019.
- 0420D007 Takashi Miyata, Daisuke Matsui, Fumio Futagami: Elective single-incision laparoscopy-assisted sigmoid colectomy for recurrent volvulus of the sigmoid colon -Report of two cases-, *Journal of Abdominal Emergency Medicine*, 39: 7; 1235-1238, 2019.

Others

- 0420F001 Shinichi Kinami: Pre-operative chemotherapy is the key to the next stage of gastric cancer treatment, *Digestive Medicine Research*, 2: 34, 2019.

Presentations at Conference

International Conference (Symposium)

- 0420H001 Motoo Y, Tomita Y, Fujita H: Prophylactic efficacy of ninjin' yoeito for oxaliplatin-induced cumulative peripheral neuropathy in patients with colorectal cancer receiving postoperative adjuvant chemotherapy: a randomized, phase 2 trial (HOPE-2), 5th International Symposium for Japanese Kampo Medicine, Hann. Munden, 2019.

International Conference (Presentations)

- 0420I001 N.Nakamura, S.Kinami, T.Kosaka: Serum CEA level and nutritional parameters predict successful conversion gastrectomy for stage IV gastric cancer, 13th International Gastric Cancer Congress IGCC2019, Prague, 2019.
- 0420I002 Seiko Miura: The effect of cachexia on the prognosis of patients with pancreatic cancer, 12th international SCWD conference on cachexia, sarcopenia and muscle wasting, Berlin, 2019.

0430 Department of Orthopaedic Surgery

Faculty

Title	Name	Field of Specialization
Professor	KAWAHARA Norio	Spinal surgery
Professor	KANEUJI Ayumi	Hip and Knee surgery, Sports medicine
Professor	ICHISEKI Toru	Hip surgery, Shoulder surgery
Professor	MATSUMOTO Tadami	Hip surgery
Professor (Additional Post)	YOKOYAMA Mitsuteru	Hand surgery, Trauma
Senior Assistant Professor	FUKUI Kiyokazu	Hip surgery
Senior Assistant Professor	HIROMURA Kentaro	Trauma
Senior Assistant Professor	KAWAGUCHI Masahito	Spinal surgery
Assistant Professor	TACHI Yoshiyuki	Knee surgery
Assistant Professor	TAKAHASHI Eiji	Hip surgery
Assistant Professor	ORITA Yugo	Spinal surgery
Assistant Professor	SHIMIZU Yoshiaki	Spinal surgery
Assistant Professor	UEDA Shusuke	Hip surgery, Shoulder surgery
Assistant Professor	SOMA Daisuke	Orthopaedic surgery, Hip surgery
Assistant Professor	SASAMOTO Takeshi	Orthopaedic surgery, Spinal surgery
Assistant Professor	YONEZAWA Katsutaka	Orthopaedic surgery, Spinal surgery
Assistant Professor	NUMATA Yuhei	Hip surgery
Assistant Professor	TSUCHIYA Masanobu	Orthopaedic surgery, Hip surgery
Assistant Professor	FUJII Masafumi	Orthopaedic surgery
Assistant Professor	FUKUI Makoto	Orthopaedic surgery
Assistant Professor	MORIKAWA Takashi	Orthopaedic surgery, Spinal surgery
Assistant Professor	YOSHIOKA Masahito	Orthopaedic surgery

Keywords of Research

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

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 perform a study to make antibacterial implant to prevent SSI. We confirmed that fluoride added DLC coating does not have cytotoxicity, and its bactericidal effect for staphylococcus aureus and E.coli. We are going to continue this study for manufacture.

Publications

Originals

- 0430B001 (David Choi), Menelaos Pavlou, Rumana Omar, Mark Arts, Laurent Balabaud, Jacob Maciej Buchowski, Cody Bunker, Chun Kee Chung, Maarten Hubert Coppes, Bart Depreitere, Michael George Fehlings, Norio Kawahara, Chong-Suh Lee, YeeLing Leung, Juan Antonio Martin-Benloch, Eric Maurice Massicotte, Christian Mazel, Bernhard Meyer, Fetullah Cumhur Oner, Wilco Peul, Nasir Quraishi, Yasuaki Tokuhashi, Katsuro Tomita, Christian Ulbricht, Jorrit-Jan Verlaan, Michael Wang, Hugh Alan Crockard: A novel risk calculator to predict outcome after surgery for symptomatic spinal metastases; use of a large prospective patient database to personalise surgical management, *European journal of cancer* (Oxford, England : 1990), 107: 28–36, 2019.
- 0430B002 (Hirokazu Gesso), Tomohiro Ojima, Yutaka Inaba, Ayumi Kaneuji: Simulation analysis of age-dependent femoral bone density after proximal, fixed-type hip prosthesis stem replacement, *Journal of Japanese Society of Bone Morphometry*, 29: S185–S193, 2019.
- 0430B003 Higashikawa Toshihiro, Shigemoto Kenji, Goshima Kenichi, Usuda Daisuke, Okuro Masashi, Moriyama Manabu, Inujima Hiromi, Hangyou Masahiro, Usuda Kimiko, Morimoto Shigeto, Matsumoto Tadami, Takashima Shigeki, Kanda Tsugiyasu, Sawaguchi Takeshi: Urinary retention as a postoperative complication associated with functional decline in elderly female patients with femoral neck and trochanteric fractures A retrospective study of a patient cohort, *MEDICINE*, 98: 24; e16023, 2019.
- 0430B004 Xipeng Wang, Kiyokazu Fukui, Ayumi Kaneuji, Kenichi Hirotsuki, Hiroyasu Miyakawa, Norio Kawahara: Inversion of the acetabular labrum causes increased localized contact pressure on the femoral head: a biomechanical study, *International Orthopaedics*, 43: 6; 1329–1336, 2019.
- 0430B005 Shusuke Ueda, Toru Ichiseki, Daisuke Soma, Norio Kawahara: Right atrial fat emboli detection and changes in D-dimer values in reverse shoulder arthroplasty: a comparison with total hip arthroplasty, *Archives of Medical Science – Civilization Diseases*, 4: e84–e88, 2019.
- 0430B006 (Satoshi Kato), Hideki Murakami, Satoru Demura, Takashi Ota, Naoki Takahashi, Katsuhito Yoshioka, Kazuya Shinmura, Noriaki Yokogawa, Norio Kawahara, Katsuro Tomita, Hiroyuki Tsuchiya: Motor and sensory impairments of the lower extremities after L2 nerve root transection during total en bloc spondylectomy, *Spine*, 44: 16; 1129–1136, 2019.
- 0430B007 (Anne L Versteeg), Arjun Sahgal, Norio Kawahara, Laurence D Rhines, Daniel M Sciubba, Michael H Weber, Áron Lazary, Michael G Fehlings, James M Schuster, Michelle J Clarke, Paul M Arnold, Stefano Boriani, Chetan Bettgowda, Ziya L Gokaslan, Charles G Fisher; for the AOSpine Knowledge Forum Tumor: Patient satisfaction with treatment outcomes after surgery and/or radiotherapy for spinal metastases, *Cancer*, 125: 23; 4269–4277, 2019.

Case Reports

- 0430D001 Kiyokazu Fukui, Ayumi Kaneuji, Hiroaki Hirata, Jun-ichi Tsujioka, Akihiro Shioya, Sohsuke Yamada, Norio Kawahara: Bilateral spontaneous simultaneous femoral neck occult fracture in a middle-aged man due to osteoporosis and vitamin D deficiency osteomalacia: A case report and literature review, *International Journal of Surgery Case Reports*, 60: 358–362, 2019.
- 0430D002 Kiyokazu Fukui, Ayumi Kaneuji, Norio Kawahara: External iliac vein compression and lower-extremity swelling caused by an iliopectineal ganglion: a case report, *Journal of Medical Case Reports*, 13: 1; 293, 2019.
- 0430D003 Kiyokazu Fukui, Akihiro Shioya, Yoshiyuki Tachi, Katsutaka Yonezawa, Hiroaki Hirata, Norio Kawahara: Subchondral fracture caused by unevenly stiffened meniscus after radiofrequency-assisted arthroscopic knee meniscectomy: A case report and review of the literature, *International Journal of Surgery Case Reports*, 65: 135–140, 2019.

Presentations at Conference

International Conference (Presentations)

- 0430I001 Xipeng Wang, Kiyokazu Fukui, Ayumi Kaneuji, Kenichi Hirotsaki, Hiroyasu Miyakawa, Norio Kawahara: Inversion of the acetabular labrum causes increased localized contact pressure on the femoral head: a biomechanical study, ORS 2019 Annual Meeting, Austin, 2019.
- 0430I002 Sasamoto T, Kawaguchi M, Yonezawa K, Kawahara N, Shintani K, Oda S: Fluorine-doped diamond-like carbon coating (f DLC) shortens bone union process, ORS 2019 Annual Meeting, Austin, 2019.
- 0430I003 Yuhei Numata, Ayumi Kaneuji, Eiji Takahashi, Jun-ichi Tsujioka, Norio Kawahara: Subsidence of polished surface French stem and cement behavior of less than 2mm — An three-dimensional analysis of micro computed tomography and computer aided design —, 20th EFORT Annual Congress Lisbon 2019, Lisbon, 2019.
- 0430I004 Ayumi Kaneuji, Toru Ichiseki, Kiyokazu Fukui, Eiji Takahashi, Yuhei Numata, Norio Kawahara: A 30-year survivorship after rotational acetabular osteotomy for advanced stage of secondary osteoarthritis with hip dysplasia, 20th EFORT Annual Congress Lisbon 2019, Lisbon, 2019.
- 0430I005 Kiyokazu Fukui, Xipeng Wang, Ayumi Kaneuji, Kenichi Hirotsaki, Hiroyasu Miyakawa, Norio Kawahara: Localized contact pressure on the femoral head increases due to inversion of the acetabular labrum: a biomechanical study, ISHA Annual Scientific Meeting 2019, Madrid, 2019.
- 0430I006 Kentaro Hiromura, Koji Fujita, Yoshiaki Shimizu, Mitsuteru Yokoyama, Norio Kawahara: Osteosynthesis using an artificial ligament for calcaneal avulsion fracture, 7th AFFAS Triennial Congress 2019, Bangkok, 2019.
- 0430I007 Koji Fujita, Kentaro Hiromura, Yoshiaki Shimizu, Mitsuteru Yokoyama, Norio Kawahara: Osteosynthesis of the sustentaculum tali of calcaneus fracture using the navigation system, 7th AFFAS Triennial Congress 2019, Bangkok, 2019.
- 0430I008 Kiyokazu Fukui, Ayumi Kaneuji, Yuhei Numata, Norio Kawahara: Acetabular dysplasia is involved in rapidly progressive osteoarthritis of the hip, 40th SICOT Orthopaedic World Congress, Muscat, 2019.

0440 Department of Neurosurgery

Faculty

Title	Name	Field of Specialization
Professor	IIZUKA Hideaki	spinal disease, brain tumor, peripheral nerve disease
Professor	TACHIBANA Osamu	brain tumor, hypothalamic and pituitary tumor
Professor	HAYASHI Yasuhiko	
Professor	TAKADA Hisashi	cerebrovascular disease, endovascular therapy
Senior Assistant Professor	OKAMOTO Kazuya	brain tumor, stereotactic radiosurgery
Senior Assistant Professor	SIRAGA Syunsuke	cerebrovascular disease
Assistant Professor	TAMASE Akira	spinal disease
Assistant Professor (Additional Post)	TSUKADA Tsuyoshi	General neurosurgery

Keywords of Research

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

Outline of Research

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

1. Brain tumor

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

2. Spine and spinal cord disease

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

3. Cerebrovascular disease

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

4. Head injury

- 1) operation methods and recurrence in chronic subdural hematoma

5. Congenital anomaly

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

Publications

Originals

- 0440B001 Satoko Nakada, Yasuo Sasagawa, Osamu Tachibana, Hideaki Iizuka, Nozomu Kurose, Akihiro Sioya, Xin Guo, Sohsuke Yamada, Takayuki Nojima: The clinicopathological analysis of receptor tyrosine kinases in meningiomas: the expression of VEGFR-2 in meningioma was associated with a higher WHO grade and shorter progression-free survival, *Brain Tumor Pathology*, 36: 1; 7-13, 2019.
- 0440B002 (Yasuhiko Hayashi), Yasuo Sasagawa, Masahiro Oishi, Daisuke Kita, Shingo Tanaka, Fumiaki Ueda, Osamu Tachibana, Mitsutoshi Nakada: Directional Regulation of Extrasellar Extension by Sellar Dura Integrity and Intrasphenoidal Septation In Pituitary Adenomas, *World Neurosurgery*, 122: e130-e138, 2019.
- 0440B003 (Hayashi Yasuhiko), Sasagawa Yasuo, Oishi Masahiro, Kita Daisuke, Misaki Koichi, Fukui Issei, Tachibana Osamu, Nakada Mitsutoshi: Contribution of Intrasellar Pressure Elevation to Headache Manifestation in Pituitary Adenoma Evaluated With Intraoperative Pressure Measurement, *Neurosurgery*, 84: 3; 599-606, 2019.
- 0440B004 Mariko Doai, Hisao Tonami, Munetaka Matoba, Osamu Tachibana, Hideaki Iizuka, Satoko Nakada, Sohsuke Yamada: Pituitary macroadenoma: Accuracy of apparent diffusion coefficient magnetic resonance imaging in grading tumor aggressiveness, *The Neuroradiology Journal*, 32: 2; 86-91, 2019.
- 0440B005 (Hayashi Y), Sasagawa Y, Oishi M, Misaki K, Kozaka K, Tachibana O, Nakada M: Radiological and endocrinological evaluations with grading of hypothalamic perifocal edema caused by craniopharyngiomas, *Pituitary*, 22: 2; 146-155, 2019.
- 0440B006 (Hayashi Y), Kobayashi M, Sasagawa Y, Oishi M, Tachibana O, Nakada M: Entirely Suprasellar Rathke Cleft Cysts: Clinical Features and Surgical Efficacy of Endoscopic Endonasal Transtuberulum Sellae Approach, *World Neurosurgery*, 126: e921-e929, 2019.

Reviews

- 0440C001 (Takuya Akai), Masanobu Yamashita, Hideaki Iizuka, Satoshi Kuroda: Diagnosis and treatment of craniosynostosis : current status and problems, *Japanese journal of Neurosurgery*, 28: 4; 197-204, 2019.
- 0440C002 Tsuyoshi Tsukada, Hiroki Shimada, Hiromi Sakata-Haga, Hideaki Iizuka, Toshihisa Hatta: Molecular mechanisms underlying the models of neurodevelopmental disorders in maternal immune activation relevant to the placenta, *Congenital anomalies*, 59: 81-87, 2019.
- 0440C003 Yasuhiko Hayashi: Aquaporins (Water Channels): Their Intracranial Localizations, Functions and Therapeutic Applications, *Journal of Kanazawa Medical University*, 44: 3; 108-116, 2019.

Case Reports

- 0440D001 Tamase A, Tachibana O, Iizuka H: Usefulness of MRI Slices Parallel to the Optic Chiasma in a Case with Traumatic Optic Nerve Avulsion after a Bear Attack, *Neurologia medico-chirurgica*, 59: 9; 357-359, 2019.

0450 Department of Plastic and Reconstructive Surgery

Faculty

Title	Name	Field of Specialization
Professor	SHIMADA Kenichi	Plastic and Reconstructive Surgery
Professor	KAWAKAMI Shigehiko	Plastic and Reconstructive Surgery
Associate Professor	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
Associate Professor	KISHIBE Miyuki	Plastic and Reconstructive Surgery
Senior Assistant Professor	MIYANAGA Toru	Plastic and Reconstructive Surgery
Assistant Professor	KADOHIRA Mitsuhiro	Plastic and Reconstructive Surgery
Assistant Professor	KANEKO Takayoshi	Plastic and Reconstructive Surgery
Assistant Professor	SUGISHITA Kazuyuki	Plastic and Reconstructive Surgery
Assistant Professor	DAIZO Haruhisa	Plastic and Reconstructive Surgery
Assistant Professor	YAGISHITA Mikio	Plastic and Reconstructive Surgery
Assistant Professor	SAKAGAMI Akihiko	Plastic and Reconstructive Surgery
Assistant Professor	YONEZAWA Minami	Plastic and Reconstructive Surgery
Assistant Professor	KAWAMURA Ryo	Plastic and Reconstructive Surgery
Assistant Professor	TAKEMURA Tomoko	Plastic and Reconstructive Surgery
Assistant Professor	MAKIMOTO Kazuhiko	Plastic and Reconstructive Surgery
Assistant Professor	MORIMOTO Yayoi	Plastic and Reconstructive Surgery
Assistant Professor	IGAWA Yuichi	Plastic and Reconstructive Surgery
Assistant Professor	SOGAWA Akiko	Plastic and Reconstructive Surgery
Assistant Professor	HIGASHIYAMA Maiko	Plastic and Reconstructive Surgery
Assistant Professor	YOSHIDA Chikako	Plastic and Reconstructive Surgery
Assistant Professor	KURODA Tomochika	Plastic and Reconstructive Surgery
Assistant Professor	SHIMADA Yoshihiro	Plastic and Reconstructive Surgery

Keywords of Research

fibroblast, FGF receptor, pressure ulcer, TGF- β , TGF- β receptor, keratinocyte, wound healing, craniofacial surgery, zygoma, cleft lip, cleft palate, microtia, tissue expansion, crainofacial cleft, front-orbital advancement, microsurgery, free flap, medialis pedis flap, adipofascial turu-over 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 Miyanaga Toru, Kishibe Miyuki, Yamashita Masanobu, Kaneko Takayoshi, Kinoshita Fumiya, Shimada Kenichi: Minced Skin Grafting for Promoting Wound Healing and Improving Donor-Site Appearance after Split-Thickness Skin Grafting: A Prospective Half-Side Comparative Trial, *Plastic and reconstructive surgery*, 144: 2; 475-483, 2019.

Reviews

- 0450C001 (Takuya Akai), Masanobu Yamashita, Hideaki Iizuka, Satoshi Kuroda: Diagnosis and treatment of craniosynostosis : current status and problems, *Japanese journal of Neurosurgery*, 28: 4; 197-204, 2019.
- 0450C002 Miyuki Kishibe, Kenichi Shimada, Shigehiko Kawakami: Skin resection for upper eyelid ptosis, *Japanese Journal of Plastic Surgery*, 62: 7; 745-750, 2019.
- 0450C003 Toru Miyanaga, Miyuki Kishibe, Kenichi Shimada: The procedure for wound bed preparation using perifascial areolar tissue graft for the treatment of wounds with exposed tendons and bones, *Japanese Journal of Plastic Surgery*, 62: 9; 949-955, 2019.
- 0450C004 Masanobu Yamashita, Takuta Akai: Role of posterior vault distraction osteogenesis in surgical strategy for syndromic craniosynostosis, *Japanese journal of Plastic Surgery*, 62: 12; 1371-1378, 2019.

Case Reports

- 0450D001 (Chikako Yoshida), Kaoru Yamashiro, Yuuichi Ikawa, Miyuki Kishibe, Kenichi Shimada: A fatal case of repeated recurrence of gas gangrene in intravenous catheter insertion sites, *Japanese Journal of Plastic Surgery*, 62: 3; 311-317, 2019.
- 0450D002 Motono Nozomu, Shimada Kenichi, Kamata Toru, Uramoto Hidetaka: Sternal resection and reconstruction for metastasis due to breast cancer: the Marlex sandwich technique and implantation of a pedicled latissimus dorsi musculocutaneous flap, *Journal of cardiothoracic surgery*, 14: 79, 2019.
- 0450D003 Yoshihiro Shimada, Masanobu Yamashita, Miyuki Kishibe, Kenichi Shimada: Extensive Keloid Formation after Syndactyly Release Associated with Macrodactyly, *Japanese Journal of Plastic Surgery*, 62: 7; 801-809, 2019.

Presentations at Conference

International Conference (Presentations)

- 0450I001 Masanobu Yamashita: Single-splint technique in orthognathic surgery for the cleft lip and palate patient, *International society of craniofacial surgery 2019, Paris*, 2019.

0460 Department of Pediatric Surgery

Faculty

Title	Name	Field of Specialization
Professor	KOHNO Miyuki	Pediatric surgery, Pediatric endoscopic surgery, Pediatric urology
Professor	OKAJIKA Hideaki	
Senior Assistant Professor	YOSHIZAKI Hisayoshi	Pediatric surgery
Senior Assistant Professor	YASUI Yoshitomo	Pediatric surgery
Senior Assistant Professor	KUWAHARA Tsuyoshi	Pediatric surgery
Assistant Professor	SHIRONOMAE Tsubasa	Pediatric surgery
Assistant Professor	NAKAMURA Kiyokuni	Pediatric surgery
Assistant Professor	KIDO Miori	

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.

Books

- 0460A001 Miyuki Kohno: Redo Pull-Through and Secondary Operation, Hirschsprung's Disease and the Allied Disorders (Tomoaki Taguchi, Hiroshi Matsufuji, Satoshi Ieiri), 203-208, Springer, Singapore, 2019.

Publications

Originals

- 0460B001 (Satoshi Obata), Satoshi Ieiri, Takashi Akiyama, Naoto Urushihara, Hisayoshi Kawahara, Masayuki Kubota, Miyuki Kono, Yuji Nirasawa, Shohei Honda, Masaki Nio, Tomoaki Taguchi: Nationwide survey of outcome in patients with extensive aganglionosis in Japan, *Pediatric surgery international*, 35: 547-550, 2019.
- 0460B002 Miori Kido, Hideaki Okajima, Tetsuya Tajima, Kumiko Suzuki, Masakatsu Kaneshiro, Mari Sonoda, Eri Ogawa, Tatsuya Okamoto, Shinya Okamoto, Sinji Uemoto: Evaluation of Ten Pediatric Patients With Congenital Extrahepatic Portosystemic Shunt Surgically Treated, *Journal of the Japanese Society of Pediatric Surgery*, 55: 6; 1037-1043, 2019.

- 0460B003 (Satoshi Obata), Satoshi Ieiri, Takashi Akiyama, Naoto Urushihara, Hisayoshi Kawahara, Masayuki Kubota, Miyuki Kono, Yuji Nirasawa, Shohei Honda, Masaki Nio, Tomoaki Taguchi: The Outcomes of Transanal Endorectal Pull-Through for Hirschsprung's Disease According to the Mucosectomy-Commencing Points: A Study Based on the Results of a Nationwide Survey in Japan, *Journal of pediatric surgery*, 54: 12; 2546-2549, 2019.

Reviews

- 0460C001 (Masayuki Kubota), Yutaka Osuga, Kiyoko Kato, Kenji Ishikura, Kazunari Kaneko, Kohhei Akazawa, Takeo Yonekura, Yuko Tazuke, Satoshi Ieiri, Akihiko Fujino, Shigeru Ueno, Yutaro Hayashi, Kaoru Yoshino, Toshihiro Yanai, Jun Iwai, Takanori Yamaguchi, Shintaro Amae, Yuichiro Yamazaki, Yoshifumi Sugita, Miyuki Kohno, Yutaka Kanamori, Yuko Bitoh, Masato Shinkai, Yasuharu Ohno, Yoshiaki Kinoshita: Treatment guidelines for persistent cloaca, cloacal exstrophy, and Mayer-Rokitansky-Küster-Häuser syndrome for the appropriate transitional care of patients, *Surgery Today*, 49: 985-1002, 2019.

Case Reports

- 0460D001 Yasui Yoshitomo, Sato Hitoshi, Niida Yo, Kohno Miyuki: Spinal muscular atrophy with respiratory distress type 1 associated with novel compound heterozygous mutations in IGHMBP2: Differential diagnosis in a case with congenital diaphragm eventration, *Congenital anomalies*, 59: 22-23, 2019.

Presentations at Conference

International Conference (Presentations)

- 0460I001 Yoshizaki H, Nishida S, Yasui Y, Kuwahara T, Kohno M: The role of extracellular matrix proteins in enteric neural crest cell migration, The 13th World Congress of The International Cleft Lip and Palate Foundation, The 59th Annual Meeting of The Japanese Teratology Society, Nagoya, 2019.
- 0460I002 Ling Y, Yoshizaki H, Okuda S: Genome-wide analysis of mutational impact on post translational modification, The 27rd conference on Intelligent Systems for Molecular Biology (ISMB) and the 18th European Conference on Computational Biology (ECCB), Basel, 2019.

0470 Department of Ophthalmology

Faculty

Title	Name	Field of Specialization
Professor	SASAKI Hiroshi	cataract, epidemiology, uveitis, electromagnetic ocular injury, ultraviolet
Professor	KUBO Eri	cataract, oxidative stress and eye disease, diabetic eye complication
Professor (Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology
Associate Professor	FUKUDA Masamichi	ocular pharmacology, intraocular, penetration
Senior Assistant Professor	SHIBATA Shinsuke	cataract, ophthalmology, oxidative stress and eye disease
Senior Assistant Professor	SHIBATA Naoko	cataract, ophthalmology, oxidative stress and eye disease
Assistant Professor	ARIMOTO Atsushi	macular degeneration
Assistant Professor	HATSUSAKA Natsuko	ophthalmological optics, epidemiology, ultraviolet
Assistant Professor	FUJITA Nobuyuki	uveitis
Assistant Professor	SHIBATA Teppei	cataract, oxidative stress and eye disease
Assistant Professor	MIYASHITA Hisanori	cataract, epidemiology
Assistant Professor	TANIMURA Naoki	epidemiology, Cataract
Assistant Professor	ISHIDA Hidetoshi	oxidative stress and eye disease
Assistant Professor	KUNISHO Akane	epidemiology, Cataract
Assistant Professor	KOUYAMA Yukihiko	Eye infection
Assistant Professor	OKEMOTO Hajime	epidemiology, Cataract

Keywords of Research

proteomics, cataract classification, corneal epithelium, crystalline 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, China and Tanzania). 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 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 0470B002 Miyashita H, Hatsusaka N, Shibuya E, Mita N, Ymazaki M, Shibata T, Ishida H, Ukai Y, Kubo E, Sasaki H: Association between ultraviolet radiation exposure dose and cataract in Han people living in China and Taiwan: A cross-sectional study, *PLoS One*, 14: 4; e0215338, 2019.
- 0470B003 Masami Kojima, Cheng-Yu Tsai, Yukihiisa Suzuki, Kensuke Sasaki, Takafumi Tasaki, Masao Taki, Soichi Watanabe, Hiroshi Sasaki: Ocular Response to Millimeter Wave Exposure Under Different Levels of Humidity, *Journal of Infrared, Millimeter, and Terahertz Waves*, 40: 5; 574-584, 2019.
- 0470B004 (Nagai N), Mano Y, Otake H, Shibata T, Kubo E, Sasaki H: Changes in mitochondrial cytochrome c oxidase mRNA levels with cataract severity in lens epithelia of Japanese Patients, *Molecular medicine reports*, 19: 5464-5472, 2019.
- 0470B005 Takafumi Tasaki, Masami Kojima, Yukihiisa Suzuki, Yoshinori Tatematsu, Hiroshi Sasaki: Creating a Stable Short-term Housing Environment for Rabbits in a Cargo Van, *Journal of American Association for Laboratory Animal Science*, 58: 4; 456-461, 2019.
- 0470B006 (Kamiya T), Kodera S, Hasegawa K, Egawa R, Sasaki H, Hirata A: Different thermoregulatory responses of people from tropical and temperate zones: A computational study, *Building and Environment*, 159: 106152, 2019.
- 0470B007 Tanimura N, Hatsusaka N, Miyashita H, Shibata T, Ishida H, Kunisho A, Kubo E, Sasaki H: Visual Function and Functional Decline in Patients With Waterclefts, *Investigative ophthalmology & visual science*, 60: 3652-3658, 2019.
- 0470B008 (Bhavana Chhunchha), Eri Kubo, Dhirendra P. Singh: Sulforaphane-Induced Klf9/Prdx6 Axis Acts as a Molecular Switch to Control Redox Signaling and Determines Fate of Cells, *Cells*, 8: 1159, 2019.
- 0470B009 (Asano H), Hiraoka T, Seki Y, Shibata T, Osada H, Saruta T, Hatsusaka N, Fujikake F, Tabata Y, Mhina C, Sanyawa A, Oshika T, Sasaki H: Distribution of corneal spherical aberration in a Tanzanian population, *PLoS ONE*, 14: 9; e0222297, 2019.

Others

- 0470F001 Eri Kubo: Possibility to Develop Anti-Cataract Drugs, *Japanese Journal of Ocular Pharmacology*, 33: 21-23, 2019.

Presentations at Conference

International Conference (Symposium)

- 0470H001 (Suzuki Y), Kojima M, Okuno T, Takamura M, Hada A, Tasaki T, Tatematsu Y, Fukunari M, Mizuno M, Tani M, Sasaki H: Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages, *The 7th International Workshop on Far-Infrared Technologies*, Fukui, 2019.
- 0470H002 Kojima M, Suzuki Y, Tasaki T, Tatematsu Y, Fukunari M, Tani M, Sasaki H: Ocular damage threshold to millimeter wave(162GHz) exposure, *The 7th International Workshop on Far-Infrared Technologies*, Fukui, 2019.03.
- 0470H003 M.Kojima, Y.Suzuki, T.Tasaki, Y.Tatematsu, M.Fukunari, M.tani, H.Sasaki: Ocular damage threshold to millimeter wave (162GHz) exposure, *IWFIRT2019*, Fukui, 2019.
- 0470H004 (Masahiko Tani), Yoshinori Tatematsu, Maya Mizuno, Yukihiisa Suzuki, Masami Kojima, Takafumi Tasaki, Hideaki Kitahara, Masafumi Fukunari: Investigation on Influence of Terahertz Wave Irradiation to Living Organisms by Using THz Gyrotron and THz Time-Domain Spectroscopy, *EMC Sapporo & APEMC 2019*, Sapporo, 2019.

International Conference (Presentations)

- 0470I001 Hiroshi Sasaki, Eri Shibuya, Norihiro Mita, Hisanori Miyashita, Naoki Tanimura, Teppei Shibata, Hidetoshi Ishida, Atsushi Arimoto, Kenta Hagihara, Eri Kubo: Ten-year history of eyes with Retrodots –Monzen Eye Study–, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I002 Hiroki Asano, Takahiro Hiraoka, Yusuke Seki, Teppei Shibata, Hiromi Osada, Takanori Saruta, Natsuko Hatsusaka, Fukumi Fujikake, Yoshiaki Tabata, Cellina Mhina, Anna Sanyawa, Tetsuro Osaka, Hiroshi Sasaki: Distribution of corneal spherical aberration in a Tanzania Population, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I003 Eri Kubo, Hidetoshi Ishida, Shinsuke Shibata, Teppei Shibata, Yuka Nakamura, Yasuhito Ishigaki, Dharendra P. Singh, Hiroshi Sasaki: Gene expression profiling of lens epithelial cells in Shumiya cataract rats, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I004 Natsuko Hatsusaka, Shinsuke Shibata, Naoko Shibata, Hisanori Miyashita, Naoki Tanimura, Hidetoshi Ishida, Eri Kubo, Hiroshi Sasaki: Correlation Between Prevalence of Pinguicula and Ocular Refraction, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I005 Hidetoshi Ishida, Teppei Shibata, Shinsuke Shibata, Hiroshi Sasaki, Eri Kubo: Cataract-inhibitory effects of water chestnut (*Trapabispinosa Roxb*) and lutein in Shumiya cataract rats, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I006 Teppei Shibata, Shinsuke Shibata, Dharendra P. Singh, Etsuko Kiyokawa, Masahito Ikawa, Hiroshi Sasaki, Eri Kubo: Age-related changer of the lens in Tropomyosin 1 conditional knockout mice, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I007 Bhavana Chhunchha, Eri Kubo, Sanjay P. Singh, Dharendra P. Singh: Metformin Restores Impaired Antioxidant Defense Response In Aging Lens Epithelial Cells By Reactivating Nrf2/ARE/Prdx6 Axis, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I008 Dharendra P. Singh, Eri Kubo, Bhavana Chhunchha: Core Clock Protein Bmal 1 Controls Reactive Oxygen Species Homeostasis And Oxidative Responses By Transregulating Prdx6 Expression, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 0470I009 (M.Tani), Y.Tatematsu, H.Kitahara, M.Fukunari, M.Mizuno, Y.Suzuki, M.Kojima, T.Tasaki: Terahertz Wave Sources and Their Applications – With Some Topics on Influence of THz Wave Irradiation to Living Organisms–, EMC Sapporo&APEMC2019, Sapporo, 2019.
- 0470I010 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Toshinori Tatematsu, Masafumi Fukunari, Maya Misuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Investigation of the thresholds for ocular damage caused by MMW exposure from 30GHz to 160GHz by experimental and numerical approach, URSI-JRSM 2019, Tokyo, 2019.
- 0470I011 Eri Kubo, Teppei Shibata, Shinsuke Shibata, Dharendra P Singh, Etsuko Kiyokawa, Yasuhito Ishigaki, Masahito Ikawa, Hiroshi Sasaki: Effect of tropomyosin 1 knockout in lens development and fiber differentiation, The 6th International Conference on the Lens, Kailua Kona, 2019.
- 0470I012 Hidetoshi Ishida, Teppei Shibata, Shinsuke Shibata, Hiroshi Sasaki, Eri Kubo: Cataract-inhibitory effects of water chestnut and lutein in Shumiya cataract rats, The 6th International Conference on the Lens, Kailua Kona, 2019.
- 0470I013 Natsuko Hatsusaka, Hisanori Miyashita, Eri Kubo, Hiroko Kitamura, Toshiaki Okubo, Hiroshi Sasaki: Epidemiological study of nuclear emergency workers at Tokyo Electric Power Company Fukushima Nuclear Power Plant: findings from cataract study 3–6 years after the nuclear accident, The 6th International Conference on the Lens, Kailua Kona, 2019.

0475 Department of Otorhinolaryngology

Faculty

Title	Name	Field of Specialization
Professor	MIWA Takaki	Otorhinolaryngology, Head and Neck Surgery
Associate Professor	SHIGA Hideaki	Rhinology, Olfactory disorders
Senior Assistant Professor	MIYAZAWA Toru	Otorhinolaryngology, Otology
Senior Assistant Professor	YAO Toru	Otology, Rhinology
Senior Assistant Professor	SAKAI Aya	Otorhinolaryngology, Sleep apnea syndrome
Assistant Professor	KINOSHITA Yuko	Otorhinolaryngology
Assistant Professor	ISHIKURA Tomoko	General otorhinolaryngology
Assistant Professor	YAMADA Kentaro	General otorhinolaryngology
Assistant Professor	INAGAKI Shingo	General otorhinolaryngology
Assistant Professor	HARITA Masayuki	General otorhinolaryngology
Assistant Professor	NAKAMURA Yukari	General otorhinolaryngology
Assistant Professor	YAMAMOTO Junpei	General otorhinolaryngology, Olfactory disorders

Keywords of Research

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

Outline of Research

Basic and clinical research for diagnosis and treatment of olfactory disorders
(Miwa, Shiga, Yao, Yamamoto, Yamada, Noda, Harita)
New educational system for endoscopic sinus surgery
(Miwa, Shiga, Yao)
Clinical research for snor and sleep apnea
(Miwa, Sakai)

Publications

Originals

- 0475B001 Takuya Noda, Hideaki Shiga, Kentaro Yamada, Masayuki Harita, Yukari Nakamura, Tomoko Ishikura, Masami Kumai, Zenji Kawakami, Atsushi Kaneko, Toshihisa Hatta, Hiromi Sakata-Haga, Hiroki Shimada, Takaki Miwa: Effects of tokishakuyakusan on regeneration of murine olfactory neurons in vivo and in vitro, *Chemical Senses*, 44: 5; 327–338, 2019.
- 0475B002 Harita M, Miwa T, Shiga H, Yamada K, Sugiyama E, Okabe Y, Miyake Y, Okuno T, Iritani O, Morimoto S: Association of olfactory impairment with indexes of sarcopenia and frailty in community-dwelling older adults, *Geriatrics & Gerontology International*, 19: 5; 384–391, 2019.
- 0475B003 Shiga H, Okuda K, Taki J, Watanabe N, Tonami H, Kinuya S, Miwa T: Nasal thallium-201 uptake in patients with parosmia with and without hyposmia after upper respiratory tract infection, *International forum of allergy & rhinology*, 9: 11; 1252–1256, 2019.

Reviews

- 0475C001 Miwa T, Ikeda K, Ishibashi T, Kobayashi M, Kondo K, Matsuwaki Y, Ogawa T, Shiga H, Suzuki M, Tsuzuki K, Furuta A, Motoo Y, Fujieda S, Kurono Y: Clinical practice guidelines for the management of olfactory dysfunction – Secondary publication, *Auris Nasus Larynx*, 46: 5; 653–662, 2019.

Presentations at Conference

International Conference (Symposium)

- 0475H001 Takaki Miwa: Olfactory disorders: Treating smell loss, *Rhinoworld Chicago 2019*, Chicago, 2019.
- 0475H002 Hideaki Shiga: Olfactory disorders: Diagnosis and discussion, *Rhinoworld Chicago 2019*, Chicago, 2019.

International Conference (Presentations)

- 0475I001 Yukari Nakamura, Hideaki Shiga, Toshihisa Hatta, Hiromi Sakata, Hideaki Ninomiya, Takaki Miwa: The effect of the neuroblast in the brain with intranasal administration of IGF-1, *Rhinoworld Chicago 2019*, Chicago, 2019.
- 0475I002 Kentaro Yamada, Hideaki Shiga, Takuya Noda, Hideaki Ninomiya, Takaki Miwa: A study on the regeneration of the olfactory epithelium in ovariectomized mice, *Rhinoworld Chicago 2019*, Chicago, 2019.
- 0475I003 Shiga H, Ishikura T, Nakamura Y, Ishigaki Y, Miwa T: Nasal administration of adipose tissue derived stem cells in olfactory impaired mice, *Rhinoworld Chicago 2019*, Chicago, 2019.06.
- 0475I004 Hideaki Shiga, Hiroshi Wakabayashi, Kohshin Washiyama, Tomohiro Noguchi, Tomo Hiromasa, Sadaharu Miyazono, Masami Kumai, Kazuma Ogawa, Junichi Taki, Seigo Kinuya, Takaki Miwa: Rotenone nasal exposure may increase the risk of neurodegenerative diseases via enhanced olfactory transport of metals to the olfactory bulb, 15th Japan– Taiwan conference on otolaryngology– head and neck surgery, Fukuoka, 2019.
- 0475I005 Norishige Nishimae, Hideaki Shiga, Masami Kumai, Tomoko Ishikura, Yukari Nakamura, Masayuki Harita, Kentaro Yamada, Toru Yao, Takaki Miwa: Clinical features and treatment results of the patients with olfactory disorders, 15th Japan– Taiwan conference on otolaryngology– head and neck surgery, Fukuoka, 2019.
- 0475I006 Yukari Nakamura, Toru Yao, Yuko Kinoshita, Hideaki Shiga, Takaki Miwa: A case report of respiratory epithelial adenomatoid hamartoma without rhinosinusitis with improved olfaction after endoscopic sinus surgery, 15th Japan– Taiwan conference on otolaryngology–head and neck surgery, Fukuoka, 2019.

0485 Department of Head and Neck Surgery

Faculty

Title	Name	Field of Specialization
Professor	TSUJI Hiroyuki	Head and neck oncology, Head and neck surgery
Senior Assistant Professor	SHIMODE Yuzo	Head and neck oncology, surgery, Thyroid gland tumor research
Assistant Professor	KISHIMOTO Kazuhiro	Head and neck surgery
Assistant Professor	KAWAKAMI Osamu	Head and neck surgery
Assistant Professor	TAKAOKA Yuki	Head and neck surgery
Assistant Professor	NODA Takuya	General otorhinolaryngology
Assistant Professor	OKANO Keiichiro	General otorhinolaryngology
Assistant Professor	KOBAYASHI Yosiaki	General otorhinolaryngology
Assistant Professor	NOMURA Tomoe	General otorhinolaryngology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0485B001 (Naohiro Wakisaka), Kazuhiro Endo, Tomohiro Kitazawa, Yuzo Shimode, Koroku Kato, Makiko Moriyama-Kita, Wataru Koda, Hiroko Ikeda, Kazuya Ishikawa, Takayoshi Ueno, Yosuke Nakanishi, Satoru Kondo, Hisashi Sugimoto, Kenichi Yoshimura, Hiroyuki Tsuji, Shuichi Kawashiri, Kiyoka Omoto, Tomokazu Yoshizaki: Detection of sentinel lymph node using contrast-enhanced agent, Sonazoid, and evaluation of its metastasis with superb microvascular imaging in oral and oropharyngeal cancers: a preliminary clinical study, *Acta oto-laryngologica*, 139: 1; 94-99, 2019.
- 0485B002 Takuya Noda, Hideaki Shiga, Kentaro Yamada, Masayuki Harita, Yukari Nakamura, Tomoko Ishikura, Masami Kumai, Zenji Kawakami, Atsushi Kaneko, Toshihisa Hatta, Hiromi Sakata-Haga, Hiroki Shimada, Takaki Miwa: Effects of tokishakuyakusan on regeneration of murine olfactory neurons in vivo and in vitro, *Chemical Senses*, 44: 5; 327-338, 2019.
- 0485B003 (Masafumi Kanno), Norihiko Narita, Yasushi Fujimoto, Naohiro Wakisaka, Tomokazu Yoshizaki, Takeshi Kodaira, Chiyoko Makita, Yuichiro Sato, Keisuke Yamazaki, Takanori Wakaoka, Yuzo Shimode, Hiroyuki Tsuji, Ryosuke Kito, Hajime Ishinaga, Seiji Hosokawa, Hiromasa Takakura, Kunihiro Nishimura, Takuma Matoba and Shigeharu Fujieda: Third Epidemiological Analysis of Nasopharyngeal Carcinoma in the Central Region of Japan from 2006 to 2015, *Cancers*, 11: 8; 1180, 2019.

Presentations at Conference

International Conference (Presentations)

- 0485I001 Kentaro Yamada, Hideaki Shiga, Takuya Noda, Hideaki Ninomiya, Takaki Miwa: A study on the regeneration of the olfactory epithelium in ovariectomized mice, Rhinoworld Chicago 2019, Chicago, 2019.

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
Professor	MOCHIZUKI Takashi	Medical mycology, Dermatormycosis
Associate Professor	NISHIBU Akiko	Immunology
Associate Professor	TAKEDA Kiminobu	Medical mycology
Senior Assistant Professor	FUJII Toshiki	Dermatopathology
Senior Assistant Professor	USHIGAMI Tsuyoshi	Medical mycology
Assistant Professor	ANZAWA Kazushi	Medical mycology
Assistant Professor	HATTA Jyunko	Image analysis

Keywords of Research

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

Outline of Research

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

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

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

Publications

Originals

- 0490B001 (Nakamura T), Yoshida N, Anzawa K, Nishibu A, Mochizuki T: Itching in a trichophytin contact dermatitis mouse model and the antipruritic effect of antifungal agents, *Clinical and Experimental Dermatology*, 44: 381-389, 2019.
- 0490B002 (Ken Iozumi), Masatoshi Abe, Yoshiko Ito, Takashi Uesugi, Takashi Onoduka, Ichiro Kato, Fumihiro Kato, Kazuo Kodama, Hidetoshi Takahashi, Osamu Takeda, Koki Tomizawa, Tomoko Nomiya, Mizue Fujii, Jun Mayama, Fumio Muramoto, Hidemi Yasuda, Kiyomitsu Yamanaka, Tomotaka Sato, Tsunao Oh-i, Hiroko Kasai, Ryoji Tsuboi, Naoko Hattori, Ryuji Maruyama, Tokuya Omi, Harunari Shimoyama, Yoshihiro Sei, Ichiro Nakasu, Shuhei Nishimoto, Yasuki Hata, Takashi Mochizuki, Masao Fukuzawa, Mariko Seishima, Kazumitsu Sugiura, Ichiro Katayama, Osamu Yamamoto, Masahisa Shindo, Hiroe Kiryu, Masahiro Kusuhara, Motoi Takenaka, Shinichi Watanabe: Efficacy of long-term treatment with efinaconazole 10% solution in patients with onychomycosis; including severe cases: a multicenter, single-arm study, *The Journal of Dermatology*, 46: 641-651, 2019.

Reviews

- 0490C001 (Shigeo Yamada), Kazushi Anzawa, Takashi Mochizuki: An epidemiological study of feline and canine dermatophytoses in Japan, *Medical Mycology Journal*, 60: 39–44, 2019.
- 0490C002 (Tomoya Nakamura), Naoki Yoshida, Akiko Nishibu, Takashi Mochizuki: A mouse model of Trichophyton inflammation based on trichophytin-induced contact hypersensitivity, *Medical Mycology Journal*, 60: 65–70, 2019.

Case Reports

- 0490D001 (Koji Makino), Jun Aoi, Sho Egashira, Yosuke Kubo, Yoko Kawakami, Hideyuki Hayashi, Takashi Mochizuki: Multiple skin abscesses caused by *Rhizopus* sp. infection after *Candida albicans* infection in an immunocompromised patient, *Medical Mycology Journal*, 60: 17–21, 2019.
- 0490D002 (Kentaro Iwasa), Kohei Ogawa, Hiroaki Azukizawa, Hiroshi Tanabe, Tomoyuki Iwanaga, Kazushi Anzawa, Takashi Mochizuki, Hideo Asada: Revival of favus in Japan caused by *Trichophyton schoenleinii*, *The Journal of Dermatology*, 46: 347–350, 2019.
- 0490D003 Miyamori Mutsuki, Futatsuya Taketoshi, Hatta Junko, Ushigami Tsuyoshi, Anzawa Kazushi, Mochizuki Takashi: A case of subungual abscess caused by *Aspergillus niger*, 41: 557–560, 2019.
- 0490D004 (Yanagihara Makoto), Anzawa Kazushi, Hanakawa Hiroyoshi, Mochizuki Takashi: A case of tinea corporis by *Trichophyton benhamiae* (Group II), 41: 523–526, 2019.
- 0490D005 (Yoshihiro Goto), Takahiro Suzuki, Yoko Susuki, Kazushi Anzawa, Takashi Mochizuki, Takashi Tamura, Koichi Makimura, Masahiro Aoshima, Taisuke Ito, Yoshiki Tokuro: *Trichophyton tonsurans*-induced kerion celsi with decreased defensin expression and paradoxically increased interleukin-17A production, *The Journal of Dermatology*, 46: 794–797, 2019.
- 0490D006 (Yuriko Sho), Tomoko Yamate, Takashi Sakai, Tomoko Shono, Kazushi Shikawa, Naoko Takeo, Sauehi Fujiwara, Saburo Anzai, Motoi Takenaka, Atsushi Utani, Katsutarou Nishimoto, Katsuhiko Kamei, Kazushi Anzawa, Takashi Mochizuki, Yutaka Hatano: Two cases of cutaneous infection caused by *Trichophyton verrucosum*, *The Nishinihon Journal of Dermatology*, 81: 6; 517–523, 2019.
- 0490D007 Norifumi Hayashi, Keiichirou Okada, Yuko Tsuruyama, Yu Kagaya, Sho Kumano, Yuki Ishikura, Kiminobu Takeda, Masayuki Nanbu, Keiji Fujimoto, Hiroki Adachi, Hitoshi Yokoyama: Plasma exchange for thrombotic microangiopathy secondary to dermatomyositis associated with acute kidney injury and complement activation: a case report with literature review, *Renal Replacement Therapy*, 5: 48, 2019.

Short Communications

- 0490E001 Taketoshi Futatsuya, Kazushi Anzawa, Takashi Mochizuki, Yutaka Hatano: Molecular identification of fungi in formalin-fixed and paraffin-embedded skin tissue samples, *The Journal of Dermatology*, 46: 171–172, 2019.
- 0490E002 (Soichi Enomoto), Hiroko Shigemi, Yuki Kitazaki, Masamichi Ikawa, Osamu Yamamura, Tadanori Hamano, Katsunori Tai, Hiromichi Iwasaki, Haruka Koizumi, Minoru Hasegawa, Kiminobu Takeda, Yasunari Nakamoto: *Cladophialophora bantiana* infection mimicking neuromyelitis optica, *Journal of Neurological Sciences*, 399: 169–171, 2019.
- 0490E003 (Ayako Ito), Nanako Yamada, Ryoko Kimura, Kazushi Anzawa, Takashi Mochizuki, Osamu Yamamoto: *Tinea barbae* due to *Trichophyton mentagrophytes* infected from calves, *Acta Dermato-Venereologica*, 99: 925–926, 2019.
- 0490E004 Junko Watanabe, Yasuko Ishizaki, Kazushi Anzawa, Takashi Mochizuki: Case of *Trichophyton tonsurans* infection which emerged after using corticosteroid to treat herpetic encephalitis, *The Journal of Dermatology*, 46: e343–e344, 2019.

Presentations at Conference

International Conference (Symposium)

- 0490H001 Mochizuki T, Takeda K, Anzawa K: Trends of dermatomycoses in Japan, The 7th Asia-Pacific Society for Medical Mycology Congress, Guangzhou, 2019.

0500 Department of Urology

Faculty

Title	Name	Field of Specialization
Professor	MIYAZAWA Katsuhito	kidney stone disease, endourology, prostate cancer
Professor	TANAKA Tatsuro	kidney transplantation, endourology
Senior Assistant Professor	CHIKAZAWA Ippei	general urology
Assistant Professor	SUGA Koudai	general urology
Assistant Professor	INOUE Shinya	general urology
Senior Assistant Professor	MORITA Nobuyo	general urology
Assistant Professor	NAKAZAWA Yusuke	general urology
Assistant Professor	FUKUDA Yuko	general urology
Assistant Professor	USHIMOTO Chiharuko	general urology
Assistant Professor	KUNII Kenshiro	general urology
Assistant Professor	TACHIBANA Hiromichi	general urology

Keywords of Research

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

Outline of Research

clinical research on renal transplantation,
mechanism of urolithiasis

Publications

Originals

- 0500B001 Ippei Chikazawa, Kenshiro Kunii, Chiharuko Ushimoto, Shinya Inoue, Yusuke Nakazawa, Yuko Fukuda, Koudai Suga, Nobuyo Morita, Tatsuro Tanaka, Katsuhito Miyazawa: Critical study of the prostate cancers with a serum prostate specific antigen level of more than 100ng/ml at the first diagnosis, International journal of Urology, 110: 3; 168-176, 2019.
- 0500B002 Yusuke Nakazawa, Shinya Inoue, Yuka Nakamura, Yasuo Iida, Yasuhito Ishigaki, Katsuhito Miyazawa: High-salt diet promotes crystal deposition through hypertension in Dahl salt-sensitive rat model, International journal of urology, 26: 839-846, 2019.

Presentations at Conference

International Conference (Presentations)

- 0500I001 Nobuyo Morita, Katsuhito Miyazawa: A Case of ureteral stone with septic shock, AUA/JUA International Affiliate Society Meeting 2019, Chicago, 2019.

0510 Department of Obstetrics and Gynecology

Faculty

Title	Name	Field of Specialization
Professor	SASAGAWA Toshiyuki	Gynecologic Pathology, Tumor Virology, Sexually Transmitted Infection Research, Immunology
Associate Professor	TAKAKURA Masahiro	gynecologic oncology, perinatal medicine
Associate Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine, gynecologic oncology
Senior Assistant Professor (Additional Post)	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	SHIBATA Takeo	Cancer immunology, Microbiome
Assistant Professor	OSAKA Yasuhiro	perinatal medicine
Assistant Professor	SAKAMOTO Jinichi	perinatal medicine, gynecologic oncology

Keywords of Research

Human Papillomavirus (HPV) , HPV test, HPV-related Diseases, BCG-CWS, Cancer Immunotherapy, Immune Tolerance, prenatal diagnosis, malignant tumor of female genital organs, Endometriosis, Vaginosis, Microbiome, Premature Delivery, Noninvasive Prenatal Testing (NIPT)

Outline of Research

【Women's Health】

(Pathology of Human Papillomavirus (HPV) Infection)

Efficacy Evaluation of Cancer Screening using HPV-DNA Test

Comprehensive Analyses of HPV-related Diseases

Immune Tolerance and Canceration on HPV Infection

Microbiome and HPV-related Diseases

(Cancer Treatment)

Development of Noninvasive Treatment for Squamous Intraepithelial Lesions (SIL) of the Lower Female Genital Organs

Efficacy Evaluation of BCG-CWS Cancer Immunotherapy for Gynecological Tumors

(Cancer Diagnosis)

Development of Cancer Diagnostic Method Using Novel Oncogene in the Blood

Development of Cancer Diagnostic Method focusing on Novel metabolite in the Blood

(Endometriosis)

Development of Diagnostic and Treatment Method for Endometriosis

(Infectious Diseases)

Vaginosis and Microbiome

【Perinatal Medicine】

(Investigation of the Cause of Premature Delivery)

Relationship Between Premature Delivery and Intravaginal Infection

Development of Novel Treatment Method

Microbiome and Premature Delivery

(Accuracy and Meaning of Prenatal Diagnosis for Fetus)

Epidemiological Study of Noninvasive Prenatal Testing (NIPT)

Development of Novel Noninvasive Prenatal Testing

Publications

Originals

- 0510B001 Takagi H, Sakamoto J, Sasagawa T: Long-term treatment of endometriosis with dienogest for up to five years, *Clinical and Experimental Obstetrics & Gynecology*, 46: 3; 398-402, 2019.

Reviews

- 0510C001 Takeo Shibata, Benjamin J Lieblong, Toshiyuki Sasagawa, Mayumi Nakagawa: The promise of combining cancer vaccine and checkpoint blockade for treating HPV-related cancer, *Cancer Treatment Reviews*, 78: 8-16, 2019.

Case Reports

- 0510D001 Nozomu Kurose, Seiya Mizuguchi, Yoshiiku Ohkanemasa, Manabu Yamashita, Mariko Nakano, Xin Guo, Akane Aikawa, Satoko Nakada, Toshiyuki Sasagawa, Sohsuke Yamada: Adenosquamous carcinoma of the uterine cervix displaying tumor-associated tissue eosinophilia, *SAGE Open Medical Case Reports*, 7: 2050313X19828235, 2019.

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
Professor	TAKAHASHI KAN	Protective effects of anesthetics on organ metabolism, Sedation of patients on mechanical ventilation using volatile anesthetics
Senior Assistant Professor	KIDA Hiromasa	Clinical anesthesia, Pediatric anesthesia, Shock
Senior Assistant Professor	HONMA Keiko	Clinical anesthesia, Palliative medicine
Assistant Professor	TAKAHARA Asami	Clinical anesthesia
Assistant Professor	KANEKO Yuriko	Clinical anesthesia
Assistant Professor	MORIKAWA Takanori	Clinical anesthesia
Assistant Professor	MATUBA Sho	Clinical anesthesia
Assistant Professor	MIYAJIMA Saki	Clinical anesthesia
Assistant Professor	OGAWA Miho	Clinical anesthesia
Assistant Professor	MATUZAKI Nobuhiko	Clinical anesthesia
Assistant Professor	YAMAGUCHI Atsuo	Clinical anesthesia

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0520B001 (Takayoshi Mizuno), Kan Takahashi, Hirotohi Kitagawa, Yasuhiko Imashuku, Fumiaki Komaki, Yutaka Hukushima: Sedation in the Intensive care unit using the AnaConDa system with volatile anesthetics after prolonged head and neck surgery, *Journal of Clinical Anesthesia*, 43: 10; 1345-1348, 2019.

0540 Department of Physical and Rehabilitation Medicine

Faculty

Title	Name	Field of Specialization
Professor	NAKAGAWA Takao	
Assistant Professor	TANABE Nozomu	

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 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.
-

0550 Department of Emergency Medicine

Faculty

Title	Name	Field of Specialization
Professor	WATOH Yukihiro	Emergency, Emergency medical system, Disaster Medicine
Associate Professor (Additional Post)	MASHIBA Satoru	Emergency, Anaphylaxis
Senior Assistant Professor	MORITA Hideki	Emergency
Assistant Professor	MURASAKA Kenshi	Emergency, Neurosurgery
Assistant Professor	WATANABE Atsushi	Emergency
Assistant Professor	USHIMOTO Tomoyuki	Emergency

Keywords of Research

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

Outline of Research

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

0570 Community Medicine

Faculty

Title	Name	Field of Specialization
Professor	KASAMAKI Yuji	Field of Specialization, Cardiology, General Practice, Electrocardiology, Arrhythmia, Echocardiography
Professor	KANDA Tsugiyasu	Cardiovascular distase, Diabetes Mellitus, Mental distase
Senior Assistant Professor (Additional Post)	TAKAMURA Akiteru	Community-based Medical Education, Community Medicine, General Practice, General Paediatrics
Assistant Professor (Additional Post)	USUDA Daisuke	General Medicine

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 (Kenichi Hashimoto), Yuji Kasamaki, Masayoshi Soma, Bonpei Takase: Diurnal variation of frequency domain T-wave alternans on 24-hour ambulatory electrocardiogram in subjects without heart disease: Significant effect of autonomic nervous activity of the heart, *Annals of Noninvasive Electrocardiology*, 24: 3; e12620, 2019.
- 0570B002 Higashikawa Toshihiro, Shigemoto Kenji, Goshima Kenichi, Usuda Daisuke, Okuro Masashi, Moriyama Manabu, Inujima Hiromi, Hangyou Masahiro, Usuda Kimiko, Morimoto Shigeto, Matsumoto Tadami, Takashima Shigeki, Kanda Tsugiyasu, Sawaguchi Takeshi: Urinary retention as a postoperative complication associated with functional decline in elderly female patients with femoral neck and trochanteric fractures A retrospective study of a patient cohort, *MEDICINE*, 98: 24; e16023, 2019.

0575 Department of Gastroenterological Endoscopy

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0575B001 Hidekazu Kitakata, Tohru Itoh, Shinichi Kinami, Ken Kawaura, Kazu Hamada, Sadafumi Azukisawa, Rika Kobayashi, Junji Kamai, Takeo Kosaka: Sealed endoscopy full-thickness resection for gastric cancer: a pilot study in an ex vivo and in vivo porcine model, Endoscopy International Open, 07: E36-E42, 2019.

Presentations at Conference

International Conference (Key Note Lecture)

0575G001 Thoru Itoh: ESD for gastric epithelial tumors with fibrosis, IDEN2019, Seoul, 2019.

International Conference (Symposium)

0575H001 Tohru Itoh: Cutting Edge for Accurate Diagnosis of SM Gastric Cancer, 21th Japan–Russia Endoscopy Symposium, Yaroslavl, 2019.

International Conference (Presentations)

0575I001 Tohru Itoh, Ken Kawaura, Sadafumi Azukisawa, Junji Kamai, Rika Kobayashi, Kazu Hamada, Hideyuki Okamura, Sachio Urashima, Sousuke Yamada, Hidekazu Kitakata: Bleeding after gastric endoscopic submucosal dissection and necessity of endoscopic examination(2nd look)on the following day, UEGW2019, Barcelona, 2019.

0577 Department of Cardiovascular Intervention

Faculty

Title	Name	Field of Specialization
Professor	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
Associate Professor	TSUCHIYA Taketsugu	Ischemic heart disease, Coronary intervention
Assistant Professor	KITAGAWA Katsuhide	Ischemic heart disease, Coronary intervention

Keywords of Research

coronary artery disease, prognosis of peripheral arterial disease

Publications

Case Reports

- 0577D001 Taketsugu Tsuchiya, Minako Oda, Takaaki Takamura, Katsuhide Kitagawa, Koji Kajinami, Michihiko Kitayama: Healing of femoral artery dissection after drug-coated balloon angioplasty: A case report with intravascular ultrasonography and angioscopy images, SAGE Open Medical Case Reports, 7: 2050313X19834159, 2019.

0580 Department of Oral and Maxillofacial Surgery

Faculty

Title	Name	Field of Specialization
Professor	DEMURA Noboru	orthodontics, stomatology
Associate Professor	MATSUMOTO Gouichi	Bone Regeneration, Biomaterials, Oral Cancer
Associate Professor	ISHIBASHI Hiroaki	Oral tumor, Oral Pathology
Senior Assistant Professor	KATO Takao	Oral cavity, Kampo medicines, Dental pharmacology
Assistant Professor	HASUMOTO Miho	Orthodontics

Keywords of Research

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

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.
6. Studies on the pharmacological mechanism of Kampo medicine.

Publications

Originals

- 0580B001 Kenichi Mizutani, Xin Guo, Akihiro Shioya, Jing Zhang, Jianbo Zheng, Nozomu Kurose, Hiroaki Ishibashi, Nozomu Motono, Hidetaka Uramoto, Sohsuke Yamada: The impact of PRDX4 and the EGFR mutation status on cellular proliferation in lung adenocarcinoma, *International journal of medical sciences*, 16: 9; 1199–1206, 2019.
- 0580B002 Goichi Matsumoto, Chieko Hashizume, Ken Watanabe, Makoto Taniguchi, Toshiro Okazaki: Deficiency of sphingomyelin synthase 1 but not sphingomyelin synthase 2 reduces bone formation due to impaired osteoblast differentiation, *Molecular Medicine*, 25: 56, 2019.

0590 Department of Regenerative Medicine

Faculty

Title	Name	Field of Specialization
Professor	SHIMODAIRA Shigetaka	Regenerative Medicine
Senior Assistant Professor	KATO Tomohisa	
Assistant Professor	KOYA Terutsugu	Regenerative Medicine
Assistant Professor	SAKAMOTO Takuya	

Keywords of Research

Dendritic cell-based vaccination, Cancer immunotherapy, Regenerative medicine using adipose tissue-derived stem cells, Genomic medicine

Outline of Research

Researchers of the Department of Regenerative Medicine are spearheading the era of personalized medicine by developing treatments that harness the power of immune cells and stem cells.

- Clinical investigation using dendritic cell-based cancer vaccines in accordance with the Good Gene, Cellular, and Tissue-based Products Manufacturing Practice (GCTP) standards
- Contribution to the development of regenerative medicine technology using adipose tissue-derived stem cells
- Genomic Regenerative Medicine

Publications

Originals

- 0590B001 Shimodaira S, Yanagisawa R, Koya T, Hirabayashi K, Higuchi Y, Sakamoto T, Togi M, Kato T Jr, Kobayashi T, Koizumi T, Koido S, Sugiyama H: In Vivo Administration of Recombinant Human Granulocyte Colony-Stimulating Factor Increases the Immune Effectiveness of Dendritic Cell-Based Cancer Vaccination, *Vaccines (Basel)*, 7: 3; 120, 2019.
- 0590B002 Ito Z, Kan S1, Bito T, Horiuchi S, Akasu T, Yoshida S, Kajihara M1, Hokari A, Saruta M, Yoshida N, Kobayashi M, Ohkusa T, Shimodaira S, Okamoto M5 Sugiyama H, Koido S: Predicted Markers of Overall Survival in Pancreatic Cancer Patients Receiving Dendritic Cell Vaccinations Targeting WT1, *Oncology*, 97: 3; 135-148, 2019.
- 0590B003 Manjiro Yamanaka, Ryu Tanagisawa, Shunsuke Kojima, Hideyuki Nakazawa, Shigetaka Shimodaira: Investigation of factors associated with allergic transfusion reaction due to platelet transfusion and the efficacy of platelets resuspended in BRS-A in adult patients, *Transfusion*, 59: 11; 3405-3412, 2019.

School of Nursing

8010 Fundamental Nursing

Faculty

Title	Name	Field of Specialization
Professor	SAKAI Keiko	Nursing education, Nursing skills
Professor	TAKIUTI Takako	Nursing history, Nursing skills
Associate Professor	MATSUI Kiyoko	Diabetes Care Educator, Nursing education
Senior Assistant Professor	SUGIMORI Chiyoko	Nursing skills, Nursing education
Senior Assistant Professor	OKAYAMA Miki	Patient education for diabetes
Assistant Professor	MIYANAGA Aiko	Wound Care Nursing, Nursing skills

Keywords of Research

fundamental nursing, nursing skills, nursing education, nursing history, wound care nursing

Outline of Research

-
1. Verification of nursing skills
 2. Study of nursing education
-

8040 Maternity Nursing・Midwifery

Faculty

Title	Name	Field of Specialization
Professor	YANO Keiko	Maternity Nursing, Midwifery
Associate Professor	KITAHAMA Masami	Maternity Nursing, Midwifery
Senior Assistant Professor	BODA Hitomi	Maternity Nursing, Midwifery
Senior Assistant Professor	YAMAZAKI Chisato	Maternity Nursing, Midwifery
Assistant Professor	KAWABATA Kumiko	Maternity Nursing, Midwifery

Keywords of Research

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

Outline of Research

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

8050 Pediatric Nursing

Faculty

Title	Name	Field of Specialization
Senior Assistant Professor	HASHI Shinobu	Single mother, asthma, child, belief, parenting stress
Assistant Professor	ISHII Kazumi	personal hygiene care

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 8050B001 Shinobu Hashi, Yutaka Nagayama: Single Mothers Who Have Children with Asthma, *The Journal of Child Health*, 78: 2; 113-121, 2019.
- 8050B002 Kazumi Ishii, Hiroko Nakada, Hiromitsu Kobayashi, Kazuyo Kawashima: Effect of Partial Bed Bath Using a Disposable Towel on the Elderly, *Japanese journal of nursing art and science*, 18: 17-25, 2019.
- 8050B003 Hashi Shinobu, Suma Kayoko, Terai Takahiro: Marital relationships and attachment of fathers to children in NICU, *Journal of Japan Academy of Neonatal Nursing*, 25: 2-7, 2019.
- 8050B004 Shinobu Hashi, Keiko Tsukasaki, Toshimi Nakamura, Kaoru Kyota, Tomoya Itatani: Effects of maintaining web-based diaries by caregivers on adherence to care regimens in preschoolers with asthma, *Journal for specialists in pediatric nursing*, 24: 4; e12263, 2019.

8060 Adult Nursing

Faculty

Title	Name	Field of Specialization
Professor	OBATA Mitsuko	Critical care
Associate Professor	MURAKADO Naoko	Chronic illness nursing, Diabetes nursing
Associate Professor	KINOSHITA Sachiko	Wound Care, Stoma care, Continence care
Associate Professor	SHIMIZU Reiko	Critical care nursing, Organ transplant nursing
Senior Assistant Professor	KITAMURA Yoshiko	Cancer Nursing
Senior Assistant Professor	ASANO Kimi	Wound Care
Assistant Professor	Natsuko Yamada	Critical Care

Keywords of Research

Wound care, Stoma care, Continence care, Chronic illness Nursing, Cancer Nursing, Terminal Care, Critical Care

Outline of Research

Wound care, Stoma care, Continence care, Chronic illness nursing, Cancer Nursing, Terminal care, Critical care nursing, Organ Transplant nursing

Publications

Originals

- 8060B001 Hideyuki Adachi, Shuko Maeda, Naoko Murakado: The situation and related factors of possession and use of information and communication technology in home-visit nursing care services, Japanese Journal of Telemedicine and Telecare, 15: 1; 10-18, 2019.
- 8060B002 Shohei Okida, Sachiko Kinoshita, Misako Dai, Kazumi Kawamura, Junko Sugama: Effect of medical compression stockings with markers on ease of wearing, twisting and skin, Lymphoedema Research and Practice, 7: 1; 20-28, 2019.

8070 Gerontological Nursing

Faculty

Title	Name	Field of Specialization
Professor	HIRAMATSU Tomoko	community/elderly nursing science
Senior Assistant Professor	HASHIMOTO Tomoe	community/elderly nursing science
Senior Assistant Professor	NAOI Chizuko	community/elderly nursing science
Assistant Professor	IWAMOTO Yoko	community/elderly nursing science

Keywords of Research

elderly volunteers in the community, learning experience with reality, analyzing the learning effects, frailty in elderly community-dwelling, care workers, long-term care facilities, bathing care, elderly patient with diabetes, elderly people with dementia, elderly swallowing, dietary support for the elderly, prevention of fall

Outline of Research

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

Publications

Originals

- 8070B001 Mizue Suzuki, Youko Matsui, Etuko Ootaka, Chieko Ichikawa, Kunihiro Abe, Yoshie Furuta, Tomoyoshi Naito, Mayumi Kato, Yoshimi Taniguchi, Tomoko Hiramatsu, Naoko Maruoka, Sayuri Kobayashi, Ryouko Rokkaku, Yukari Seki, Kiyoko Izumi, Masao Kanamori: Effects of a fall intervention program for elderly patients with dementia based on person-centered care on care staff, Japanese Journal of Geriatrics, 56: 4; 487-497, 2019.

8080 Public Health Nursing

Faculty

Title	Name	Field of Specialization
Associate Professor	TERANISHI Keiko	public health nursing
Senior Assistant Professor	IKEUCHI Satomi	public health nursing
Senior Assistant Professor	NAKADA Yukari	public health nursing
Assistant Professor	TSUKAMOTO Yoko	public health nursing

Keywords of Research

Public health nursing-care activity, Public health nursing education, Health promotion, activity of community organization, Industrial health,

Outline of Research

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

8085 Psychiatric and Mental Health Nursing

Faculty

Title	Name	Field of Specialization
Professor	FUKASAWA Yuko	Mental health, Psychiatric Nursing
Associate Professor	TANAKA Koji	life-world led care, patient-nurse interrelationship, empathy, psychiatric and mental health nursing
Associate Professor	NAGAYAMA Yutaka	Reducing the use of coercive measures, Strength-based nursing for psychiatric patients
Assistant Professor	ARAI Satomi	Support for patient undergoing treatment, Concordance

Keywords of Research

depression, suicide prevention, therapeutic nursing, narrative approach, life-world led care, patient-nurse interrelationship, empathy, psychiatric and mental health nursing, reducing the use of coercive measures, physical restraint, seclusion, Strengths model, support for patients undergoing treatment, Concordance

Outline of Research

Our research topics are phenomenological study of Patients/Family and clinical nursing practice, reduction of seclusion and physical restraint in psychiatric wards and support for patients undergoing treatment.

Publications

Originals

- 8085B001 Tanaka Koji: Experience of Elderly People with Charles Bonnet Syndrome Due to Visual Impairment, Journal of Japan Academy of Nursing Science, 39: 91-99, 2019.
- 8085B002 Shinobu Hashi, Yutaka Nagayama: Single Mothers Who Have Children with Asthma, The Journal of Child Health, 78: 2; 113-121, 2019.
- 8085B003 Tanaka Koji: Experiences of community mental health nurses in Japan as the basis of their nursing philosophies, Perspectives in Psychiatric Care, 55: 4; 636-643, 2019.

Short Communications

- 8085E001 Yoneyama Satoko, Tanaka Koji, Matsuda Yukihiisa, Hashimoto Reiko, Ishizaki Masao, Tamai Akira, Kawasaki Yasuhiro: Relationship of neighborly ties with cognitive decline and total mood disturbances in older adult residents of depopulated areas in Japan: The Ninchisho (Dementia) Supporter Caravan Himi Study, Psychiatry and clinical neurosciences, 73: 12; 763-765, 2019.

8090 Home Care Nursing

Faculty

Title	Name	Field of Specialization
Professor	MAEDA Shuko	home care, home health care nurse
Senior Assistant Professor	NAKAI Hisao	Home healthcare, Disaster Nursing, Care Management
Senior Assistant Professor	RAN Naomi	Home care, Elderly care
Assistant Professor	FUKUDA Moriyoshi	Nursing care of pressure ulcer, Home care

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

Publications

Originals

- 8090B001 Hideyuki Adachi, Shuko Maeda, Naoko Murakado: The situation and related factors of possession and use of information and communication technology in home-visit nursing care services, Japanese Journal of Telemedicine and Telecare, 15: 1; 10-18, 2019.
- 8090B002 (Ryo Horiike), Hisao Nakai, Tomoya Itatani, Fumie Shirai, Kaoru Konishi: Using GIS to simulate tsunami evacuation guidance signs for the hearing impaired, PLOS ONE, 14: 6; e0217512, 2019.

8100 Medical Science

Faculty

Title	Name	Field of Specialization
Professor	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology
Professor	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Professor	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Professor	KOJIMA Masami	Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature
Associate Professor	SHIMADA Hiroki	Histology, Cell Biology, Embryology
Senior Assistant Professor	FUJITA Satoko	Perinatal medicine, Sexually transmitted disease

Keywords of Research

M. Kojima/electromagnetic radiation, M. Kojima/ultraviolet exposure, M. Kojima/infrared rays exposure, H. Shimada/Free radicals in medicine and biology, H. Shimada/Development of the central nervous system

Outline of Research

M. Kojima: Study of ocular effect from electromagnetic radiation (electric wave, ultraviolet rays, and infrared rays) exposure.
K. Iwai: Role of the nuclear matrix associated proteins in the regulation of gene expression of the cardiovascular cells.
Y. Morikawa: Epidemiology of work related disease, Social epidemiology
H. Shinada: Free radicals in medicine and biology, Development of the central nervous system

Publications

Originals

- 8100B001 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 8100B002 Masami Kojima, Cheng-Yu Tsai, Yukihiisa Suzuki, Kensuke Sasaki, Takafumi Tasaki, Masao Taki, Soichi Watanabe, Hiroshi Sasaki: Ocular Response to Millimeter Wave Exposure Under Different Levels of Humidity, *Journal of Infrared, Millimeter, and Terahertz Waves*, 40: 5; 574-584, 2019.
- 8100B003 Takuya Noda, Hideaki Shiga, Kentaro Yamada, Masayuki Harita, Yukari Nakamura, Tomoko Ishikura, Masami Kumai, Zenji Kawakami, Atsushi Kaneko, Toshihisa Hatta, Hiromi Sakata-Haga, Hiroki Shimada, Takaki Miwa: Effects of tokishakuyakusan on regeneration of murine olfactory neurons in vivo and in vitro, *Chemical Senses*, 44: 5; 327-338, 2019.
- 8100B004 Takafumi Tasaki, Masami Kojima, Yukihiisa Suzuki, Yoshinori Tatematsu, Hiroshi Sasaki: Creating a Stable Short-term Housing Environment for Rabbits in a Cargo Van, *Journal of American Association for Laboratory Animal Science*, 58: 4; 456-461, 2019.

Reviews

- 8100C001 Tsuyoshi Tsukada, Hiroki Shimada, Hiromi Sakata-Haga, Hideaki Iizuka, Toshihisa Hatta: Molecular mechanisms underlying the models of neurodevelopmental disorders in maternal immune activation relevant to the placenta, *Congenital anomalies*, 59: 81-87, 2019.

Presentations at Conference

International Conference (Symposium)

- 8100H001 (Suzuki Y), Kojima M, Okuno T, Takamura M, Hada A, Tasaki T, Tatematsu Y, Fukunari M, Mizuno M, Tani M, Sasaki H: Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages, The 7th International Workshop on Far-Infrared Technologies, Fukui, 2019.
- 8100H002 Kojima M, Suzuki Y, Tasaki T, Tatematsu Y, Fukunari M, Tani M, Sasaki H: Ocular damage threshold to millimeter wave(162GHz) exposure, The 7th International Workshop on Far-Infrared Technologies, Fukui, 2019.03.
- 8100H003 M.Kojima, Y.Suzuki, T.Tasaki, Y.Tatematsu, M.Fukunari, M.tani, H.Sasaki: Ocular damage threshold to millimeter wave (162GHz) exposure, IWFIRT2019, Fukui, 2019.
- 8100H004 (Masahiko Tani), Yoshinori Tatematsu, Maya Mizuno, Yukihiisa Suzuki, Masami Kojima, Takafumi Tasaki, Hideaki Kitahara, Masafumi Fukunari: Investigation on Influence of Terahertz Wave Irradiation to Living Organisms by Using THz Gyrotron and THz Time-Domain Spectroscopy, EMC Sapporo & APEMC 2019, Sapporo, 2019.

International Conference (Presentations)

- 8100I001 (M.Tani), Y.Tatematsu, H.Kitahara, M.Fukunari, M.Mizuno, Y.Suzuki, M.Kojima, T.Tasaki: Terahertz Wave Sources and Their Applications - With Some Topics on Influence of THz Wave Irradiation to Living Organisms-, EMC Sapporo&APEMC2019, Sapporo, 2019.
- 8100I002 (Yukihiisa Suzuki), Masami Kojima, Takafumi Tasaki, Toshinori Tatematsu, Masafumi Fukunari, Maya Misuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Investigation of the thresholds for ocular damage caused by MMW exposure from 30GHz to 160GHz by experimental and numerical approach, URSI-JRSM 2019, Tokyo, 2019.
- 8100I004 (Nobuo Kariyama), Hiromi Sakata-Haga, Tsuyoshi Tsukada, Hiroki Shimada, Toshihisa Hatta: Rapid bone staining procedure for adult mice, Asian Confederation of Orthopaedic Manipulative Physical Therapy Congress 2019 Tokyo, Tokyo, 2019.09.

Department of General Education

8610 Natural Sciences

Faculty

Title	Name	Field of Specialization
Professor	SHOJI Hiroki	Developmental Biology, Molecular Biology, Biochemistry
Associate Professor	HASHIMOTO Mitsumasa	Radiation Biology, Cell Biology
Associate Professor	IIDA Yasuo	Function algebra, Function space
Senior Assistant Professor	SAKAI Daisuke	Developmental Biology, Molecular Biology, Biochemistry
Senior Assistant Professor	OKUDA Koichi	Quantitative analysis in nuclear cardiology
Senior Assistant Professor	MAEDA Masayo	Molecular oncology, Metastasis of Cancer Cells
Senior Assistant Professor	INOUE Tomoki	Graph theory in topology

Keywords of Research

ultrastructure, pharynx spongemetamorphosis, immunoelectron microscopy, neurosynaps neurosecretory cell, lectin, galectin β -galactoside, Xenopus development, placenta, Metastasis, Metastasis Inducing Gene, RhoGDI β (LyGDI/D4GDI/RhoGDI2), , Nuclear medicine Nuclear cardiology, Imaging, Image processing SPECT, DNA repair, 53BP1, NHEJ, HR, Ionizing Radiation, DNA double strand breaks (DSBs), Bertrand curve Mannheim curve, isotropy group, harmonic form, class number, ideal class group, cyclotomic field Mannheim curve, Frenet frame, graph theory in topology, topological polyhedron,

Outline of Research

1) Functional analysis of Galectins a family of β -galactosides binding proteins. a) Roles of Galectins in animal development. b) Roles of Galectins in the placentation and immune tolerance.

Hashimoto: Function of DNA repair enzymes especially protection mechanisms against DNA double strand breaks induced ionizing radiation especially protection mechanisms against DNA double strand breaks induced ionizing radiation
Okuda: The aim of our research is to develop a computer algorithm for the quantitative assessment of myocardial perfusion and sympathetic nerve activity in the nuclear cardiology.

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

MAEDA: Rho guanine nucleotide dissociation inhibitors (RhoGDIs) regulate the activity of Rho family GTPases. Our studies have indicated that RhoGDI β (LyGDI/D4GDI/RhoGDI2) plays a role in cancer metastasis. Further investigation of the details of RhoGDI β 's role in cancer progression and metastasis is important. It will lead to a better treatment for cancer.

Publications

Originals

- 8610B001 (Shibutani T), Nakajima K, Wakabayashi H, Mori H, Matsuo S, Yoneyama H, Konishi T, Okuda K, Onoguchi M, Kinuya S: Accuracy of an artificial neural network for detecting a regional abnormality in myocardial perfusion SPECT, *Annals of Nuclear Medicine*, 33: 2; 86–92, 2019.

- 8610B002 (Yoneyama H), Kenichi Nakajima, Junichi Taki, Hiroshi Wakabayashi, Shinro Matsuo, Takahiro Konishi, Koichi Okuda, Takayuki Shibutani, Masahisa Onoguchi, Seigo Kinuya: Ability of artificial intelligence to diagnose coronary artery stenosis using hybrid images of coronary computed tomography angiography and myocardial perfusion SPECT, *European Journal of Hybrid Imaging*, 3: 4, 2019.
- 8610B003 (Ito Toshimune), Onoguchi Masahisa, Okuda Koichi, Shibutani Takayuki: “Deformable Image Registration” New Images Registration of Myocardial Perfusion SPECT, *JOURNAL OF NUCLEAR MEDICINE*, 60, 2019.
- 8610B004 Kitada Munehiro, Ogura Yoshio, Nitta Kyoko, Fujii Mizue, Kanasaki Keizo, Konishi Kazunori, Iida Yasuo, Nakagawa Atsushi, Koya Daisuke: Effect of switching to teneligliptin from other dipeptidyl peptidase-4 inhibitors on glucose control and renoprotection in type 2 diabetes patients with diabetic kidney disease, *Journal of diabetes investigation*, 10: 3; 706-713, 2019.
- 8610B005 Yusuke Nakazawa, Shinya Inoue, Yuka Nakamura, Yasuo Iida, Yasuhito Ishigaki, Katsuhito Miyazawa: High-salt diet promotes crystal deposition through hypertension in Dahl salt-sensitive rat model, *International journal of urology*, 26: 839-846, 2019.
- 8610B006 Naohiko Nakamura, Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Yasuo Iida, Takeo Kosaka: The neutrophil/lymphocyte ratio as a predictor of peritoneal metastasis during staging laparoscopy for advanced gastric cancer: a retrospective cohort analysis, *World Journal of Surgical Oncology*, 17: 108, 2019.
- 8610B007 (Hiroshi Wakabayashi), Junichi Taki, Anri Inaki, Tomo Hiromasa, Takafumi Yamase, Norihito Akatani, Koichi Okuda, Takayuki Shibutani, Kazuhiro Shiba, Seigo Kinuya: Prognostic Value of Early Evaluation of Left Ventricular Dyssynchrony After Myocardial Infarction, *Molecular Imaging & Biology*, 21: 654-659, 2019.
- 8610B008 Murakami Yuki, Imamura Yukio, Saito Kuniaki, Sakai Daisuke, Motyama Jun: Altered kynurenine pathway metabolites in a mouse model of human attention-deficit hyperactivity/autism spectrum disorders: A potential new biological diagnostic marker, *Scientific reports*, 9: 13182, 2019.
- 8610B009 Shiga H, Okuda K, Taki J, Watanabe N, Tonami H, Kinuya S, Miwa T: Nasal thallium-201 uptake in patients with parosmia with and without hyposmia after upper respiratory tract infection, *International forum of allergy & rhinology*, 9: 11; 1252-1256, 2019.
- 8610B010 Koichi Okuda, Naoto Watanabe, Mitsumasa Hashimoto, Mariko Doai, Yasuyuki Kawai, Tomoko Takahashi, Tomohiro Arikawa, Kazumasa Oiso, Yumi Sunatani, Kuniyoshi Iwabuchi, Koji Kajinami, Munetaka Matoba: Preliminary quantitative evaluation of radiation-induced DNA damage in peripheral blood lymphocytes after cardiac dual-isotope imaging, *Applied Radiation and Isotopes*, 154: 108890, 2019.
- 8610B011 Koichi Okuda, Kenichi Nakajima, Hiroto Yoneyama, Takayuki Shibutani, Masahisa Onoguchi, Shinro Matsuo, Mitsumasa Hashimoto, Seigo Kinuya: Impact of iterative reconstruction with resolution recovery in myocardial perfusion SPECT: phantom and clinical studies, *Scientific Reports*, 9: 19618, 2019.

Reviews

- 8610C001 Nakajima Kenichi, Okuda Koichi, Matsuo Shinro, Slomka Piotr: Making the invisible visible: Phase dyssynchrony has potential as a new prognostic marker, *Journal of nuclear cardiology*, 26: 1; 298-302, 2019.

Short Communications

- 8610E001 (Nakajima Kenichi), Okuda Koichi, Verberne Hein J: Phase dyssynchrony and I-123-meta-iodobenzylguanidine innervation imaging towards standardization, *JOURNAL OF NUCLEAR CARDIOLOGY*, 26: 519-523, 2019.
- 8610E002 Okuda K, Nakajima K: What does entropy reveal in phase analysis of myocardial perfusion SPECT?, *Journal of Nuclear Cardiology*, 2019.
- 8610E003 (Nakajima Kenichi), Okuda Koichi, Maruyama Koji: Demystifying dyssynchrony for diagnosis and prognosis: Tips for measuring heterogeneous phase distribution, *Journal of nuclear cardiology*, 2019.

Others

- 8610F001 Okuda Koichi, Ito Toshimune: 10. Simulation of Nuclear Medicine Experiments Using ImageJ, Japanese Journal of Radiological Technology, 75: 10; 1205–1210, 2019.

Presentations at Conference

International Conference (Presentations)

- 8610I001 Koichi Okuda, Kenichi Nakajima, Hisahiro Saito, Toshimune Ito, Akihiko Kikuchi, Hiroto Yoneyama, Takayuki Shibutani, Masahisa Onoguchi, Shinro Matsuo, Mitsumasa Hashimoto, Seigo Kinuya: Texture analysis of myocardial perfusion SPECT with a digital cardiac phantom, ICNC 2019, Lisbon, 2019.
- 8610I002 (Toshimune Ito), Masahisa Onoguchi, Koichi Okuda, Takayuki Shibutani: “Deformable Image Registration” New Images Registration of Myocardial Perfusion SPECT, Society of Nuclear Medicine and Molecular Imaging (SNMMI) 2019 Annual Meeting, Anaheim, 2019.
- 8610I003 Koichi Okuda, Kenichi Nakajima, Hisahiro Saito, Toshimune Ito, Akihiro Kikuchi, Hiroto Yoneyama, Takayuki Shibutani, Masahisa Onoguchi: Preliminary evaluation of texture analysis on myocardial perfusion SPECT: a digital cardiac phantom study, SNM 2019, Anaheim, 2019.
- 8610I004 (H.Yoneyama), K.Nakajima, J.Taki, H.Wakabayashi, T.Konishi, K.Okuda, T.Shiburani, M.Onoguchi, S.Kinuya: Ability of artificial intelligence to diagnose coronary artery stenosis using hybrid images of coronary computed tomography angiography and myocardial perfusion SPECT, EANM 2019, Barcelona, 2019.
- 8610I005 (K.Nakajima), S.Watanabe, K.Maruyama, A.Inaki, H.Wakabayashi, K.Okuda, S.Kinuya: Abnormal I-123 MIBG scan can be identified by artificial neural network: possible application to Lewy body diseases, EANM 2019, Barcelona, 2019.
- 8610I006 K. Okuda, K. Nakajima, C. Kitamura, Y. Kirihara, J. Taki, M. Hashimoto, S. Kinuya: Effect of collimator characteristics on 123I-MIBG phantom imaging using Monte Carlo simulation, EANM 2019, Barcelona, 2019.
- 8610I007 (T. Shibutani), M. Onoguchi, T. Konishi, H. Yoneyama, H. Ichikawa, K. Okuda, K. Nakajima: Quantitative accuracy of standardized uptake value (SUV) for xSPECT Bone technology using new supine phantom, EANM 2019, Barcelona, 2019.
- 8610I008 (T. Konishi), T. Shibutani, K. Okuda, H. Yoneyama, R. Moribe, M. Onoguchi, K. Nakajima, S. Kinuya: The effect of metal artifact reduction on quantitative SPECT/CT imaging, EANM 2019, Barcelona, 2019.

8620 Human Sciences

Faculty

Title	Name	Field of Specialization
Professor	SHIBUYA Yoshiho	English linguistics, Phonetics
Professor	HARA Akira	Austria literature led by Hofmannsthal
Associate Professor	HONDA Kojiro	Ethics of technology
Associate Professor	KOCHI Munehiro	Interpretationen von Goethes Werken, Begriff von Bildung
Associate Professor	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Senior Assistant Professor	KIKUCHI Takeshi	Philosophy, ethics, philosophy, ethics and the education, research of the thing supporting life, health, life, philosophy of the minority
Senior Assistant Professor	KYUJI Kazuyo	Nursing Students and Professional Sprit
Senior Assistant Professor	IKENAKA Masami	English Education
Senior Assistant Professor	CRAIG Woods	English, Medical English
Senior Assistant Professor	BURKE STEVEN Thomas	English
Assistant Professor	MURAKAMI Yusuke	adapted physical activity

Keywords of Research

logic, metaphysics, form, content, predicate, category, deduction, induction, matterbeing, substance, definion, Phenomenology, Philosophy of Technology, Ethics of Technology, Engineering Ethics, Robo-ethics, Medical Ethics, Cognitive Science of Learning, History of Science, Philosophy of Science, , articulatory phonetics, acoustic phonetics, English phonology, Japanese phonology, pronunciation, L2 researchlanguage acquisition, medical research article, novel, individualism, quest, existentialism, Bildungsroman, humor, irony, narration, suffering, humanity cross-cultural differences, cultural variation, NLP, Python programming language, medical Englishe-learning, , end of the century, culture, the middle Ages, Modern times, Europe, , exercise prescription, lifestyle-related diseases, improvement of physical fitness, soccer, PE class,

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 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 Halfte 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 mochte ich im Fall vom deutschen Dichter Goethe untersuchen und in seinen Werken wie Romanen und Dramen zeigen mochte ich im Fall vom deutschen Dichter Goethe untersuchen und in seinen Werken wie Romanen und Dramen zeigen

HONDA:It is inquiring about the ethics of technology. Tradition of knowledge" has considered the problem what kind of responsibility occurs why in possible one and the side which inherits knowledge again by the mainly phenomenological

technique.

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, Japanese influence the pronunciation of Japanese speakers of English is studied.

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

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

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

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

Presentations at Conference

International Conference (Symposium)

8620H001 Honda Koujiro: Use of Robots in Healthcare: the Japanese Experience and the Relevance of Culture, Pontifical academy for life 2019, Vatican, 2019.

International Conference (Presentations)

8620I001 Tsuda Ryosuke: Load characteristics of small-sided games in soccer from the viewpoint of improvement in physical fitness : the effect of rule changes, ECSS Prague 2019, Czech, 2019.

8620I002 Honda Kojiro: Theology of Ancient Shinto-ism and Japanese Robot-cultur, The 11th Beyond Humanism Conference, Lille, 2019.

University Hospital

0615 Breast and Endocrine Surgery

Faculty

Title	Name	Field of Specialization
Professor	NOGUCHI Masakuni	Surgery of breast cancer
Associate Professor	INOKUCHI Masahumi	Disease of breast, Breast oncology
Senior Assistant Professor	NOGUCHI Miki	Surgery of breast cancer
Assistant Professor	MORIOKA Emi	Surgery of breast cancer

Publications

Originals

- 0615B001 (Takayuki Kinoshita), Takahiro Nakayama, Eisuke Fukuma, Masafumi Inokuchi, Hiroshi Ishiguro, Etsuyo Ogo, Mari Kikuchi, Hiromitsu Jinno, Naoya Yamazaki, Masakazu Toi: Efficiency of Scalp Cooling in Preventing and Recovering From Chemotherapy-Induced Alopecia in Breast Cancer Patients: The HOPE Study, *Frontiers in Oncology*, 9: 733, 2019.

Case Reports

- 0615D001 (Hirofumi Terakawa), Ryosuke Gabata, Satoko Ishikawa, Miki Hirata, Masafumi Inokuchi, Hiroko Kawashima, Tomoharu Miyashita, Hidehiro Tajima, Hiroyuki Takamura, Itasu Ninomiya, Sachio Fushida, Tetsuo Ohta, Takeru Oyama, Hiroko Ikeda: A Case of Histiocytoid Breast Cancer Carcinoma Accompanied by Multiple Axillary Lymph Node Metastases, *Japanese Journal of Cancer Chemotherapy*, 46: 6; 1049-1051, 2019.
- 0615D002 (Hirofumi Terakawa), Yuto Kitano, Satoko Ishikawa, Miki Hirata, Masafumi Inokuchi, Hiroko Kawashima, Tomoharu Miyashita, Hidehiro Tajima, Hiroyuki Takamura, Itasu Ninomiya, Sachio Fushida, Tetsuo Ohta: A Case of Thrombotic Microangiopathy Arising from Breast Cancer Treated with Chemotherapy, *Japanese Journal of Cancer Chemotherapy*, 46: 7; 1183-1186, 2019.

Presentations at Conference

International Conference (Presentations)

- 0615I001 Masakuni Noguchi, Emi Morioka, Yukako Ohno, Miki Yokoi-Noguchi, Masafumi Inokuchi: Axillary reverse mapping with indocyanine fluorescence imaging system in breast cancer patients with clinically negative nodes, 20th Annual Meeting The American Society of Breast Surgeons, Dallas, 2019.

0675 Health Evaluation Center

Faculty

Title	Name	Field of Specialization
Professor	ASAJI Takayoshi	Heartfailure
Professor (Additional Post)	ISHIZAKI Masao	Occupational health, Epidemiology for cardiovascular disease
Professor (Additional Post)	NISHIJO Muneko	Environmental epidemiology, epidemiology of cadmium pollution
Professor (Additional Post)	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine
Associate Professor	NAKANISHI Yumiko	Preventive medicine
Associate Professor (Additional Post)	SAKURAI Masaru	Cardiovascular epidemiology, preventive cardiology
Senior Assistant Professor (Additional Post)	NAGASAWA Shinya	Cardiovascular epidemiology, preventive cardiology
Assistant Professor	OIKAWA Eriko	clinical respiratory medicine , lung cancer
Assistant Professor	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor	KAWANAMI Haruka	Hematology and Immunology

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.

Books

- 0675A001 Muneko Nishijo, Hideaki Nakagawa: Chapter5 Effects of Cadmium Exposure on Life Prognosis, Cadmium Toxicity:New Aspects in Human Disease, Rice Contamination, and Cytotoxicity (Seiichiro Himeno, Keiko Aoshima), 63-73, Springer, Singapore, 2019.

Publications

Originals

- 0675B001 Zheng Jianbo, Nakamura Tsuneyuki, Lu Na, Hori Kaori, Oguri Masato, Sakurai Masaru, Ishizaki Masao: The radial augmentation index in children with Kawasaki disease without acute coronary artery lesions during the convalescent period, Therapeutics and clinical risk management, 15: 701-709, 2019.
- 0675B002 Kakuda Hirokazu, Kobayashi Junji, Sakurai Masaru, Takekoshi Noboru: Residual Effect of Sodium Glucose Cotransporter 2 Inhibitor, Tofogliflozin, on Body Weight After Washout in Japanese Men With Type 2 Diabetes, Journal of clinical medicine research, 11: 1; 35-41, 2019.
- 0675B003 (White IR), Kaptoge S, Royston P, Sauerbrei W; Emerging Risk Factors Collaboration(Nakagawa H, Sakurai M et al.): Meta-analysis of non-linear exposure-outcome relationships using individual participant data: A comparison of two methods, Statistics in Medicine, 38: 3; 326-338, 2019.

- 0675B004 Pennells L, Kaptoge S, Wood A, Sweeting M, Zhao X, White I, Burgess S, Willeit P, Bolton T, Moons KGM, van der Schouw YT, Selmer R, Khaw KT, Gudnason V, Assmann G, Amouyel P, Salomaa V, Kivimaki M, Nordestgaard BG, Blaha MJ, Kuller LH, Brenner H, Gillum RF, Meisinger C, Ford I, Knuiman MW, Rosengren A, Lawlor DA, Völzke H, Cooper C, Marín Ibañez A, Casiglia E, Kauhanen J, Cooper JA, Rodriguez B, Sundström J, Barrett-Connor E, Dankner R, Nietert PJ, Davidson KW, Wallace RB, Blazer DG, Björkelund C, Donfrancesco C, Krumholz HM, Nissinen A, Davis BR, Coady S, Whincup PH, Jørgensen T, Ducimetiere P, Trevisan M, Engström G, Crespo CJ, Meade TW, Visser M, Kromhout D, Kiechl S, Daimon M58, Price JF, Gómez de la Cámara A, Wouter Jukema J, Lamarche B, Onat A, Simons LA, Kavousi M, Ben-Shlomo Y, Gallacher J, Dekker JM, Arima H, Shara N, Tipping RW, Roussel R, Brunner EJ, Koenig W, Sakurai M, Pavlovic J, Gansevoort RT, Nagel D, Goldbourt U, Barr ELM, Palmieri L, Njolstad I, Sato S, Monique Verschuren WM, Varghese CV, Graham I, Onuma O, Greenland P, Woodward M, Ezzati M, Psaty BM, Sattar N, Jackson R, Ridker PM, Cook NR, D'Agostino RB, Thompson SG, Danesh J, Di Angelantonio E; Emerging Risk Factors Collaboration: Equalization of four cardiovascular risk algorithms after systematic recalibration: individual-participant meta-analysis of 86 prospective studies, *European heart journal*, 40: 7; 621-631, 2019.
- 0675B005 (Cecilia Kimani), Aya Kadota, Katsuyuki Miura, Akira Fujiyoshi, Maryam Zaid, Sayaka Kadowaki, Takashi Hisamatsu, Hisatomi Arima, Minoru Horie, Hirotsugu Ueshima, for the SESSA Research Group: Differences Between Coronary Artery Calcification and Aortic Artery Calcification in Relation to Cardiovascular Disease Risk Factors in Japanese Men, *Journal of Atherosclerosis and thrombosis*, 26: 5; 452-464, 2019.
- 0675B006 (GiangThi Thuy Nghiem), Muneko Nishijo, Thao Ngoc Pham, Mika Ito, Tai The Pham, Anh Hai Tran, Hiroshi Nishimaru, Yoshikazu Nishino, Hisao Nishijo: Adverse effects of maternal dioxin exposure on fetal brain development before birth assessed by neonatal electroencephalography (EEG) leading to poor neurodevelopment; a 2-year follow-up study, *The Science of the total environment*, 667: 718-729, 2019.
- 0675B007 (Soisungwan Satarug), David A. Vesey, Muneko Nishijo, Werawan Ruangyuttikarn, Glenda C. Gobe: The inverse association of glomerular function and urinary β 2-MG excretion and its implications for cadmium health risk assessment, *Environmental research*, 173: 40-47, 2019.
- 0675B008 (Masaki Sumi), Takashi Hisamatsu, Akira Fujiyoshi, Aya Kadota, Naoko Miyagawa, Keiko Kondo, Sayaka Kadowaki, Sentaro Suzuki, Sayuki Torii, Maryam Zaid, Atsushi Sato, Hisatomi Arima, Tomohiro Terada, Katsuyuki Miura, Hirotsugu Ueshima, for the SESSA Research Group: Association of Alcohol Consumption With Fat Deposition in a Community-Based Sample of Japanese Men: The Shiga Epidemiological Study of Subclinical Atherosclerosis (SESSA), *Journal of Epidemiology*, 29: 6; 205-212, 2019.
- 0675B009 Ngoc Thao Pham, Muneko Nishijo, The Tai Pham, Ngoc Nghi Tran, Van Quan Le, Hai Anh Tran, Huy Anh Vu Phan, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese children in the most contaminated area from Agent Orange in Vietnam, *The Science of the total environment*, 678: 217-226, 2019.
- 0675B010 Nitta Kyoko, Nagai Takako, Mizunuma Yuiko, Kitada Munehiro, Nakagawa Atsushi, Sakurai Masaru, Toyoda Masao, Haneda Masakazu, Kanasaki Keizo, Koya Daisuke: N-Acetyl-seryl-aspartyl-lysyl-proline is a potential biomarker of renal function in normoalbuminuric diabetic patients with eGFR \geq 30 ml/min/1.73 m², *Clinical and Experimental Nephrology*, 23: 8; 1004-1012, 2019.
- 0675B011 (Atsushi Satoh), Hisatomi Arima, Atsushi Hozawa, Takayoshi Ohkubo, Takashi Hisamatsu, Sayaka Kadowaki, Aya Kadota, Akira Fujiyoshi, Naoko Miyagawa, Maryam Zaid, Sayuki Torii, Tomonori Okamura, Akira Sekikawa, Katsuyuki Miura, Hirotsugu Ueshima, Minoru Horie, Yasutaka Nakano, Takashi Yamamoto, Emiko Ogawa, Hiroshi Maegawa, Itsuko Miyazawa, Kiyoshi Murata, Kenichi Mitsunami, Kazuhiko Nozaki, Akihiko Shiino, Isao Araki, Teruhiko Tsuru, Ikuo Toyama, Hisakazu Ogita, Souichi Kurita, Toshinaga Maeda, Naomi Miyamatsu, Toru Kita, Takeshi Kimura, Yoshihiko Nishio, Yasuyuki Nakamura, Tomonori Okamura, Akira Sekikawa, Emma J. M. Barinas-Mitchell, Daniel Edmundowicz, Takayoshi Ohkubo, Atsushi Hozawa, Nagako Okuda, Aya Higashiyama, Shinya Nagasawa, Yoshikuni Kita, Yoshitaka Murakami, Aya Kadota, Akira Fujiyoshi, Naoyuki Takashima, Takashi Kadowaki, Sayaka Kadowaki, Robert D. Abbott, Seiko Ohno, Hisatomi Arima, Takashi Hisamatsu, Naoko Miyagawa, Sayuki Torii, Yoshino Saito, Maryam Zaid, Sentaro Suzuki, Takahiro Ito, Masahiro Yamazoe, Takeshi Shibukawa, Masaki Sumi, SESSA Res Grp: The association of home and accurately measured office blood pressure with coronary artery calcification among general Japanese men, *Journal of Hypertension*, 37: 8; 1676-1681, 2019.

- 0675B012 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Kazue Takai, Sadao Aoki, Junya Kuroda, Makoto Ide, Keigo Setoguchi, Norifumi Tsukamoto, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Yasufumi Masaki: Is TAFRO syndrome a subtype of idiopathic multicentric Castleman disease?, *American Journal of Hematology*, 94: 9; 975-983, 2019.
- 0675B013 (Soisungwan Satarug), David A.Vesey, Werawan Ruangyuttikarn, Muneko Nishijo, Glenda C.Gobe, Kenneth R.Phelps: The Source and Pathophysiological Significance of Excreted Cadmium, *Toxics*, 7: 4; 55, 2019.
- 0675B014 The WHO CVD Risk Chart Working Group; (Kaptoge S), Pennells L, De Bacquer D, Cooney MT, Kavousi M, Stevens G, Riley LM, Savin S, Khan T, Altay S, Amouyel P, Assmann G, Bell S, Ben-Shlomo Y, Berkman L, Beulens JW, Björkelund C, Blaha M, Blazer DG, Bolton T, Bonita Beaglehole R, Brenner H, Brunner EJ, Casiglia E, Chamnan P, Choi YH, Chowdry R, Coady S, Crespo CJ, Cushman M, Dagenais GR, D'Agostino RB Sr, Daimon M, Davidson KW, Engström G, Ford I, Gallacher J, Gansevoort RT, Gaziano TA, Giampaoli S, Grandits G, Grimsgaard S, Grobbee DE, Gudnason V, Guo Q, Tolonen H, Humphries S, Iso H, Jukema JW, Kauhanen J, Kengne AP, Khalili D, Koenig W, Kromhout D, Krumholz H, Lam TH, Laughlin G, Marín Ibañez A, Meade TW, Moons KGM, Nietert PJ, Ninomiya T, Nordestgaard BG, O'Donnell C, Palmieri L, Patel A, Perel P, Price JF, Providencia R, Ridker PM, Rodriguez B, Rosengren A, Rousset R, Sakurai M, Salomaa V, Sato S, Schöttker B, Shara N, Shaw JE, Shin HC, Simons LA, Sofianopoulou E, Sundström J, Völzke H, Wallace RB, Wareham NJ, Willeit P, Wood D, Wood A, Zhao D, Woodward M, Danaei G, Roth G, Mendis S, Onuma O, Varghese C, Ezzati M, Graham I, Jackson R, Danesh J, Di Angelantonio E: World Health Organization cardiovascular disease risk charts: revised models to estimate risk in 21 global regions, *THE LANCET Global Health*, 7: 10; e1332-e1345, 2019.
- 0675B015 (Lee CMY), Colagiuri S, Woodward M, Gregg EW, Adams R, Azizi F, Gabriel R, Gill TK, Gonzalez C, Hodge A, Jacobs Jr DR, Joseph JJ, Khalili D, Magliano DJ, Mehlig K, Milne R, Mishra G, Mongraw-Chaffin M, Pasco JA, Sakurai M, Schreiner PJ, Selvin E, Shaw JE, Wittert G, Yatsuya H, Huxley RR: Comparing different definitions of prediabetes with subsequent risk of diabetes: an individual participant data meta-analysis involving 76 513 individuals and 8208 cases of incident diabetes, *BMJ open diabetes research & care*, 7: 1; e000794, 2019.

Case Reports

- 0675D001 Shino Fujimoto, Tomoyuki Sakai, Hiroshi Kawabata, Nozomu Kurose, Sohsuke Yamada, Mariko Doai, Munetaka Matoba, Haruka Iwao-Kawanami, Takafumi Kawanami, Shuichi Mizuta, Toshihiro Fukushima, Hiroki Mizumaki, Masaki Yamaguchi, Yasufumi Masaki: Osteosarcoma Manifesting Systemic Inflammation and Histological Features Mimicking Plasma Cell-type Castleman Disease, *Internal Medicine*, 58: 17; 2555-2560, 2019.

Short Communications

- 0675E001 Yoneyama Satoko, Tanaka Koji, Matsuda Yukihisa, Hashimoto Reiko, Ishizaki Masao, Tamai Akira, Kawasaki Yasuhiro: Relationship of neighborly ties with cognitive decline and total mood disturbances in older adult residents of depopulated areas in Japan: The Ninchisho (Dementia) Supporter Caravan Himi Study, *Psychiatry and clinical neurosciences*, 73: 12; 763-765, 2019.

Presentations at Conference

International Conference (Presentations)

- 0675I001 (Quyet Do Ba), Tai Pham The, Muneko Nishijo: Overview of dioxin remediation projects from post-war to present in Vietnam, *The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto*, Kyoto, 2019.
- 0675I002 Hoa Vu Thi, Muneko Nishijo, Thao Pham Ngoc, Tai Pham The, Luong Hoang Van, Anh Tran Hai, Nghi Tran Ngoc, Yoshikazu Nishino, Hisao Nishijo, Quyet Do Ba: Effects of perinatal dioxin exposure on mirror neuron activity in 8-year-old children living in a hot spot of dioxin contamination in Vietnam, *The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto*, Kyoto, 2019.

- 0675I003 Muneko Nishijo, Tai Pham The, Nghi Tran Ngoc, Thao Pham Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Vu Phan HA, Phuong Phan T, Yoshikazu Nishino, Quyet Do Ba, Teruhiko Kido, Hisao Nishijo: Dioxin levels in breast milk in herbicide sprayed and unsprayed areas in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0675I004 (Tai Pham The), Muneko Nishijo, Thao Pham Ngoc, Hoa Vu Thi, Nghi Tran Ngoc, Anh Tran Hai, Luong Hoang Van, Quyet Do Ba, Yoshikazu Nishino, Hisao Nishijo: Effects of prenatal dioxin exposure on children behaviors at 8 years of age, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0675I005 Thao Ngoc Pham, Muneko Nishijo, Giang Thi Thuy Nghiem, Nghi Ngoc Tran, Tai The Pham, Hoa Thi Vu, Anh Hai Tran, Vu Huy Anh Phan, Yoshikazu Nishino, Hisao Nishijo: Effects of perinatal dioxin exposure on fetal brain development assessed by neonatal elctrocephalography (EEG) in the most contaminated area from Agent Orange in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 0675I006 (Hisao Nishijo), Muneko Nishijo, Tai Pham The, Thao Pham Ngoc, Nghi Tran Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Phuong Phan H, Yosikazu Nishino, Quyet Do Ba: Prevention and intervention of dioxin related diseases in hot spots of dioxin contamination in Vietnam –A trial of nutritional intervention in Da Nang–, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.

Medical Research Institute

7100 Department of Life Sciences

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
Professor	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Professor	IWAWAKI Takao	Cellular stress response
Professor	OSANAI Kazuhiro	Lung cell and molecular biology, Interstitial Lung Disease
Associate Professor (Additional Post)	OHTSUKA Satoshi	Stem Cell Biology
Associate Professor	TASAKI Takafumi	Protein regulation by the post-translational modifications and its underlying molecular mechanisms
Senior Assistant Professor	TANIGUCHI Makoto	Molecular and Cellular Biology, Lipid Biochemistry
Senior Assistant Professor (Additional Post)	OHI Kazutaka	Psychiatry, Genetics, Neuropsychopharmacology, Biological Psychiatry, Imaging
Assistant Professor	TATSUNO Takanori	Molecular biology

Keywords of Research

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

Outline of Research

1. Study on viral replication and pathogenicity
2. Molecular mechanism of carcinogenesis and metastasis
3. Research on polyploidization and polyploid cells
4. Analyses of transcription and mRNA decay
5. Protein regulation by the post-translational modifications and its underlying molecular mechanisms
6. Lipid metabolism and its-associated diseases
7. Stem cell biology and development
8. Physiological and pathological function of cellular stress response

Publications

Originals

- 7100B001 Kazutaka Ohi, Takamitsu Shimada, Aki Kuwata, Yuzuru Kataoka, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Smoking Rates and Number of Cigarettes Smoked per Day in Schizophrenia: A Large Cohort Meta-Analysis in a Japanese Population, The international journal of neuropsychopharmacology, 22: 1; 19-27, 2019.

- 7100B002 (Medel B), Costoya C, Fernandez D, Pereda C, Lladser A, Sauma D, Pacheco R, Iwawaki T, Salazar-Onfray F, Osorio F: IRE1 α Activation in Bone Marrow-Derived Dendritic Cells Modulates Innate Recognition of Melanoma Cells and Favors CD8+ T Cell Priming, *Frontiers in immunology*, 9: 3050, 2019.
- 7100B003 (Antoniou AN), Lenart I, Kriston-Vizi J, Iwawaki T, Turmaine M, McHugh K, Ali S, Blake N, Bowness P, Bajaj-Elliott M, Gould K, Nesbeth D, Powis SJ: Salmonella exploits HLA-B27 and host unfolded protein responses to promote intracellular replication, *Annals of the rheumatic diseases*, 78: 74-82, 2019.
- 7100B004 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 7100B005 (Apostolou E), Moustardas P, Iwawaki T, Tzioufas AG, Spyrou G: Ablation of the Chaperone Protein ERdj5 Results in a Sjögren's Syndrome-Like Phenotype in Mice, Consistent With an Upregulated Unfolded Protein Response in Human Patients, *Frontiers in immunology*, 10: 506, 2019.
- 7100B006 (Liu L), Zhao M, Jin X, Ney G, Yang KB, Peng F, Cao J, Iwawaki T, Del Valle J, Chen X, Li Q: Adaptive endoplasmic reticulum stress signalling via IRE1 α -XBP1 preserves self-renewal of haematopoietic and pre-leukaemic stem cells, *Nature Cell Biology*, 21: 328-337, 2019.
- 7100B007 Qingfeng Ma, Takanori Tatsuno, Yuka Nakamura, Yasuhito Ishigaki: The stability of Magoh and Y14 depends on their heterodimer formation and nuclear localization, *Biochemical and Biophysical Research Communications*, 511: 631-636, 2019.
- 7100B008 Masami Kojima, Cheng-Yu Tsai, Yukihiisa Suzuki, Kensuke Sasaki, Takafumi Tasaki, Masao Taki, Soichi Watanabe, Hiroshi Sasaki: Ocular Response to Millimeter Wave Exposure Under Different Levels of Humidity, *Journal of Infrared, Millimeter, and Terahertz Waves*, 40: 5; 574-584, 2019.
- 7100B009 Ohi Kazutaka, Shimada Takamitsu, Kataoka Yuzuru, Koide Yoko, Yasuyama Toshiki, Uehara Takashi, Okubo Hiroaki, Kawasaki Yasuhiro: Intelligence decline between present and premorbid IQ in schizophrenia: Schizophrenia Non-Affected Relative Project (SNARP), *European neuropsychopharmacology*, 29: 5; 653-661, 2019.
- 7100B010 Yusuke Nakazawa, Shinya Inoue, Yuka Nakamura, Yasuo Iida, Yasuhito Ishigaki, Katsuhito Miyazawa: High-salt diet promotes crystal deposition through hypertension in Dahl salt-sensitive rat model, *International journal of urology*, 26: 839-846, 2019.
- 7100B011 Qingfeng Ma, Takanori Tatsuno, Yuka Nakamura, Shin-Ichi Izumi, Naohisa Tomosugi, Yasuhito Ishigaki: Immuno-detection of mRNA-binding protein complex in human cells under transmission electron microscopy, *MICROSCOPY RESEARCH AND TECHNIQUE*, 82: 6; 680-688, 2019.
- 7100B012 (Zentaro Kiuchi), Yukino Nishibori, Satoru Kutsuna, Masashi Kotani, Ichiro Hada, Toru Kimura, Toshiyuki Fukutomi, Daisuke Fukuhara, Noriko Ito-Nitta, Akihiko Kudo, Takanobu Takata, Yasuhito Ishigaki, Naohisa Tomosugi, Hirotohi Tanaka, Satsuki Matsushima, Shinya Ogasawara, Yoshiaki Hirayama, Hiromu Takematsu, Kunimasa Yan: GLCC1 is a novel protector against glucocorticoid-induced apoptosis in T cells, *FASEB JOURNAL*, 33: 6; 7387-7402, 2019.
- 7100B013 Kazutaka Ohi, Aki Kuwata, Takamitsu Shimada, Yuzuru Kataoka, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Genome-Wide Variants Shared Between Smoking Quantity and Schizophrenia on 15q25 Are Associated With CHRNA5 Expression in the Brain, *Schizophrenia Bulletin*, 45: 4; 813-823, 2019.
- 7100B014 (Kim MS), Yi EJ, Kim YI, Kim SH, Jung YS, Kim SR, Iwawaki T, Ko HJ, Chang SY: ERdj5 in Innate Immune Cells Is a Crucial Factor for the Mucosal Adjuvanticity of Cholera Toxin, *Frontiers in immunology*, 10: 1249, 2019.
- 7100B015 Takafumi Tasaki, Masami Kojima, Yukihiisa Suzuki, Yoshinori Tatematsu, Hiroshi Sasaki: Creating a Stable Short-term Housing Environment for Rabbits in a Cargo Van, *Journal of American Association for Laboratory Animal Science*, 58: 4; 456-461, 2019.
- 7100B016 (Chopra S), Giovanelli P, Alvarado-Vazquez PA, Alonso S, Song M, Sandoval TA, Chae CS, Tan C, Fonseca MM, Gutierrez S, Jimenez L, Subbaramaiah K, Iwawaki T, Kingsley PJ, Marnett LJ, Kossenkov AV, Crespo MS, Dannenberg AJ, Glimcher LH, Romero-Sandoval EA, Cubillos-Ruiz JR: IRE1 α -XBP1 signaling in leukocytes controls prostaglandin biosynthesis and pain, *Science*, 365: eaau6499, 2019.

- 7100B017 (Suzuki T), Muramatsu A, Saito R, Iso T, Shibata T, Kuwata K, Kawaguchi SI, Iwawaki T, Adachi S, Suda H, Morita M, Uchida K, Baird L, Yamamoto M: Molecular Mechanism of Cellular Oxidative Stress Sensing by Keap1, *Cell reports*, 28: 746–758, 2019.
- 7100B018 Kazutaka Ohi, Yuzuru Kataoka, Takamitsu Shimada, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiaki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Meta-analysis of physical activity and effects of social function and quality of life on the physical activity in patients with schizophrenia, *European Archives of Psychiatry and Clinical Neurosciences*, 269: 5; 517–527, 2019.
- 7100B019 Ohi Kazutaka, Sumiyoshi Chika, Fujino Haruo, Yasuda Yuka, Yamamori Hidenaga, Fujimoto Michiko, Sumiyoshi Tomiki, Hashimoto Ryota: A 1.5-Year Longitudinal Study of Social Activity in Patients With Schizophrenia, *Frontiers in Psychiatry*, 10: 567, 2019.
- 7100B020 (Takeda K), Nagashima S, Shiiba I, Uda A, Tokuyama T, Ito N, Fukuda T, Matsushita N, Ishido S, Iwawaki T, Uehara T, Inatome R, Yanagi S: MITOL prevents ER stress-induced apoptosis by IRE1 α ubiquitylation at ER-mitochondria contact sites, *The EMBO Journal*, 38: e100999, 2019.
- 7100B021 (Nakamura H), Sekiguchi A, Ogawa Y, Kawamura T, Akai R, Iwawaki T, Makiguchi T, Yokoo S, Ishikawa O, Motegi SI: Zinc deficiency exacerbates pressure ulcers by increasing oxidative stress and ATP in the skin, *Journal of dermatological science*, 95: 62–69, 2019.
- 7100B022 (Kime Cody), Kiyonari Hiroshi, Ohtsuka Satoshi, Kohbayashi Eiko, Asahi Michio, Yamanaka Shinya, Takahashi Masayo, Tomoda Kiichiro: Induced 2C Expression and Implantation-Competent Blastocyst-like Cysts from Primed Pluripotent Stem Cells, *Stem Cell Reports*, 13: 3; 485–498, 2019.
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Reviews

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Case Reports

- 7100D001 Ryo Kato, Takashi Sakuma, Kazuaki Nishiki, Keisuke Nakase, Masafumi Nojiri, Shohei Shinomiya, Yutaka Takahara, Taku Oikawa, Kazuhiro Osanai, Shiro Mizuno: A Lung Abscess Caused by Porphyromonas gingivalis Infection Associated with Marked Thrombocytosis and Thromboembolism, The Journal of the Japan Society for Respiratory Endoscopy, 41: 4; 375–380, 2019.

Presentations at Conference

International Conference (Symposium)

- 7100H001 (Suzuki Y), Kojima M, Okuno T, Takamura M, Hada A, Tasaki T, Tatematsu Y, Fukunari M, Mizuno M, Tani M, Sasaki H: Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages, The 7th International Workshop on Far–Infrared Technologies, Fukui, 2019.
- 7100H002 Kojima M, Suzuki Y, Tasaki T, Tatematsu Y, Fukunari M, Tani M, Sasaki H: Ocular damage threshold to millimeter wave (162GHz) exposure, The 7th International Workshop on Far–Infrared Technologies, Fukui, 2019.03.
- 7100H003 M.Kojima, Y.Suzuki, T.Tasaki, Y.Tatematsu, M.Fukunari, M.tani, H.Sasaki: Ocular damage threshold to millimeter wave (162GHz) exposure, IWFIRT2019, Fukui, 2019.
- 7100H004 (Masahiko Tani), Yoshinori Tatematsu, Maya Mizuno, Yukihisa Suzuki, Masami Kojima, Takafumi Tasaki, Hideaki Kitahara, Masafumi Fukunari: Investigation on Influence of Terahertz Wave Irradiation to Living Organisms by Using THz Gyrotron and THz Time–Domain Spectroscopy, EMC Sapporo & APEMC 2019, Sapporo, 2019.
- 7100H005 Ohi K: Cognitive impairments in schizophrenia: Drug discovery strategy and potential targets, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.

International Conference (Presentations)

- 7100I001 Ohi K, Shimada T, Kataoka Y, Uehara T, Kawasaki Y: Genome–wide variants shared between smoking quantity and schizophrenia on 15q25 are associated with CHRNA5 expression in the brain, 1st AsCNP–ASEAN International Congress of Neuropsychopharmacology, Republik Indonesia, 2019.
- 7100I003 Eri Kubo, Hidetoshi Ishida, Shinsuke Shibata, Teppei Shibata, Yuka Nakamura, Yasuhito Ishigaki, Dharendra P. Singh, Hiroshi Sasaki: Gene expression profiling of lens epithelial cells in Shumiya cataract rats, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 7100I004 (Tetsuo Nakayama), Shiko Kuribayashi, Junko Hirato, Takao Iwawaki, Ko Nakata, Hirohito Tanaka, Taku Tomizawa, Hiroko Hosaka, Yasuyuki Shimoyama, Osamu Kawamura, Motoyasu Kusano, Toshio Uraoka: Comparison between endoscopic and histopathological findings in patients with ulcerative colitis, Digestive Disease Week 2019, San Diego, 2019.
- 7100I005 Shiga H, Ishikura T, Nakamura Y, Ishigaki Y, Miwa T: Nasal administration of adipose tissue derived stem cells in olfactory impaired mice, Rhinoworld Chicago 2019, Chicago, 2019.06.
- 7100I006 (M.Tani), Y.Tatematsu, H.Kitahara, M.Fukunari, M.Mizuno, Y.Suzuki, M.Kojima, T.Tasaki: Terahertz Wave Sources and Their Applications – With Some Topics on Influence of THz Wave Irradiation to Living Organisms–, EMC Sapporo&APEMC2019, Sapporo, 2019.

- 7100I007 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Toshinori Tatematsu, Masafumi Fukunari, Maya Misuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Investigation of the thresholds for ocular damage caused by MMW exposure from 30GHz to 160GHz by experimental and numerical approach, URSI-JRSM 2019, Tokyo, 2019.
- 7100I008 (Yoon Jee Lee), Sung Tae Kim, Joonsung Hwang, Takafumi Tasaki, Bo Yeon Kim, Yong Tae Kwon: The N-recogin UBR4 of the N-degron pathway is required for endosomal maturation and trafficking, 1st Annual meeting of the International Society of Protein Termini (ISPT)-Protein Termini2019, Seoul, 2019.10.
- 7100I009 Kazutaka OHI, Takeshi OTOWA, Mihoko SHIMADA, Tsukasa SASAKI, Hisashi TANII: Shared Genetic Etiology between Anxiety Disorders and Psychiatric and Related Intermediate Phenotypes, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.
- 7100I010 Yuzuru KATAOKA, Kazutaka OHI, Takamitsu SHIMADA, Hiroaki OKUBO, Takashi UEHARA, Yasuhiro KAWASAKI: Difference in executive function among with patients with schizophrenia, their first-degree relatives and healthy subjects, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.
- 7100I011 Takamitsu SHIMADA, Kazutaka OHI, Yuzuru KATAOKA, Yoko KOIDE, Hiroaki OKUBO, Takashi UEHARA: Impaired social functions in patients with schizophrenia and their first-degree relatives, 6th Congress of Asian College of Neuropsychopharmacology, Fukuoka, 2019.
- 7100I012 (José R Navarro-Betancourt), Joan Papillon, Julie Guillemette, Takao Iwawaki, Andrey V Cybulsky: Role of IRE1 α in Podocyte Proteostasis, KIDNEY WEEK 2019, Washington, DC, 2019.
- 7100I013 Eri Kubo, Teppei Shibata, Shinsuke Shibata, Dhirendra P Singh, Etsuko Kiyokawa, Yasuhito Ishigaki, Masahito Ikawa, Hiroshi Sasaki: Effect of tropomyosin 1 knockout in lens development and fiber differentiation, The 6th International Conference on the Lens, Kailua Kona, 2019.

7200 Department of Advanced Medicine

Faculty

Title	Name	Field of Specialization
Professor	TAKEUCHI Masayoshi	AGEs, Life style-related disease
Professor	NIIDA Yo	Genetic disease, Genetic diagnosis
Professor (Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
Professor (Additional Post)	YASUMOTO Kazuo	Gastric cancer, Cancerous peritonitis molecular target therapy
Professor (Additional Post)	SHIMODAIRA Shigetaka	Regenerative Medicine
Associate Professor	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, BioInformatics
Senior Assistant Professor	TAKATA Takanobu	AGEs, Biochemistry
Senior Assistant Professor	SAKASAI Akiko	AGEs, Cell Biology
Senior Assistant Professor	OZAKI Mamoru	cytogenetics, Molecular cytogenetics
Senior Assistant Professor (Additional Post)	KATO Tomohisa	Stem cell biology, Molecular biology
Assistant Professor	URA Hiroki	Genetic disease, Genetic diagnosis, Cell biology, Molecular biology
Assistant Professor	TOGI Sumihito	Genetic disease, Genetic diagnosis, Cell biology, Molecular biology

Keywords of Research

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

Outline of Research

1. The role of AGEs in the prevention of lifestyle related disease
2. Clinical research for the diagnosis and treatment of pancreatic cancer
3. Development and clinical application of fetal DNA diagnosis using mother's blood
4. Genetic diagnosis and analysis of hereditary developmental disability
5. Development of molecular method to detect the abnormality of chromosome, and risk evaluation about balance type of reciprocal translocation

Publications

Originals

- 7200B001 Motoo Y, Yukawa K, Arai I, Hisamura K, Tsutani K: Use of complementary and alternative medicine in Japan: a cross-sectional internet survey using the Japanese version of the International Complementary and Alternative Medicine Questionnaire, JMA Journal, 2: 1; 35-46, 2019.
- 7200B002 Motoo Y, Yukawa K, Hisamura K, Tsutani K, Arai I: Internet survey on the provision of complementary and alternative medicine in Japanese private clinics: a cross-sectional study, Journal of integrative medicine, 17: 1; 8-13, 2019.

- 7200B003 Takata Takanobu, Sakasai-Sakai Akiko, Ueda Tadashi, Takeuchi Masayoshi: Intracellular toxic advanced glycation end-products in cardiomyocytes may cause cardiovascular disease, *Scientific Reports*, 9: 1; 2121, 2019.
- 7200B004 (Shoji Tetsuaki), Konno Satoshi, Niida Yo, Ogi Takahiro, Suzuki Masaru, Shimizu Kaoruko, Hida Yasuhiro, Kaga Kichizo, Seyama Kuniaki, Naka Tomoaki, Matsuno Yoshihiro, Nishimura Masaharu: Familial multifocal micronodular pneumocyte hyperplasia with a novel splicing mutation in TSC1: Three cases in one family, *PLOS ONE*, 14: 2; e0212370, 2019.
- 7200B005 Wu Jing, Otsuka T, Nakamura M, Sakurai N, Takano H, Hayashi T, Ota M, Nomura T, Hayashi R, Shimasaki T, Tahara T, Shibata T, Arisawa T: Association of genetic polymorphisms in DNMT3A with the progression of gastric mucosal atrophy and susceptibility to gastric cancer in Japan, *ONCOLOGY LETTERS*, 17: 3482-3488, 2019.
- 7200B006 (Zentaro Kiuchi), YukinoNishibori, Satoru Kutsuna, Masashi Kotani, Ichiro Hada, Toru Kimura, Toshiyuki Fukutomi, Daisuke Fukuhara, Noriko Ito-Nitta, Akihiko Kudo, Takanobu Takata, Yasuhiro Ishigaki, Naohisa Tomosugi, Hirotohi Tanaka, Satsuki Matsushima, Shinya Ogasawara, Yoshiaki Hirayama, Hiromu Takematsu, Kunimasa Yan: GLCCI1 is a novel protector against glucocorticoid-induced apoptosis in T cells, *FASEB JOURNAL*, 33: 6; 7387-7402, 2019.
- 7200B007 Yui Sasaki, Chunhoo Cheon, Yoshiharu Motoo, Soobin Jang, Sunju Park, Seong-Gyu Ko, Bo-Hyoung Jang, Deok-Sang Hwang: Complementary and Alternative Medicine for Breast Cancer Patients: An Overview of Systematic Reviews, *YAKUGAKU ZASSHI*, 139: 7; 1027-1046, 2019.
- 7200B008 (Hosaka M), Arai I, Ishiura Y, Ito T, Seki Y, Naito T, Matsuzawa Y, Nakayama T, Motoo Y: Efficacy of daikenchuto, a traditional Japanese Kampo medicine, for postoperative intestinal dysfunction in patients with gastrointestinal cancers: meta-analysis, *International Journal of Clinical Oncology*, 24: 11; 1385-1396, 2019.
- 7200B009 Sakasai-Sakai Akiko, Takata Takanobu, Suzuki Hirokazu, Maruyama Ikuro, Motomiya Yoshihiro, Takeuchi Masayoshi: Immunological evidence for in vivo production of novel advanced glycation end-products from 1,5-anhydro-D-fructose, a glycogen metabolite, *Scientific Reports*, 9: 1; 10194, 2019.
- 7200B010 Takata Takanobu, Sakasai-Sakai Akiko, Takino Jun-ichi, Takeuchi Masayoshi: Evidence for toxic advanced glycation end-products generated in the normal rat liver, *Nutrients*, 11: 7; 1612, 2019.
- 7200B011 (Yokoi Ayano), Niida Yo, Kuroda Mondo, Imi-Hashida Yoko, Toma Tomoko, Yachie Akihiro: B-cell-specific accumulation of inclusion bodies loaded with HLA class II molecules in patients with mucopolidiosis II (I-cell disease), *Pediatric research*, 86: 1; 85-91, 2019.
- 7200B012 (Huang CW), Tran DNH, Li TF, Sasaki Y, Lee JA, Lee MS, Arai I, Motoo Y, Yukawa K, Tsutani K, Ko SG, Hwang SJ, Chen FP: The utilization of complementary and alternative medicine in Taiwan: An internet survey using an adapted version of the international questionnaire (I-CAM-Q), *Journal of the Chinese Medical Association*, 82: 8; 656-671, 2019.
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- 7200B014 (Ito Z), Kan S1, Bito T, Horiuchi S, Akasu T, Yoshida S, Kajihara M1, Hokari A, Saruta M, Yoshida N, Kobayashi M, Ohkusa T, Shimodaira S, Okamoto M5 Sugiyama H, Koido S: Predicted Markers of Overall Survival in Pancreatic Cancer Patients Receiving Dendritic Cell Vaccinations Targeting WT1, *Oncology*, 97: 3; 135-148, 2019.
- 7200B015 (Manjiro Yamanaka), Ryu Tanagisawa, Shunsuke Kojima, Hideyuki Nakazawa, Shigetaka Shimodaira: Investigation of factors associated with allergic transfusion reaction due to platelet transfusion and the efficacy of platelets resuspended in BRS-A in adult patients, *Transfusion*, 59: 11; 3405-3412, 2019.

Reviews

- 7200C001 Sakasai-Sakai Akiko, Takata Takanobu, Takino Jun-Ichi, Takeuchi Masayoshi: The relevance of toxic AGEs (TAGE) cytotoxicity to NASH pathogenesis: A mini-review, *Nutrients*, 11: 2; 462, 2019.

- 7200C002 (Takayama S), Arita R, Ohsawa M, Kikuchi A, Yasui H, Makino T, Motoo Y, Ishii T: Perspectives on the use of ninjin'yoeito in modern medicine: a review of randomized controlled trials, *Evidence-Based Complementary and Alternative Medicine*, 2019: 9590260, 2019.
- 7200C003 Miwa T, Ikeda K, Ishibashi T, Kobayashi M, Kondo K, Matsuwaki Y, Ogawa T, Shiga H, Suzuki M, Tsuzuki K, Furuta A, Motoo Y, Fujieda S, Kurono Y: Clinical practice guidelines for the management of olfactory dysfunction – Secondary publication, *Auris Nasus Larynx*, 46: 5; 653–662, 2019.

Case Reports

- 7200D001 (Kondo Takeshi), Niida Yo, Mizuguchi Masashi, Nagasaki Yasushi, Ueno Yasuhiro, Nishimura Akiyoshi: Autopsy case of right ventricular rhabdomyoma in tuberous sclerosis complex, *Legal medicine*, 36: 37–40, 2019.
- 7200D002 Yasui Yoshitomo, Sato Hitoshi, Niida Yo, Kohno Miyuki: Spinal muscular atrophy with respiratory distress type 1 associated with novel compound heterozygous mutations in IGHMBP2: Differential diagnosis in a case with congenital diaphragm eventration, *Congenital anomalies*, 59: 22–23, 2019.
- 7200D003 (Sako Saori), Niida Yo, Shima Kosuke Robert, Takeshita Yumie, Ishii Kiyō-Aki, Takamura Toshinari: A novel PHEX mutation associated with vitamin D-resistant rickets, *Human Genome Variation*, 6: 9, 2019.

Others

- 7200F001 Motoo Y: Nivolumab-related sclerosing cholangitis in gastric cancer, *Internal Medicine*, 58: 9; 1197, 2019.

Presentations at Conference

International Conference (Symposium)

- 7200H001 Motoo Y, Tomita Y, Fujita H: Prophylactic efficacy of ninjin'yoeito for oxaliplatin-induced cumulative peripheral neuropathy in patients with colorectal cancer receiving postoperative adjuvant chemotherapy: a randomized, phase 2 trial (HOPE-2), 5th International Symposium for Japanese Kampo Medicine, Hann. Munden, 2019.

International Conference (Presentations)

- 7200I001 (Tsuzuki K), Miwa T, Ikeda K, Ishibashi T, Kobayashi M, Kondo K, Ogawa T, Matsuwaki Y, Suzuki M, Furuta A, Shiga H, Motoo Y, Fujieda S, Kurono Y: Establishment of the new clinical practice guidelines for the management of olfactory dysfunction in Japan, Korean Rhinologic Society Annual Congress 2019, Seoul, 2019.
- 7200I002 Takeo Shimasaki: Analysis of intracellular dynamics of exosomes and changes of surface markers, ANNUAL MEETING ISEV 2019, Kyoto, 2019.
- 7200I003 Motoo Y, Yukawa K, Hisamura K, Arai I: Usability of the evidence-based Japanese Integrative Medicine (eJIM) information site: interviews and internet surveys on physicians, 2019 International Congress on Complementary Medicine Research, Brisbane, 2019.

7310 Division of Innovative Research

Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Professor(Additional Post)	NISHIJO Muneko	Environmental epidemiology, Environmental health sciences, Epidemiology of cadmium pollution

Keywords of Research

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

Outline of Research

1. Epidemiology of health effects of environmental cadmium exposure, and dioxins., Toxicology of environmental pollutants.
2. Cellular and molecular mechanisms in angiogenesis

Books

- 7310A001 Muneko Nishijo, Hideaki Nakagawa: Chapter5 Effects of Cadmium Exposure on Life Prognosis, Cadmium Toxicity:New Aspects in Human Disease, Rice Contamination, and Cytotoxicity (Seiichiro Himeno, Keiko Aoshima), 63-73, Springer, Singapore, 2019.

Publications

Originals

- 7310B001 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 7310B002 (GiangThi Thuy Nghiem), Muneko Nishijo, Thao Ngoc Pham, Mika Ito, Tai The Pham, Anh Hai Tran, Hiroshi Nishimaru, Yoshikazu Nishino, Hisao Nishijo: Adverse effects of maternal dioxin exposure on fetal brain development before birth assessed by neonatal electroencephalography (EEG) leading to poor neurodevelopment; a 2-year follow-up study, *The Science of the total environment*, 667: 718-729, 2019.
- 7310B003 (Soisungwan Satarug), David A. Vesey, Muneko Nishijo, Werawan Ruangyuttikarn, Glenda C. Gobe: The inverse association of glomerular function and urinary β 2-MG excretion and its implications for cadmium health risk assessment, *Environmental research*, 173: 40-47, 2019.
- 7310B004 Ngoc Thao Pham, Muneko Nishijo, The Tai Pham, Ngoc Nghi Tran, Van Quan Le, Hai Anh Tran, Huy Anh Vu Phan, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese children in the most contaminated area from Agent Orange in Vietnam, *The Science of the total environment*, 678: 217-226, 2019.
- 7310B005 (Soisungwan Satarug), David A.Vesey, Werawan Ruangyuttikarn, Muneko Nishijo, Glenda C.Gobe, Kenneth R.Phelps: The Source and Pathophysiologic Significance of Excreted Cadmium, *Toxics*, 7: 4; 55, 2019.

Presentations at Conference

International Conference (Presentations)

- 7310I001 (Quyet Do Ba), Tai Pham The, Muneko Nishijo: Overview of dioxin remediation projects from post-war to present in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 7310I002 Hoa Vu Thi, Muneko Nishijo, Thao Pham Ngoc, Tai Pham The, Luong Hoang Van, Anh Tran Hai, Nghi Tran Ngoc, Yoshikazu Nishino, Hisao Nishijo, Quyet Do Ba: Effects of perinatal dioxin exposure on mirror neuron activity in 8-year-old children living in a hot spot of dioxin contamination in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 7310I003 Muneko Nishijo, Tai Pham The, Nghi Tran Ngoc, Thao Pham Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Vu Phan HA, Phuong Phan T, Yoshikazu Nishino, Quyet Do Ba, Teruhiko Kido, Hisao Nishijo: Dioxin levels in breast milk in herbicide sprayed and unsprayed areas in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 7310I004 (Tai Pham The), Muneko Nishijo, Thao Pham Ngoc, Hoa Vu Thi, Nghi Tran Ngoc, Anh Tran Hai, Luong Hoang Van, Quyet Do Ba, Yoshikazu Nishino, Hisao Nishijo: Effects of prenatal dioxin exposure on children behaviors at 8 years of age, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 7310I005 Thao Ngoc Pham, Muneko Nishijo, Giang Thi Thuy Nghiem, Nghi Ngoc Tran, Tai The Pham, Hoa Thi Vu, Anh Hai Tran, Vu Huy Anh Phan, Yoshikazu Nishino, Hisao Nishijo: Effects of perinatal dioxin exposure on fetal brain development assessed by neonatal electroencephalography (EEG) in the most contaminated area from Agent Orange in Vietnam, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.
- 7310I006 (Hisao Nishijo), Muneko Nishijo, Tai Pham The, Thao Pham Ngoc, Nghi Tran Ngoc, Hoa Vu Thi, Anh Tran Hai, Luong Hoang Van, Phuong Phan H, Yoshikazu Nishino, Quyet Do Ba: Prevention and intervention of dioxin related diseases in hot spots of dioxin contamination in Vietnam –A trial of nutritional intervention in Da Nang–, The 39th International Symposium on Halogenated persistent Organic Pollutants Dioxin 2019 Kyoto, Kyoto, 2019.

7320 Division of Vision Research for Environmental Health

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	SASAKI Hiroshi	cataract, epidemiology, uveitis
Professor (Additional Post)	KOJIMA Masami	cataract, ophthalmological optics, electromagnetic ocular injury, epidemiology
Associate Professor (Additional Post)	FUKUDA Masamichi	ocular pharmacology, intraocular, penetration
Assistant Professor (Additional Post)	HATSUSAKA Natsuko	ophthalmological optics

Keywords of Research

electromagnetic waves, ultraviolet rays, radioactive rays, cataract, pterygium, pinguecula.

Outline of Research

This research division studies environmental effects on incidence of ocular diseases. In quantitative studies of radio frequency (RF) electromagnetic spectrum effects on eyes, ocular effects from exposure to wavelengths encountered in daily life are examined by experimentation on rabbit eyes. Research on ocular exposure to ultraviolet (UV) wavelengths utilizes a human like mannequin equipped with UV sensors, and evaluates the efficacy of sunglasses, eye glasses and other accessories in offering eye protection against harmful exposure.

Our longitudinal epidemiological studies on eyes in Japan (Ishikawa) and Iceland, epidemiological surveys on blindness and UV-related eye disease in Tanzania, and ocular epidemiological studies in domestic and international regions with different climate conditions were conducted to investigate and analyze associations among ocular UV exposure and cataract, pterygium, and pinguecula. In our epidemiological study on UV-related ocular diseases targeting Japanese and Taiwanese children, the effects of ocular UV exposure in childhood are examined.

In 2013, a longitudinal study on radiation exposure dose and incidence of lens opacity in emergency workers of TEPCO Fukushima Daiichi Nuclear Power Plant was commenced and is envisaged to include approximately 20,000 subjects.

Publications

Originals

- 7320B001 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 7320B002 Miyashita H, Hatsusaka N, Shibuya E, Mita N, Ymazaki M, Shibata T, Ishida H, Ukai Y, Kubo E, Sasaki H: Association between ultraviolet radiation exposure dose and cataract in Han people living in China and Taiwan: A cross-sectional study, *PLoS One*, 14: 4; e0215338, 2019.
- 7320B003 Masami Kojima, Cheng-Yu Tsai, Yukihiisa Suzuki, Kensuke Sasaki, Takafumi Tasaki, Masao Taki, Soichi Watanabe, Hiroshi Sasaki: Ocular Response to Millimeter Wave Exposure Under Different Levels of Humidity, *Journal of Infrared, Millimeter, and Terahertz Waves*, 40: 5; 574-584, 2019.
- 7320B004 (Nagai N), Mano Y, Otake H, Shibata T, Kubo E, Sasaki H: Changes in mitochondrial cytochrome c oxidase mRNA levels with cataract severity in lens epithelia of Japanese Patients, *Molecular medicine reports*, 19: 5464-5472, 2019.
- 7320B005 Takafumi Tasaki, Masami Kojima, Yukihiisa Suzuki, Yoshinori Tatematsu, Hiroshi Sasaki: Creating a Stable Short-term Housing Environment for Rabbits in a Cargo Van, *Journal of American Association for Laboratory Animal Science*, 58: 4; 456-461, 2019.

- 7320B006 (Kamiya T), Kodera S, Hasegawa K, Egawa R, Sasaki H, Hirata A: Different thermoregulatory responses of people from tropical and temperate zones: A computational study, *Building and Environment*, 159: 106152, 2019.
- 7320B007 Tanimura N, Hatsusaka N, Miyashita H, Shibata T, Ishida H, Kunisho A, Kubo E, Sasaki H: Visual Function and Functional Decline in Patients With Waterclefts, *Investigative ophthalmology & visual science*, 60: 3652–3658, 2019.
- 7320B008 (Asano H), Hiraoka T, Seki Y, Shibata T, Osada H, Saruta T, Hatsusaka N, Fujikake F, Tabata Y, Mhina C, Sanyiwa A, Oshika T, Sasaki H: Distribution of corneal spherical aberration in a Tanzanian population, *PLoS ONE*, 14: 9; e0222297, 2019.

Presentations at Conference

International Conference (Symposium)

- 7320H001 (Suzuki Y), Kojima M, Okuno T, Takamura M, Hada A, Tasaki T, Tatematsu Y, Fukunari M, Mizuno M, Tani M, Sasaki H: Development and dosimetry of the 162GHz in vivo exposure system with the gyrotron for the investigation of ocular damages, *The 7th International Workshop on Far-Infrared Technologies*, Fukui, 2019.
- 7320H002 Kojima M, Suzuki Y, Tasaki T, Tatematsu Y, Fukunari M, Tani M, Sasaki H: Ocular damage threshold to millimeter wave (162 GHz) exposure, *The 7th International Workshop on Far-Infrared Technologies*, Fukui, 2019.03.
- 7320H003 M.Kojima, Y.Suzuki, T.Tasaki, Y.Tatematsu, M.Fukunari, M.tani, H.Sasaki: Ocular damage threshold to millimeter wave (162 GHz) exposure, *IWFIRT2019*, Fukui, 2019.
- 7320H004 (Masahiko Tani), Yoshinori Tatematsu, Maya Mizuno, Yukihisa Suzuki, Masami Kojima, Takafumi Tasaki, Hideaki Kitahara, Masafumi Fukunari: Investigation on Influence of Terahertz Wave Irradiation to Living Organisms by Using THz Gyrotron and THz Time-Domain Spectroscopy, *EMC Sapporo & APEMC 2019*, Sapporo, 2019.

International Conference (Presentations)

- 7320I001 Hiroshi Sasaki, Eri Shibuya, Norihiro Mita, Hisanori Miyashita, Naoki Tanimura, Teppei Shibata, Hidetoshi Ishida, Atsushi Arimoto, Kenta Hagihara, Eri Kubo: Ten-year history of eyes with Rods –Monzen Eye Study–, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I002 Hiroki Asano, Takahiro Hiraoka, Yusuke Seki, Teppei Shibata, Hiromi Osada, Takanori Saruta, Natsuko Hatsusaka, Fukumi Fujikake, Yoshiaki Tabata, Cellina Mhina, Anna Sanyiwa, Tetsuro Osika, Hiroshi Sasaki: Distribution of corneal spherical aberration in a Tanzania Population, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I003 Eri Kubo, Hidetoshi Ishida, Shinsuke Shibata, Teppei Shibata, Yuka Nakamura, Yasuhito Ishigaki, Dharendra P. Singh, Hiroshi Sasaki: Gene expression profiling of lens epithelial cells in Shumiya cataract rats, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I004 Natsuko Hatsusaka, Shinsuke Shibata, Naoko Shibata, Hisanori Miyashita, Naoki Tanimura, Hidetoshi Ishida, Eri Kubo, Hiroshi Sasaki: Correlation Between Prevalence of Pterygia and Ocular Refraction, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I005 Hidetoshi Ishida, Teppei Shibata, Shinsuke Shibata, Hiroshi Sasaki, Eri Kubo: Cataract-inhibitory effects of water chestnut (*Trapabispinosa Roxb*) and lutein in Shumiya cataract rats, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I006 Teppei Shibata, Shinsuke Shibata, Dharendra P. Singh, Etsuko Kiyokawa, Masahito Ikawa, Hiroshi Sasaki, Eri Kubo: Age-related changer of the lens in Tropomyosin 1 conditional knockout mice, *The Association for Research in Vision and Ophthalmology*, Vancouver, 2019.
- 7320I007 (M.Tani), Y.Tatematsu, H.Kitahara, M.Fukunari, M.Mizuno, Y.Suzuki, M.Kojima, T.Tasaki: Terahertz Wave Sources and Their Applications – With Some Topics on Influence of THz Wave Irradiation to Living Organisms–, *EMC Sapporo&APEMC2019*, Sapporo, 2019.

- 7320I008 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Toshinori Tatematsu, Masafumi Fukunari, Maya Misuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Investigation of the thresholds for ocular damage caused by MMW exposure from 30 GHz to 160 GHz by experimental and numerical approach, URSI-JRSM 2019, Tokyo, 2019.
- 7320I009 Eri Kubo, Teppei Shibata, Shinsuke Shibata, Dharendra P Singh, Etsuko Kiyokawa, Yasuhito Ishigaki, Masahito Ikawa, Hiroshi Sasaki: Effect of tropomyosin 1 knockout in lens development and fiber differentiation, The 6th International Conference on the Lens, Kailua Kona, 2019.
- 7320I010 Hidetoshi Ishida, Teppei Shibata, Shinsuke Shibata, Hiroshi Sasaki, Eri Kubo: Cataract-inhibitory effects of water chestnut and lutein in Shumiya cataract rats, The 6th International Conference on the Lens, Kailua Kona, 2019.
- 7320I011 Natsuko Hatsusaka, Hisanori Miyashita, Eri Kubo, Hiroko Kitamura, Toshiaki Okubo, Hiroshi Sasaki: Epidemiological study of nuclear emergency workers at Tokyo Electric Power Company Fukushima Nuclear Power Plant: findings from cataract study 3-6 years after the nuclear accident, The 6th International Conference on the Lens, Kailua Kona, 2019.

7340 Division of Anticipatory Molecular Food Science and Technology

Faculty

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

Publications

Originals

- 7340B001 Yang Fan, Takagaki Yuta, Yoshitomi Yasuo, Ikeda Takayuki, Li Jinpeng, Kitada Munehiro, Kumagai Asako, Kawakita Emi, Shi Sen, Kanasaki Keizo, Koya Daisuke: Inhibition of Dipeptidyl Peptidase-4 Accelerates Epithelial-Mesenchymal Transition and Breast Cancer Metastasis via the CXCL12/CXCR4/mTOR Axis, *Cancer research*, 79: 4; 735-746, 2019.
- 7340B002 Kitada Munehiro, Ogura Yoshio, Nitta Kyoko, Fujii Mizue, Kanasaki Keizo, Konishi Kazunori, Iida Yasuo, Nakagawa Atsushi, Koya Daisuke: Effect of switching to teneligliptin from other dipeptidyl peptidase-4 inhibitors on glucose control and renoprotection in type 2 diabetes patients with diabetic kidney disease, *Journal of diabetes investigation*, 10: 3; 706-713, 2019.
- 7340B003 Takagaki Yuta, Shi Sen, Katoh Makoto, Kitada Munehiro, Kanasaki Keizo, Koya Daisuke: Dipeptidyl peptidase-4 plays a pathogenic role in BSA-induced kidney injury in diabetic mice, *Scientific reports*, 9: 7519, 2019.
- 7340B004 Gao Rongfen, Kanasaki Keizo, Li Jinpeng, Kitada Munehiro, Okazaki Toshiro, Koya Daisuke: β klotho is essential for the anti-endothelial mesenchymal transition effects of N-acetyl-seryl-aspartyl-lysyl-proline, *FEBS open bio*, 9: 5; 1029-1038, 2019.
- 7340B005 (Kume Shinji), Araki Shin-ichi, Ugi Satoshi, Morino Katsutaro, Koya Daisuke, Nishio Yoshihiko, Haneda Masakazu, Kashiwagi Atsunori, Maegawa Hiroshi: Secular changes in clinical manifestations of kidney disease among Japanese adults with type 2 diabetes from 1996 to 2014, *Journal of Diabetes Investigation*, 10: 4; 1032-1040, 2019.
- 7340B006 Nitta Kyoko, Nagai Takako, Mizunuma Yuiko, Kitada Munehiro, Nakagawa Atsushi, Sakurai Masaru, Toyoda Masao, Haneda Masakazu, Kanasaki Keizo, Koya Daisuke: N-Acetyl-seryl-aspartyl-lysyl-proline is a potential biomarker of renal function in normoalbuminuric diabetic patients with $eGFR \geq 30$ ml/min/1.73 m², *Clinical and Experimental Nephrology*, 23: 8; 1004-1012, 2019.
- 7340B007 (Zhou Fang L), Watada Hiroataka, Tajima Yuki, Berthelot Mathilde, Kang Dian, Esnault Cyril, Shuto Yujin, Maegawa Hiroshi, Koya Daisuke: Identification of subgroups of patients with type 2 diabetes with differences in renal function preservation, comparing patients receiving sodium-glucose co-transporter-2 inhibitors with those receiving dipeptidyl peptidase-4 inhibitors, using a supervised machine-learning algorithm (PROFILE study): A retrospective analysis of a Japanese commercial medical database, *Diabetes, obesity & metabolism*, 21: 8; 1925-1934, 2019.

Reviews

- 7340C001 Kitada Munehiro, Ogura Yoshio, Monno Itaru, Koya Daisuke: Sirtuins and Type 2 Diabetes: Role in Inflammation, Oxidative Stress, and Mitochondrial Function, *Frontiers in Endocrinology*, 10: 187, 2019.
- 7340C002 Kanasaki Keizo, Kawakita Emi, Koya Daisuke: Relevance of Autophagy Induction by Gastrointestinal Hormones: Focus on the Incretin-Based Drug Target and Glucagon, *Frontiers in pharmacology*, 10: 476, 2019.
- 7340C003 Kitada Munehiro, Ogura Yoshio, Monno Itaru, Koya Daisuke: The impact of dietary protein intake on longevity and metabolic health, *EBioMedicine*, 43: 632-640, 2019.

Others

- 7340F001 Daisuke Koya: Diabetic kidney disease: Its current trends and future therapeutic perspectives, JOURNAL OF DIABETES INVESTIGATION, 10: 5; 1174-1176, 2019.

Presentations at Conference

International Conference (Symposium)

- 7340H001 Daisuke Koya: AOCO Symposium7 SIRT3 activity in the pathogenesis in metabolic kidney injury, 2019 International Congress on Obesity and Metabolic Syndrome & Asia-Oceania Conference on Obesity, Seoul, 2019.

International Conference (Presentations)

- 7340I001 Emi Kawakita, Fan Yang, Asako Kumagai, Keizo Kanasaki, Daisuke Koya: Metformin suppressed DPP-4 inhibitor-induced breast cancer EMT and lung metastasis via suppression of mTOR signalling, 55th Annual Meeting of the European Association for the Study of Diabetes, Barcelona, 2019.
- 7340I002 Yuiko Mizunuma, Keizo Kanasaki, Yuta Takagagi, Kyoko Nitta, Susumu Takagi, Haijie Liu, Shaolan Li, Jinpeng Li, Yoshimasa Aso, Daisuke Koya: Backcross db gene into CD-1 background results in novel type 2 diabetic mouse model with progressive kidney fibrosis, 55th Annual Meeting of the European Association for the Study of Diabetes, Barcelona, 2019.

7350 Division of Systems Bioscience for Drug Discovery Based on Intrinsically Disordered Proteins

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	TOMOSUGI Naohisa	Clinical Proteomics
Associate Professor (Additional Post)	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics

Publications

Originals

- 7350B001 Wu Jing, Otsuka T, Nakamura M, Sakurai N, Takano H, Hayashi T, Ota M, Nomura T, Hayashi R, Shimasaki T, Tahara T, Shibata T, Arisawa T: Association of genetic polymorphisms in DNMT3A with the progression of gastric mucosal atrophy and susceptibility to gastric cancer in Japan, *ONCOLOGY LETTERS*, 17: 3482-3488, 2019.
- 7350B002 Qingfeng Ma, Takanori Tatsuno, Yuka Nakamura, Shin-Ichi Izumi, Naohisa Tomosugi, Yasuhito Ishigaki: Immuno-detection of mRNA-binding protein complex in human cells under transmission electron microscopy, *MICROSCOPY RESEARCH AND TECHNIQUE*, 82: 6; 680-688, 2019.
- 7350B003 (Zentaro Kiuchi), Yukino Nishibori, Satoru Kutsuna, Masashi Kotani, Ichiro Hada, Toru Kimura, Toshiyuki Fukutomi, Daisuke Fukuhara, Noriko Ito-Nitta, Akihiko Kudo, Takanobu Takata, Yasuhito Ishigaki, Naohisa Tomosugi, Hirotoishi Tanaka, Satsuki Matsushima, Shinya Ogasawara, Yoshiaki Hirayama, Hiromu Takematsu, Kunimasa Yan: GLCC11 is a novel protector against glucocorticoid-induced apoptosis in T cells, *FASEB JOURNAL*, 33: 6; 7387-7402, 2019.

Presentations at Conference

International Conference (Presentations)

- 7350I001 Takeo Shimasaki: Analysis of intracellular dynamics of exosomes and changes of surface markers, *ANNUAL MEETING ISEV 2019*, Kyoto, 2019.

7360 Division of Gynecology and Obstetrics Research for Microbiology and Cancer immunology

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	SASAGAWA Toshiyuki	Gynecologic Pathology, Tumor Virology, Sexually Transmitted Infection Research, Immunology

Publications

Originals

- 7360B001 Takagi H, Sakamoto J, Sasagawa T: Long-term treatment of endometriosis with dienogest for up to five years, *Clinical and Experimental Obstetrics & Gynecology*, 46: 3; 398-402, 2019.

Reviews

- 7360C001 Takeo Shibata, Benjamin J Lieblong, Toshiyuki Sasagawa, Mayumi Nakagawa: The promise of combining cancer vaccine and checkpoint blockade for treating HPV-related cancer, *Cancer Treatment Reviews*, 78: 8-16, 2019.

Case Reports

- 7360D001 Nozomu Kurose, Seiya Mizuguchi, Yoshiiku Ohkanemasa, Manabu Yamashita, Mariko Nakano, Xin Guo, Akane Aikawa, Satoko Nakada, Toshiyuki Sasagawa, Sohsuke Yamada: Adenosquamous carcinoma of the uterine cervix displaying tumor-associated tissue eosinophilia, *SAGE Open Medical Case Reports*, 7: 2050313X19828235, 2019.

7400 Research Support Center

Faculty

Title	Name	Field of Specialization
Professor (Additional Post)	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Professor	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Associate Professor	OHTSUKA Satoshi	Stem Cell Biology
Associate Professor (Additional Post)	MURAKAMI Manabu	Pathogenicity of flavivirus isolated from the field-collected mosquitoes
Assistant Professor (Additional Post)	SAKASAI Ryo	DNA damage response induced by anti-cancer drugs

Books

- 7400A001 Muneko Nishijo, Hideaki Nakagawa: Chapter5 Effects of Cadmium Exposure on Life Prognosis, Cadmium Toxicity:New Aspects in Human Disease, Rice Contamination, and Cytotoxicity (Seiichiro Himeno, Keiko Aoshima), 63-73, Springer, Singapore, 2019.

Publications

Originals

- 7400B001 (White IR), Kaptoge S, Royston P, Sauerbrei W; Emerging Risk Factors Collaboration (Nakagawa H, Sakurai M et al.): Meta-analysis of non-linear exposure-outcome relationships using individual participant data: A comparison of two methods, *Statistics in Medicine*, 38: 3; 326-338, 2019.
- 7400B002 Yoshitomi Y, Osada H, Satake H, Kojima M, Saito-Takatsuji H, Ikeda T, Yoshitake Y, Ishigaki Y, Kubo E, Sasaki H, Yonekura H: Ultraviolet B-induced Otx2 expression in lens epithelial cells promotes epithelial-mesenchymal transition, *Biology Open*, 8: 2; bio035691, 2019.
- 7400B003 Qingfeng Ma, Takanori Tatsuno, Yuka Nakamura, Yasuhito Ishigaki: The stability of Magoh and Y14 depends on their heterodimer formation and nuclear localization, *Biochemical and Biophysical Research Communications*, 511: 631-636, 2019.
- 7400B004 Yusuke Nakazawa, Shinya Inoue, Yuka Nakamura, Yasuo Iida, Yasuhito Ishigaki, Katsuhito Miyazawa: High-salt diet promotes crystal deposition through hypertension in Dahl salt-sensitive rat model, *International journal of urology*, 26: 839-846, 2019.
- 7400B005 Qingfeng Ma, Takanori Tatsuno, Yuka Nakamura, Shin-Ichi Izumi, Naohisa Tomosugi, Yasuhito Ishigaki: Immuno-detection of mRNA-binding protein complex in human cells under transmission electron microscopy, *MICROSCOPY RESEARCH AND TECHNIQUE*, 82: 6; 680-688, 2019.
- 7400B006 (Zentaro Kiuchi), Yukino Nishibori, Satoru Kutsuna, Masashi Kotani, Ichiro Hada, Toru Kimura, Toshiyuki Fukutomi, Daisuke Fukuhara, Noriko Ito-Nitta, Akihiko Kudo, Takanobu Takata, Yasuhito Ishigaki, Naohisa Tomosugi, Hirotohi Tanaka, Satsuki Matsushima, Shinya Ogasawara, Yoshiaki Hirayama, Hiromu Takematsu, Kunimasa Yan: GLCCI1 is a novel protector against glucocorticoid-induced apoptosis in T cells, *FASEB JOURNAL*, 33: 6; 7387-7402, 2019.
- 7400B007 (Kime Cody), Kiyonari Hiroshi, Ohtsuka Satoshi, Kohbayashi Eiko, Asahi Michio, Yamanaka Shinya, Takahashi Masayo, Tomoda Kiichiro: Induced 2C Expression and Implantation-Competent Blastocyst-like Cysts from Primed Pluripotent Stem Cells, *Stem Cell Reports*, 13: 3; 485-498, 2019.

Presentations at Conference

International Conference (Presentations)

- 7400I001 Eri Kubo, Hidetoshi Ishida, Shinsuke Shibata, Teppei Shibata, Yuka Nakamura, Yasuhito Ishigaki, Dharendra P. Singh, Hiroshi Sasaki: Gene expression profiling of lens epithelial cells in Shumiya cataract rats, The Association for Research in Vision and Ophthalmology, Vancouver, 2019.
- 7400I002 Eri Kubo, Teppei Shibata, Shinsuke Shibata, Dharendra P Singh, Etsuko Kiyokawa, Yasuhito Ishigaki, Masahito Ikawa, Hiroshi Sasaki: Effect of tropomyosin 1 knockout in lens development and fiber differentiation, The 6th International Conference on the Lens, Kailua Kona, 2019.

Himi Municipal Hospital

9100 Himi Municipal Hospital

Faculty

Title	Name	Field of Specialization
Director	TOGA Hirohisa	Respiratory Medicine
Professor	FUKUDA Akihiro	Cardiology
Professor	SAITO Atsushi	Nephrology
Professor	IGUCHI Masaharu	Respiratory Medicine
Professor	TOMIOKA Ryo	Neurology
Professor	KASAMAKI Yuji	General Medicine
Professor	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Professor	KINAMI Shinichi	Surgical treatment of gastric cancer
Professor	YOKOYAMA Mitsuteru	Orthopaedic surgery and hand surgery
Professor	MORIYAMA Manabu	Kidney transplantation, Urolithiasis
Professor	HATASHIMA Sunao	Anesthesiology/Resuscitation studies
Professor	SAKATA Noriaki	Stomach cancer
Associate Professor	KIYOSAWA Jun	Cardiology
Associate Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Associate Professor	NAKAGAWA Ken	Respiratory Medicine
Associate Professor	MISUHASHI Yoshikazu	Radiology
Associate Professor	HATANO Eiju	Spinal surgery
Associate Professor	MATSUI Toshiaki	Oral & Maxillofacial Surgery
Associate Professor	MASHIBA Satoru	Emergency, Anaphylaxis
Senior Assistant Professor	FUJIKI Takuma	Pediatric Nephrology
Senior Assistant Professor	KOBATA Takashi	Cardiovascular Surgery
Senior Assistant Professor	OHURA Kazuko	Otorhinolaryngology
Assistant Professor	TAKAGI Susumu	Diabetes
Assistant Professor	ISHIGAMI Keiichiro	Gerontology
Assistant Professor	SANGEN Ryusho	General Medicine
Assistant Professor	USUDA Daisuke	General Medicine
Assistant Professor	MACHIDA Yuichiro	Respiratory surgery
Assistant Professor	KUSABA Eizo	neurosurgery

Books

- 9100A001 Shinichi Kinami, Takeo Kosaka: Methodology: Dye and Isotope Method, Lymph Node Metastasis in Gastrointestinal Cancer (Shoji Natsugoe), 305-321, Springer, Singapore, 2019.

Publications

Originals

- 9100B001 Hidekazu Kitakata, Tohru Itoh, Shinichi Kinami, Ken Kawaura, Kazu Hamada, Sadafumi Azukisawa, Rika Kobayashi, Jumji Kamai, Takeo Kosaka: Sealed endoscopy full-thickness resection for gastric cancer: a pilot study in an ex vivo and in vivo porcine model, *Endoscopy International Open*, 07: E36-E42, 2019.
- 9100B002 (Kenichi Hashimoto), Yuji Kasamaki, Masayoshi Soma, Bonpei Takase: Diurnal variation of frequency domain T-wave alternans on 24-hour ambulatory electrocardiogram in subjects without heart disease: Significant effect of autonomic nervous activity of the heart, *Annals of Noninvasive Electrocardiology*, 24: 3; e12620, 2019.
- 9100B003 Naohiko Nakamura, Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Yasuo Iida, Takeo Kosaka: The neutrophil/lymphocyte ratio as a predictor of peritoneal metastasis during staging laparoscopy for advanced gastric cancer: a retrospective cohort analysis, *World Journal of Surgical Oncology*, 17: 108, 2019.
- 9100B004 Higashikawa Toshihiro, Shigemoto Kenji, Goshima Kenichi, Usuda Daisuke, Okuro Masashi, Moriyama Manabu, Inujima Hiromi, Hangyou Masahiro, Usuda Kimiko, Morimoto Shigeto, Matsumoto Tadami, Takashima Shigeki, Kanda Tsugiyasu, Sawaguchi Takeshi: Urinary retention as a postoperative complication associated with functional decline in elderly female patients with femoral neck and trochanteric fractures A retrospective study of a patient cohort, *MEDICINE*, 98: 24; e16023, 2019.

Reviews

- 9100C001 Shinichi Kinami, Naohiko Nakamura, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Takeo Kosaka: Precision surgical approach with lymph-node dissection in early gastric cancer, *World Journal of Gastroenterology*, 25: 14; 1640-1652, 2019.
- 9100C002 Hiroyuki Takamura, Takashi Miyata, Hisashi Nishiki, Akifumi Hashimoto, Ryosuke Kin, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Naohiko Nakamura, Hideto Fujita, Shinichi Kinami, Nobuhiko Ueda, Takeo Kosaka: Venous occlusive Disease after Liver Transplantation: Mechanism and Pre-emptive Therapy, *Journal of Kanazawa Medical University*, 44: 3; 99-107, 2019.
- 9100C003 Shinichi Kinami, Naohiko Nakamura, Jun Fujita, Daisuke Kaida, Hideto Fujita, Hiroyuki Takamura, Nobuhiko Ueda, Takeo Kosaka: Rationalization of lymph node dissection for gastric cancer, *Japanese Journal of Lymphology*, 42: 2; 83-88, 2019.

Case Reports

- 9100D001 Naohiko Nakamura, Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Yasuto Tomita, Takashi Miyata, Hideto Fujita, Nobuhiko Ueda, Takeo Kosaka: A remarkable clinical response in advanced gastric cancer treated with trastuzumab plus capecitabine combination chemotherapy: A report of two cases, *Clinical Case Reports*, 7: 714-718, 2019.
- 9100D002 Naohiko Nakamura, Hideto Fujita, Hisashi Nishiki, Yasuto Tomita, Takashi Miyata, Shinichi Kinami, Nobuhiko Ueda, Takeo Kosaka: A Case of a Non-specific Small Intestinal Ulcer Treated with Single-incision Laparoscopic Surgery after intestinal Endoscopic Marking, *Journal of Japanese College of Surgeons*, 44: 5; 911-915, 2019.

Others

- 9100F001 Shinichi Kinami: Pre-operative chemotherapy is the key to the next stage of gastric cancer treatment, *Digestive Medicine Research*, 2: 34, 2019.

Presentations at Conference

International Conference (Presentations)

- 9100I001 N.Nakamura, S.Kinami, T.Kosaka: Serum CEA level and nutritional parameters predict successful conversion gastrectomy for stage IV gastric cancer, 13th International Gastric Cancer Congress IGCC2019, Prague, 2019.
- 9100I002 Yuiko Mizunuma, Keizo Kanasaki, Yuta Takagi, Kyoko Nitta, Susumu Takagi, Haijie Liu, Shaolan Li, Jinpeng Li, Yoshimasa Aso, Daisuke Koya: Backcross db gene into CD-1 background results in novel type 2 diabetic mouse model with progressive kidney fibrosis, 55th Annual Meeting of the European Association for the Study of Diabetes, Barcelona, 2019.