

Kanazawa Medical University
Research Activities and Publications

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Kanazawa Medical University

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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 Hiromi Sakata-Haga, Maimi Uchishiba, Hiroki Shimada, Tsuyoshi Tsukada, Mayumi Mitani, Tomohiro Arikawa, Hiroki Shoji, Toshihisa Hatta: A rapid and nondestructive protocol for whole-mount bone staining of small fish and *Xenopus*, SCIENTIFIC REPORTS, 8: 7453, 2018.
- 0100B002 (Yoshihara T), Satake H, Nishie T, Okino N, Hatta T, Otani H, Naruse C, Suzuki H, Sugihara K, Kamimura E, Tokuda N, Furukawa K, Furukawa K, Ito M, Asano M: Lactosylceramide synthases encoded by B4galt5 and 6 genes are pivotal for neuronal generation and myelin formation in mice, PLOS Genetics, 14: e1007574, 2018.
- 0100B003 Bold J, Sakata-Haga H, Fukui Y: Spinal nerve defects in mouse embryos prenatally exposed to valproic acid, Anatomical science international, 93:35-41

Presentations at Conference

International Conference (Presentations)

- 01001001 T Tsukada, H Sakagami, H Shimada, S Takata, H Sakata-Haga, H Iizuka, H Shoji, T Hatta: Leukemia inhibitory factor signaling and STAT3 phosphorylation at Ser727 in fetal mouse brain development, Neuroscience 2018, San Diego, 2018.
- 01001002 H Sakagami, T Tsukada, H Sakata-Haga, H Shimada, K Miura, H Wang, T Arikawa, S Takata, H Shoji, H Hatta: Administration of maternal leukemia inhibitory factor induces Nkx.2.1 in the ventral cerebrum of fetal mice, Neuroscience 2018, San Diego, 2018.

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

Publications

Originals

- 0110B001 (Takahide Itokazu), Masashi Hasegawa, Rui Kimura, Hironobu Osaki, Urban-Raphael Albrecht, Kazuhiro Sohya, Shubhodeep Chakrabarti, Hideaki Itoh, Tetsufumi Ito, Tatsuo K Sato, Takashi R Sato: Streamlined sensory motor communication through cortical reciprocal connectivity in a visually guided eye movement task, *NATURE COMMUNICATIONS*, 9: 338, 2018.
- 0110B002 (Chenggang Chen), Mingxiu Cheng, Tetsufumi Ito, Sen Song: Neuronal Organization in the Inferior Colliculus Revisited with Cell-Type-Dependent Monosynaptic Tracing, *The Journal of Neuroscience*, 38: 13; 3318-3332, 2018.
- 0110B003 Takashi Tanaka, Shoko Shimizu, Masaki Ueno, Yoshitaka Fujihara, Masahito Ikawa, Shingo Miyata: MARCKSL1 Regulates Spine Formation in the Amygdala and Controls the Hypothalamic-Pituitary-Adrenal Axis and Anxiety-Like Behaviors, *EBioMedicine*, 30: 62-73, 2018.
- 0110B004 (Wakoto Matsuda), Takahiro Sonomura, Satoru Honma, Sachi Ohno, Tetsuya Goto, Shuichi Hirai, Masahiro Itoh, Yoshiko Honda, Hiroki Fujieda, Jun Udagawa, Shuichi Ueda: Anatomical variations of the recurrent artery of Heubner: number, origin, and course, *ANATOMICAL SCIENCE INTERNATIONAL*, 93: 3; 317-322, 2018.
- 0110B005 Tetsufumi Ito, Takafumi Furuyama, Kazuma Hase, Kohta I Kobayasi, Shizuko Hiryu, Hiroshi Riquimaroux: Organization of subcortical auditory nuclei of Japanese house bat (*Pipistrellus abramus*) identified with cytoarchitecture and molecular expression, *The Journal of comparative neurology*, 526: 2824-2844, 2018.
- 0110B006 Tetsufumi Ito, Takafumi Furuyama, Kazuma Hase, Kohta I Kobayasi, Shizuko Hiryu: Organization of projection from brainstem auditory nuclei to the inferior colliculus of Japanese house bat (*Pipistrellus abramus*), *Brain and behavior*, 8: 8; e01059, 2018.

- 0110B007 Satoru Honma, Takahiro Sonomura: The middle rectal artery arising from the lateral sacral artery, *Anatomical science international*, 93: 4; 559, 2018.
- 0110B008 (Wakoto Matsuda), Takahiro Sonomura, Satoru Honma, Sachi Ohno, Tetsuya Goto, Shuichi Hirai, Masahiro Itoh, Yoshiko Honda, Hiroaki Fujieda, Jun Udagawa, Shingo Takano, Fumino Fujiyama, Shuichi Ueda: Anatomical variations of the torcular Herophili: macroscopic study and clinical aspects, *ANATOMICAL SCIENCE INTERNATIONAL*, 93: 4; 464-468, 2018.

Reviews

- 0110C001 Ono M, Ito T: Inhibitory Neural Circuits in the Mammalian Auditory Midbrain, *J Exp Neurosci*, 12: 1-11, 2018.

Presentations at Conference

International Conference (Presentations)

- 0110I001 Takashi Tanaka: Myristoylated alanine-rich C-kinase substrate like 1 in the central amygdala plays a pivotal role in anxiety disorders, WFSBP2018KOBE, Kobe, 2018.
- 0110I002 T. Ito, R. Yamamoto, T. Furuyama, K. Hase, K.I. Kobayashi, S. Hiryu: Triadic forebrain structures that directly control the auditory midbrain of echolocating bats, 48TH ANNUAL MEETING OF THE SOCIETY FOR NEUROSCIENCE 2018, San Diego, 2018.
- 0110I003 T. Tanaka, S. Miyata: Conservation of retinohypothalamic, hippocampal and amygdalar PACAPergic circuits in mouse and rat, 48TH ANNUAL MEETING OF THE SOCIETY FOR NEUROSCIENCE 2018, San Diego, 2018.

0120 Department of Physiology I

Faculty

Title	Name	Field of Specialization
Professor	KATO Nobuo	Brain Science
Senior Assistant Professor	ONO Munenori	Neuroscience
Senior Assistant Professor	YAMAMOTO Ryo	Neuroscience
Senior Assistant Professor	TAJIMA Nobuyoshi	molecular physiology
Assistant Professor	XU Feng	Neurophysiology
Assistant Professor	MA Lanlan	Neurophysiology

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.

Publications

Originals

0120B001 Munenori Ono, Shinji Muramoto, Lanlan Ma, Nobuo Kato: Optogenetics Identification of a Neuronal Type with a Glass Optrode in Awake Mice, Journal of visualized experiments, 136: e57781, 2018.

Reviews

0120C001 Ono M, Ito T: Inhibitory Neural Circuits in the Mammalian Auditory Midbrain, J Exp Neurosci, 12:1-11, 2018.

Presentations at Conference

International Conference (Presentations)

0120I001 R.Yamamoto, T.Sugai, N.Kato: Serotonergic modulation on the inhibitory synaptic transmission in the lateral amygdala, Society for Neuroscience2018, San Diego, 2018.

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
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 Yang W, Shibamoto T, Kuda Y, Zhang T, Tanida M, Kurata Y: β 2-adrenoceptor blockade deteriorates systemic anaphylaxis by enhancing hyperpermeability in anesthetized mice, *Allergy Asthma & Immunology Research*, 10: 1; 52-61, 2018.
- 0130B002 Li P, Kurata Y, Endang M, Ninomiya H, Higaki K, Tauffiq F, Morikawa K, Shirayoshi Y, Horie M, Hisatome I: Restoration of mutant hERG stability by inhibition of HDAC6, *Journal of Molecular and Cellular Cardiology*, 115: 158-169, 2018.
- 0130B003 Tanno S, Yamamoto K, Kurata Y, Adachi M, Inoue Y, Otani N, Mishima M, Yamamoto Y, Kuwabara M, Ogino K, Miake J, Ninomiya H, Shirayoshi Y, Okada F, Yamamoto K, Hisatome I: Protective effects of topiroxostat on an ischemia-reperfusion model of rat hearts, *Circulation Journal*, 82: 4; 1101-1111, 2018.
- 0130B004 Kuda Y, Shibamoto T, Zhang T, Yang W, Tanida M, Kurata Y: Gastric vascular and motor responses to anaphylactic hypotension in anesthetized rats, in comparison to those with hemorrhagic or vasodilator-induced hypotension, *The Journal of Physiological Sciences*, 68: 3: 253-260, 2018.
- 0130B005 Tanida M, Zhang T, Sun L, Song J, Yang W, Kuda Y, Kurata Y, Shibamoto T: Anaphylactic hypotension causes renal and adrenal sympathoexcitation and induces c-fos in the hypothalamus and medulla oblongata, *Experimental Physiology*, 103: 6; 790-806, 2018.

- 0130B006 Mukai K, Kuda Y, Shibamoto T, Tanida M, Kurata Y, Yokoyama H: Renal response to anaphylaxis in anesthetized rats and isolated perfused rat kidneys: roles of nitric oxide, *The Journal of Physiological Sciences*, 68: 5; 689–697, 2018.
- 0130B007 Yamamoto K, Kurata Y, Inoue Y, Adachi M, Tsuneto M, Miake J, Ogino K, Ninomiya H, Yoshida A, Shirayoshi Y, Suyama Y, Yagi S, Nishimura M, Yamamoto K, Hisatome I: Pretreatment with an angiotensin II receptor blocker abolished ameliorating actions of adipose-derived stem cell sheets on cardiac dysfunction and remodeling after myocardial infarction, *Regenerative Therapy*, 9: 79–88, 2018.
- 0130B008 Yamamoto N, Ishikuro R, Tanida M, Suzuki K, Ikeda-Matsuo Y, Sobue K: Insulin-signaling pathway regulates the degradation of amyloid β -protein via astrocytes, *Neuroscience*, 385: 227–236, 2018.

Presentations at Conference

International Conference (Presentations)

- 0130I001 Kazuharu Furutani, Kunichika Tsumoto, Jon T. Sack, Yoshihisa Kurachi: Facilitation by hERG channel blockers suppresses early afterdepolarization of simulated cardiac action potentials, the Biophysical Society 62nd Annual Meeting (BPS2018), San Francisco, 2018.
- 0130I002 Kunichika Tsumoto, Yasutaka Kurata, Kazuharu Furutani, Yoshihisa Kurachi: Dynamical mechanism of multi-stable early afterdepolarizations in a ventricular myocyte elicited by administration of class III antiarrhythmic agents: in silico study, the 18th World Congress of Basic and Clinical Pharmacology (WCP2018), Kyoto, 2018.
- 0130I003 Kazuharu Furutani, Kunichika Tsumoto, Jon T Sack, Yoshihisa Kurachi: Facilitation of cardiac hERG channels by blockers: a mechanism predicted to reduce proarrhythmic side effects of Class III antiarrhythmic drugs, the 18th World Congress of Basic and Clinical Pharmacology (WCP2018), Kyoto, 2018.
- 0130I004 T. Shibamoto, W. Yang, M. Tanida, Y. Kuda, T. Zhang, Y. Kurata: No release of angiotensin-2 during anaphylaxis-induced vascular leak in anesthetized mice, *The 8th International Congress of Pathophysiology*, 2018.
- 0130I005 T. Shibamoto, W. Yang, M. Tanida, Y. Kuda, T. Zhang, Y. Kurata: Angiotensin-2 is not released during anaphylaxis-induced vascular leak in anesthetized mice and rats, *Food Allergy and Anaphylaxis Meeting (FAAM) 2018*, Copenhagen, 2018.
- 0130I006 Kazuharu Furutani, Kunichika Tsumoto, Jon T. Sack, Yoshihisa Kurachi: hERG Facilitation is a Proposed Drug Mechanism to Improve the Safety of the Patients Taking hERG Blockers, *American Heart Association, Scientific Sessions 2018*, Chicago, 2018.

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
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 Yumi Sunatani, Radhika Pankaj Kamdar, Mukesh Kumar Sharma, Tadashi Matsui, Ryo Sakasai, Mitsumasa Hashimoto, Yasuhito Ishigaki, Yoshihisa Matsumoto, Kuniyoshi Iwabuchi: Caspase-mediated cleavage of X-ray repair cross-complementing group 4 promotes apoptosis by enhancing nuclear translocation of caspase-activated DNase, *Experimental cell research*, 362: 2; 450-460, 2018.
- 0140B002 (Okamoto Y), Iwasaki WM, Kugou K, Takahashi KK, Oda A, Sato K, Kobayashi W, Kawai H, Sakasai R, Takaori-Kondo A, Yamamoto T, Kanemaki MT, Taoka M, Isobe T, Kurumizaka H, Innan H, Ohta K, Ishiai M, Takata M: Replication stress induces accumulation of FANCD2 at central region of large fragile genes, *Nucleic acids research*, 46: 2932, 2018.

Presentations at Conference

International Conference (Presentations)

- 0140I001 Ryo Sakasai, Yumi Sunatani, Tadashi Matsui, Kuniyoshi Iwabuchi: Repair pathways for one-ended DNA double-strand breaks caused by camptothecin, Gordon Research Conference, Hong Kong, 2018.

0150 Department of Biochemistry II

Faculty

Title	Name	Field of Specialization
Professor	YONEKURA Hideto	Molecular mechanisms of angiogenesis, Alternative mRNA processing
Senior Assistant Professor	IKEDA Takayuki	Molecular mechanisms of angiogenesis, Alternative mRNA processing
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
-

0160 Department of Pharmacology

Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Kinetics of NO(nitric oxide)-related compounds in cardiovascular system
Professor	NISHIO Matomo	Electrophysiological and pharmacological study of excitable and non-excitable cells, Pharmacology of cardiovascular drugs
Senior Assistant 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

Books

- 0160A001 Ikunobu Muramatsu, Takayoshi Masuoka, Junsuke Uwada, Hatsumi Yoshiki, Takashi Yazama, Kung-Shing Lee, Kiyonao Sada, Matomo Nishio, Takaharu Ishibashi, Takanobu Taniguchi: A New Aspect of Cholinergic Transmission in the Central Nervous System, Nicotinic Acetylcholine Receptor Signaling in Neuroprotection (Akinori Akaike, Shun Shimohama, Yoshimi Misu), 45-58, Springer, Germany, 2018.

Publications

Originals

- 0160B001 Masashi Tawa, Takahide Furukawa, Hiroko Tongu, Mai Sugihara, Satoko Taguwa, Misaki Yamanaka, Yoko Yano, Hiroaki Matsumori, Rie Kitada, Tatsuya Sawano, Ryosuke Tanaka, Mamoru Ohkita, Yasuo Matsumura: Stimulation of nitric oxide-sensitive soluble guanylate cyclase in monocrotaline-induced pulmonary hypertensive rats, *Life Sciences*, 203: 203-209, 2018.
- 0160B002 Masashi Tawa, Takeshi Kinoshita, Tohru Asai, Tomoaki Suzuki, Takaharu Ishibashi, Tomio Okamura: Responsiveness of internal thoracic arteries to nitroglycerin in patients with renal failure, *Heart and Vessels*, 33: 682-687, 2018.

- 0160B003 Takayoshi Masuoka, Juana Gallar, Carlos Belmonte: Inhibitory effect of amitriptyline on the impulse activity of cold thermoreceptor terminals of intact and tear-deficit guinea pig corneas, *Journal of Ocular Pharmacology and Therapeutics*, 34: 195–203, 2018.

Presentations at Conference

International Conference (Presentations)

- 0160I001 Takayoshi Masuoka, Makiko Kudo, Matomo Nishio, Ikunobu Muramatsu, Takaharu Ishibashi: Contribution of intracellular acetylcholine receptor to hippocampal long-term potentiation, 18th world congress of basic and clinical pharmacology, Kyoto, 2018.
- 0160I002 Takayoshi Masuoka, Yuka Yamashita, Junko Yoshida, Masashi Tawa, Matomo Nishio, Takaharu Ishibashi: Nerve growth factor facilitates metabotropic glutamate receptor agonist-induced calcium elevation in dorsal root ganglion neurons, 18th World Congress of Basic and Clinical Pharmacology, Kyoto, 2018.
- 0160I003 Ikunobu Muramatsu, Takayoshi Masuoka, Matomo Nishio, Takaharu Ishibashi: A new aspect of cholinergic transmission in central nervous system, 18th World Congress of Basic and Clinical Pharmacology, Kyoto, 2018.
- 0160I004 Tatsuya Sawano, Mamoru Ohkita, Masashi Tawa, Yoshinori Ichihara, Takeshi Imamura, Yasuo Matsumura: Acute activation of G protein-coupled estrogen receptor induces cardioprotective effects against myocardial ischemia reperfusion injury in male and female ovariectomized rats., 18th World Congress of Basic and Clinical Pharmacology, Kyoto, 2018.
- 0160I005 Masashi Tawa, Takahide Furukawa, Hiroko Tongu, Mai Sugihara, Satoko Taguwa, Misaki Yamanaka, Yoko Yano, Hiroaki Matsumori, Tatsuya Sawano, Ryosuke Tanaka, Mamoru Ohkita, Yasuo Matsumura: Soluble Guanylate Cyclase Redox State and Usefulness of Nitric Oxide-Enhancing Drugs in Monocrotaline-Induced Pulmonary Hypertensive Rats, 18th World Congress of Basic and Clinical Pharmacology, Kyoto, 2018.
- 0160I006 Takaharu Ishibashi, Masashi Tawa, Yuka Yamashita, Takayoshi Masuoka: Sex differences in relaxant responses of rat aortas cGMP generators, 10th International Conference on the Biology, Chemistry and Therapeutic Applications of Nitric Oxide, Oxford, 2018.
- 0160I007 Takayoshi Masuoka, Yuka Yamashita, Masashi Tawa, Matomo Nishio, Ikunobu Muramatsu, Takaharu Ishibashi: Chronic ocular dryness sensitizes TRPV1 on corneal cold sensitive nerves, Society for Neuroscience 2018, San Diego, 2018.
- 0160I008 Ikunobu Muramatsu, Takayoshi Masuoka, Matomo Nishio, Takaharu Ishibashi: A novel aspect of cholinergic transmission in central nervous system, Society for Neuroscience 2018, San Diego, 2018.

0170 Department of Pathology I

Faculty

Title	Name	Field of Specialization
Professor	KIYOKAWA Etsuko	Experimental Pathology, Fluorescent Imaging
Senior Assistant Professor	HIRATA Eishu	Tumour cell biology, Neurosurgery
Assistant Professor	ICHIKAWA Takehiko	Fluorescent Imaging

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0170B001 Nishida S, Yoshizaki H, Yasui Y, Kuwahara T, Kiyokawa E, Kohno M: Collagen VI suppresses fibronectin-induced enteric neural crest cell migration by downregulation of focal adhesion proteins, *Biochemical and Biophysical Research Communications*, 495: 1; 1461-1467, 2018.
- 0170B002 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, *Mechanisms of Ageing and Development*, 171: 24-30, 2018.
- 0170B003 Eishu Hirata, Takehiko Ichikawa, Shin-ichi Horike, Etsuko Kiyokawa: Active K-RAS induces the coherent rotation of epithelial cells: A model for collective cell invasion in vitro, *Cancer Science*, 109:4045, 2018.

Presentations at Conference

International Conference (Symposium)

- 0170H001 Hirata Eishu: Unravel the mysteries of cancer cell dormancy in brain metastasis, International Symposium on Tumor Biology in Kanazawa, Kanazawa, 2018.

International Conference (Presentations)

- 0170I001 Naoko Shibata, Sinsuke Shibata, Hidetoshi Ishida, Etsuko kiyokawa, Hiroshi Sasaki, Eri Kubo: Effect of UVB exposure on expression of MMP9 in human pterygium fibroblasts, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.
- 0170I002 Shinsuke Shibata, Naoko Shibata, Teppei Shibata, Hidetoshi Ishida, Etsuko Kiyokawa, Hiroshi Sasaki, Eri Kubo: Expression of proteoglycan decorin in opacified posterior capsule and its suppression by TGF β in mouse lens epithelial cells, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.

0170I003 Eri Kubo, Teppei Shibata, Etsuko Kiyokawa, Masahito Ikawa, Dhirendra P. Singh, Hiroshi Sasaki: Tropomyosin is required for normal Lens development and differentiation, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.

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 necrosis, 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 role of mesenchymal stem cells in the prevention of steroid-induced bone necrosis and regeneration of the ear cartilage.

Publications

Originals

- 0180B001 Miyako Shimasaki, Yoshimitsu Kanazawa, Katsuaki Sato, Hiroyuki Tsuchiya, Yoshimichi Ueda: Aquaporin-1 and -5 are involved in the invasion and proliferation of soft tissue sarcomas, *Pathology-Research and Practice*, 214: 1; 80-88, 2018.
- 0180B002 Toru Ichiseki, Miyako Shimasaki, Yoshimichi Ueda, Shusuke Ueda, Masanobu Tsuchiya, Daisuke Souma, Ayumi Kaneuji, Norio Kawahara: Intraarticularly-injected mesenchymal stem cells stimulate anti-inflammatory molecules and inhibit pain related protein and chondrolytic enzymes in a monoiodoacetate-induced rat arthritis model, *International Journal of Molecular Sciences*, 19: 203, 2018.
- 0180B003 Masanobu Tsuchiya, Toru Ichiseki, Shusuke Ueda, Yoshimichi Ueda, Miyako Shimazaki, Ayumi Kaneuji, Norio Kawahara: Mitochondrial stress and redox failure in steroid-associated osteonecrosis, *International Journal of Medical Sciences*, 15: 3; 205-209, 2018.
- 0180B004 Koichiro Kato, Miyako Shimasaki, Takao Kato, Natsuki Segami, Yoshimichi Ueda: Expression of Sphingosine Kinase-1 Is Associated with Invasiveness and Poor Prognosis of Oral Squamous Cell Carcinoma, *Anticancer Research*, 38: 1361-1368, 2018.
- 0180B005 Katsuo Usuda, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Munetaka Matoba, Mariko Doai, Sohsuke Yamada, Yoshimichi Ueda, Hidetaka Uramoto: FDG-PET/CT and diffusion-weighted imaging for resected lung cancer: correlation of maximum standardized uptake value and apparent diffusion coefficient value with prognostic factors, *Medical oncology (Northwood, London, England)*, 35: 5; 66, 2018.

- 0180B006 Katsuo Usuda, Syun Iwai, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Yoshimichi Ueda, Miyako Shimazaki, Hidetaka Uramoto: Expression and Prognostic Impact of VEGF, CD31 and alpha SMA in Resected Primary Lung Cancers, *ANTICANCER RESEARCH*, 38: 7; 4057–4063, 2018.

Reviews

- 0180C001 Toru Miyanaga, Yoshimichi Ueda, Aiko Miyanaga, Mikio Yagishita, Naoko Hama: Angiogenesis after administration of basic fibroblast growth factor induces proliferation and differentiation of mesenchymal stem cells in elastic perichondrium in an in vivo model: mini review of three sequential republication–abridged reports, *Cellular and Molecular Biology Letters*, 23: 49, 2018.

Case Reports

- 0180D001 Toru Ichiseki, Shusuke Ueda, Daisuke Souma, Miyako Shimasaki, Yoshimichi Ueda, Norio Kawahara: Reverse shoulder arthroplasty for primary synovial osteochondromatosis of the shoulder with massive rotator cuff tear and marked degenerative arthropathy, *Journal of Clinical Medicine*, 7: 8; 189, 2018.
- 0180D002 (Uichiro Fucnizaki), Masaki Nishitani, Yoshimichi Ueda: A Rare Cause of Acute Pancreatitis, *Gastroenterology*, 155: e8–e10, 2018.

Presentations at Conference

International Conference (Presentations)

- 0180I001 Usuda K, Iwai S, Funasaki A, Sekimura A, Motono N, Matoba M, Doai M, Yamada S, Ueda Y, Uramoto H: Diffusion-weighted imaging can differentiate pleural dissemination from malignant pleural mesothelioma emphysema or pleural effusion, *International Cancer Imaging Society 18th Annual Teaching Course*, Menton, 2018.

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).

Publications

Originals

- 0190B001 (Takashi Kozakai), Masahiko Takahashi, Masaya Higuchi, Toshifumi Hara, Kousuke Saito, Yuetsu Tanaka, Masayoshi Masuko, Jun Takizawa, Hirohito Sone, Masahiro Fujii: MAGI-1 expression is decreased in several types of human T-cell leukemia cell lines, including adult T-cell leukemia, *International Journal of Hematology*, 107: 337-344, 2018.
- 0190B002 (Jung-Hyun Kim), Alexander T Dilthey, Ramaiah Nagaraja, Hee-Sheung Lee, Sergey Koren, Dawood Dudekula, William H Wood III, Yulan Piao, Aleksey Y Ogurtsov, Koichi Utani, Vladimir N Noskov, Svetlana A Shabalina, David Schlessinger, Adam M Phillippy, Vladimir Larionov: Variation in human chromosome 21 ribosomal RNA genes characterized by TAR cloning and long-read sequencing, *Nucleic Acid Research*, 46: 6712-6725, 2018.
- 0190B003 (Sang-Min Jang), Ya Zhang, Koichi Utani, Haiqing Fu, Christophe E. Redon, Anna B. Marks, Owen K. Smith, Catherine J. Redmond, Adrian M. Baris, Danielle A. Tulchinsky, Mirit I. Aladjem: The replication initiation determinant protein (RepID) modulates replication by recruiting CUL4 to chromatin, *Nature Communications*, 9: 2782, 2018.
- 0190B004 (Masahiko Takahashi), Hiroki Kitaura, Akiyoshi Kakita, Taichi Kakihana, Yoshinori Katsuragi, Masaaki Nameta, Lu Zhang, Yuriko Iwakura, Hiroyuki Nawa, Masaya Higuchi, Masaaki Komatsu, Masahiro Fujii: USP10 Is a Driver of Ubiquitinated Protein Aggregation and Aggresome Formation to Inhibit Apoptosis, *iScience*, 9: 433-450, 2018.

Reviews

- 0190C001 Koichi Utani, Mirit I Aladjem: Extra View: Sirt1 Acts As A Gatekeeper Of Replication Initiation To Preserve Genomic Stability, *Nucleus*, 9: 261-267, 2018.

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.

Publications

Originals

- 0200B001 Yabe-Wada T, Matsuba S, Unno M, Onai N: Crystal structure of the ligand-free form of the Vps10 ectodomain of dimerized Sortilin at acidic pH, FEBS Letters, 592: 15; 2647-2657, 2018.

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 (Souichi Nukuzuma), Chiyoko Nukuzuma, Masanori Kameoka, Shigeki Sugiura, Kazuo Nakamichi, Takafumi Tasaki, Koushi Hidaka, Tsutomu Takegami: Establishment of COS-JC cells persistently producing archetype JC polyomavirus, MICROBIOLOGY AND IMMUNOLOGY, 62: 8; 524-530, 2018.
- 0210B002 (Sung Tae Kim), Yoon Jee Lee, Takafumi Tasaki, Joonsung Hwang, Min Jueng Kang, Eugene C Yi, Bo Yeon Kim, Yong Tae Kwon: The N-recognin UBR4 of the N-end rule pathway is required for neurogenesis and homeostasis of cell surface proteins, PLOS ONE, 13: 8; e0202260, 2018.
- 0210B003 Masami Kojima, Yukihisa Suzuki, Kensuke Sasaki, Masao Taki, Kanako Wake, Soichi Watanabe, Maya Mizuno, Takafumi Tasaki, Hiroshi Sasaki: Ocular Effects of Exposure to 40, 75, and 95 GHz Millimeter Waves, Journal of Infrared, Millimeter, and Terahertz Waves, 39: 9; 912-925, 2018.
- 0210B004 (Sung Tae Kim), Yoon Jee Lee, Takafumi Tasaki, Su Ran Mun, Joonsung Hwang, Min Jueng Kang, Srinivasrao Ganipiseti, Eugene C Yi, Bo Yeon Kim, Yong Tae Kwon: The N-recognin UBR4 of the N-end rule pathway is targeted to and required for the biogenesis of the early endosome, JOURNAL OF CELL SCIENCE, 131: 17; jcs217646, 2018.

Presentations at Conference

International Conference (Presentations)

- 0210I001 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Yoshinori Tatematu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source, BioEM2018, Slovenia, 2018.
- 0210I002 (Yukihisa Suzuki), Takashi Tasaki, Masami Kojima: Visualization and quantification of temperature distributions due to the millimeter wave exposure with micro-chromic liquid crystals, PIERS 2018, Toyama, 2018.

0220 Department of Pathology and Laboratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	YAMADA Sohsuke	Experimental pathology
Senior Assistant Professor	KUROSE Nozomu	surgical pathology, molecular pathology
Senior Assistant Professor	NAKADA Satoko	surgical pathology
Assistant Professor	KOBAYASHI Eriko	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 Minato H, Kobayashi E, Nakada S, Kurose N, Tanaka M, Tanaka Y, Suzuki S, Tanioka F, Saikawa Y, Miwa T, Nojima T: Sinonasal NUT carcinoma: clinicopathological and cytogenetic analysis with autopsy findings, HUMAN PATHOLOGY, 71: 157-165, 2018.
- 0220B002 (Manabu Tsukamoto), Ke-Yong Wang, Takashi Tasaki, Yoichi Murata, Yasuaki Okada, Yoshiaki Yamanaka, Eiichiro Nakamura, Sohsuke Yamada, Hiroto Izumi, Qian Zhou, Kagaku Azuma, Yasuyuki Sasaguri, Kimitoshi Kohno, Akinori Sakai: Findings as a starting point to unravel the underlying mechanisms of in vivo interactions involving Wnt10a in bone, fat and muscle, Bone, 120: 75-84, 2018.
- 0220B003 Caroline H Shiboski, Alan N Baer, Stephen C Shiboski, Mi Lam, Stephen Challacombe, Hector E Lanfranchi, Morten Schiødt, Penelope Shirlaw, Muthiah Srinivasan, Hisanori Umehara, Frederick B Vivino, Esen Akpek, Vatinee Bunya, Cristina F Vollenweider, John S Greenspan, Troy E Daniels, Lindsey A Criswell, for the Sjögren's International Collaborative Clinical Alliance (SICCA) Research Groups: Natural History and Predictors of Progression to Sjögren's Syndrome Among Participants of the Sjögren's International Collaborative Clinical Alliance Registry, Arthritis care & research, 70: 2; 284-294, 2018.

- 0220B004 (Kie Honjo), Tsubasa Hiraki, Michiyo Higashi, Hirotsugu Noguchi, Mitsuharu Nomoto, Takuya Yoshimura, Surinder Kumar Batra, Suguru Yonezawa, Ichiro Semba, Norifumi Nakamura, Akihide Tanimoto, Sohsuke Yamada: Immunohistochemical expression profiles of mucin antigens in salivary gland mucoepidermoid carcinoma: MUC4- and MUC6-negative expression predicts a shortened survival in the early postoperative phase, *HISTOLOGY AND HISTOPATHOLOGY*, 50: 4; 220-226, 2018.
- 0220B005 (Ke-Yong Wang), Sohsuke Yamada, Hiroto Izumi, Manabu Tsukamoto, Tamiji Nakashima, Takashi Tasaki, Xin Guo, Hidetaka Uramoto, Yasuyuki Sasaguri, Kimitoshi Kohno: Critical in vivo roles of WNT10A in wound healing by regulating collagen expression/synthesis in WNT10A-deficient mice, *PLoS One*, 13: 3; e0195156, 2018.
- 0220B006 (Chaoya Ma), Hasita Horlad, Koji Ohnishi, Takenobu Nakagawa, Sohsuke Yamada, Shohei Kitada, Takanobu Motoshima, Tomomi Kamba, Toshiyuki Nakayama, Naohiro Fujimoto, Motohiro Takeya, Yoshihiro Komohara: CD163-positive cancer cells are potentially associated with high malignant potential in clear cell renal cell carcinoma, *Med Mol Morphol*, 51: 1; 13-20, 2018.
- 0220B007 Katsuo Usuda, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Munetaka Matoba, Mariko Doai, Sohsuke Yamada, Yoshimichi Ueda, Hidetaka Uramoto: FDG-PET/CT and diffusion-weighted imaging for resected lung cancer: correlation of maximum standardized uptake value and apparent diffusion coefficient value with prognostic factors, *Medical oncology (Northwood, London, England)*, 35: 5; 66, 2018.
- 0220B008 Akihiro Shioya, Xin Guo, Nozomu Motono, Seiya Mizuguchi, Nozomu Kurose, Satoko Nakada, Akane Aikawa, Yoshitaka Ikeda, Hidetaka Uramoto, Sohsuke Yamada: The Combination Of Weak Expression Of PRDX4 And Very High MIB-1 Labelling Index Independently Predicts Shorter Disease-free Survival In Stage I Lung Adenocarcinoma, *International Journal of Medical Sciences*, 15: 1025-1034, 2018.
- 0220B009 Nozomu Kurose, Chizuru Futatsuya, Ken-Ichi Mizutani, Motona Kumagai, Akihiro Shioya, Xin Guo, Akane Aikawa, Satoko Nakada, Shino Fujimoto, Hiroshi Kawabata, Yasufumi Masaki, Kazue Takai, Sadao Aoki, Masaru Kojima, Shigeo Nakamura, Sohsuke Yamada: The clinicopathological comparison among nodal cases of idiopathic multicentric Castleman disease with and without TAFRO syndrome, *Human pathology*, 77: 130-138, 2018.
- 0220B010 (Takaaki Ogoshi), Masato Tsutsui, Takashi Kido, Mayuko Sakanashi, Keisuke Naito, Keishi Oda, Hiroshi Ishimoto, Sohsuke Yamada, Ke-yong Wang, Yumiko Toyohira, Hiroto Izumi, Hiroaki Masuzaki, Hiroaki Shimokawa, Nobuyuki Yanagihara, Kazuhiro Yatera, Hiroshi Mukae: Protective Role of Myelocytic Nitric Oxide Synthases against Hypoxic Pulmonary Hypertension in Mice, *American journal of respiratory and critical care medicine*, 198: 2; 232-244, 2018.
- 0220B011 (Kie Honjo), Taiji Hamada, Takuya Yoshimura, Seiya Yokoyama, Sohsuke Yamada, Yan-Qin Tan, Lai K Leung, Norifumi Nakamura, Yasuyo Ohi, Michiyo Higashi, Akihide Tanimoto: PCP4/PEP19 upregulates aromatase gene expression via CYP19A1 promoter 1.1 in human breast cancer SK-BR-3 cells, *Oncotarget*, 9: 51; 29619-29633, 2018.
- 0220B012 (Takujiro Homma), Toshihiro Kurahashi, Jaeyong Lee, Atsunori Nabeshima, Sohsuke Yamada, Junichi Fujii: Double Knockout of Peroxiredoxin 4 (Prdx4) and Superoxide Dismutase 1 (Sod1) in Mice Results in Severe Liver Failure, *Oxidative Medicine and Cellular Longevity*, 2018: 2812904, 2018.
- 0220B013 Jing Zhang, Xin Guo, Taiji Hamada, Seiya Yokoyama, Yuka Nakamura, Jianbo Zheng, Nozomu Kurose, Yasuhito Ishigaki, Hideaki Uramoto, Akihide Tanimoto, Sohsuke Yamada: Protective Effects of Peroxiredoxin 4 (PRDX4) on Cholestatic Liver Injury, *Int J Mol Sci*, 19: 9; 2509, 2018.

Reviews

- 0220C001 Sohsuke Yamada: Histopathological Examination in Animal Models of Atherosclerosis, NASH to Metabolic Syndrome, *BIO Clinica*, 7: 1; 142-147, 2018.
- 0220C002 Sohsuke Yamada, Xin Guo: Peroxiredoxin 4 (PRDX4): Its critical in vivo roles in animal models of metabolic syndrome ranging from atherosclerosis to nonalcoholic fatty liver disease, *PATHOLOGY INTERNATIONAL*, 68: 2; 91-101, 2018.
- 0220C003 Sohsuke Yamada: Histopathology on Atherosclerosis to Metabolic Syndrome Using Genetically Modified Animal Models, *Journal of Kanazawa Medical University*, 43: 1-8, 2018.

0220C004 Yasufumi Masaki, Shino Fujimoto, Nozomu Kurose, Tomoyuki Sakai, Haruka Kawanami (Iwao), Takafumi Kawanami, Yoshimasa Fujita, Shuichi Mizuta, Hiroshi Kawabata, Toshihiro Fukushima: Differential diagnoses among polyclonal hypergammopathies: IgG4-related disease, Multicentric Castleman disease, and other diseases, *The Official Journal of Japanese Society of Laboratory Medicine*, 66: 8; 898-907, 2018.

Case Reports

- 0220D001 (Toyonobu Tsuda), Hayato Tada, Yoshihiro Tanaka, Naoto Nishida, Taiji Yoshida, Takeshi Sawada, Kenji Sakata, Kenshi Hayashi, Masa-aki Kawashiri, Takeru Oyama, Motoko Sasaki, Nozomu Kurose, Masakazu Yamagishi: Amiodarone-induced reversible and irreversible hepatotoxicity: two case reports, *Journal of Medical Case Reports*, 12: 95, 2018.
- 0220D002 Xin Guo, Jiro Watanabe, Sanae Ariyasu, Yasuyuki Sasaguri, Nozomu Kurose, Kei Fukushima, Sohsuke Yamada: Myoepithelial carcinoma of the parotid gland: A case of adequate fine-needle aspiration cytology specimens rendering a conclusive diagnosis possible, *SAGE open medical case reports*, 6: 2050313X18780842, 2018.
- 0220D003 Motona Kumagai, Sohsuke Yamada, Nozomu Kurose, Satoko Nakada, Akane Aikawa, Chizuru Futatsuya, Ken-ichi Mizutani, Akihiro Shioya, Hiroshi Minato: Benign mesothelial nodules reflux within acquired cutaneous lymphangiectasia associated with huge ovarian clear cell carcinoma, *Pathology international*, 68: 1; 53-55, 2018.
- 0220D004 Shioya A, Saito K, Kurose N, Takase Y, Kodama K, Minato H, Nojima T, Yamada S: Primary enteric-type tubulovillous adenocarcinoma arising in the renal pelvis, *Pathology international*, 68: 388-390, 2018.
- 0220D005 (Haesu Lee Motoyama), Sohsuke Yamada, Satoko Nakada, Nozomu Kurose, Akihide Tanimoto: Intraorbital ancient pilocytic astrocytoma of the optic nerve in neurofibromatosis type 1 patient presenting with sudden ocular pain, *SAGE Open Med Case Rep*, 6: 2050313X18761310, 2018.
- 0220D006 (Yoshika Nagata), Manabu Yoshioka, Hidetaka Uramoto, Yosuke Tsurudome, Sohsuke Yamada, Takeshi Hanagiri, Fumihiko Tanaka: Malignant Melanoma of the Nipple: A Case Report, *Journal of Breast Cancer*, 21: 1; 96-101, 2018.
- 0220D007 Hanako Tsurumi, Yoshihide Fujigaki, Tadashi Yamamoto, Risa Iino, Kei Taniguchi, Michito Nagura, Shigeyuki Arai, Yoshifuru Tamura, Tatsuru Ota, Shigeru Shibata, Fukuo Kondo, Nozomu Kurose, Yasufumi Masaki, Shunya Uchida: Remission of Refractory Ascites and Discontinuation of Hemodialysis after Additional Rituximab to Long-term Glucocorticoid Therapy in a Patient with TAFRO Syndrome, *Internal medicine*, 57: 10; 1433-1438, 2018.
- 0220D008 Kenichi Mizutani, Sohsuke Yamada, Xin Guo, Chizuru Futatsuya, Motona Kumagai, Akihiro Shioya, Akane Aikawa, Satoko Nakada, Nozomu Kurose, Hiroshi Minato, Takayuki Nojima: An autopsy case of peripheral T cell lymphoma occurring in a postpartum woman: a unique case suggesting changes in the immunohistochemical characteristics of lymphoma cells before and after delivery, *Diagnostic Pathology*, 13: 1; 32, 2018.
- 0220D009 (Masahiro Takeuchi), Yoshitaka Sakamoto, Hirotsugu Noguchi, Sohsuke Yamada, Keiji Hirata: Tubulocystic Carcinoma of the Bile Duct, *Case Reports Hepatol*, 2018: 2304610, 2018.
- 0220D010 Ken-ichi Mizutani, Sohsuke Yamada, Satoko Nakada, Nozomu Kurose, Akane Aikawa, Chizuru Futatsuya, Motona Kumagai, Akihiro Shioya, Hiroshi Minato, Takayuki Nojima: Uterine cervical mesonephric hyperplasia with focal cystic change masquerading clinicopathologically as lobular endocervical glandular hyperplasia to malignancy, *Human Pathology: Case Reports*, 12: 48-51, 2018.
- 0220D011 (Jiro Watanabe), Sohsuke Yamada, Yasuyuki Sasaguri, Masaru Inagaki, Hiromi Iwagaki: Two Surgical Cases of Combined Hepatocellular-Cholangiocarcinoma, Intermediate-Cell Subtype: Potentially Characteristic Gross Features, *Case Reports in Pathology*, 2018: 8423939, 2018.
- 0220D012 Takashi Kobata, Sohsuke Yamada, Kenichi Mizutani, Nozomu Kurose, Sho Takagi, Yuichiro Machida, Tsugiyasu Kanda: A Surgical Case of Venous Aneurysm of the Cephalic Vein with Unique Clinicopathological Findings for Venous Dissection: A Possible New Entity, *Open Journal of Cardiovascular Surgery*, 10: 1-3, 2018.
- 0220D013 Nozomu Kurose, Manabu Yamashita, Mariko Nakano, Xin Guo, Akihiro Shioya, Satoko Nakada, Hiroshi Minato, Sohsuke Yamada: Cytopathological findings of proliferating pilomatricoma misdiagnosed as a malignant parotid gland tumor, *DIAGNOSTIC PATHOLOGY*, 13: 65, 2018.

- 0220D014 Kenichi Mizutani, Satoko Nakada, Akira Tamase, Osamu Tachibana, Hideaki Iizuka, Takanori Hirose, Sohsuke Yamada: Meningioma with Remarkable Multiple Rosette Formation: A Diagnostically Difficult Case, *Journal of Medical & Surgical Pathology*, 3: 4; 169, 2018.
- 0220D015 Nozomu Kurose, Michiho Takenaka, Manabu Yamashita, Chie Shimaguchi, Mariko Nakano, Bryant Britni, Xin Guo, Chizuru Futatsuya, Akihiro Shioya, Sohsuke Yamada: A case report of infantile cystic nephroblastoma, *DIAGNOSTIC PATHOLOGY*, 13: 1; 84, 2018.
- 0220D016 (Mari Kirishima), Sohsuke Yamada, Mitsuhsa Shinya, Shun Onishi, Yuko Goto, Ikumi Kitazono, Tsubasa Hiraki, Michiyo Higashi, Akira I Hida, Akihide Tanimoto: An autopsy case of epignathus (immature teratoma of the soft palate) with intracranial extension but without brain invasion: case report and literature review, *Diagn Pathol*, 13: 1; 99, 2018.

Presentations at Conference

International Conference (Presentations)

- 0220I001 Kenichi Mizutani, Satoko Nakada, Akira Tamase, Hideaki Iizuka, Takanori Hirose, Sohsuke Yamada: Meningioma with remarkable meningothelial rosettes formation, *The 7th Taiwan-Japan Conjoint Slide Conference of IAP*, Taipei, 2018.
- 0220I002 Usuda K, Iwai S, Funasaki A, Sekimura A, Motono N, Matoba M, Doai M, Yamada S, Ueda Y, Uramoto H: Diffusion-weighted imaging can differentiate pleural dissemination from malignant pleural mesothelioma emphyema or pleural effusion, *International Cancer Imaging Society 18th Annual Teaching Course*, Menton, 2018.

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 Masaru Sakurai, Hideaki Nakagawa, Aya Kadota, Katsushi Yoshita, Yasuyuki Nakamura, Nagako Okuda, Nobuo Nishi, Yoshihiro Miyamoto, Hitotomi Arima, Takayoshi Ohkubo, Tomonori Okamura, Hirotsugu Ueshima, Akira Okayama, Katsuyuki Miura: NIPPON DATA2010 Res Grp: Macronutrient Intake and Socioeconomic Status: NIPPON DATA2010, JOURNAL OF EPIDEMIOLOGY, 28: 3; S17-S22, 2018.
- 0230B002 (Kimiko Nishino), Masaru Sakurai, Yumie Takeshita, Toshinari Takamura: Consuming Carbohydrates after Meat or Vegetables Lowers Postprandial Excursions of Glucose and Insulin in Nondiabetic Subjects, Journal of Nutritional Science and Vitaminology, 64: 5; 316-320, 2018.
- 0230B003 (Yusuke Wakabayashi), Rie Oka, Masako Nakaya, Shigehiro Karashima, Mitsuhiro Kometani, Masaru Sakurai, Kenichi Yoshimura, Takashi Yoneda: Associations between Sleep-Disordered Breathing and Metabolic Risk Factors beyond Obesity, JOURNAL OF DIABETES RESEARCH, 2018: 1567683, 2018.
- 0230B004 (Wood AM), Kaptoge S, Butterworth AS, Willeit P, Warnakula S, Bolton T, Paige E, Paul DS, Sweeting M, Burgess S, Bell S, Astle W, Stevens D, Koulman A, Selmer RM, Verschuren WMM, Sato S, Njølstad I, Woodward M, Salomaa V, Nordestgaard BG, Yeap BB, Fletcher A, Melander O, Kuller LH, Balkau B, Marmot M, Koenig W, Casiglia E, Cooper C, Arndt V, Franco OH, Wennberg P, Gallacher J, de la Cámara AG, Völzke H, Dahm CC, Dale CE, Bergmann MM, Crespo CJ, van der Schouw YT, Kaaks R, Simons LA, Lagiou P, Schoufour JD, Boer JMA, Key TJ, Rodriguez B, Moreno-Iribas C, Davidson KW, Taylor JO, Sacerdote C, Wallace RB, Quiros JR, Tumino R, Blazer DG 2nd, Linneberg A, Daimon M, Panico S, Howard B, Skeie G, Strandberg T, Weiderpass E, Nietert PJ, Psaty BM, Kromhout D, Salamanca-Fernandez E, Kiechl S, Krumholz HM, Grioni S, Palli D, Huerta JM, Price J, Sundström J, Arriola L, Arima H, Travis RC, Panagiotakos DB, Karakatsani A, Trichopoulou A, Kühn T, Grobbee DE, Barrett-Connor E, van Schoor N, Boeing H, Overvad K, Kauhanen J, Wareham N, Langenberg C, Forouhi N, Wennberg M, Després JP, Cushman M, Cooper JA, Rodriguez CJ, Sakurai M, Shaw JE, Knuiman M, Voortman T, Meisinger C, Tjønneland A, Brenner H, Palmieri L, Dallongeville J, Brunner EJ, Assmann G, Trevisan M, Gillum RF, Ford I, Sattar N, Lazo M, Thompson SG, Ferrari P, Leon DA, Smith GD, Peto R, Jackson R, Banks E, Di Angelantonio E, Danesh J; Emerging Risk Factors Collaboration/EPIC-CVD/UK Biobank Alcohol Study Group: Risk thresholds for alcohol consumption: combined analysis of individual-participant data for 599 912 current drinkers in 83 prospective studies, Lancet (London, England), 391: 1513-1523, 2018.

- 0230B005 Muneko Nishijo, Hideaki Nakagawa, Yasushi Suwazono, Kazuhiro Nogawa, Masaru Sakurai, Masao Ishizaki, Teruhiko Kido: Cancer Mortality in Residents of the Cadmium-Polluted Jinzu River Basin in Toyama, Japan, *Toxics*, 6: 2; E23, 2018.
- 0230B006 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855-861, 2018.
- 0230B007 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Increase of lifetime cadmium intake dose-dependently increased all cause of mortality in female inhabitants of the cadmium-polluted Jinzu River basin, Toyama, Japan, *Environmental Research*, 164: 379-384, 2018.

Presentations at Conference

International Conference (Presentations)

- 0230I001 Kakuda H, Kobayashi j, Sakuraic M, Takekoshi N: Influences of withdrawal of SGLT2 inhibitor tofogliflozin on metabolic parameters -Comparison between on treatment and washout period-, The 23rd International society of Cardiovascular pharmacotherapy, Kyoto, 2018.

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

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

Publications

Originals

- 0240B001 (Yoko Takizawa), Masaaki Kawai, Yoichiro Kakugawa, Yoshikazu Nishino, Noriaki Ohuchi, Yuko Minami: Alcohol Consumption and Breast Cancer Risk According to Hormone Receptor Status in Japanese Women: A Case-Control Study, *TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE*, 244: 1; 63-73, 2018.
- 0240B002 Hitomi Boda, Tran Ngoc Nghi, Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Hoang Van Luong, Tran Hai Anh, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Prenatal dioxin exposure estimated from dioxins in breast milk and sex hormone levels in umbilical cord blood in Vietnamese newborn infants, *The Science of the total environment*, 615: 1312-1318, 2018.
- 0240B003 (Shusaku Inoue), Satoyo Hosono, Hidemi Ito, Isao Oze, Yoshikazu Nishino, Masakazu Hattori, Tomohiro Matsuda, Isao Miyashiro, Tomio Nakayama, Mika Mizuno, Keitaro Matsuo, Kiyoko Kato, Hideo Tanaka, Yuri Ito, the J-CANSIS Res Grp: Improvement in 5-Year Relative Survival in Cancer of the Corpus Uteri From 1993-2000 to 2001-2006 in Japan, *JOURNAL OF EPIDEMIOLOGY*, 28: 2; 75-80, 2018.
- 0240B004 (Soisungwan Satarug), Muneko Nishijo, Pailin Ujjin, Michael R Moore: Chronic exposure to low-level cadmium induced zinc-copper dysregulation, *JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY*, 46: 32-38, 2018.
- 0240B005 Muneko Nishijo, Hideaki Nakagawa, Yasushi Suwazono, Kazuhiro Nogawa, Masaru Sakurai, Masao Ishizaki, Teruhiko Kido: Cancer Mortality in Residents of the Cadmium-Polluted Jinzu River Basin in Toyama, Japan, *Toxics*, 6: 2; 23, 2018.

- 0240B006 (Soisungwan Satarug), Werawan Ruangyuttikarn, Muneko Nishijo, Patricia Ruiz: Urinary Cadmium Threshold to Prevent Kidney Disease Development, *Toxics*, 6: 2; 26, 2018.
- 0240B007 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855–861, 2018.
- 0240B008 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Increase of lifetime cadmium intake dose-dependently increased all cause of mortality in female inhabitants of the cadmium-polluted Jinzu River basin, Toyama, Japan, *Environmental research*, 164: 379–384, 2018.
- 0240B009 Anh Thi Nguyet Nguyen, Muneko Nishijo, Tai The Pham, Nghi Ngoc Tran, Anh Hai Tran, Luong Van Hoang, Hitomi Boda, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Sex-specific effects of perinatal dioxin exposure on eating behavior in 3-year-old Vietnamese children, *BMC PEDIATRICS*, 18: 213, 2018.
- 0240B010 (Hoang Van Luong), Pham The Tai, Muneko Nishijo, Do Minh Trung, Pham Ngoc Thao, Pham Van Son, Nguyen Van Long, Nguyen Tung Linh, Hisao Nishijo: Association of dioxin exposure and reproductive hormone levels in men living near the Bien Hoa airbase, Vietnam, *The Science of the total environment*, 628–629: 484–489, 2018.
- 0240B011 (Kowit Nambunmee), Muneko Nishijo, Witaya Swaddiwudhipong, Werawan Ruangyuttikarn: Bone Fracture Risk and Renal Dysfunction in a Highly Cadmium Exposed Thai Population, *Journal of research in health sciences*, 18: 3; e00419, 2018.
- 0240B012 (Yuko Minami), Seiki Kanemura, Tomoyuki Oikawa, Shinichi Suzuki, Yasuhiro Hasegawa, Koh Miura, Yoshikazu Nishino, Yoichiro Kakugawa, Tsuneaki Fujiya: Associations of cigarette smoking and alcohol drinking with stomach cancer survival: A prospective patient cohort study in Japan, *INTERNATIONAL JOURNAL OF CANCER*, 143: 5; 1072–1085, 2018.
- 0240B013 (Akiyo Yoshimura), Hidemi Ito, Yoshikazu Nishino, Masakazu Hattori, Tomohiro Matsuda, Isao Miyashiro, Tomio Nakayama, Hiroji Iwata, Keitaro Matsuo, Hideo Tanaka, Yuri Ito: Recent Improvement in the Long-term Survival of Breast Cancer Patients by Age and Stage in Japan, *JOURNAL OF EPIDEMIOLOGY*, 28: 10; 420–427, 2018.

Presentations at Conference

International Conference (Presentations)

- 0240I001 Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese toddlers in the largest hot spot of Agent Orange contamination in Vietnam, 38th International Symposium on Halogenated persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.
- 0240I002 Pham Ngoc Thao, Muneko Nishijo, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Effects of dioxin exposure on gaze behaviour in children at 3 years of age living in a hotspot of dioxin contamination in Vietnam, 38th International Symposium on Halogenated Persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.
- 0240I003 (Izumi Oki), Yoshikazu Nishino, Kumiko Saika, Tomohiro Matsuda: Epidemiologic features of cancer cases diagnosed and/or treated in nationally designated cancer care hospitals, 40th IACR Annual Scientific Conference, Peru, 2018.11.

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

Originals

- 0250B001 Shuichi Hara, Masamune Kobayashi, Fumi Kuriwa, Kazuya Ikematsu, Hajime Mizukami: Hydroxyl radical production via NADPH oxidase in rat striatum due to carbon monoxide poisoning, *Toxicology*, 394: 63-71, 2018.

Presentations at Conference

International Conference (Presentations)

- 0250I001 Mori S, Mishima S, Ro A, Asakura K, Hayakawa A, Funakoshi I, Fukunaga T, Mizukami H: An autopsy case of death by aorticopulmonary fistula after open stent-grafting for aortic arch aneurysm, 24th Congress of the International Academy of Legal Medicine (IALM), Fukuoka, 2018.
- 0250I002 Kobayashi M, Hashiyada M, Takeshita H, Mori S, Akane A, Fukunaga T, Mizukami H: Identification of cardiac disease associated gene in sudden cardiac death using massively parallel sequencing, 24th Congress of the International Academy of Legal Medicine (IALM), 2018.
- 0250I003 Takeshita H, Kobayashi M, Mizukami H: A case of fatal hypothermia discovered from scalding water in a bathtub, 24th Congress of the International Academy of Legal Medicine (IALM), Fukuoka, 2018.
- 0250I004 Mizukami H, Takeshita H, Kobayashi M, Hara S, Mori S, Kuriwa F, Fukunaga T: Autopsy and genetic diagnosis of a salt-wasting form of 21-hydroxylase deficiency with bilateral testicular tumors, 24th Congress of the International Academy of Legal Medicine (IALM), Fukuoka, 2018.
- 0250I005 Kobayashi M, Hara S, Kuriwa F, Kurosaki K, Mizukami H: Microarray analysis of gene expression in rat striatum exposed to carbon monoxide and hypoxic hypoxia, 24th Congress of the International Academy of Legal Medicine (IALM), Fukuoka, 2018.
- 0250I006 Kobayashi M, Hara S, Takeshita H, Kuriwa F, Mizukami H: Angiotensin II-induced death independent of hypertension in ADAMTS13 knock-out mice, 24th Congress of the International Academy of Legal Medicine (IALM), Fukuoka, 2018.

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	KURODA Naohiro	medical informatics, electronic medical record system, medical education

Keywords of Research

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

Outline of Research

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

Publications

Originals

0260B001 Akiteru Takamura, Takeshi Morimoto: Experience of receiving care by interns reduces psychological barrier of community residents to further care in Japan, *Rural and remote health*, 18: 3; 4613, 2018.

Clinical Medicine

0300 Department of Cardiology

Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Kouji	Atherosclerosis, lipid metabolism
Associate 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	FUJIBAYASHI Kousuke	Arrhythmia, Catheter ablation
Assistant Professor	TAKANO Shintaro	Arrhythmia, Catheter ablation
Assistant Professor	TAKAMURA Takaaki	Ischemic heart disease, Coronary intervention
Assistant Professor	FUJITA Wataru	Heart failure
Assistant Professor	UENO Eiichi	Arrhythmia, Catheter ablation
Assistant Professor (Additional Post)	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention
Assistant Professor (Additional Post)	KITAGAWA Katsuhide	Ischemic heart disease, Coronary intervention

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0300B001 Kouji Kajinami: Towards Effective Cost-Effectiveness Analysis in Atherosclerotic Cardiovascular Disease Prevention, *Circulation Journal*, 82: 954-955, 2018.

- 0300B002 Saurabh P Nagar, Pratik P Rane, Kathleen M Fox, Juliana Meyers, Keith Davis, Anne Beaubrun, Hyoe Inomata, Yi Qian, Kouji Kajinami: Treatment Patterns, Statin Intolerance, and Subsequent Cardiovascular Events Among Japanese Patients With High Cardiovascular Risk Initiating Statin Therapy, *CIRCULATION JOURNAL*, 82: 1008–1016, 2018.
- 0300B002 Faiez Zannad, Stefan D. Anker, William M. Byra, John G.F. Cleland, Min Fu, Mihai Gheorghide, Carolyn S.P. Lam, Mandeep R. Mehra, James D. Neaton, Christopher C. Nessel, Theodore E. Spiro, Dirk J. van Veldhuisen, et al., for the COMMANDER HF Investigators: Rivaroxaban in Patients with Heart Failure, Sinus Rhythm, and Coronary Disease, *The new England journal of medicine*, 379; 1332–1342, 2018.

Presentations at Conference

International Conference (Presentations)

- 0300I001 M Wakasa, H Aoki, K Hujibayashi, H Aakao, Y Kawai, K Kajinami: Association of Plasma Fischer Ratio (FR) and Atrial Fibrillation (AF) in Patients with Idiopathic Dilated Cardiomyopathy (DCM), *Heart Failure 2018 & World Congress on Acute Heart Failure*, Vienna, 2018.

0310 Department of Respiratory Medicine

Faculty

Title	Name	Field of Specialization
Professor	MIZUNO Shiro	lung cell and molecular biology, COPD
Professor	TOGA Hirohisa	clinical respiratory medicine, sleep disordered breathing
Professor	OSANAI Kazuhiro	lung cell and molecular biology, COPD
Professor	ISHIZAKI Takeshi	Pulmonary circulation
Associate Professor (Additional Post)	IGUCHI Masaharu	Respiratory Medicine
Senior Assistant Professor	OIKAWA Taku	clinical respiratory medicine, lung cancer
Senior Assistant Professor	NAKAGAWA Ken	clinical respiratory medicine
Senior Assistant Professor	FUJIMOTO Yuki	clinical respiratory medicine, sleep disordered breathing
Assistant Professor	KOJIMA Koji	clinical respiratory medicine
Assistant Professor	SAITO Masatoshi	clinical respiratory medicine, sleep, sleep disordered breathing
Assistant Professor	SHINOMIYA Shohei	clinical respiratory medicine
Assistant Professor	TAKAHARA Yutaka	clinical respiratory medicine
Assistant Professor	KAMEDA Mari	clinical respiratory medicine
Assistant Professor	KATO Ryo	chronic obstructive pulmonary disease
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

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 Masafumi Nojiri, Shiro Mizuno, Kazuaki Nishiki, Ryo Kato, Ken Nakagawa, Taku Oikawa, Masaharu Iguchi, Kazuhiro Osanai, Takeshi Ishizaki, Hirohisa Toga: ADRB2 gene polymorphism and emphysema heterogeneity can modulate bronchodilator response in patients with emphysema, *Pulmonary pharmacology & Therapeutics*, 48: 80-87, 2018.

- 0310B002 Toshihiro Higashikawa, Tomohiko Ito, Takuro Mizuno, Keiichirou Ishigami, Masaru Kohori, Kunihiro Mae, Ryusho Sangen, Daisuke Usuda, Atsushi Saito, Masaharu Iguchi, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Tsugiyasu Kanda, Masashi Okuro: The effects of 12-month administration of tofogliflozin on electrolytes and dehydration in mainly elderly Japanese patients with type 2 diabetes mellitus, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 12; 5117-5126, 2018.
- 0310B003 (Kojonazarov B), Belenkov A, Shinomiya S, Wilhelm J, Kampschulte M, Mizuno S, Ghofrani HA, Grimminger F, Weissmann N, Seeger W, Schermuly RT: Evaluating Systolic and Diastolic Cardiac Function in Rodents Using Microscopic Computed Tomography, Circulation-Cardiovascular Imaging, 11: 12; 1-10, 2018.

Reviews

- 0310C001 Kazuhiro Osanai: Rab38 Mutation and the Lung Phenotype, International journal of molecular sciences, 19: 8; 2203, 2018.

Case Reports

- 0310D001 (Takehiro Kasahara), Yuji Yonezawa, Yoshihiro Ueda, Masatoshi Saito, Koji Kojima, Yuki Fujimoto, Hirohisa Toga, Hidetaka Nambo: Prediction of Oxygen Saturation by Pulse Oximetry from Image and Sound Data with Long Short-term Memory Recurrent Neural Network, Sensors and Materials, 30: 7; 1447-1455, 2018.

Presentations at Conference

International Conference (Presentations)

- 0310I001 S.Shinomiya, S.Mizuno, F.Grimminger, H.A.Ghofrani, N.Weissmann, W.Seeger, B.Kojonazarov, H.Toga, R.T.Schermuly: Hypoxia-Induced Pulmonary Hypertension in C57BL/6J and C57BL/6N Mice: Is There Any Difference?, American Thoracic Society 2018 International Conference, San Diego, 2018.

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 (Additional Post)	SHIMASAKI Takeo	Molecular Oncology, Pancreatic cancer , tissue engineering.
Senior Assistant Professor	OTSUKA Toshimi	Clinico-pathological study of nonalcoholic steatohepatitis
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

Books

- 0320A001 Tomiyasu Arisawa: Chapter2 Genetic Factor, Functional Dyspepsia (Kazunari Tominaga, Hiroaki Kusunoki), 15-23, Springer, Singapore, 2018.

Publications

Originals

- 0320B001 Masafumi Ota, Tomomitu Tahara, Toshimi Otsuka, Wu Jing, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Masakatsu Nakamura, Tomoyuki Shibata, Tomoyasu Arisawa: Association between receptor interacting serine/threonine kinase 2 polymorphisms and gastric cancer susceptibility, *ONCOLOGY LETTERS*, 15: 3772–3778, 2018.
- 0320B002 Toshimi Otsuka, Tomomitu Tahara, Masakatsu Nakamura, Wu Ging, Masafumi Ota, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Tomoyuki Shibata, Tomiyasu Arisawa: Polymorphism rs7521584 in miR-429 is associated with the severity of atrophic gastritis in patients with *Helicobacter pylori* infection, *Molecular Medicine Reports*, 18: 2; 2381–2386, 2018.

Reviews

- 0320C001 Takeo Shimasaki, Satoko Yamamoto, Tomiyasu Arisawa: Exosome Research and Co-culture Study, *BIOLOGICAL & PHARMACEUTICAL BULLETIN*, 41: 9; 1311–1321, 2018.

Presentations at Conference

International Conference (Presentations)

- 0320I001 Takeo Shimasaki, Satoko Yamamoto: Development of new co-culture vessel and the selection of filters for the exosome study, 10thJARI/5thJSEV, Hiroshima, 2018.

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: Determination of selenium during pathogenesis of hepatic fibrosis employing hydride generation and inductively coupled plasma mass spectrometry, *Biological chemistry*, 399: 5; 499-509, 2018.

- 0325B002 Joseph George, Irene K Yan, Tushar Patel: Nanovesicle-mediated delivery of anticancer agents effectively induced cell death and regressed intrahepatic tumors in athymic mice, Laboratory investigation; a journal of technical methods and pathology, 98: 7; 895-910, 2018.

Reviews

- 0325C001 Akiko Sakasai-Sakai, Jun-ichi Takano, Atsushi Fukumura, Takanobu Takata, Mikihiro Tsutsumi, Masayoshi Takeuchi: Toxic AGEs (TAGE) theory for pathophysiology of the onset / progression of NAFLD and ALD, The journal of Japan Mibyo System Association, 24: 1; 19-25, 2018.

Presentations at Conference

International Conference (Presentations)

- 0325I001 Joseph George, Nobuhiko Hayashi, Mikihiro Tsutsumi, Mutsumi Tsuchishima: Targeted delivery of epigallocatechin gallate and anti-mir221 regressed intrahepatic tumors in athymic mice, DDW2018, Washington, D.C., 2018.06.
- 0325I002 Kaori Kinoshita, Nobuyuki Toshikuni, Mutsumi Tsuchishima, Mikihiro Tsutsumi: Fatty liver with an elevated serum gamma-glutamyl transpeptidase level as a predictor for carotid plaque formation, 26th United European Gastroenterology Week, Vienna, 2018.10.

0330 Department of Nephrology

Faculty

Title	Name	Field of Specialization
Professor	YOKOYAMA Hitoshi	Clinicopathological study of nephritic and nephrotic syndrome, Clinical study of blood purification, Clinicopathological study of renal transplantation
Associate Professor	ADACHI Hiroki	Clinical nephrology
Senior Assistant Professor	FUJIMOTO Keiji	Clinical nephrology
Assistant Professor	IMURA Junko	Clinical nephrology
Assistant Professor	HAYASHI Norifumi	Clinical nephrology
Assistant Professor	OKINO Kazuaki	Clinical nephrology
Assistant Professor	MUKAI Kiyotaka	Clinical nephrology
Assistant Professor	OKUSHI Yuki	Clinical nephrology
Assistant Professor	OKADA Keiichirou	
Assistant Professor	NAKAYAMA Kanae	
Assistant Professor	MATSUURA Toshikazu	
Assistant Professor	YAMAZAKI Keita	
Assistant Professor	MIYATAKE Nobuhiko	

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0330B001 Hayashi N, Okada K, Matsui Y, Fujimoto K, Adachi H, Yamaya H, Matsushita M, Yokoyama H: Glomerular mannose-binding lectin deposition in intrinsic antigen-related membranous nephropathy, *NEPHROLOGY DIALYSIS TRANSPLANTATION*, 33: 5; 832–840, 2018.
- 0330B002 Furuichi K, Yuzawa Y, Shimizu M, Hara A, Toyama T, Kitamura H, Suzuki Y, Sato H, Uesugi N, Ubara Y, Hisano S, Ueda Y, Nishi S, Yokoyama H, Nishino T, Kohagura K, Ogawa D, Mise K, Shibagaki Y, Kimura K, Haneda M, Makino H, Matsuo S, Wada T: Nationwide multicentre kidney biopsy study of Japanese patients with type 2 diabetes, *NEPHROLOGY DIALYSIS TRANSPLANTATION*, 33: 1; 138–148, 2018.
- 0330B003 Caroline H Shiboski, Alan N Baer, Stephen C Shiboski, Mi Lam, Stephen Challacombe, Hector E Lanfranchi, Morten Schiødt, Penelope Shirlaw, Muthiah Srinivasan, Hisanori Umehara, Frederick B Vivino, Esen Akpek, Vatinee Bunya, Cristina F Vollenweider, John S Greenspan, Troy E Daniels, Lindsey A Criswell, for the Sjögren's International Collaborative Clinical Alliance (SICCA) Research Groups: Natural History and Predictors of Progression to Sjögren's Syndrome Among Participants of the Sjögren's International Collaborative Clinical Alliance Registry, *Arthritis care & research*, 70: 2; 284–294, 2018.
- 0330B004 (Miho Shimizu), Kengo Furuichi, Tadashi Toyama, Tomoaki Funamoto, Shinji Kitajima, Akinori Hara, Daisuke Ogawa, Daisuke Koya, Kenzo Ikeda, Yoshitaka Koshino, Yukie Kurokawa, Hideharu Abe, Kiyoshi Mori, Masaaki Nakayama, Yoshio Konishi, Ken-ichi Samejima, Masaru Matsui, Hiroyuki Yamauchi, Tomohito Gohda, Kei Fukami, Daisuke Nagata, Hidenori Yamazaki, Yukio Yuzawa, Yoshiki Suzuki, Shouichi Fujimoto, Shoichi Maruyama, Sawako Kato, Takero Naito, Kenichi Yoshimura, Hitoshi Yokoyama, Takashi Wada, Research Group of Diabetic Nephropathy, The Ministry of Health, Labour, and Welfare of Japan and Japan Agency for Medical Research and Development: Decline in estimated glomerular filtration rate is associated with risk of end-stage renal disease in type 2 diabetes with macroalbuminuria: an observational study from JDNCS, *Clinical and Experimental Nephrology*, 22: 2; 377–387, 2018.
- 0330B005 Nomura-Nakayama K, Adachi H, Miyatake N, Hayashi N, Fujimoto K, Yamaya H, Yokoyama H: High molecular weight adiponectin inhibits vascular calcification in renal allograft recipients, *PLoS One*, 13: 5; e0195066, 2018.
- 0330B006 Komatsu H, Fujimoto S, Maruyama S, Mukoyama M, Sugiyama H, Tsuruya K, Sato H, Soma J, Yano J, Itano S, Nishino T, Sato T, Narita I, Yokoyama H: Distinct characteristics and outcomes in elderly-onset IgA vasculitis (Henoch-Schönlein purpura) with nephritis: Nationwide cohort study of data from the Japan Renal Biopsy Registry (J-RBR), *PLoS One*, 13: 5; e0196955, 2018.
- 0330B007 Furuichi K, Shimizu M, Yuzawa Y, Hara A, Toyama T, Kitamura H, Suzuki Y, Sato H, Uesugi N, Ubara Y, Hohino J, Hisano S, Ueda Y, Nishi S, Yokoyama H, Nishino T, Kohagura K, Ogawa D, Mise K, Shibagaki Y, Makino H, Matsuo S, Wada T: Clinicopathological analysis of biopsy-proven diabetic nephropathy based on the Japanese classification of diabetic nephropathy, *Clinical and Experimental Nephrology*, 22: 3; 570–582, 2018.
- 0330B008 Furuichi K, 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, Kohagura K, Ogawa D, Mise K, Shibagaki Y, Kimura K, Haneda M, Makino H, Matsuo S, Wada T: Nationwide multicenter kidney biopsy study of Japanese patients with hypertensive nephrosclerosis, *Clinical and Experimental Nephrology*, 22: 3; 629–637, 2018.
- 0330B009 Wada T, Muso E, Maruyama S, Hara A, Furuichi K, Yoshimura K, Miyazaki M, Sato E, Abe M, Shibagaki Y, Narita I, Yokoyama H, Mori N, Yuzawa Y, Matsubara T, Tsukamoto T, Wada J, Ito T, Masutani K, Tsuruya K, Fujimoto S, Tsuda A, Suzuki H, Kasuno K, Terada Y, Nakata T, Iino N, Kobayashi S: Rationale and study design of a clinical trial to assess the effects of LDL apheresis on proteinuria in diabetic patients with severe proteinuria and dyslipidemia, *Clinical and Experimental Nephrology*, 22: 3; 591–596, 2018.
- 0330B010 Nakagawa N, Hasebe N, Hattori M, Nagata M, Yokoyama H, Sato H, Sugiyama H, Shimizu A, Isaka Y, Maruyama S, Narita I: Clinical features and pathogenesis of membranoproliferative glomerulonephritis: a nationwide analysis of the Japan renal biopsy registry from 2007 to 2015, *Clinical and Experimental Nephrology*, 22: 4; 797–807, 2018.
- 0330B011 Mukai K, Kuda Y, Shibamoto T, Tanida M, Kurata Y, Yokoyama H: Renal response to anaphylaxis in anesthetized rats and isolated perfused rat kidneys: roles of nitric oxide, *The Journal of Physiological Sciences*, 68: 5; 689–697, 2018.

- 0330B012 Okabayashi Y, Tsuboi N, Amano H, Miyazaki Y, Kawamura T, Ogura M, Narita I, Ninomiya T, Yokoyama H, Yokoo T: Distribution of nephrologists and regional variation in the clinical severity of IgA nephropathy at biopsy diagnosis in Japan: a cross-sectional study, *BMJ Open*, 8: 10; 1-8, 2018.

Case Reports

- 0330D001 Emi Kawakita, Keizo Kanasaki, Taro Hirai, Shin-ichi Tsuda, Ai Watanabe, Kyoko Nitta, Munehiro Kitada, Yoshio Ogura, Yuta Takagaki, Mizue Fujii, Takako Nagai, Keiji Shimada, Susumu Takagi, Yuiko Mizunuma, Itaru Monno, Shino Fujimoto, Hiroshi Minato, Nobuhiko Miyatake, Atsushi Nakagawa, Daisuke Koya: Severe electrolytes disorders with the interstitial kidney alterations in the patient with the history of total thyroidectomy and parathyroidectomy: possible role of vitamin D deficiency, *Clinical Case Reports*, 6: 6; 983-989, 2018.

Presentations at Conference

International Conference (Symposium)

- 0330H001 Hitoshi Sugiyama, Hiroshi Satoh, Akira Shimizu, Hitoshi Yokoyama: Japan renal biopsy registry(J-RBR):present and next 10years, The 7th Chronic Kidney Disease Frontier Meeting in Nagoya, Nagoya, 2018.
- 0330H002 Shoichi Maruyama, Takaya Ozeki, Hitoshi Yokoyama, Hitoshi Sugiyama, Akira Shimizu, Ichiei Narita, Hiroshi Sato: Japan kidney disease registry/Japan renal biopsy registry(J-KDR/J-RBR)-Past and future, The 7th Chronic Kidney Disease Frontier Meeting in Nagoya, Nagoya, 2018.

International Conference (Presentations)

- 0330I001 Hiroki Adachi, Kanae Nakayama, Yuki Matsui, Norifumi Hayashi, Keiji Fujimoto, Hideki Yamaya, Hitoshi Yokoyama: High-molecular-weight adiponectin inhibits the progression of vascular calcification and cardiovascular disease in Japanese renal allograft recipients, *ISN Frontiers Meetings 2018*, Tokyo, 2018.
- 0330I002 Nomura Kanae, Adachi Hiroki, Okada Keiichiro, Fujimoto Keiji, Yokoyama Hitoshi: High molecular weight adiponectin inhibits vascular calcification in renal allograft recipients, *The Annual of American Society of Nephrology*, San Diego, 2018.
- 0330I003 Hiromura Keiju, Ikeuchi Hidekazu, Sugiyama Hitoshi, Sato Hiroshi, Yokoyama Hitoshi, Nojima Yoshihisa: A Nationwide Analysis of Outcomes of Adult Lupus Nephritis in Japan, *The Annual of American Society of Nephrology*, San Diego, 2018.

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
Senior Assistant Professor	KONISHI Kazunori	diabetes, hypertension, arteriosclerotic disease
Assistant Professor	OGURA Yoshio	diabetes, endocrine, metabolism
Assistant Professor	NITTA Kyouko	diabetes
Assistant Professor	SHIMADA Keiji	diabetes, endocrine, metabolism
Assistant Professor	TAKAGAKI Yuta	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.

Books

- 0340A001 Keizo Kanasaki: Pathophysiology of preeclampsia Glucose intolerance and insulin resistance: relevance in preeclampsia, Comprehensive Gynecology and Obstetrics Preeclampsia Basic, Genomic, and Clinical (Shigeru Saito Editor), 85-98, Springer, Singapore, 2018.

Publications

Originals

- 0340B001 Qiongying Hu, Jinpeng Li, Kyoko Nitta, Munehiro Kitada, Takako Nagai, Keizo Kanasaki, Daisuke Koya: FGFR1 is essential for N-acetyl-seryl-aspartyl-lysyl-proline regulation of mitochondrial dynamics by upregulating microRNA let-7b-5p, *Biochemical and Biophysical Research Communications*, 495: 3; 2214–2220, 2018.
- 0340B002 Munehiro Kitada, Yoshio Ogura, Taeko Suzuki, Itaru Monno, Keizo Kanasaki, Ai Watanabe, Daisuke Koya: A low-protein diet exerts a beneficial effect on diabetic status and prevents diabetic nephropathy in Wistar fatty rats, an animal model of type 2 diabetes and obesity, *Nutrition & Metabolism*, 15: 20, 2018.
- 0340B003 (Miho Shimizu), Kengo Furuichi, Tadashi Toyama, Tomoaki Funamoto, Shinji Kitajima, Akinori Hara, Daisuke Ogawa, Daisuke Koya, Kenzo Ikeda, Yoshitaka Koshino, Yukie Kurokawa, Hideharu Abe, Kiyoshi Mori, Masaaki Nakayama, Yoshio Konishi, Ken-ichi Samejima, Masaru Matsui, Hiroyuki Yamauchi, Tomohito Gohda, Kei Fukami, Daisuke Nagata, Hidenori Yamazaki, Yukio Yuzawa, Yoshiki Suzuki, Shouichi Fujimoto, Shoichi Maruyama, Sawako Kato, Takero Naito, Kenichi Yoshimura, Hitoshi Yokoyama, Takashi Wada, Research Group of Diabetic Nephropathy, The Ministry of Health, Labour, and Welfare of Japan and Japan Agency for Medical Research and Development: Decline in estimated glomerular filtration rate is associated with risk of end-stage renal disease in type 2 diabetes with macroalbuminuria: an observational study from JDNCS, *Clinical and Experimental Nephrology*, 22: 2; 377–387, 2018.
- 0340B004 Jinpeng Li, Megumi Kanasaki, Ling Xu, Munehiro Kitada, Kenji Nagao, Yusuke Adachi, Hiroko Jinzu, Yasushi Noguchi, Miyuki Kohno, Keizo Kanasaki, Daisuke Koya: A ketogenic amino acid rich diet benefits mitochondrial homeostasis by altering the AKT/4EBP1 and autophagy signaling pathways in the gastrocnemius and soleus, *Biochimica et Biophysica Acta-General Subjects*, 1862: 7; 1547–1555, 2018.
- 0340B005 Susumu Takagi, Jinpeng Li, Yuta Takagaki, Munehiro Kitada, Kyoko Nitta, Toshiyuki Takasu, Keizo Kanasaki, Daisuke Koya: Ipragliflozin improves mitochondrial abnormalities in renal tubules induced by a high-fat diet, *Journal of Diabetes Investigation*, 9: 5; 1025–1032, 2018.
- 0340B006 Swayam Prakash Sirvastava, Jinpeng Li, Munehiro Kitada, Hiroki Fujita, Yuichiro Yamada, Julie E Goodwin, Keizo Kanasaki, Daisuke Koya: SIRT3 deficiency leads to induction of abnormal glycolysis in diabetic kidney with fibrosis, *Cell Death & Disease*, 9: 10: 997, 2018.
- 0340B007 (Yasuo Sasagawa), Yasuhiko Hayashi, Osamu Tachibana, Atsushi Nakagawa, Masahiro Oishi, Toshinari Takamura, Hideaki Iizuka, Mitsutoshi Nakada: Transsphenoidal Surgery for Elderly Patients with Acromegaly and Its Outcomes: Comparison with Younger Patients, *World Neurosurgery*, 118: e229–e234, 2018.
- 0340B008 Yoshio Ogura, Munehiro Kitada, Itaru Monno, Keizo Kanasaki, Ai Watanabe, Daisuke Koya: Renal mitochondrial oxidative stress is enhanced by the reduction of Sirt3 activity, in Zucker diabetic fatty rats, *Redox Report*, 23: 1; 153–159, 2018.

Reviews

- 0340C001 Keizo Kanasaki: The role of renal dipeptidyl peptidase-4 in kidney disease: renal effects of dipeptidyl peptidase-4 inhibitors with a focus on linagliptin, *Clinical Science*, 132: 4; 489–507, 2018.
- 0340C002 Munehiro Kitada, Yoshio Ogura, Itaru Monno, Daisuke Koya: A Low-Protein Diet for Diabetic Kidney Disease: Its Effect and Molecular Mechanism, an Approach from Animal Studies, *Nutrients*, 10: 5; 544, 2018.
- 0340C003 Munehiro Kitada, Daisuke Koya: How Should We Think About Diabetic Kidney Disease in the Current Clinical Setting?, *Journal of the Japan Diabetes Society*, 61: 8; 520–523, 2018.
- 0340C004 Asako Kumagai, Atsuo Itakura, Daisuke Koya, Keizo Kanasaki: AMP-Activated Protein (AMPK) in pathophysiology of Pregnancy Complications, *International journal of molecular sciences*, 19: 10; 3076, 2018.

- 0340C005 (Kent Doi), Osamu Nishida, Takashi Shigematsu, Tomohito Sadahiro, Noritomo Itami, Kunitoshi Iseki, Yukio Yuzawa, Hirokazu Okada, Daisuke Koya, Hideyasu Kiyomoto, Yugo Shibagaki, Kenichi Matsuda, Akihiko Kato, Terumasa Hayashi, Tomonari Ogawa, Tatsuo Tsukamoto, Eisei Noiri, Shigeo Negi, Koichi Kamei, Hirotsugu Kitayama, Naoki Kashihara, Toshiki Moriyama, Yoshio Terada, The Japanese Clinical Practice Guideline for Acute Kidney Injury 2016 Committee: The Japanese clinical practice guideline for acute kidney injury 2016, *Clinical and Experimental Nephrology*, 22: 5; 985–1045, 2018.

Case Reports

- 0340D001 Emi Kawakita, Keizo Kanasaki, Taro Hirai, Shin-ichi Tsuda, Ai Watanabe, Kyoko Nitta, Munehiro Kitada, Yoshio Ogura, Yuta Takagaki, Mizue Fujii, Takako Nagai, Keiji Shimada, Susumu Takagi, Yuiko Mizunuma, Itaru Monno, Shino Fujimoto, Hiroshi Minato, Nobuhiko Miyatake, Atsushi Nakagawa, Daisuke Koya: Severe electrolytes disorders with the interstitial kidney alterations in the patient with the history of total thyroidectomy and parathyroidectomy: possible role of vitamin D deficiency, *Clinical Case Reports*, 6: 6; 983–989, 2018.

Presentations at Conference

International Conference (Symposium)

- 0340H001 Keizo Kanasaki: Symposium 5: DKD and CVD: Clinical Combating DKD: From pathogenesis to treatment, International Society of Nephrology Frontiers Meetings, Tokyo, 2018.02.
- 0340H002 Daisuke Koya: Japan experience in managing older T2DM: role of DPP4i as the first line therapy, The 39th Annual Meeting of the Endocrine Society and the Diabetes Association of the R.O.C (Taiwan), Taipei, 2018.03.
- 0340H003 Daisuke Koya: Diabetes and kidney: from diabetologist's and nephrologist's view Growing challenge of diabetic nephropathy, The 39th Annual Meeting of the Endocrine Society and the Diabetes Association of the R.O.C (Taiwan), Taipei, 2018.03.
- 0340H004 Daisuke Koya: Impact of metabolic abnormalities on diabetic kidney Regulating autophagy as a therapeutic target for diabetes nephropathy, EASD 2018 BERLIN, Berlin, 2018.10.

International Conference (Presentations)

- 0340I001 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Atg5 deficiency in endothelial cells contributes to the development of endothelial to mesenchymal transition and kidney fibrosis associated with the induction of IL-6, ISN Frontiers Meetings 2018, Tokyo, 2018.
- 0340I002 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Atg5 deficiency in endothelial cells contributes to the development of endothelial to mesenchymal transition and kidney fibrosis associated with the induction of IL-6, Asian Pacific Congress of Nephrology 2018, Beijing, 2018.
- 0340I003 Yuiko Mizunuma, Kyoko Nitta, Susumu Takagi, Keizo Kanasaki, Daisuke Koya: Backcross db gene into CD-1 background results in novel type 2 diabetic mouse model with progressive kidney fibrosis, The 78th Scientific Sessions of The American Diabetes Association, Orland, 2018.
- 0340I004 Yoshio Ogura, Munehiro Kitada, Itaru Monno, Ai Watanabe, Daisuke Koya: Renal mitochondrial oxidative stress induced by NAD⁺-dependent Sirt3 inactivation via overexpression of CD38 (NAD⁺ase) in diabetic kidney disease, The 78th Scientific Sessions of The American Diabetes Association, Orland, 2018.
- 0340I005 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Dipeptidyl peptidase-4 inhibition may accelerate cancer metastasis via SDF-1/CXCR4 pathway dependent epithelial mesenchymal transition, 2018 Asia Islet Biology & Incretin Symposium (AIBIS), 2018.
- 0340I006 Yoshio Ogura, Munehiro Kitada, Itaru Monno, Daisuke Koya: Overexpression of CD38 (NADase) in diabetic kidney disease results in renal mitochondrial oxidative stress and pathologies via NAD⁺-dependent Sirt3 inactivation, EASD 2018 BERLIN, Berlin, 2018.

0340I007 (Fang Liz Zhou), Hirotaka Watada, Yuki Tajima, Mathilde Berthelot, Dian Kang, Cyril Esnault, Yujin Shuto, Hiroshi Maegawa, Daisuke Koya: Compare renal function preservation outcome of SGLT2 inhibitor vs DPP4 inhibitor in patients with type 2 diabetes: a retrospective cohort study of japanese commercial database with advanced analytics approach, ISPOR Europe 2018, Barcelona, 2018.

0350 Department of Hematology and Immunology

Faculty

Title	Name	Field of Specialization
Professor	MASAKI Yasufumi	Hematology and Immunology, Transfusion Medicine
Professor	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
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	FUJITA Yoshimasa	Rheumatology, Immunology
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	HASHIZUME Chieko	Hematology and Immunology
Assistant Professor	NAGAYA Shingo	Hematology and Immunology
Assistant Professor (Additional Post)	KAWANAMI Haruka	Hematology and Immunology

Keywords of Research

Sjogren's syndrome, malignant lymphoma, stem cell, chemotherapy, leukemia cell line, apoptosis, chemokines, rheumatoid arthritis, systemic lupus erythematosus, TAFRO syndrome, Cattleman'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) Proteomics analysis.
 - (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 Sjogren's syndrome.
- 5, Clinical study for patients with intractable aggressive lymphomas.
- 6, Analysis of iron metabolism in hematological disorders.

Publications

Originals

- 0350B001 (Shinsuke Iida), Masashi Wakabayashi, Kunihiro Tsukasaki, Kenichi Miyamoto, Dai Maruyama, Kazuhito Yamamoto, Yoshifusa Takatsuka, Shigeru Kusumoto, Junya Kuroda, Kiyoshi Ando, Yoshitaka Kikukuwa, Yasufumi Masaki, Miki Kobayashi, Ichiro Hanamura, Hiroaki Asai, Hirokazu Nagai, Kazuyuki Shimada, Norifumi Tsukamoto, Yoshiko Inoue, Kensei Tobinai: Bortezomib plus dexamethasone vs thalidomide plus dexamethasone for relapsed or refractory multiple myeloma, *Cancer Science*, 109: 5; 1552–1561, 2018.
- 0350B002 (Naoto Tomita), Masahiro Yokoyama, Wataru Yamamoto, Reina Watanabe, Yutaka Shimazu, Yasufumi Masaki, Saburo Tsunoda, Chizuko Hashimoto, Kayoko Murayama, Takahiro Yano, Rumiko Okamoto, Ako Kikuchi, Kazuo Tamura, Kazuya Sato, Kazutaka Sunami, Hirohiko Shibayama, Rishu Takimoto, Rika Ohshima, Hiromichi Takahashi, Yukiyoishi Moriuchi, Tomohiro Kinoshita, Masahide Yamamoto, Ayumi Numata, Hideaki Nakajima, Ikuo Miura, Kengo Takeuchi: The standard international prognostic index for predicting the risk of CNS involvement in DLBCL without specific prophylaxis, *Leukemia & Lymphoma*, 59: 97–104, 2018.
- 0350B003 Shino Fujimoto, Tomohiro Koga, Atsushi Kawakami, Hiroshi Kawabata, Shinichiro Okamoto, Masao Mizuki, Shingo Yano, Makoto Ide, Kazuko Uno, Katsumi Yagi, Toshiyuki Kojima, Minoru Mizutani, Yukihiro Tokumine, Norihiro Nishimoto, Hiroshi Fujiwara, Shin-ichi Nakatsuka, Kazuko Shiozawa, Noriko Iwaki, Yasufumi Masaki, Kazuyuki Yoshizaki: Tentative diagnostic criteria and disease severity classification for Castleman disease: A report of the research group on Castleman disease in Japan, *Modern Rheumatology*, 28: 1; 161–167, 2018.
- 0350B004 (Yoko Egami), Yuta Narushima, Motohiro Ohshima, Akira Yoshida, Naruki Yoneta, Yasufumi Masaki, Kunihiko Itoh: Human recombinant Fab fragment from combinatorial libraries of a B-cell lymphoma patient recognizes core protein of chondroitin sulphate proteoglycan 4, *The Journal of Biochemistry*, 163: 1; 61–68, 2018.
- 0350B005 Hiroshi Kawabata: The mechanisms of systemic iron homeostasis and etiology, diagnosis, and treatment of hereditary hemochromatosis, *International Journal of Hematology*, 107: 31–43, 2018.
- 0350B006 Caroline H Shiboski, Alan N Baer, Stephen C Shiboski, Mi Lam, Stephen Challacombe, Hector E Lanfranchi, Morten Schiødt, Penelope Shirlaw, Muthiah Srinivasan, Hisanori Umehara, Frederick B Vivino, Esen Akpek, Vatinee Bunya, Cristina F Vollenweider, John S Greenspan, Troy E Daniels, Lindsey A Criswell, for the Sjögren's International Collaborative Clinical Alliance (SICCA) Research Groups: Natural History and Predictors of Progression to Sjögren's Syndrome Among Participants of the Sjögren's International Collaborative Clinical Alliance Registry, *Arthritis care & research*, 70: 2; 284–294, 2018.
- 0350B007 Masaya Okada, Jun Imagawa, Hideo Tanaka, Hirohisa Nakamae, Masayuki Hino, Kazunori Murai, Yoji Ishida, Takashi Kumagai, Seiichi Sato, Kazuteru Ohashi, Hisashi Sakamaki, Hisashi Wakita, Nobuhiko Uoshima, Yasunori Nakagawa, Yosuke Minami, Masahiro Ogasawara, Tomoharu Takeoka, Hiroshi Akasaka, Takahiko Utsumi, Naokuni Uike, Tsutomu Sato, Sachiko Ando, Kentuke Usuki, Syuichi Mizuta, Satoshi Hashino, Testuhiko Nomura, Masato Shikami, Hisashi Fukutani, Yokiko Ohe, Hiroshi Kosugi, Hiroshiko Shibayama, Yasuhiro Maeda, Toshihiro Fukushima, Hirohito Yamazaki, Kasuo Tsubaki, Toshimasa Kukita, Yoko Adachi, Toshiki Nataduka, Hiroto Sakoda, Hisayuki Yokoyama, Takahiro Okamoto, Yukari Shirasugi, Yasushi Onishi: Final 3-year Results of the Dasatinib Discontinuation Trial in Patients With Chronic Myeloid Leukemia Who Received Dasatinib as a Second-line Treatment, *Clinical Lymphoma, Myeloma & Leukemia*, 18: 5; 353–360, 2018.
- 0350B008 (Naohiro Sugita), Hiroshi Tanaka, Hidehiro Satou, Toshihiko Hutaki, Makiko Miyamoto, Sinitiro Yoneda, Aya Okamoto, Yo Taniguchi, Ikue Yamasita, Makoto Nitta, Masaki Komori, Shintaro Shiobara, Shuichi Kikuchi, Akiyoshi Takami, Hirohito Yamazaki, Yasufumi Masaki: Activities of the Ishikawa prefectural joint committee of blood transfusion therapy – Appropriate use of albumin products, educational activities and role of pharmacists–, *Japanese Journal of Social Pharmacy*, 37: 1; 2–8, 2018.
- 0350B009 Nozomu Kurose, Chizuru Futatsuya, Ken-Ichi Mizutani, Motona Kumagai, Akihiro Shioya, Xin Guo, Akane Aikawa, Satoko Nakada, Shino Fujimoto, Hiroshi Kawabata, Yasufumi Masaki, Kazue Takai, Sadao Aoki, Masaru Kojima, Shigeo Nakamura, Sohsuke Yamada: The clinicopathological comparison among nodal cases of idiopathic multicentric Castleman disease with and without TAFRO syndrome, *Human pathology*, 77: 130–138, 2018.
- 0350B010 (Kenta Masuda), Shuichi Shiga, Hiroshi Kawabata, Akifumi Takaori-Kondo, Satoshi Ichiyama, Yasuhiko Kamikubo: PAS positivity of erythroid precursor cells is associated with a poor prognosis in newly diagnosed myelodysplastic syndrome patients, *International Journal of Hematology*, 108: 1; 30–38, 2018.

- 0350B011 Hiroshi Kawabata: Transferrin receptors and iron metabolism, *Journal of Kazawawa Medical University*, 43: 2; 33-40, 2018.
- 0350B012 (Yoshihiro Hatta), Shuichi Mizuta, Keitaro Matsuo, Shigeki Ohtake, Masako Iwanaga, Isamu Sugiura, Noriko Doki, Heiwa Kanamori, Yasunori Ueda, Chikamasa Yoshida, Nobuaki Dobashi, Tomoya Maeda, Toshiaki Yujiri, Fumihiko Monma, Yoshikazu Ito, Fumihiko Hayakawa, Jin Takeuchi, Hitoshi Kiyoi, Yasushi Miyazaki, Tomoki Naoe: Final analysis of the JALSG Ph+ALL202 study: tyrosine kinase inhibitor-combined chemotherapy for ph+ALL, *Annals of Hematology*, 97: 9; 1535-1545, 2018.
- 0350B013 Shuichi Mizuta, Masashi Sawa, Hisashi Tsurumi, Kana Matsumoto, Kotaro Miyao, Takeshi Hara, Takeshi Takahashi, Reona Sakemura, Hiroshi Kojima, Akio Kohno, Mari S Oba, Satoshi Morita, Junichi Sakamoto, Nobuhiko Emi: Plasma concentration of dasatinib have a clinical impact on the frequency of dasatinib dose reduction and interruption in chronic myeloid leukemia: an analysis of the DARIA 01 study, *International Journal of Clinical Oncology*, 23: 980-988, 2018.
- 0350B014 (Yu Akahoshi), Shuichi Mizuta, Hiroaki Shimizu, Naoyuki Uchida, Takahiro Fukuda, Heiwa Kanamori, Makoto Ninizuka, Yukiyasu Ozawa, Kazuteru Ohashi, Shuichi Ohta, Tetsuya Eto, Junji Tanaka, Yoshiko Atsuta, Shinichi Kato: Additional Cytogenetic Abnormalities with Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia on Allogeneic Stem Cell Transplantation in the Tyrosine Kinase Inhibitor Era, *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*, 24: 10; 2009-2016, 2018.
- 0350B015 (Akira Matsuda), Hiroshi Kawabata, Kaoru Tohyama, Tomoya Maeda, Kayano Araseki, Tomoko Hata, Takahiro Suzuki, Hidekazu Kayano, Kei Shimbo, Kensuke Usuki, Shigeru Chiba, Takayuki Ishikawa, Nobuyoshi Arima, Masaharu Nohgawa, Akiko Ohta, Yasushi Miyazaki, Sinnji Nakao, Keiya Ozawa, Shunya Arai, Mineko Kurokawa, Kinuko Mitani, Akifumi Takaori-Kondo: Interobserver concordance of assessments of dysplasia and blast counts for the diagnosis of patients with cytopenia: from the Japanese central review study, *Leukemia Research*, 74: 137-143, 2018.

Reviews

- 0350C001 Yasufumi Masaki, Shino Fujimoto, Nozomu Kurose, Tomoyuki Sakai, Haruka Kawanami (Iwao), Takafumi Kawanami, Yoshimasa Fujita, Shuichi Mizuta, Hiroshi Kawabata, Toshihiro Fukushima: Differential diagnoses among polyclonal hypergammopathies: IgG4-related disease, Multicentric Castleman disease, and other diseases, *The Official Journal of Japanese Society of Laboratory Medicine*, 66: 8; 898-907, 2018.

Case Reports

- 0350D001 Emi Kawakita, Keizo Kanasaki, Taro Hirai, Shin-ichi Tsuda, Ai Watanabe, Kyoko Nitta, Munehiro Kitada, Yoshio Ogura, Yuta Takagaki, Mizue Fujii, Takako Nagai, Keiji Shimada, Susumu Takagi, Yuiko Mizunuma, Itaru Monno, Shino Fujimoto, Hiroshi Minato, Nobuhiko Miyatake, Atsushi Nakagawa, Daisuke Koya: Severe electrolytes disorders with the interstitial kidney alterations in the patient with the history of total thyroidectomy and parathyroidectomy: possible role of vitamin D deficiency, *Clinical Case Reports*, 6: 6; 983-989, 2018.
- 0350D002 Hanako Tsurumi, Yoshihide Fujigaki, Tadashi Yamamoto, Risa Iino, Kei Taniguchi, Michito Nagura, Shigeyuki Arai, Yoshifuru Tamura, Tatsuru Ota, Shigeru Shibata, Fukuo Kondo, Nozomu Kurose, Yasufumi Masaki, Shunya Uchida: Remission of Refractory Ascites and Discontinuation of Hemodialysis after Additional Rituximab to Long-term Glucocorticoid Therapy in a Patient with TAFRO Syndrome, *Internal medicine*, 57: 10; 1433-1438, 2018.
- 0350D003 Miki Oono, Yoshimasa Fujita, Nobuaki Uchida, Ukichiro Kawai, Michiyo Fujita-Nakata, Megumi Nakanishi, Mitsuru Sanada, Shigemi Nagayama, Makoto Matsui: Rheumatoid meningitis developed in patient with stable rheumatoid arthritis and myasthenia gravis-detailed analysis of intracranial inflammation using flow cytometry, *Journal of Neuroinflammation*, 15: 1; 151-156, 2018.

Others

- 0350F001 (Kaori Nakanishi), Hideo Sato, Toshihiko Futagi, Hiroshi Tanaka, Ikue Yamashita, Makoto Nitta, Makiko Miyamoto, Shinichiro Yoneda, Marie Kawakami, Hiroki Yoshimura, Masaki Watanabe, Hirohito Yamazaki, Yasufumi Masaki: ISHIKAWA Prefectural committee of blood transfusion therapy: the of survey based of questionnaire for transfusion-associated infection test, *Japanese Journal of Transfusion and Cell Therapy*, 64: 1; 72-78, 2018.

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
Senior Assistant Professor	NAKANISHI Megumi	Clinical neurology, Neuroimmunology
Assistant Professor	FUJITA Michiyo	Clinical neurology
Assistant Professor	UCHIDA Nobuaki	Clinical neurology
Assistant Professor	KAWAI Ukichiro	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 (Katsuichi Miyamoto), Kazuo Fujihara, Jun-ichi Kira, Nagato Kuriyama, Makoto Matsui, Akiko Tamakoshi, Susumu Kusunoki: Nationwide epidemiological study of neuromyelitis optica in Japan, *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*, 89: 6; 667-668, 2018.
- 0360B002 Ukichiro Kawai, Nobuaki Uchida, Miki Oono, Michiyo Fujita-Nakata, Megumi Nakanishi, Mitsuru Sanada, Shigemi Nagayama, Makoto Matsui: Relationship of systemic inflammation and cellular immunity with advancement of cognitive decline in patients with Alzheimer's disease, *Clinical&Experimental Neuroimmunology*, 9: 3; 182-188, 2018.

Reviews

- 0360C001 (Masaaki Niino), Takashi Ohashi, Hirofumi Ochi, Ichiro Nakashima, Yuko Shimizu, Makoto Matsui: Japanese guidelines for dimethyl fumarate, *Clinical&Experimental Neuroimmunology*, 9: 4; 235-243, 2018.

Case Reports

- 0360D001 Miki Oono, Yoshimasa Fujita, Nobuaki Uchida, Ukichiro Kawai, Michiyo Fujita-Nakata, Megumi Nakanishi, Mitsuru Sanada, Shigemi Nagayama, Makoto Matsui: Rheumatoid meningitis developed in patient with stable rheumatoid arthritis and myasthenia gravis-detailed analysis of intracranial inflammation using flow cytometry, *Journal of Neuroinflammation*, 15: 1; 151-156, 2018.

Presentations at Conference

International Conference (Presentations)

- 03601001 Makoto Matsui: Recent Advances in Flow Cytometry Reveal Cellular Immune Dysregulation in MS and NMOSD, AMERICAN ACADEMY OF NEUROLOGY 2018 The 70th AAN Annual Meeting, Los Angeles, 2018.

0363 Department of Medical Oncology

Faculty

Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology
Professor	YASUMOTO Kazuo	Clinical Oncology, 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 Yuko Matsui, Ryoko Murayama, Hidenori Tanabe, Makoto Oe, Yoshiharu Motoo, Takanori Wagatsuma, Michiko Michibuchi, Sachiko Kinoshita, Keiko Sakai, Chizuko Konya, Junko Sugama, Hiromi Sanada: Factors associated with severe skin disorder after extravasation of intravenously infused antineoplastic agents, *Journal of Nursing Science and Engineering*, 5: 1; 31-40, 2018.
- 0363B002 (Lee JA), Sasaki Y, Arai I, Go HY, Park SJ, Yukawa K, Nam YK, Ko SG, Motoo Y, Tsutani K, Lee MS: An assessment of the use of complementary and alternative medicine by Korean people using an adapted version of the standardized international questionnaire (I-CAM-QK): a cross-sectional study of an internet survey, *BMC Complementary and Alternative Medicine*, 18: 238, 2018.
- 0363B003 Motoo Y: Ramucirumab plus paclitaxel: a possible new chemotherapy regimen for neuroendocrine carcinoma of the stomach, *Internal Medicine*, 57: 631-632, 2018.
- 0363B004 (Yukawa K), Ishikawa H, Yamazaki Y, Motoo Y, Arai I, Tutani K, Kiuchi T: Association between patients' communication motivation and physicians' past reactions/attitudes regarding complementary and alternative medicine use in Japan, *Jpn Pharmacol Ther*, 46: 7; 1213-1221, 2018.
- 0363B005 (Takeuchi T), Ichikura K, Amano K, Takeshita W, Hisamura K: The degree of social difficulties experienced by cancer patients and their spouses, *BMC Palliat Care*, 17: 1; 1-9, 2018.
- 0363B006 Hisamura K, Matsushima E, Tsukayama S, Murakami S, Motoo Y: An exploratory study of social problems experienced by ambulatory cancer patients in Japan: Frequency and association with perceived need for help, *Psychooncology*, 27: 7; 1704-1710, 2018.
- 0363B007 (Arai I), Hagiwara Y, Motoo Y: Estimated incidence of adverse reactions to Kampo medicines in randomized controlled clinical trials, *TRADITIONAL & KAMPO MEDICINE*, 5: 2; 106-112, 2018.

- 0363B008 Motoo Y, Yukawa K, Hisamura K, Arai I: Usability of the evidence-based Japanese Integrative Medicine information site: analysis with focus group discussion and internet survey on the general population, *Integr Med Res*, 7: 3; 238-247, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 0363G001 Y Motoo: Chemotherapy-induced peripheral neuropathy: a new approach, International Symposium of Integrative Medicine Research, Seoul, 2018.
- 0363G002 Motoo Y: Plenary Lecture **III**. Role of Kampo Medicine in the supportive care of cancer patients, 19th International Congress of Oriental Medicine, Taipei, 2018.

International Conference (Presentations)

- 0363I001 Y Motoo, K Yukawa, K Hisamura, I Arai: Usability of the evidence-based Japanese Integrative Medicine information site: Analysis with focus group discussion and internet survey on general population, 2018 International Congress on Integrative Medicine and Health, Baltimore, 2018.
- 0363I002 Y Motoo, M Hosaka, I Arai, Y Ishiura, T Ito, Y Seki, T Naito, Y Masuzawa, T Nakayama: Efficacy of traditional Japanese medicine (Kampo) in supportive care in cancer: a meta-analysis of randomized controlled trials, MASCC 2018, Vienna, 2018.

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	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 Daisuke Usuda, Yoshiki Furumura, Ryusho Sangen, Yu Hashimoto, Jun Kawamukai, Emiri Muranaka, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Iinuma, Tsugiyasu Kanda: Evaluation of B-type natriuretic peptide as prognostic marker in patients with pneumonia: An observational study, *Internal Medicine Review*, 4: 3; 1-28, 2018.
- 0366B002 Toshihiro Higashikawa, Masashi Okuro, Keiichirou Ishigami, Kunihiko Mae, Ryusho Sangen, Takuro Mizuno, Daisuke Usuda, Atushi Saito, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Shigeto Morimoto, Tsugiyasu Kanda: Procalcitonin and albumin as prognostic biomarkers in elderly patients with a risk of bacterial infection, *JOURNAL OF INTERNATIONAL MEDICAL RESEARCH*, 46: 7; 2606-2614, 2018.
- 0366B003 Toshihiro Higashikawa, Tomohiko Ito, Takuro Mizuno, Keiichirou Ishigami, Masaru Kohori, Kunihiko Mae, Ryusho Sangen, Daisuke Usuda, Atushi Saito, Masaharu Iguchi, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Tsugiyasu Kanda, Masashi Okuro: The effects of 12-month administration of tofogliflozin on electrolytes and dehydration in mainly elderly Japanese patients with type 2 diabetes mellitus, *JOURNAL OF INTERNATIONAL MEDICAL RESEARCH*, 46: 12; 5117-5126, 2018.
- 0366B004 Kumiko Kawamura, Kengo Hayashi, Nao Matsuo, Kazuki Kitaoka, Kouji Kimura, Jun-ichi Wachino, Takaaki Kondo, Yoshitsugu Iinuma, Nobuo Murakami, Shuhei Fujimoto, Yoshichika Arakawa: Prevalence of CTX-M-Type Extended-Spectrum β -Lactamase-Producing *Escherichia coli* B2-O25-ST131 H30R Among Residents in Nonacute Care Facilities in Japan, *Microbial Drug Resistance*, 24: 10; 1513-1520, 2018.

Reviews

- 0366C001 Yoshitsugu Iinuma: Procalcitonin(PCT) and Presepsin(P-SEP), *Rinsho Byori*, 66: 10; 1078-1086, 2018.

Case Reports

- 0366D001 Hideyuki Unou, Yuko Niki, Eri Yamada, Kae Kawamura, Yoshi Tanaka, Nobuyo Morita, Yoshitsugu Iinuma: A case of extreme decrease in urinary creatinine level caused by urinary bacteria, *Japanese Journal of Medical Technology*, 67: 2; 254-258, 2018.

- 0366D002 Daisuke Usuda, Yoshiki Furumura, Kento Takeshima, Ryusho Sangen, Yasuhiro Kawai, Yuji Kasamaki, Yoshitugu Iinuma, Tsugiyasu Kanda: Interleukin-18 as a diagnostic marker of adult-onset Still's disease in older patients: a case report and review of the literature, *Journal of medical case reports*, 12: 1; 198, 2018.
- 0366D003 Daisuke Usuda, Kento Takeshima, Ryusho Sangen, Kisuke Nakamura, Kei Hayashi, Hideyuki Okamura, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Iinuma, Hitoshi Saito, Tsugiyasu Kanda, Sachio Urashima: Atypical lipomatous tumor in the ligamentum teres of liver: A case report and review of the literature, *World Journal of Clinical Cases*, 6: 12; 548-553, 2018.

Presentations at Conference

International Conference (Presentations)

- 0366I001 Katsutaka Yonezawa, Masahito Kawaguchi, Ayumi Kaneuji, Norio Kawahara, Yoshitsugu Iinuma, Kazuhiro Shintani, Makoto Taki: Development of novel antimicrobial coating for orthopaedic implant with fluorine-added diamond-like carbon coating, ORS 2018 Annual Meeting, New Orleans, 2018.

0368 Department of General Internal Medicine

Faculty

Title	Name	Field of Specialization
Professor	KOBAYASHI Junji	Lifestyle-related disease, Diabetes, Laboratory medicine, General medicine
Professor	FURUTA Hisakazu	Sleep-wake disorders
Associate Professor	AKAZAWA Sumiyo	gender specific medicine, hypertension, molecular biology
Associate Professor	UENISHI Hiroaki	Cardiovascular Medicine
Associate Professor (Additional Post)	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Associate Professor	MORIYA Junji	General medicine, Kampo medicine
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 Kazuya Miyashita, Isamu Fukamachi, Manabu Nagao, Tatsuro Ishida, Junji Kobayashi, Tetsuo Machida, Kiyomi Nakajima, Masami murakami, Michael Ploug, Anne P Beigneux, Stephen G Young, Katsuyuki Nakajima: An enzyme-linked immunosorbent assay for measuring GPIIb/IIIa levels in human plasma or serum, *Journal of Clinical Lipidology*, 12: 203-210, 2018.
- 0368B002 Yuji Muraba, Takafumi Koga, Yohnosuke Shimomura, Yasuki Ito, Yuko Hirao, Junji Kobayashi, Takao Kimura, Katsuyuki Nakajima, Masami Murakami: The role of plasma lipoprotein lipase, hepatic lipase and GPIIb/IIIa in the metabolism of remnant lipoproteins and small dense LDL in patients with coronary artery disease, *CLINICA CHIMICA ACTA*, 476: 146-153, 2018.
- 0368B003 Jianhui Liu, Kunimasa Yagi, Atsushi Nohara, Daisuke Chujo, Azusa Ohbatake, Aya Fujimoto, Yukiko Miyamoto, Junji Kobayashi, Masakazu Yamagishi: High frequency of type 2 diabetes and impaired glucose tolerance in Japanese subjects with the angiotensin-like protein 8 R59W variant, *Journal of Clinical Lipidology*, 12: 331-337, 2018.
- 0368B004 Junji Kobayashi, Hiroaki Uenishi, Takanori Wagatsuma: Correlations of Visceral And Subcutaneous Fat Measured by the Dual Impedance Method to ALT, Serum Triglycerides, HbA1c: a Cross-Sectional Study, *JOURNAL OF HOSPITAL GENERAL MEDICINE*, 14: 6: 549-555, 2018.
- 0368B005 Sumiyo Akazawa, Yuki Fujimoto, Mio Sawada, Dan Takeno, Nobuo Yamaguchi: Fermented Herbal Decoction Improves a Performance Status of Skin Conditions by Reconstituting Peripheral Capillary, *EC Gynaecology*, 7: 8: 284-292, 2018.

- 0368B006 Kiyomi Nakajima, Tetsuo Machida, Shigeyuki Imamura, Daisuke Kawase, Kazuya Miyashita, Isamu Fukamachi, Masahiro Maeda, Yuji Muraba, Takafumi Koga, Junji Kobayashi, Takao Kimura, Katsuyuki Nakajima, Masami Murakami: An automated method for measuring lipoprotein lipase and hepatic triglyceride lipase activities in post-heparin plasma, CLINICA CHIMICA ACTA, 487: 54-59, 2018.

Presentations at Conference

International Conference (Presentations)

- 0368I001 Kobayashi J: Characteristics of lipid profile of lipoprotein lipase (LPL) deficiency in Japan –Comparison with non-LPL deficiency, The 23rd International society of Cardiovascular pharmacotherapy, Kyoto, 2018.
- 0368I002 (Kakuda H), Kobayashi j, Sakuraic M, Takekoshi N: Influences of withdrawal of SGLT2 inhibitor tofogliflozin on metabolic parameters –Comparison between on treatment and washout period–, The 23rd International society of Cardiovascular pharmacotherapy, Kyoto, 2018.

0370 Department of Geriatric Medicine

Faculty

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

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 Taroh Himeno, Tazuo Okuno, Keisuke Watanabe, Kumie Nakajima, Osamu Iritani, Hiroshi Yano, Takuro Morita, Yuta Igarashi, Masashi Okuro, Shigeto Morimoto: Range in systolic blood pressure and care-needs certification in long-term care insurance in community-dwelling older patients with chronic kidney disease, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 1; 293-306, 2018.
- 0370B002 Keisuke Watanabe, Masashi Okuro, Tazuo Okuno, Osamu Iritani, Hiroshi Yano, Taroh Himeno, Takuro Morita, Yuta Igarashi, Takeshi Nakahashi, Shigeto Morimoto: Comorbidity of chronic kidney disease, diabetes and lower glycated hemoglobin predicts support/care-need certification in community-dwelling older adults, Geriatrics & Gerontology International, 18: 4; 521-529, 2018.

- 0370B003 Toshihiro Higashikawa, Masashi Okuro, Keiichirou Ishigami, Kunihiro Mae, Ryusho Sangen, Takuro Mizuno, Daisuke Usuda, Atushi Saito, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Shigeto Morimoto, Tsugiyasu Kanda: Procalcitonin and albumin as prognostic biomarkers in elderly patients with a risk of bacterial infection, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 7; 2606-2614, 2018.
- 0370B004 Kenji Toyoshima, Atsushi Araki, Yoshiaki Tamura, Osamu Iritani, Sumito Ogawa, Koichi Kozaki, Satoru Ebihara, Haruo Hanyu, Hiroyuki Arai, Masafumi Kuzuya, Katsuya Iijima, Takashi Sakurai, Takao Suzuki, Kenji Toba, Hidenori Arai, Masahiro Akishita, Hiromi Rakugi, Koutaro Yokote, Hideki Ito, Shuichi Awata: Development of the Dementia Assessment Sheet for Community-based Integrated Care System 8-items, a short version of the Dementia Assessment Sheet for Community-based Integrated Care System 21-items, for the assessment of cognitive and daily functions, Geriatrics & Gerontology International, 18: 10; 1458-1462, 2018.
- 0370B005 Toshihiro Higashikawa, Tomohiko Ito, Takuro Mizuno, Keiichirou Ishigami, Masaru Kohori, Kunihiro Mae, Ryusho Sangen, Daisuke Usuda, Atsushi Saito, Masaharu Iguchi, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Tsugiyasu Kanda, Masashi Okuro: The effects of 12-month administration of tofogliflozin on electrolytes and dehydration in mainly elderly Japanese patients with type 2 diabetes mellitus, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 12; 5117-5126, 2018.

Presentations at Conference

International Conference (Presentations)

- 0370I001 Kunimitsu Iwai: Inflammatory signaling is activated in association with differential expression of lncRNAs in heart failure with preserved systolic function, Frontiers in Cardio Vascular Biology 2018, Vienna, 2018.
- 0370I002 Kunimitsu Iwai: Nucleostemin is prerequisite for Notch signaling and pro-inflammatory phenotype conversion of the endothelial cell in atherosclerosis, Frontiers in Cardio Vascular Biology 2018, Vienna, 2018.

0380 Department of Pediatrics

Faculty

Title	Name	Field of Specialization
Professor	SAIKAWA Yutaka	Pediatric hematology, Pediatric oncology
Associate Professor	NAKAMURA Tsuneyuki	Pediatric cardiology
Senior Assistant Professor	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	FUJIKI Takuma	Pediatric Nephrology
Senior Assistant Professor	OKADA Naoki	Pediatric hematology, Pediatric oncology
Senior Assistant Professor	KOBAYASHI Azusa	Neonatology
Senior Assistant Professor	NAKAMURA Toshimi	Pediatric allergy, Pediatric immunology
Assistant Professor	AKITA Chisato	Pediatric cardiology
Assistant Professor	OGURI Masato	Pediatric cardiology.
Assistant Professor	IKENO Kanjyu	Child neurology
Assistant Professor	OKAMOTO Nobuhiro	Pediatric cardiology
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 Minato H, Kobayashi E, Nakada S, Kurose N, Tanaka M, Tanaka Y, Suzuki S, Tanioka F, Saikawa Y, Miwa T, Nojima T: Sinonasal NUT carcinoma: clinicopathological and cytogenetic analysis with autopsy findings, HUMAN PATHOLOGY, 71: 157-165, 2018.
- 0380B002 Reiko Fujisawa, Naoki Okada, Yutaka Saikawa, Junko Hatta, Takashi Mochizuki: A case of infantile leukemia cutis, Journal of Pediatric Dermatology, 37: 1; 37-42, 2018.

0380B003 (Yoshiaki Nishiyama), Yutaka Saikawa, Nobuaki Nishiyama: Interaction between the immune system and acute myeloid leukemia: A model incorporating promotion of regulatory T cell expansion by leukemic cells, BIOSYSTEMS, 165: 99–105, 2018.

Case Reports

0380D001 Chisato Akita, Kazuhide Shimizu, Yuko Kittaka, Miwa Satomi, Toshimi Nakamura, Miyuki Kono, Yutaka Saikawa: Urgent tracheotomy for severe airway obstruction in a case of acute laryngotrachobronchitis(croup), 29: 1; 20–27, 2018.

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	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
Senior Assistant Professor	NAGASAWA Tatsuya	General hospital psychiatry, psychophysiology
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	YASUYAMA Toshiki	Psychiatry
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 cognitive-behavioural therapy for obsessive compulsive disorder
- 7.Study on music therapy for dementia
- 8.Study on repetitive transcranial magnetic stimulation for depression

Publications

Originals

- 0390B001 Naoki Hashimoto, Yoichi M Ito, Naohiro Okada, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Noriko Kudo, Ariyoshi Takemura, Shuraku Son, Hisashi Narita, Maeri Yamamoto, Khin Khin Tha, Asuka Katsuki, Kazutaka Ohi, Fumio Yamashita, Shinsuke Koike, Tsutomu Takahashi, Kiyotaka Nemoto, Masaki Fukunaga, Toshiaki Onitsuka, Yoshiyuki Watanabe, Hidenori Yamasue, Michio Suzuki, Kiyoto Kasai, Ichiro Kusumi, Ryota Hashimoto: The effect of duration of illness and antipsychotics on subcortical volumes in schizophrenia: Analysis of 778 subjects, *NeuroImage: Clinical*, 17: 563–569, 2018.
- 0390B002 (Daisuke Koshiyama), Masaki Fukunaga, Naohiro Okada, Fumio Yamashita, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Kazutaka Ohi, Haruo Fujino, Yoshiyuki Watanabe, Kiyoto Kasai, Ryota Hashimoto: Subcortical association with memory performance in schizophrenia: a structural magnetic resonance imaging study, 8: 1; 20, 2018.
- 0390B003 (Daisuke Koshiyama, Masaki Fukunaga, Naohiro Okada, Fumio Yamashita, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Kazutaka Ohi, Haruo Fujino, Yoshiyuki Watanabe, Kiyoto Kasai, Ryota Hashimoto: Role of subcortical structures on cognitive and social function in schizophrenia, *Scientific reports*, 8: 1183, 2018.
- 0390B004 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, *International Journal of Neuropsychopharmacology*, 22: 119–127, 2018.
- 0390B005 (Yukihisa Matsuda), Reiko Hashimoto, Sachko Takemoto, Yuka Yoshioka, Takashi Uehara, Yasuhiro Kawasaki: Educational benefits for nurses and nursing students of the dementia supporter training program in Japan, *PLOS ONE*, 13: 8; e0203232, 2018.
- 0390B006 (Chika Sumiyoshi), Haruo Fujino, Hidenaga Yamamori, Noriko Kudo, Hirotsugu Azechi, Michiko Fujimoto, Yuka Yasuda, Kazutaka Ohi, Tomiki Sumiyoshi, Ryota Hashimoto: Predicting work outcome in patients with schizophrenia: Influence of IQ decline, *Schizophrenia Research*, 201: 172–179, 2018.

Reviews

- 0390C001 (Yukihisa Matsuda), Kazutaka Ohi: Cortical gyrification in schizophrenia: current perspectives, *Neuropsychiatric Disease and Treatment*, 14: 1861–1869, 2018.
- 0390C002 (Masayoshi Kurachi), Tsutomu Takahashi, Tomiki Sumiyoshi, Takashi Uehara, Michio Suzuki: Early Intervention and a Direction of Novel Therapeutics for the Improvement of Functional Outcomes in Schizophrenia: A Selective Review, *frontiers in Psychiatry*, 19: 9; 39, 2018.
- 0390C003 Kazutaka Ohi, Chika Sumiyoshi, Haruo Fujino, Yuka Yasuda, Hidenaga Yamamori, Michiko Fujimoto, Tomoko Shiino, Tomiki Sumiyoshi, Ryota Hashimoto: Genetic Overlap between General Cognitive Function and Schizophrenia: A Review of Cognitive GWASs, *International Journal of Molecular Sciences*, 19: 12; 3822, 2018.

Case Reports

- 0390D001 Takamitsu Shimada, Kazutaka Ohi, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Cerebellar activation during a motor task in conversion disorder with motor paralysis: A case report and fMRI study, *Neuropsychopharmacology Reports*, 38: 1; 47–50, 2018.

Presentations at Conference

International Conference (Presentations)

- 0390I001 Kazutaka Ohi, Takamitsu Shimada, Kiyotaka Nemoto, Yuzuru Kataoka, Toshiki Yasuyama, Kohei Kimura, Hiroaki Okubo, Takashi Uehara, Yasuhiro Kawasaki: Cognitive Clustering in Schizophrenia Patients, their First-Degree Relatives and Healthy Subjects is Associated with Anterior Cingulate Cortex Volume, 6th Biennial Schizophrenia International Research Society Conference, Florence, 2018.
- 0390I002 Takamitsu Shimada, Kazutaka Ohi, Yuzuru Kataoka, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Differences in social functioning among schizophrenia patients, their first-degree relatives and healthy subjects, 31th The International College of Neuropsychopharmacology, Vienna, 2018.
- 0390I003 Yuzuru Kataoka, Kazutaka Ohi, Takamitsu Shimada, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Difference in executive function among with patients with schizophrenia, their first-degree relatives and healthy subjects, 31th The International College of Neuropsychopharmacology, Vienna, 2018.
- 0390I004 Aki Kuwata, Kazutaka Ohi, Takamitsu Shimada, Yuzuru Kataoka, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Psychosocial Quality of Life is differed among patients with schizophrenia, their first-degree relatives and healthy controls, 31th The International College of Neuropsychopharmacology, Vienna, 2018.
- 0390I005 Kazutaka Ohi, Chika Sumiyoshi, Haruo Fujino, Yuka Yasuda, Hidenaga Yamamori, Michiko Fujimoto, Tomiki Sumiyoshi, Ryota Hashimoto: A 1.5-year longitudinal study on social activity in schizophrenia, 31th The International College of Neuropsychopharmacology, Vienna, 2018.
- 0390I006 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 shizophrenia:A large cohort meta-analysis in a Japanese population, WFSBP2018KOBE, Kobe, 2018.
- 0390I007 Kazutaka Ohi: Smoking rates and number of cigarettes smoked per day in schizophrenia;A large cohort meta-analysis in a Japanese population., The 40th Annual Meeting of Japanese Society of Biological Psychiatry The 61st Annual Meeting of the Japanese Society for Neurochemistry, Kobe, 2018.

0400 Department of Radiology

Faculty

Title	Name	Field of Specialization
Professor	MATOBA Munetaka	Interventional Radiology, Diagnostic Imaging, Radiation therapy
Professor	WATANABE Naoto	Nuclear Medicine
Professor	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
Professor	MINAMI Tetsuya	Interventional Radiology
Senior Assistant Professor	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging
Senior Assistant Professor	DOAI Mariko	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	OISO Kazumasa	Diagnostic Imaging

Keywords of Research

MRI, MRS, CT, US, IVR, radiotherapy, RI, PET, BAI, lung cancer, perfusion, diffusion, FDG, MTC, radiosurgery, brachitherapy, 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 Takagi H, Sasagawa T, Shibata T, Minato H, Takahashi T: Association between 18F-fluorodeoxyglucose-PET/CT and grade of uterine endometrial carcinoma, *Taiwanese Journal of Obstetrics and Gynecology*, 57: 283-288, 2018.
- 0400B002 Katsuo Usuda, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Munetaka Matoba, Mariko Doai, Sohsuke Yamada, Yoshimichi Ueda, Hidetaka Uramoto: FDG-PET/CT and diffusion-weighted imaging for resected lung cancer: correlation of maximum standardized uptake value and apparent diffusion coefficient value with prognostic factors, *Medical oncology (Northwood, London, England)*, 35: 5; 66, 2018.
- 0400B003 Matoba M, Tsuji H, Shimode Y, Nagata H, Tonami H: Diagnostic Performance of Adaptive 4D Volume Perfusion CT for Detecting Metastatic Cervical Lymph Nodes in Head and Neck Squamous Cell Carcinoma, *AMERICAN JOURNAL OF ROENTGENOLOGY*, 211: 5; 1106-1111, 2018.

Presentations at Conference

International Conference (Presentations)

- 04001001 Usuda K, Iwai S, Funasaki A, Sekimura A, Motono N, Matoba M, Doai M, Yamada S, Ueda Y, Uramoto H: Diffusion-weighted imaging can differentiate pleural dissemination from malignant pleural mesothelioma emphysema or pleural effusion, International Cancer Imaging Society 18th Annual Teaching Course, Menton, 2018.
- 04001002 O.Tachibana, Y.Sasagawa, M.Doai, Y.Hayashi, H.Iizuka: The anatomical vascular risk management for the patients with pituitary adenoma during endonasal transsphenoidal surgery, The 2nd Meeting of China-Japan Neurosurgery Alliance, (The 10th China-Japan Friendship Neurosurgical Symposium) , Odawara, 2018.

0412 Department of Cardiovascular Surgery

Faculty

Title	Name	Field of Specialization
Professor	SAKAMOTO Shigeru	Cardiovascular Surgery
Professor	SHIKATA Hiroo	Vascular Surgery
Associate Professor	NAGAYOSHI Yasuhiro	Cardiovascular Surgery
Senior Assistant Professor	SAKAMOTO Daisuke	Cardiovascular Surgery
Assistant Professor	TANAKA Hirokazu	Cardiovascular Surgery
Assistant Professor	TSUCHIYA Hirokazu	Vascular 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

- 0412B001 Daisuke Sakamoto, Yasuhiro Nagayoshi, Takanao Ueyama, Kenji Kawakita, Nobuo Yamaguchi, Shigeru Sakamoto: Can acupuncture reduce a transcutaneous risk of infection? II; Non -Transcutaneous acupuncture recovered H FrEF, EC Cardiology, 51: 4; 192-195, 2018.
- 0412B002 Daisuke Sakamoto, Yuma Katoh, Yasuhiro Nagayoshi, Keiko Kawasaki, Nobuo Yamaguchi Shigeru Sakamoto: Qualitative Aspect of constitutive regulation by emotional hormone in air way inflammation, EC Paediatrics, 7: 985-996, 2018.
- 0412B003 Daisuke Sakamoto, Yuma Katoh, Yasuhiro Nagayoshi, Keiko Kawasaki, Nobuo Yamaguchi, Shigeru Sakamoto: Quantitative Aspect of Constitutive Regulation by Leucocyte Subsets in Air Way Inflammation, EC Paediatrics, 7: 974-984, 2018.

Case Reports

- 0412D001 Daisuke Skamamoto, Yasuhiro Nagatoshi, Shigeru Sakamoto: Emergency Surgical Treatment for Fungal Prosthetic Valve Endocarditis due ti Giant Vegetation, Japanese Journal of Cardiovascular Surgery, 47: 4; 162-165, 2018.
- 0412D002 Daisuke Sakamoto, Yasuhiro Nagayoshi, Shigeru Sakamoto: A case of a penetrating cardiac injury caused by a sewing needle, Journal of Kanazawa Medical University, 43: 3; 57-60, 2018.

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	
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 Nozomu Motono, Aika Funasaki, Atsushi Sekimura, Katsuo Usuda, Hidetaka Uramoto: Prognostic value of epidermal growth factor receptor mutations and histologic subtypes with lung adenocarcinoma, *Medical oncology* (Northwood, London, England), 35: 3; 22, 2018.
- 0415B002 Ryo Maeda, Aika Funasaki, Nozomu Motono, Atsushi Sekimura, Katsuo Usuda, Hidetaka Uramoto: Combined pulmonary fibrosis and emphysema predicts recurrence following surgery in patients with stage I non-small cell lung cancer, *Medical oncology* (Northwood, London, England), 35: 3; 31, 2018.
- 0415B003 Nozomu Motono, Sumiko Maeda, Ryumon Honda, Makoto Tanaka, Yuichiro Machida, Katsuo Usuda, Motoyasu Sagawa, Hidetaka Uramoto: Atmospheric temperature and pressure influence the onset of spontaneous pneumothorax, *The clinical respiratory journal*, 12: 2; 557-562, 2018.
- 0415B004 (Ke-Yong Wang), Sohsuke Yamada, Hiroto Izumi, Manabu Tsukamoto, Tamiji Nakashima, Takashi Tasaki, Xin Guo, Hidetaka Uramoto, Yasuyuki Sasaguri, Kimitoshi Kohno: Critical in vivo roles of WNT10A in wound healing by regulating collagen expression/synthesis in WNT10A-deficient mice, *PLoS One*, 13: 3; e0195156, 2018.
- 0415B005 (Motoyasu Sagawa), Hiroyuki Oizumi, Hiroyuki Suzuki, Hidetaka Uramoto, Katsuo Usuda, Akira Sakurada, Masayuki Chida, Satoshi Shiono, Jiro Abe, Tohru Hasumi, Masami Sato, Nobuyuki Sato, Jotaro Shibuya, Hiroyuki Deguchi, Yoshinori Okada: A prospective 5-year follow-up study after limited resection for lung cancer with ground-glass opacity, *European journal of cardio-thoracic surgery*, 53: 4; 849-856, 2018.
- 0415B006 Katsuo Usuda, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Munetaka Matoba, Mariko Doai, Sohsuke Yamada, Yoshimichi Ueda, Hidetaka Uramoto: FDG-PET/CT and diffusion-weighted imaging for resected lung cancer: correlation of maximum standardized uptake value and apparent diffusion coefficient value with prognostic factors, *Medical oncology* (Northwood, London, England), 35: 5; 66, 2018.
- 0415B007 Akihiro Shioya, Xin Guo, Nozomu Motono, Seiya Mizuguchi, Nozomu Kurose, Satoko Nakada, Akane Aikawa, Yoshitaka Ikeda, Hidetaka Uramoto, Sohsuke Yamada: The Combination Of Weak Expression Of PRDX4 And Very High MIB-1 Labelling Index Independently Predicts Shorter Disease-free Survival In Stage I Lung Adenocarcinoma, *International Journal of Medical Sciences*, 15: 1025-1034, 2018.
- 0415B008 Katsuo Usuda, Syun Iwai, Aika Funasaki, Atsushi Sekimura, Nozomu Motono, Yoshimitsu Ueda, Miyako Shimazaki, Hidetaka Uramoto: Expression and Prognostic Impact of VEGF, CD31 and alpha SMA in Resected Primary Lung Cancers, *ANTICANCER RESEARCH*, 38: 7; 4057-4063, 2018.
- 0415B009 Jing Zhang, Xin Guo, Taiji Hamada, Seiya Yokoyama, Yuka Nakamura, Jianbo Zheng, Nozomu Kurose, Yasuhito Ishigaki, Hideaki Uramoto, Akihito Tanimoto, Sohsuke Yamada: Protective Effects of Peroxiredoxin 4 (PRDX4) on Cholestatic Liver Injury, *Int J Mol Sci*, 19: 9; 2509, 2018.
- 0415B010 Fumihito Tanaka, Hiroyasu Yokomise, Toshinori Soejima, Hidetaka Uramoto, Takeharu Yamanaka, Kazuhiko Nakagawa, Nobuyuki Yamamoto, Yasumasa Nishimura, Hiroshi Niwa, Morihito Okada, Tatsuo Nakagawa, Motohiro Yamashita: Induction Chemoradiotherapy (50 Gy), Followed by Resection, for Stage IIIA-N2 Non-Small Cell Lung Cancer, *ANNALS OF THORACIC SURGERY*, 106: 4; 1018-1024, 2018.

Reviews

- 0415C001 Hidetaka Uramoto: What is the best drug as a front-line treatment for EGFR activating mutation?, *precision cancer medicine*, 1: 16; 1-6, 2018.

Case Reports

- 0415D001 Sekimura Atsushi, Funasaki Aika, Motono Nozomu, Usuda Katsuo, Uramoto Hidetaka, Yoshimatsu Takashi: Tension hemothorax caused by trauma, *The Journal of the Japanese Association for Chest Surgery*, 32: 4; 469-474, 2018.

- 0415D002 Iwai Shun, Funasaki Aika, Motono Nozomu, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: A case of neuroblastoma of the anterior mediastinum involving an adult, *The Journal of the Japanese Association for Chest Surgery*, 32: 5; 654–658, 2018.
- 0415D003 Atsushi Sekimura, Shun Iwai, Aika Funasaki, Nozomu Motono, Katsuo Usuda, Hidetaka Uramoto: Müllerian cyst in posterior mediastinum: A report of a case, *International journal of surgery case reports*, 49: 163–165, 2018.
- 0415D004 Motono Nozomu, Iwai Syun, Funasaki Aika, Sekimura Atsushi, Usuda Katsuo, Uramoto Hidetaka: Lung Adenosquamous Cell Carcinoma in which the Administration of Nivolumab Became Untenable due to Bleeding from Small Intestine Metastasis, *Kyobu geka. The Japanese journal of thoracic surgery*, 71: 11; 948–951, 2018.
- 0415D005 Nozomu Motono, Masahito Kawaguchi, Norio Kawahara, Hidetaka Uramoto: Case report of surgical treatment of scoliosis caused by neurofibroma located posterior mediastinum, *International journal of surgery case reports*, 53: 168–170, 2018.
- 0415D006 Atsushi Sekimura, Hidetaka Uramoto: Delayed hemothorax after a blunt trauma—A case report—, *The journal of the Japan Surgical Association*, 79: 11; 33–37, 2018.
- 0415D007 Hidetaka Uramoto, Nozomu Motono: ICG easily detects not only the segmental plane, but also the course and blood distribution of the bronchial artery“case report”, *Annals of medicine and surgery (2012)*, 28: 28–29, 2018.
- 0415D008 (Yoshika Nagata), Manabu Yoshioka, Hidetaka Uramoto, Yosuke Tsurudome, Sohsuke Yamada, Takeshi Hanagiri, Fumihiko Tanaka: Malignant Melanoma of the Nipple: A Case Report, *Journal of Breast Cancer*, 21: 1; 96–101, 2018.
- 0415D009 Nobuhiko Ueda, Yoritaka Fujii, Seiko Miura, Jun Fujita, Yasuto Tomita, Hideto Fujita, Shinichi Kinami, Takeo Kosaka, Katsuo Usuda, Hidetaka Uramoto: A case of sigmoid cancer with six asynchronistic metastases to multiple organs that were resected through four surgeries, *Japanese Journal of Cancer and Chemotherapy*, 45: 13; 2081–2083, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 0415G001 Uramoto Hidetaka: Salvage Thoracic Surgery for Primary Lung Cancer: Comparison with Induction therapy followed by surgery, 第4回大連肺癌学会及び第2回棒極島呼吸器外科学会, Dalian, 2018.08.

International Conference (Presentations)

- 0415I001 Usuda K, Iwai S, Funasaki A, Sekimura A, Motono N, Matoba M, Doai M, Yamada S, Ueda Y, Uramoto H: Diffusion-weighted imaging can differentiate pleural dissemination from malignant pleural mesothelioma emphysema or pleural effusion, *International Cancer Imaging Society 18th Annual Teaching Course*, Menton, 2018.10.

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
Associate Professor	KINAMI Shinichi	Surgical treatment of gastric cancer
Associate Professor	FUJITA Hideto	Surgical treatment of gastric cancer,
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	MIYATA Takashi	

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

Publications

Originals

- 0420B001 Nobuhiko Ueda, Seioko Miura, Toshio Ohnishi, Daisuke Kaida, Hideto Fujita, Shinichi Kinami, Takeo Kosaka: A clinical study of gallbladder torsion, Journal of Japan Biliary Association, 32: 1; 97-104, 2018.
- 0420B002 Shinichi Kinami, Masazumi Takahashi, Takashi Urushihara, Masami Ikeda, Masashi Yoshida, Yoshikazu Uenosono, Atsushi Oshio, Yoshimi Suzukamo, Masanori Terashima, Yasuhiro Koderu, Koji Nakada: Background factors influencing postgastrectomy syndromes after various types of gastrectomy, World Journal of Clinical Cases, 6: 16; 1111-1120, 2018.

Reviews

- 0420C001 Masakuni Noguchi, Yukako Ohno, Emi Morioka, Miki Noguchi, Yasuharu Nakano, Takeo Kosaka, Ken-ichi Shimada: A novel oncoplastic technique for breast cancer localized in the lower pole of the breast, *Journal of Surgical Oncology*, 177: 2; 137–141, 2018.

Case Reports

- 0420D001 Nobuhiko Ueda, Yoritaka Fujii, Seiko Miura, Jun Fujita, Yasuto Tomita, Hideto Fujita, Shinichi Kinami, Takeo Kosaka, Katsuo Usuda, Hidetaka Uramoto: A case of sigmoid cancer with six asynchronistic metastases to multiple organs that were resected through four surgeries, *Japanese Journal of Cancer and Chemotherapy*, 45: 13; 2081–2083, 2018.

Presentations at Conference

International Conference (Presentations)

- 0420I001 Shinichi Kinami, Yoritaka Fujii, Seiko Miura, Jun Fujita, Daisuke Kaida, Takashi Miyata, Yasuto Tomita, Naohiko Nakamura, Hideto Fujita, Nobuhiko Ueda, Takeo Kosaka: Proximal limited gastrectomy with short gastric tube reconstruction – A completely new surgical approach derived from sentinel node navigation, *The 10th International Sentinel Node Society Meeting*, Tokyo, 2018.10.
- 0420I002 Seiko Miura, Nobuhiko Ueda, Takeo Kosaka: Prognostic impact of nutritional supplementation for pancreatic cancer patients with cachexia at the time of cancer diagnosis, *11th International Conference on Cachexia, Sarcopenia & Muscle Wasting Innovation & Implementation*, Maastricht, 2018.12.

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	MATSUMOTO Tadami	Hip surgery
Professor	ICHISEKI Toru	Hip surgery, Shoulder surgery
Senior Assistant Professor	FUKUI Kiyokazu	Hip surgery
Senior Assistant Professor	HIROMURA Kentaro	Trauma
Senior Assistant Professor	KAWAGUCHI Masahito	Spinal surgery
Assistant Professor	ORITA Yugo	Spinal surgery, orthopaedic surgery
Assistant Professor	TAKAHASHI Eiji	Hip surgery
Assistant Professor	TACHI Yoshiyuki	Spinal surgery
Assistant Professor	SHIMIZU Yoshiaki	Spinal surgery
Assistant Professor	UEDA Shusuke	Hip surgery
Assistant Professor	SOMA Daisuke	Orthopaedic surgery
Assistant Professor	YONEZAWA Katsutaka	Orthopaedic surgery, Spinal surgery
Assistant Professor	TSUCHIYA Masanobu	Orthopaedic surgery, Hip surgery
Assistant Professor	SASAMOTO Takeshi	Orthopaedic surgery, Spinal 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 Toru Ichiseki, Miyako Shimasaki, Yoshimichi Ueda, Shusuke Ueda, Masanobu Tsuchiya, Daisuke Souma, Ayumi Kaneuji, Norio Kawahara: Intraarticularly-injected mesenchymal stem cells stimulate anti-inflammatory molecules and inhibit pain related protein and chondrolytic enzymes in a monoiodoacetate-induced rat arthritis model, *International Journal of Molecular Sciences*, 19: 203, 2018.
- 0430B002 Masanobu Tsuchiya, Toru Ichiseki, Shusuke Ueda, Yoshimichi Ueda, Miyako Shimazaki, Ayumi Kaneuji, Norio Kawahara: Mitochondrial stress and redox failure in steroid-associated osteonecrosis, *International Journal of Medical Sciences*, 15: 3; 205-209, 2018.
- 0430B003 (Masao Koda), Hideki Hanaoka, Takatoshi Sato, Yasuhisa Fujii, Michiko Hanawa, Sho Takahashi, Takeo Furuya, Yasushi Ijima, Junya Saito, Mitsuhiro Kitamura, Seiji Ohtori, Yukei Matsumoto, Tetsuya Abe, Kei Watanabe, Toru Hirano, Masayuki Ohashi, Hirokazu Shoji, Tatsuki Mizouchi, Ikuko Takahashi, Norio Kawahara, Masahito Kawaguchi, Yugo Orita, Takeshi Sasamoto, Masahito Yoshioka, Masafumi Fujii, Katsutaka Yonezawa, Daisuke Soma, Hiroshi Taneichi, Daisaku Takeuchi, Satoshi Inami, Hiroshi Moridaira, Haruki Ueda, Futoshi Asano, Yosuke Shibao, Ikuo Aita, Yosuke Takeuchi, Masaya Mimura, Jun Shimbo, Yukio Someya, Sumio Ikenoue, Hiroaki Sameda, Kan Takase, Yoshikazu Ikeda, Fumitake Nakajima, Mitsuhiro Hashimoto, Tomoyuki Ozawa, Fumio Hasue, Takayuki Fujiyoshi, Koshiro Kamiya, Masahiko Watanabe, Hiroyuki Katoh, Yukihiko Matsuyama, Yu Yamamoto, Daisuke Togawa, Tomohiko Hasegawa, Sho Kobayashi, Go Yoshida, Shin Oe, Tomohiro Banno, Hideyuki Arima, Koji Akeda, Eiji Kawamoto, Hiroshi Imai, Toshihiko Sakakibara, Akihiro Sudo, Yasuo Ito, Tsuyoshi Kikuchi, Shuhei Osaki, Nobuhiro Tanaka, Kazuyoshi Nakanishi, Naosuke Kamei, Shinji Kotaka, Hideo Baba, Tsuyoshi Okudaira, Hiroaki Konishi, Takayuki Yamaguchi, Keigo Ito, Yoshito Katayama, Taro Matsumoto, Tomohiro Matsumoto, Masaru Idota, Haruo Kanno, Toshimi Aizawa, Ko Hashimoto, Toshimitsu Eto, Takehiro Sugaya, Michiharu Matsuda, Kazunari Fushimi, Satoshi Nozawa, Chizuo Iwai, Toshihiko Taguchi, Tsukasa Kanchiku, Hidenori Suzuki, Norihiro Nishida, Masahiro Funaba, Masashi Yamazaki: Study protocol for the G-SPIRIT trial: a randomised, placebo-controlled, double-blinded phase III trial of granulocyte colony-stimulating factor-mediated neuroprotection for acute spinal cord injury, *BMJ open*, 8: e019083, 2018.
- 0430B004 (Ernest Wright), Federico Ricciardi, Mark Arts, Jacob M Buchowski, Chun Kee Chung, Maarten Coppes, Alan Crockard, Bart Depreitere, Michael Fehlings, Norio Kawahara, Chong Suh Lee, Yee Leung, Antonio Martin-Benloch, Eric Massicotte, Christian Mazel, Cumhuri Oner, Wilco Peul, Nasir Quraishi, Yasuaki Tokuhashi, Katsuro Tomita, Christian Ulbricht, Jorrit-Jan Verlaan, Mike Wang, David Choi: Metastatic spine tumor epidemiology: comparison of trends in surgery across two decades and three continents, *World Neurosurgery*, 114: e809-e817, 2018.
- 0430B005 Numata Y, Kaneuji A, Kerboull L, Takahashi E, Ichiseki T, Fukui K, Tsujioka J, Kawahara N: Biomechanical behaviour of a French femoral component with thin cement mantle, *Bone & Joint Research*, 7: 7; 485-493, 2018.
- 0430B006 (Takaki Shimizu), Hideki Murakami, Satoru Demura, Satoshi Kato, Katsuhito Yoshioka, Noriaki Yokogawa, Norio Kawahara, Katsuro Tomita, Hiroyuki Tsuchiya: Total en bloc spondylectomy for primary tumors of the lumbar spine, *Medicine*, 97: 37; e12366, 2018.
- 0430B007 (Vincent P Galea), Inari Laaksonen, Gabrielle S Donahue, Kiyokazu Fukui, Ayumi Kaneuji, Henrik Malchau, Charles Bragdon: Developmental dysplasia treated with cementless total hip arthroplasty utilizing high hip center reconstruction: a minimum 13-year follow-up study, *The Journal of Arthroplasty*, 33: 9; 2899-2905, 2018.
- 0430B008 (Bart Depreitere), Federico Ricciardi, Mark Arts, Laurent Balabaud, Jacob Maciej Buchowski, Cody Bunker, Chun Kee Chung, Maarten Hubert Coppes, Michael George Fehlings, Norio Kawahara, Chong-Suh Lee, YeeLing Leung, Juan Antonio Martin-Benloch, Eric Maurice Massicotte, Christian Mazel, Bernhard Meyer, Fetullah Cumhuri Oner, Wilco Peul, Nasir Quraishi, Yasuaki Tokuhashi, Katsuro Tomita, Christian Ulbricht, Jorrit Jan Verlaan, Michael Wang, Hugh Alan Crockard, David Choi: Loss of local tumor control after index surgery for spinal metastases: a prospective cohort study, *World Neurosurgery*, 117: e8-e16, 2018.
- 0430B009 (Mamoru Kawakami), Shigenobu Satoh, Yoshiharu Kawaguchi, Seiji Ohtori, Hiroshi Miyamoto, Hideki Nagashima, Ryoji Yamasaki, Motoki Iwasaki, Takeshi Fujii, Hiroaki Konishi, Hideki Shigematsu, Hiroshi Yamada, Norio Kawahara: Factors influencing selection of operative method for degenerative lumbar spondylolisthesis : prospective multicenter study of AOSpine Asia Pacific, *Journal of Spine Research*, 9: 10; 1531-1536, 2018.

- 0430B010 (Chisato Matsumoto), Mayumi Kato, Ayumi Kaneuji, Kiyokazu Fukui, Eiji Takahashi, Tomoko Hiramatsu, Yoshimi Taniguchi: Pre- and post-surgery gait self-assessments and the psychosocial aspects of female hip osteoarthritis patients: comparison of total hip arthroplasty patients and spherical periacetabular osteotomy patients, *Journal of Japan Academy of Nursing Science*, 38: 309–317, 2018.
- 0430B011 (David Choi), Federico Ricciardi, Mark Arts, Jacob M Buchowski, Cody Bunker, Chun Kee Chung, Maarten Coppes, Bart Depreitere, Michael Fehlings, Norio Kawahara, Yee Leung, Antonio Martin-Benloch, Eric Massicotte, Christian Mazel, Bernhard Meyer, Cumhuri Oner, Wilco Peul, Nasir Quraishi, Yasuaki Tokuhashi, Katsuro Tomita, Christian Ulbricht, Jorrit-Jan Verlaan, Mike Wang, Alan Crockard: Prediction accuracy of common prognostic scoring systems for metastatic spine disease: results of a prospective international multicentre study of 1469 patients, *Spine*, 43: 1678–1684, 2018.

Reviews

- 0430C001 Ayumi Kaneuji, Tadami Matsumoto, Norio Kawahara: Basic and clinical research on artificial hip implants and future prospects, *Journal of Kanazawa Medical University*, 43: 1; 9–14, 2018.

Case Reports

- 0430D001 Nozomu Motono, Masahito Kawaguchi, Norio Kawahara, Hidetaka Uramoto: Case report of surgical treatment of scoliosis caused by neurofibroma located posterior mediastinum, *International journal of surgery case reports*, 53: 168–170, 2018.
- 0430D002 Toru Ichiseki, Shusuke Ueda, Daisuke Souma, Miyako Shimasaki, Yoshimichi Ueda, Norio Kawahara: Reverse shoulder arthroplasty for primary synovial osteochondromatosis of the shoulder with massive rotator cuff tear and marked degenerative arthropathy, *Journal of Clinical Medicine*, 7: 8; 189, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 0430G001 Ayumi Kaneuji, Eiji Takahashi, Kiyokazu Fukui, Toru Ichiseki, Tadami Matsumoto, Norio Kawahara: Acetabular osteotomy for patients with hip dysplasia: a long-term result of rotational acetabular osteotomy and a novel minimally invasive osteotomy, *The 28th Japanese-Korean Combined Orthopaedic Symposium, Gifu, 2018.06.*
- 0430G002 Norio Kawahara: Preservation or ligation of spinal arteries in multisegmental en bloc excisions: an (un)necessary compromise?, *5th International Spine Tumor Days, Dresden, 2018.06.*

International Conference (Presentations)

- 0430I001 Kiyokazu Fukui, Ayumi Kaneuji, Tadami Matsumoto, Norio Kawahara: The Natural history of contralateral hips in patients undergoing unilateral rotational acetabular osteotomy: a follow up at minimum 20 years (mean 25 years), *AAOS 2018 Annual Meeting, New Orleans, 2018.03.*
- 0430I002 Katsutaka Yonezawa, Masahito Kawaguchi, Ayumi Kaneuji, Norio Kawahara, Yoshitsugu Inuma, Kazuhiro Shintani, Makoto Taki: Development of novel antimicrobial coating for orthopaedic implant with fluorine-added diamond-like carbon coating, *ORS 2018 Annual Meeting, New Orleans, 2018.03.*
- 0430I003 (Vincent Galea), Inari Laaksonen, Gabrielle Donahue, Kiyokazu Fukui, Ayumi Kaneuji, Charles Bragdon, Henrik Malchau: Cementless total hip arthroplasty with high hip center reconstruction for developmental dysplasia: a minimum 13-years study, *19th EFORT Congress 2018, Barcelona, 2018.05.*
- 0430I004 Kiyokazu Fukui, Ayumi Kaneuji, Toru Ichiseki, Eiji Takahashi, Tadami Matsumoto, Norio Kawahara: The natural history of contralateral hips in patients who underwent unilateral rotational, *The 28th Japanese-Korean Combined Orthopaedic Symposium, Gifu, 2018.06.*

- 0430I005 Ayumi Kaneuji, Eiji Takahashi, Yuhei Numata, Kiyokazu Fukui, Toru Ichiseki, Norio Kawahara: A novel minimally invasive spherical periacetabular osteotomy through the teardrop area with a 7-centimeter anterior approach in acetabular dysplasia, 19th EFORT Congress 2018, Barcelona, 2018.06.
- 0430I006 Kiyokazu Fukui, Ayumi Kaneuji, Toru Ichiseki, Eiji Takahashi, Yuhei Numata, Norio Kawahara: New radiological indexes for accurate diagnosis of borderline acetabular dysplasia, 19th EFORT Congress 2018, Barcelona, 2018.06.
- 0430I007 Eiji Takahashi, Ayumi Kaneuji, Toru Ichiseki, Kiyokazu Fukui, Yuhei Numata, Norio Kawahara: Primary total hip arthroplasty in patients with perthes-like deformities without shortening femoral osteotomy using a conical modular stem, 19th EFORT Congress 2018, Barcelona, 2018.06.
- 0430I008 Yuhei Numata, Ayumi Kaneuji, Eiji Takahashi, Ryoji Tsuda, Norio Kawahara: Biomechanical behavior of french femoral components with thin cement mantle- the "French Paradox" may not be a paradox after all, 19th EFORT Congress 2018, Barcelona, 2018.06.
- 0430I009 Kiyokazu Fukui, Ayumi Kaneuji, Tadami Matsumoto, Norio Kawahara: Natural history of borderline acetabular dysplasia -at a mean 25 years follow-up on contralateral hips in patients who underwent unilateral rotational acetabular osteotomy, ISHA 2018 (International Society for Hip Arthroscopy), Melbourne, 2018.10.
- 0430I010 Eiji Takahashi, Ayumi Kaneuji, Kenichi Hirosaki, Masahiro Takano, Yuhei Numata, Kazuhiro Shintani, Norio Kawahara: The influence of stem occupation ratio on stem subsidence and cement creep. -a biomechanical study using a collarless polished tapered stem-, ISTA 2018 (International Society for Technology in Arthroplasty), London, 2018.10.

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	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 (Hayashi Y), Aida Y, Sasagawa Y, Oishi M, Kita D, Tachibana O, Ueda F, Nakada M: Delayed occurrence of diabetes insipidus after transsphenoidal surgery with radiologic evaluation of the pituitary stalk on magnetic resonance imaging, *World Neurosurgery*, 110: e1072–e1077, 2018.
- 0440B002 (Masahiro Oishi), Yasuhiko Hayashi, Yasuo Sasagawa, Daisuke Kita, Osamu Tachibana, Mitsutoshi Nakada: Outcome of diabetes insipidus in patients with Rathke's cleft cysts, *Clinical Neurology and Neurosurgery*, 167: 141–146, 2018.
- 0440B003 Hiromi Sakata-Haga, Maimi Uchishiba, Hiroki Shimada, Tsuyoshi Tsukada, Mayumi Mitani, Tomohiro Arikawa, Hiroki Shoji, Toshihisa Hatta: A rapid and nondestructive protocol for whole-mount bone staining of small fish and Xenopus, *SCIENTIFIC REPORTS*, 8: 7453, 2018.
- 0440B004 (Yasuo Sasagawa), Yasuhiko Hayashi, Osamu Tachibana, Atsushi Nakagawa, Masahiro Oishi, Toshinari Takamura, Hideaki Iizuka, Mitsutoshi Nakada: Transsphenoidal Surgery for Elderly Patients with Acromegaly and Its Outcomes: Comparison with Younger Patients, *World Neurosurgery*, 118: e229–e234, 2018.

Case Reports

- 0440D001 Kenichi Mizutani, Satoko Nakada, Akira Tamase, Osamu Tachibana, Hideaki Iizuka, Takanori Hirose, Sohsuke Yamada: Meningioma with Remarkable Multiple Rosette Formation: A Diagnostically Difficult Case, *Journal of Medical & Surgical Pathology*, 3: 4; 169, 2018.

Presentations at Conference

International Conference (Presentations)

- 0440I001 O.Tachibana, Y.Sasagawa, M.Doai, Y.Hayashi, H.Iizuka: The anatomical vascular risk management for the patients with pituitary adenoma during endonasal transsphenoidal surgery, *The 2nd Meeting of China-Japan Neurosurgery Alliance, (The 10th China-Japan Friendship Neurosurgical Symposium)*, Odawara, 2018.11.
- 0440I002 T Tsukada, H Sakagami, H Shimada, S Takata, H Sakata-Haga, H Iizuka, H Shoji, T Hatta: Leukemia inhibitory factor signaling and STAT3 phosphorylation at Ser727 in fetal mouse brain development, *Neuroscience 2018*, San Diego, 2018.11.
- 0440I003 H Sakagami, T Tsukada, H Sakata-Haga, H Shimada, K Miura, H Wang, T Arikawa, S Takata, H Shoji, H Hatta: Administration of maternal leukemia inhibitory factor induces Nkx.2.1 in the ventral cerebrum of fetal mice, *Neuroscience 2018*, San Diego, 2018.11.

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	SOGAWA Akiko	Plastic and Reconstructive Surgery
Assistant Professor	HAMA Naoko	Plastic and Reconstructive Surgery
Assistant Professor	HIGASHIYAMA Maiko	Plastic and Reconstructive Surgery
Assistant Professor	YOSHIDA Chikako	Plastic and Reconstructive Surgery
Assistant Professor	IGAWA Yuichi	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 Toru Miyanaga, Yasuo Haseda, Haruhisa Daizo, Masanobu Yamashita, Akiko Yamashita, Miyuki Kishibe, Kennichi Shimada: A Perifascial Areolar Tissue Graft With Topical Administration of Basic Fibroblast Growth Factor for Treatment of Complex Wounds With Exposed Tendons and/or Bones, *The Journal of Foot and Ankle Surgery*, 57: 1; 104-110, 2018.

Reviews

- 0450C001 Masakuni Noguchi, Yukako Ohno, Emi Morioka, Miki Noguchi, Yasuharu Nakano, Takeo Kosaka, Ken-ichi Shimada: A novel oncoplastic technique for breast cancer localized in the lower pole of the breast, *Journal of Surgical Oncology*, 177: 2; 137-141, 2018.
- 0450C002 Toru Miyanaga, Yoshimichi Ueda, Aiko Miyanaga, Mikio Yagishita, Naoko Hama: Angiogenesis after administration of basic fibroblast growth factor induces proliferation and differentiation of mesenchymal stem cells in elastic perichondrium in an in vivo model: mini review of three sequential republication-bridged reports, *Cellular and Molecular Biology Letters*, 23: 49, 2018.

Presentations at Conference

International Conference (Symposium)

- 0450H001 K.Shimada: Wounds management by NPWT: useful tips and case series sharing, Annual Meeting of Chinese Burn Association 2018, Huzhou, 2018.10.

International Conference (Presentations)

- 0450I001 T.Miyanaga, M.Kishibe, M.Yamashita, T.Kaneko, K.Shimada: A perifascial areolar tissue graft with administration of basic fibroblast growth factor for treatment of wounds with exposed tendon and/or bones, the 14th Korea-Japan Congress of Plastic and Reconstructive Surgery, Korea, 2018.06.
- 0450I002 K.Shimada, M.Kishibe, M.Yagishita: T Lateral Zig-Zag Incision Approach of Reverse Digital Artery Island Flap, the 14th Korea-Japan Congress of Plastic and Reconstructive Surgery, Korea, 2018.06.
- 0450I003 M.Yagishita, T.Miyanaga, D.Kobayashi, M. Kishibe, K.Shimada: Treatment of chronic radiation ulcer with fat grafting: a clinical report of two cases , the 14th Korea-Japan Congress of Plastic and Reconstructive Surgery, Korea, 2018.06.
- 0450I004 K.Shimada: The Lateral Zig-Zag Incision Approach of Reverse Digital Artery Island Flap, Plastic Surgery The Meeting 2018, Chicago, 2018.09.

0460 Department of Pediatric Surgery

Faculty

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

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 0460B001 Nishida S, Yoshizaki H, Yasui Y, Kuwahara T, Kiyokawa E, Kohno M: Collagen VI suppresses fibronectin-induced enteric neural crest cell migration by downregulation of focal adhesion proteins, *Biochemical and Biophysical Research Communications*, 495: 1; 1461-1467, 2018.
- 0460B002 Jinpeng Li, Megumi Kanasaki, Ling Xu, Munehiro Kitada, Kenji Nagao, Yusuke Adachi, Hiroko Jinzu, Yasushi Noguchi, Miyuki Kohno, Keizo Kanasaki, Daisuke Koya: A ketogenic amino acid rich diet benefits mitochondrial homeostasis by altering the AKT/4EBP1 and autophagy signaling pathways in the gastrocnemius and soleus, *Biochimica et Biophysica Acta-General Subjects*, 1862: 7; 1547-1555, 2018.

Case Reports

- 0460D001 Chisato Akita, Kazuhide Shimizu, Yuko Kittaka, Miwa Satomi, Toshimi Nakamura, Miyuki Kono, Yutaka Saikawa: Urgent tracheotomy for severe airway obstruction in a case of acute laryngotracheobronchitis(croup), *Japanese Journal of Pediatric Pulmonology*, 29:1;20-27, 2018.

- 0460D002 T Shironomae, M Satomi, T Kuwahara, Y Yasui, M Kohno: Congenital duodenal and multiple jejunal atresia with malrotation in a patient with Down syndrome, *Congenital Anomalies*, 58:71-72, 2018.
- 0460D003 Miwa Satomi, Kaori Kido, Kiyokuni Nakamura, Tsubasa Shironomae, Tsuyoshi Kuwahara, Yoshitomo Yasui, Miyuki Kohno: A Case of Rectal Stenosis Successfully Treated by Transanal Cikatrectomy, *Journal of the Japanese Society of Pediatric Surgeons*, 54:5:1145-1149, 2018.
- 0460D004 Tsuyoshi Kuwahara, Miyuki Kohno, Yoshitomo Yasui, Miwa Satomi, Kiyokuni Nakamura, and Miori Kido: A Case of Accessory Spleen Torsion With Preoperative Diagnosis in a Child, *Journal of the Japanese Society of Pediatric Surgeons*, 54:6:1226-1230, 2018.

Presentations at Conference

International Conference (Presentations)

- 0460I001 H.Yoshizaki, Y.Ling, M.Kohno, S.Okuda: Genome-Wide Analysis of Single Nucleotide Variants on Phosphorylation, *Experimental Biology 2018*, San Diego California, 2018.

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

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 precious and simple technique for diagnosis of Sjogren's syndrome using proteomics of tears is under development. Clinical research for diagnosis and treatment for ophthalmic infective diseases is also underway. And for 5), ocular dynamics of eye drops, effectiveness and toxicity of eye drops, and a new method for measuring corneal damage in vivo are all being investigated.

Publications

Originals

- 0470B001 Masamichi Fukuda, Shinsuke Shibata, Naoko Shibata, Nobuyuki Fujita, Hisanori Miyashita, Naoki Tanimura, Hidetoshi Ishida, Eri Kubo, Hiroshi Sasaki: Polyvinyl alcohol-iodine induced corneal epithelial injury in vivo and its protection by topical rebamipide treatment, *PLOS ONE*, 13: 11; e0208198, 2018.
- 0470B002 Yukihiro Koyama, Kazuko Kiagawa, Kenta Hagihara, Shinsuke Shibata, Hiroshi Sasaki: Antibacterial Resistance of *Corynebacterium* sp. Detected from Dul-de-sac Before Ocular surgeries, 2005~2016, *Journal of the Eye*, 35: 11; 1536-1539, 2018.
- 0470B003 (Bhavana Chhunchha), Prerna Singh, Dharendra P. Singh, Eri Kubo: Ginkgolic Acid Rescues Lens Epithelial Cells from Injury Caused by Redox Regulated-Aberrant Sumoylation Signaling by Reviving Prdx6 and Sp1 Expression and Activities, *International Journal of Molecular Sciences*, 19:1-26, 2018.
- 0470B004 (Bhavana Chhunchha), Eri Kubo, Prerna Singh, Dharendra P Singh: Sumoylation-deficient Prdx6 repairs aberrant Sumoylation-mediated Sp1 dysregulation-dependent Prdx6 repression and cell injury in aging and oxidative stress, *AGING*, 10:9;2284-2315, 2018.
- 0470B005 Caroline H Shiboski, Alan N Baer, Stephen C Shiboski, Mi Lam, Stephen Challacombe, Hector E Lanfranchi, Morten Schiødt, Penelope Shirlaw, Muthiah Srinivasan, Hisanori Umehara, Frederick B Vivino, Esen Akpek, Vatinee Bunya, Cristina F Vollenweider, John S Greenspan, Troy E Daniels, Lindsey A Criswell, for the Sjögren's International Collaborative Clinical Alliance (SICCA) Research Groups: Natural History and Predictors of Progression to Sjögren's Syndrome Among Participants of the Sjögren's International Collaborative Clinical Alliance Registry, *Arthritis care & research*, 70: 2; 284-294, 2018.
- 0470B006 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, *Mechanisms of Ageing and Development*, 171:24-30, 2018.
- 0470B007 Masami Kojima, Yukihiisa Suzuki, Kensuke Sasaki, Masao Taki, Kanako Wake, Soichi Watanabe, Maya Mizuno, Takafumi Tasaki, Hiroshi Sasaki: Ocular Effects of Exposure to 40, 75, and 95 GHz Millimeter Waves, *Journal of Infrared, Millimeter, and Terahertz Waves*, 39:9:912-925, 2018.
- 0470B008 Eri Kubo, Teppei Shibata, Dharendra P Singh, Hiroshi Sasaki: Roles of TGF β and FGF Signals in the Lens : Tropomyosin Regulation for Posterior Capsule Opacity, *International Journal of Molecular Sciences*, 19:3093, 2018.

Reviews

- 0470C001 Hiroshi Sasaki: Cataract, *Nippon Rinsho*, 76: 7; 178-182, 2018.

Presentations at Conference

International Conference (Symposium)

- 0470H001 Eri Kubo: Sulforaphane Reactivates Cellular Antioxidant Defense, ISER 2018, Ireland, 2018.09.

International Conference (Presentations)

- 0470I001 Naoko Shibata, Shinsuke Shibata, Hidetoshi Ishida, Etsuko kiyokawa, Hiroshi Sasaki, Eri Kubo: Effect of UVB exposure on expression of MMP9 inhuman pterygium fibroblasts, *The Association for Research in Vision and Ophthalmology*, Honolulu, 2018.04.

- 0470I002 Shinsuke Shibata, Naoko Shibata, Teppei Shibata, Hidetoshi Ishida, Etsuko Kiyokawa, Hiroshi Sasaki, Eri Kubo: Expression of proteoglycan decorin in opacified posterior capsule and its suppression by TGF β in mouse lens epithelial cells, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I003 Eri Shibuya, Mai Kita, Teppei Shibata, Hasanori Miyashita, Naoki Tanimura, Natsuko Hatsusaka, Norihiro Mita, Eri Kubo, Hiroshi Sasaki: Ten-year follow-up of eyes with waterclefts in Monzen Eye Study, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I004 Eri Kubo, Teppei Shibata, Etsuko Kiyokawa, Masahito Ikawa, Dharendra P. Singh, Hiroshi Sasaki: Tropomyosin is required for normal Lens development and differentiation, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I005 Hisanori Miyashita, Natsuko Hatsusaka, Hiromi Osada, Teppei Shibata, Naoki Tanimura, Hidetoshi Ishida, Yutaka Kawakami, Norihiro Mita, Eri Kubo, Hiroshi Sasaki: Risk factors for waterclefts in human crystalline lens, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I006 Hiroshi Sasaki, Hidetoshi Ishida, Aya Ii, Mai Kita, Yusuke Seki, Naoko Shibata, Hisanori Miyashita, Eri Shibuya, Norihiro Mita, Eri Kubo: Accuracy of new postoperative ACD prediction formula using anterior segment OCT, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I007 (Dhirendra P. Singh), Bhavana Chhunchha, Gunho Won, Eri Kubo: Ginkgolic Acid Inhibits Aberrant Sumoylation-Mediated Dysregulation of Prdx6 and Sp1 to Protect Lens Epithelial Cells against Oxidative Injury, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I008 (Bhavana Chhunchha), Eri Kubo, Dharendra P. Singh: Prdx6 Delivery Increases lens Epithelial Cell Survival during Oxidative Stress by Reactivating Sp1-Prdx6 Transcription, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 0470I009 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Yoshinori Tatematu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source, BioEM2018, Slovenia, 2018.06.
- 0470I010 (Yukihisa Suzuki), Takafumi Tasaki, Masami Kojima: Visualization and quantification of temperature distributions due to the millimeter wave exposure with micro-chromic liquid crystals, PIERS 2018, Toyama, 2018.08.
- 0470I011 Hiroshi Sasaki, Maiko Kita, Naoko Shibata, Shinsuke Shibata, Hidetoshi Ishida, Eri Kubo: Postoperative visual acuity estimation of extended-depth-of-focus intraocular lens by novel fellow eye self-tuning (FEST) method, ESCRS, VIENNA, 2018.09.
- 0470I012 Naoko Shibata, Ayako Takayama, Eri Shibuya, Hiroshi Sasaki: Influence of incision malposition and toric intraocular lens axis misalignment on surgically-induced astigmatism, ESCRS, VIENNA, 2018.09.

0475 Department of Otorhinolaryngology

Faculty

Title	Name	Field of Specialization
Professor	MIWA Takaki	Otorhinolaryngology
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	YAMAMOTO Junpei	General otorhinolaryngology, Olfactory disorders
Assistant Professor	KINOSHITA Yuko	Otorhinolaryngology
Assistant Professor	INAGAKI Shingo	General otorhinolaryngology
Assistant Professor	YAMADA Kentaro	General otorhinolaryngology
Assistant Professor	HARITA Masayuki	General otorhinolaryngology
Assistant Professor	NAKAMURA Yukari	General otorhinolaryngology
Assistant Professor	ISHIKURA Tomoko	General otorhinolaryngology

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 Minato H, Kobayashi E, Nakada S, Kurose N, Tanaka M, Tanaka Y, Suzuki S, Tanioka F, Saikawa Y, Miwa T, Nojima T: Sinonasal NUT carcinoma: clinicopathological and cytogenetic analysis with autopsy findings, HUMAN PATHOLOGY, 71: 157-165, 2018.

Reviews

0475C001 K.Okamoto, K.Kyoda, M.Tsubokawa, K.Irie, T.Miwa, K.Kagechika: Estimate of swallowing ability of acute stroke patients with estimate model of Fujishima dysphagia gradin, Deglutition, 7: 2; 273-278, 2018.

0475C002 Takaaki Miwa: Olfactory function tests, Journal of Japan Association on Odor Environment, 49: 6; 363-369, 2018.

Presentations at Conference

International Conference (Presentations)

- 0475I001 H.Shiga, K.Washiyama, M.Kumai, T.Miwa: The change of nasal thallium transport with modulation of olfactory bulb interneuron, 19th Congress of the International Rhinologic Society, London, 2018.04.
- 0475I002 K.Yamada, M.Kumai, T.Ishikura, Y.Nakamura, T.Noda, H.Ninomiya, H.Shiga, T.Miwa: Gender Differences and Influences to Olfactory Nerve Regeneration by Ovariectomy in Mice, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, 2018.04.
- 0475I003 Y.Nakamura, H.Ninomiya, H.Shiga, T.Miwa: Promoting the Neuron Neogenesis in the Brain by Nasal Administration of IGF-1, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, 2018.04.
- 0475I004 T.Noda, H.Shiga, K.Yamada, T.Miwa: Effects of Herbal Medicine on Regeneration of Olfactory Neurons in Mice, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, UK, 2018.04.
- 0475I005 T.Miwa, K.Yamada, T.Noda, M.Harita, H.Shiga: Gender differences and influences to olfactory nerve regeneration by ovariectomy in mice, Association for chemoreception Science 2018, Bonita Springs, Florida, USA, 2018.04.
- 0475I006 T.Miwa: Effects of Japanese traditional medicine (Kampo) in postinfectious olfactory dysfunction, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, 2018.04.

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	NODA Takuya	Head and neck surgery
Assistant Professor	KISHIMOTO Kazuhiro	Head and neck surgery
Assistant Professor	KAWAKAMI Osamu	Head and neck surgery
Assistant Professor	TAKAOKA Yuki	Head and neck surgery

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 Matoba M, Tsuji H, Shimode Y, Nagata H, Tonami H: Diagnostic Performance of Adaptive 4D Volume Perfusion CT for Detecting Metastatic Cervical Lymph Nodes in Head and Neck Squamous Cell Carcinoma, AMERICAN JOURNAL OF ROENTGENOLOGY, 211: 5; 1106-1111, 2018.

Presentations at Conference

International Conference (Presentations)

- 0485I001 T.Miwa, K.Yamada, T.Noda, M.Harita, H.Shiga: Gender differences and influences to olfactory nerve regeneration by ovariectomy in mice, Association for chemoreception Science 2018, Bonita Springs, Florida, 2018.04.
- 0485I002 K.Yamada, M.Kumai, T.Ishikura, Y.Nakamura, T.Noda, H.Ninomiya, H.Shiga, T.Miwa: Gender Differences and Influences to Olfactory Nerve Regeneration by Ovariectomy in Mice, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, 2018.04.
- 0485I003 T.Noda, H.Shiga, K.Yamada, T.Miwa: Effects of Herbal Medicine on Regeneration of Olfactory Neurons in Mice, 27th Congress of the European Rhinologic Society, 37th Congress of the International Society of Inflammation and Allergy of the Nose and 19th Congress of the International Rhinologic Society, London, 2018.04.

0490 Department of Dermatology

Faculty

Title	Name	Field of Specialization
Professor	MOCHIZUKI Takashi	Medical mycology, Dermatromycosis
Associate Professor	NISHIBU Akiko	Immunology
Senior Assistant Professor	TAKEDA Kiminobu	Medical mycology
Senior Assistant Professor	FUJII Toshiki	Dermatopathology
Assistant Professor	ANZAWA Kazushi	Medical mycology
Assistant Professor	USHIGAMI Tsuyoshi	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 Reiko Fujisawa, Naoki Okada, Yutaka Saikawa, Junko Hatta, Takashi Mochizuki: A case of infantile leukemia cutis, *Journal of Pediatric Dermatology*, 37: 1; 37-42, 2018.
- 0490B002 Sakata Y, Ushigami T, Anzawa K, Mochizuki T: Molecular epidemiology of *Trichophyton tonsurans*, the causative dermatophyte of the epidemic of tinea gladiatorum in Japan between 2011 and 2015, *Japanese Journal of Infectious Diseases*, 71: 140-144, 2018.

Case Reports

- 0490D001 (Kimura H), Mitsuto I, Taguchi R, Anzawa K, Mochizuki T: Primary cutaneous aspergillosis caused by *Aspergillus tamaris* in a premature infant with extremely low birth weight: A case report with mini review, *The Journal of Dermatology*, 45: 622-625, 2018.

- 0490D002 (Yanagihara M), Makino T, Shimizu T, Mochizuki T: Nerve alteration showing autophagy in 2 patients with lichen aureus, *Journal of Cutaneous Pathology*, 45: 423–427, 2018.
- 0490D003 T.Ushigami, T.Fujii, K.Anzawa, T.Mochizuki, M.Shiotani: Cutaneous phaeohyphomycosis caused by *Phaeoacremonium parasiticum* in a patient with liver failure, *Skin research*, 16: 5; 322–327, 2018.
- 0490D004 Yuichi Sakata, Fumiaki Taga, Tsuyoshi Ushigami, Kiminobu Takeda, Kazushi Anzawa, Akiko Nishibu, Takashi Mochizuki: A case of cutaneous mycosis caused by *Scedosporium dehoogii* on an immunocompromised patient, *Mycopathologia*, 183: 465–470, 2018.

Short Communications

- 0490E001 (Saito A), Okiyama N, Hitomi S, Anzawa K, Mochizuki T, Fujimoto M: Successful treatment of cutaneous phaeohyphomycosis caused by *Exophiala lecanii-corni* with voriconazole, *The Journal of Dermatology*, 45: e271–e272, 2018.
- 0490E002 (Higasa M), Uno R, Uno T, Yamada S, Anzawa K: Case of feline Sino-orbital Aspergillosis due to *Aspergillus felis*, *Journal of the Japan Veterinary Medical Association*, 71: 649–653, 2018.
- 0490E003 Takeda K, Anzawa K, Mochizuki T, Yamada S, Kobayashi H, Kimura S: Infant case of tinea faciei caused by *Microsporum canis*, *The Journal of Dermatology*, 45: e187–e188, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 0490G001 T.Mochizuki: Trends in the management of dermatophytoses, 25th Annual meeting of Korean Society for Medical Mycology, Seoul, 2018.06.

International Conference (Symposium)

- 0490H001 T.Mochizuki, K.Takeda, K.Anzawa: Molecular epidemiology of dermatophytoses using molecular markers, Congress of International Society for Human and Animal Mycology 2018, Amsterdam, 2018.06.
- 0490H002 T.Mochizuki: Morphological approach to dermatomycoses, 7th Joint meeting of The Japanese Society for Skin Structure Research (SSSR) and The Society for Cutaneous Ultrastructure Research(SCUR), Asahikawa, 2018.10.
- 0490H003 T.Mochizuki: Problems and prospects in training professionals to manage dermatomycoses in Japan. The 6th Continental Congress of Dermatology, The 44th Annual Meeting of Taiwanese Dermatological Association, Taipei, 2018.11.
- 0490H004 T.Mochizuki: Molecular diagnosis and epidemiology of dermatophytosis., The 6th Continental Congress of Dermatology The 44th Annual Meeting of Taiwanese Dermatological Association, Taipei, 2018.11.

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
Senior Assistant Professor	MORITA Nobuyo	general urology
Assistant Professor	SUGA Koudai	general urology
Assistant Professor	INOUE Shinya	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

Keywords of Research

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

Outline of Research

clinical research on renal transplantation, mechanism of urolithiasis

Publications

Case Reports

- 0500D001 Hideyuki Unou, Yuko Niki, Eri Yamada, Kae Kawamura, Yoshi Tanaka, Nobuyo Morita, Yoshitsugu Inuma: A case of extreme decrease in urinary creatinine level caused by urinary bacteria, Japanese Journal of Medical Technology, 67: 2; 254-258, 2018.
- 0500D002 Yusuke Nakazawa, Nobuyo Morita, Ippei Chikazawa, Katsuhito Miyazawa: Ureterosciatic hernia treated with ureteral stent placement, BMJ Case Reports, 2017-222908, 2018.

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
Senior Assistant Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine, gynecologic oncology
Senior Assistant Professor (Additional Post)	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	SHIBATA Takeo	perinatal medicine, reproductive medicine
Assistant Professor	OSAKA Yasuhiro	perinatal medicine
Assistant Professor	SAKAMOTO Jinichi	perinatal medicine, reproductive medicine

Keywords of Research

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

Outline of Research

<Reproductive Endocrinology>
(Ovarian function and Cytokines)
Mechanism of luteolysis regulated by IL-6
Mechanism of ovulation regulated by G-CSF and its clinical application
(Water transport in the female genital tract)
Mechanism of aquaporin water channels in the ovary and oviduct
(Ovulatory process and Ovarian blood flow)
Prediction of ovulation using ovarian blood flow measurement

<Perinatology>
(Mechanism of Labor pains)
Relation between labor pains and G-CSF, and its clinical application for the prediction of premature labor
(Prenatal diagnosis for Fetus)
New method for fetal diagnosis using ultrasonography
Retrospective analysis for fetal MRI findings, compared with pathological and neonatal diagnosis
(Prognostic factor for early pregnant loss)
Analysis for hCG, Progesterone and G-CSF as prognostic factor for early pregnant loss

Publications

Originals

- 0510B001 Takakura M, Matsumoto T, Nakamura M, Mizumoto Y, Myojyo S, Yamazaki R, Iwadare J, Bono Y, Orisaka S, Obata T, Iizuka T, Kagami K, Nakayama K, Hayakawa H, Sakurai F, Mizuguchi H, Urata Y, Fujiwara T, Kyo S, Sasagawa T, Fujiwara H: Detection of circulating tumor cells in cervical cancer using a conditionally replicative adenovirus targeting telomerase-positive cells, Cancer science, 109: 231-240, 2018.

- 0510B002 Takagi H, Sakamoto J, Osaka Y, Shibata T, Fujita S, Sasagawa T: Usefulness of the maximum standardized uptake value for the diagnosis and staging of patients with cervical cancer undergoing positron emission tomography/computed tomography, *Medicine*, 97: 7; e9856, 2018.
- 0510B003 Takagi H, Sasagawa T, Shibata T, Minato H, Takahashi T: Association between 18F-fluorodeoxyglucose-PET/CT and grade of uterine endometrial carcinoma, *Taiwanese Journal of Obstetrics and Gynecology*, 57: 283-288, 2018.
- 0510B004 Sasagawa T, Maehama T, Osaka Y, Sakamoto J, Shibata T, Fujita S, Takakura M: Comparison of the digene hybrid capture 2 and Roche cobas 4800 HPV tests for detection of CIN2+ in a referral population in Japan, *Journal of medical virology*, 90: 5; 972-980, 2018.
- 0510B005 Mitsuaki Okodo, Kaori Okayama, Koji Teruya, Toshiyuki Sasagawa: Uniplex E6/E7 PCR method detecting E6 or E7 genes in 39 human papillomavirus types, *Journal of medical virology*, 90: 5; 981-988, 2018.
- 0510B006 Takagi H, Sakamoto J, Osaka Y, Shibata T, Fujita S, Sasagawa T: Utility of 18F-fluorodeoxyglucose-positron emission tomography in the differential diagnosis of benign and malignant gynaecological tumours, *Journal of medical imaging and radiation oncology*, 62: 471-479, 2018.
- 0510B007 Sakamoto J, Kamiura S, Okayama K, Okodo M, Shibata T, Osaka Y, Fujita S, Takata E, Takagi H, Takakura M, Sasagawa T: Single type infection of human papillomavirus as a cause for high-grade cervical intraepithelial neoplasia and invasive cancer in Japan, *Papillomavirus Res*, 6: 46-51, 2018.

Case Reports

- 0510D001 Takagi H, Takata E, Sakamoto J, Fujita S, Takakura M, Sasagawa T: Malignant Transformation of an Ovarian Endometrioma during Endometriosis Treatment: A Case Report, *Case reports in obstetrics and gynecology*, 4: 6210172, 2018.

0520 Department of Anesthesiology and Perioperative Medicine

Faculty

Title	Name	Field of Specialization
Professor	TSUCHIDA Hideaki	Cardiovascular effects of anesthetics
Senior Assistant Professor	OGAWA Masao	Clinical anesthesia, Palliative medicine
Senior Assistant Professor	KIDA Hiromasa	Clinical anesthesia, Pediatric anesthesia, Shock
Senior Assistant Professor	HONMA Keiko	Clinical anesthesia, Palliative medicine
Assistant Professor	ARAKI Hideharu	Clinical anesthesia
Assistant Professor	TAKANO Mami	Clinical anesthesia
Assistant Professor	TANAKA Yasunori	Clinical anesthesia
Assistant Professor	TAKAHARA Asami	Clinical anesthesia
Assistant Professor	KANEKO Yuriko	Clinical anesthesia
Assistant Professor	MORIKAWA Takanori	Clinical anesthesia
Assistant Professor	YAMAOKA Yuko	Clinical anesthesia, Palliative medicine
Assistant Professor	UEDA Keiko	Clinical anesthesia
Assistant Professor	MATUBA Sho	Clinical anesthesia
Assistant Professor	MIYAJIMA Saki	Clinical anesthesia
Assistant Professor	OGAWA Miho	Clinical anesthesia

Keywords of Research

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

Outline of Research

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

Presentations at Conference

International Conference (Key Note Lecture)

0520G001 Tsuchida H: Major problems in geriatric anesthesia, Koreanesthesia 2018, Seoul, 2018.09.

0540 Department of Physical and Rehabilitation Medicine

Faculty

Title	Name	Field of Specialization
Professor	KAGECHIKA Kenji	rehabilitation medicine, osteoporosis, disuse syndrome, higher brain dysfunction
Senior Assistant Professor	YAMAUCHI Yuko	
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.

Publications

Originals

- 0540B001 Keisuke Irie, Hirokatsu Iseki, Satomi Okamoto, Kazuhiro Okamoto, Seiji Nisimura, Kenji Kagechika: Development of the modified simple test for evaluating hand function (modified STEFF): Construct, reliability, validity, and responsiveness, Journal of hand therapy, 32: 3; 388-394, 2018.

Reviews

- 0540C001 K.Okamoto, K.Kyoda, M.Tsubokawa, K.Irie, T.Miwa, K.Kagechika: Estimate of swallowing ability of acute stroke patients with estimate model of Fujishima dysphagia gradin, Deglutition, 7: 2; 273-278, 2018.

0550 Department of Emergency Medicine

Faculty

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

Keywords of Research

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

Outline of Research

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

0570 Community Medicine

Faculty

Title	Name	Field of Specialization
Professor	KASAMAKI Yuji	Field of Specialization, Cardiology, General Practice, Electrocardiology, Arrhythmia, Echocardiography
Professor	KANDA Tsugiyasu	Cardiovascular disease, Diabetes Mellitus, Mental disease
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 Akiteru Takamura, Takeshi Morimoto: Experience of receiving care by interns reduces psychological barrier of community residents to further care in Japan, Rural and remote health, 18: 3; 4613, 2018.
- 0570B002 Daisuke Usuda, Yoshiki Furumura, Ryusho Sangen, Yu Hashimoto, Jun Kawamukai, Emiri Muranaka, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Inuma, Tsugiyasu Kanda: Evaluation of B-type natriuretic peptide as prognostic marker in patients with pneumonia: An observational study, Internal Medicine Review, 4: 3; 1-28, 2018.
- 0570B003 Toshihiro Higashikawa, Masashi Okuro, Keiichirou Ishigami, Kunihiro Mae, Ryusho Sangen, Takuro Mizuno, Daisuke Usuda, Atushi Saito, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Shigeto Morimoto, Tsugiyasu Kanda: Procalcitonin and albumin as prognostic biomarkers in elderly patients with a risk of bacterial infection, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 7; 2606-2614, 2018.
- 0570B004 Toshihiro Higashikawa, Tomohiko Ito, Takuro Mizuno, Keiichirou Ishigami, Masaru Kohori, Kunihiro Mae, Ryusho Sangen, Daisuke Usuda, Atsushi Saito, Masaharu Iguchi, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Tsugiyasu Kanda, Masashi Okuro: The effects of 12-month administration of tofogliflozin on electrolytes and dehydration in mainly elderly Japanese patients with type 2 diabetes mellitus, JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, 46: 12; 5117-5126, 2018.

Case Reports

- 0570D001 Daisuke Usuda, Yoshiki Furumura, Kento Takeshima, Ryusho Sangen, Yasuhiro Kawai, Yuji Kasamaki, Yoshitugu Inuma, Tsugiyasu Kanda: Interleukin-18 as a diagnostic marker of adult-onset Still's disease in older patients: a case report and review of the literature, Journal of medical case reports, 12: 1; 198, 2018.

0570D002 Daisuke Usuda, Kento Takeshima, Ryusho Sangen, Kisuke Nakamura, Kei Hayashi, Hideyuki Okamura, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Iinuma, Hitoshi Saito, Tsugiyasu Kanda, Sachio Urashima: Atypical lipomatous tumor in the ligamentum teres of liver: A case report and review of the literature, *World Journal of Clinical Cases*, 6: 12; 548-553, 2018.

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
Assistant Professor	TAKEDA Michiyo	Diagnosis for esophagus, 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

Case Reports

- 0575D001 Daisuke Usuda, Kento Takeshima, Ryusho Sangen, Kisuke Nakamura, Kei Hayashi, Hideyuki Okamura, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Inuma, Hitoshi Saito, Tsugiyasu Kanda, Sachio Urashima: Atypical lipomatous tumor in the ligamentum teres of liver: A case report and review of the literature, World Journal of Clinical Cases, 6: 12; 548-553, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 0575G001 T.Itoh: Diagnosis of SM Gastric Cancer & Novel Technology of EFTR for SM Gastric Cancer, Innovative Technologies in Endoscopic Surgery : Trends, which could become standards, Moscow, 2018.12.

International Conference (Symposium)

- 0575H001 T.Itoh: Standard Endoscopy Diagnosis & Treatment of Early Gastric Cancer in Japan, The 20th Japan-Russia Endoscopy Symposium, St.Petersburg, 2018.03.
- 0575H002 T.Itoh: Treatment of Early Gastric Cancer in Japan, The 11th China-Japan Association of Digestive Endoscopy symposium, Xiamen, 2018.04.
- 0575H003 T.Itoh: Diagnosis and endoscopic treatment for poorly differentiated adenoma carcinoma of stomach., Yaroslavl Endoscopy Symposium 2018, Yaroslavl, 2018.06.

International Conference (Presentations)

- 0575I001 T.Itoh, S,Azukisawa, K.Kawaura, M.Takeda, J.Kamai, R.Kobayashi, K.Hamada, H.Kitakata: How does linked color image(LCI)which is one modality of image enhanced endoscopy (IEE)contribute to detect of the minute to small early gastric cancer? A pilot study, UEGW2018, Vienna, 2018.10.

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

0580 Department of Oral and Maxillofacial Surgery

Faculty

Title	Name	Field of Specialization
Professor	SEGAMI Natsuki	oral and maxillofacial surgery, temporomandibular joint disorders, oral cancer, orthognathic surgery
Associate Professor	MATSUMOTO Gouichi	Bone Regeneration, Biomaterials, Oral Cancer
Associate Professor	ISHIBASHI Hiroaki	Oral tumor, Oral Pathology
Associate Professor	DEMURA Noboru	orthodontics, stomatology
Senior Assistant Professor	KATO Takao	Oral cavity, Kampo medicines, Dental pharmacology
Assistant Professor	KATO Koichiro	Oral tumor
Assistant Professor	HASUMOTO Miho	Orthodontics

Keywords of Research

stomatology, oral and maxillofacial surgery, orthodontics, temporomandibular joint, arthroscopy, magnetic resonance imaging, oral cancer, metastasis, orthognathic surgery, 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 (Toshiyuki Tamura), Shigetoshi Yokoya, Yohei Kamata, Yukihiro Kinoshita, Yasuhiko Tabata, Goichi Matsumoto: Periodontal Regeneration Using Gelatin Hydrogels Incorporating Basic Fibroblast Growth Factor, *Biomedical Journal of Scientific & Technical Research*, 4: 2; 3820–3824, 2018.
- 0580B002 Koichiro Kato, Miyako Shimasaki, Takao Kato, Natsuki Segami, Yoshimichi Ueda: Expression of Sphingosine Kinase-1 Is Associated with Invasiveness and Poor Prognosis of Oral Squamous Cell Carcinoma, *Anticancer Research*, 38: 1361–1368, 2018.
- 0580B003 Goichi Matsumoto, Yoshihiko Sugita, Katsutoshi Kubo, Waka Yoshida, Hatsuhiko Maeda, Mamoru Aizawa, Shigetaka Shimodaira, Yukihiro Kinoshita: Evaluation of Gelatin-Hybridized Chelate-Setting Calcium Phosphate Cements in Alveolar Bone Defects of Canine Mandible, *Biomedical Journal of Scientific & Technical Research*, 3: 4; 3420–3426, 2018.
- 0580B004 Noboru Demura, Miho Hasumoto, Taichi Demura: Study on Errors of Cephalographic Measurement Points, *Journal of Orthodontics & Endodontics*, 4: 1; 6, 2018.
- 0580B005 Noboru Demura, Miho Hasumoto, Taichi Demura: Study of Setting Landmarks and Frequency Control on Digital Cephalogram, *Journal of Orthodontics & Endodontics*, 4: 1; 7, 2018.

- 0580B006 Noboru Demura, Miho Hasumoto, Taichi Demura: Association between the Skull Base and Maxillofacial Morphology in Adults, *Journal of Orthodontics & Endodontics*, 4: 2; 10, 2018.
- 0580B007 Segami N, Nishimura T, Miyaki K, Adachi H: Tethering technique using bone screws and wire for chronic mandibular dislocation: a preliminary study of refractory cases, *International Journal of Oral & Maxillofacial Surgery*, 47: 1065–1069, 2018.
- 0580B008 Segami N: A modified approach for eminectomy for temporomandibular joint dislocation under local anaesthesia: report on a series of 50 patients, *International Journal of Oral & Maxillofacial Surgery*, 47: 1439–1444, 2018.

Case Reports

- 0580D001 Natsuki Segami, Takayuki Nojima: Ganglion cyst in the temporomandibular joint: A case report and discussion of surgical approaches, *CRANIO: The Journal of Craniomandibular & Sleep Practice*, 23: 1–5, 2018.
- 0580D002 Noboru Demura, Miho Hasumoto, Taichi Demura: Nonsurgical Orthodontic Treatment of Adolescent Patients with Severe Jaw Deformities, *Journal of Clinical Orthodontics*, 52: 9; 477–483, 2018.
- 0580D003 Natsuki Segami, Hidenao Ogi, Hideki Nakayama, Takayuki Nojima: Giant cell reparative granuloma of the mandibular condyle: A rare presentation and literature review, *Oral and Maxillofacial Surgery Cases*, 4: 4; 130–134, 2018.

0590 Department of Regenerative Medicine

Faculty

Title	Name	Field of Specialization
Professor	SHIMODAIRA Shigetaka	Regenerative Medicine
Assistant Professor	KOYA Terutsugu	Regenerative Medicine

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 (Kobayashi J), Yanagisawa R, Ono T, Tatsuzawa Y, Tokutake Y, Kubota N, Hidaka E, Sakashita K, Kojima S, Shimodaira S, Nakamura T: Administration of platelet concentrates suspended in bicarbonated Ringer's solution in children who had platelet transfusion reactions, *VOX SANGUINIS*, 113: 2; 128-135, 2018.
- 0590B002 Goichi Matsumoto, Yoshihiko Sugita, Katsutoshi Kubo, Waka Yoshida, Hatsuhiko Maeda, Mamoru Aizawa, Shigetaka Shimodaira, Yukihiko Kinoshita: Evaluation of Gelatin-Hybridized Chelate-Setting Calcium Phosphate Cements in Alveolar Bone Defects of Canine Mandible, *Biomedical Journal of Scientific & Technical Research*, 3: 3420-3426, 2018.
- 0590B003 (Hirabayashi K), Yanagisawa R, Saito S, Higuchi Y, Koya T, Sano K, Koido S, Okamoto M, Sugiyama H, Nakazawa Y, Shimodaira S: Feasibility and Immune Response of WT1 Peptide Vaccination in Combination with OK-432 for Paediatric Solid Tumors, *ANTICANCER RESEARCH*, 38: 4; 2227-2234, 2018.
- 0590B004 (Yanagisawa R), Koizumi T, Koya T, Sano K, Koido S, Nagai K, Kobayashi M, Okamoto M, Sugiyama H, Shimodaira S: WT1-pulsed Dendritic Cell Vaccine Combined with Chemotherapy for Resected Pancreatic Cancer in a Phase I Study, *ANTICANCER RESEARCH*, 38: 4; 2217-2225, 2018.
- 0590B005 (Tomoya Kanai), Zensho Ito, Yusuke Oji, Machi Suka, Sumiyuki Nishida, Kazuki Takakura, Mikio Kajihara, Masayuki Saruta, Shuichi Fujioka, Takeyuki Misawa, Tadashi Akiba, Hiroyuki Yanagisawa, Shigetaka Shimodaira, Masato Okamoto, Haruo Sugiyama, Shigeo Koido: Prognostic significance of Wilms' tumor 1 expression in patients with pancreatic ductal adenocarcinoma, *Oncology Letters*, 16: 2; 2682-2692, 2018.
- 0590B006 (Shunsuke Kojima), Ryu Yanagisawa, Miyuki Tanaka, Yozo Nakazawa, Shigetaka Shimodaira: Comparison of administration of platelet concentrates suspended in M-sol or BRS-A for pediatric patients, *TRANSFUSION*, 58: 2952-2958, 2018.

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 educator
Senior Assistant Professor	SUGIMORI Chiyoko	Nursing skills
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

Publications

Originals

- 8010B001 Yuko Matsui, Ryoko Murayama, Hidenori Tanabe, Makoto Oe, Yoshiharu Motoo, Takanori Wagatsuma, Michiko Michibuchi, Sachiko Kinoshita, Keiko Sakai, Chizuko Konya, Junko Sugama, Hiromi Sanada: Factors associated with severe skin disorder after extravasation of intravenously infused antineoplastic agents, *Journal of Nursing Science and Engineering*, 5: 1; 31-40, 2018.
- 8010B002 Keiko Sakai, Naomi Kimura, Miyuki Yamaguchi, Masumi Nakamura: Characteristics of effective teaching for clinical instructors in nursing practical training, *Journal of Society of Nursing Practice*, 31: 1; 63-75, 2018.
- 8010B004 (Masako Dai), Miho Shogenji, Kiyoko Matsui, Keiko Kimori, Aya Sato, Hiroko Maeda, Mayumi Okuwa, Chizuko Konya, Junko Sugama, Hiromi Sanada: Validity of pocket ultrasound device to measure thickness of subcutaneous tissue for improving upper limb lymphoedema assessment, *LYMPHOEDEMA RESEARCH AND PRACTICE*, 6: 1; 10-20, 2018.
- 8010B005 (Kiyoko Yanagihara), Kiyoko Matsui, Azusa Oda, Mizuyo Nagamune, Mai Kitagawa; Examination of the Implementation of Active Learning in the Teaching of Nursing Process Models in the Basic Nursing Science, *Journal of Wellness and Health Care*, 42: 105-112, 2018.

Reviews

- 8010C001 Toru Miyanaga, Yoshimichi Ueda, Aiko Miyanaga, Mikio Yagishita, Naoko Hama: Angiogenesis after administration of basic fibroblast growth factor induces proliferation and differentiation of mesenchymal stem cells in elastic perichondrium in an in vivo model: mini review of three sequential republication-abridged reports, *Cellular and Molecular Biology Letters*, 23: 49, 2018.

8040 Maternity Nursing ▪ Midwifery

Faculty

Title	Name	Field of Specialization
Professor	YANO Keiko	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.

Publications

Originals

- 8040B001 Hitomi Boda, Tran Ngoc Nghi, Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Hoang Van Luong, Tran Hai Anh, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Prenatal dioxin exposure estimated from dioxins in breast milk and sex hormone levels in umbilical cord blood in Vietnamese newborn infants, *The Science of the total environment*, 615: 1312-1318, 2018.
- 8040B002 Anh Thi Nguyet Nguyen, Muneko Nishijo, Tai The Pham, Nghi Ngoc Tran, Anh Hai Tran, Luong Van Hoang, Hitomi Boda, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Sex-specific effects of perinatal dioxin exposure on eating behavior in 3-year-old Vietnamese children, *BMC PEDIATRICS*, 18: 213, 2018.

8050 Pediatric Nursing

Faculty

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

8060 Adult Nursing

Faculty

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

Keywords of Research

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

Outline of Research

Clinical Medical-Surgical Nursing.

Publications

Originals

- 8060B001 Yuko Matsui, Ryoko Murayama, Hidenori Tanabe, Makoto Oe, Yoshiharu Motoo, Takanori Wagatsuma, Michiko Michibuchi, Sachiko Kinoshita, Keiko Sakai, Chizuko Konya, Junko Sugama, Hiromi Sanada: Factors associated with severe skin disorder after extravasation of intravenously infused antineoplastic agents, *Journal of Nursing Science and Engineering*, 5: 1; 31-40, 2018.
- 8060B002 Yukari Nakajima, Kimi Asano, Kanae Mukai, Tamae Urai, Mayumi Okuwa, Junko Sugama, Toshio Nakatani: Near-Infrared Fluorescence Imaging Directly Visualizes Lymphatic Drainage Pathways and Connections between Superficial and Deep Lymphatic Systems in the Mouse Hindlimb, *Scientific Reports*, 8: 7078, 2018.

8070 Gerontological Nursing

Faculty

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

Keywords of Research

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

Outline of Research

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

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.

Publications

Originals

- 8080B001 Yukari Nakada, Aya Sugimoto, Hiroshi Kadotani, Naoto Yamada: Verification of effect of sleep health education program in workplace: a quasi-randomized controlled trial, *Industrial Health*, 56: 20–29, 2018.

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 Koji Tanaka, Masami Hasegawa, Yutaka Nagayama, Masato Oe: Nursing Philosophy of community mental health nurses in Japan: A qualitative, descriptive study, *International journal of mental health nursing*, 27: 2; 765-773, 2018.

8090 Home Care Nursing

Faculty

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

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 Hitomi Boda, Tran Ngoc Nghi, Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Hoang Van Luong, Tran Hai Anh, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Prenatal dioxin exposure estimated from dioxins in breast milk and sex hormone levels in umbilical cord blood in Vietnamese newborn infants, *The Science of the total environment*, 615: 1312–1318, 2018.
- 8100B002 Takagi H, Sakamoto J, Osaka Y, Shibata T, Fujita S, Sasagawa T: Usefulness of the maximum standardized uptake value for the diagnosis and staging of patients with cervical cancer undergoing positron emission tomography/computed tomography, *Medicine*, 97: 7; e9856, 2018.
- 8100B003 Hiromi Sakata-Haga, Maimi Uchishiba, Hiroki Shimada, Tsuyoshi Tsukada, Mayumi Mitani, Tomohiro Arikawa, Hiroki Shoji, Toshihisa Hatta: A rapid and nondestructive protocol for whole-mount bone staining of small fish and Xenopus, *SCIENTIFIC REPORTS*, 8: 7453, 2018.
- 8100B004 Sasagawa T, Maehama T, Osaka Y, Sakamoto J, Shibata T, Fujita S, Takakura M: Comparison of the digene hybrid capture 2 and Roche cobas 4800 HPV tests for detection of CIN2+ in a referral population in Japan, *Journal of medical virology*, 90: 5; 972–980, 2018.
- 8100B005 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855–861, 2018.

- 8100B006 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Increase of lifetime cadmium intake dose-dependently increased all cause of mortality in female inhabitants of the cadmium-polluted Jinzu River basin, Toyama, Japan, *Environmental research*, 164: 379-384, 2018.
- 8100B007 Anh Thi Nguyet Nguyen, Muneko Nishijo, Tai The Pham, Nghi Ngoc Tran, Anh Hai Tran, Luong Van Hoang, Hitomi Boda, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Sex-specific effects of perinatal dioxin exposure on eating behavior in 3-year-old Vietnamese children, *BMC PEDIATRICS*, 18: 213, 2018.
- 8100B008 Takagi H, Sakamoto J, Osaka Y, Shibata T, Fujita S, Sasagawa T: Utility of 18F-fluorodeoxyglucose-positron emission tomography in the differential diagnosis of benign and malignant gynaecological tumours, *Journal of medical imaging and radiation oncology*, 62: 471-479, 2018.
- 8100B009 Masami Kojima, Yukihisa Suzuki, Kensuke Sasaki, Masao Taki, Kanako Wake, Soichi Watanabe, Maya Mizuno, Takafumi Tasaki, Hiroshi Sasaki: Ocular Effects of Exposure to 40, 75, and 95 GHz Millimeter Waves, *Journal of Infrared, Millimeter, and Terahertz Waves*, 39: 9; 912-925, 2018.
- 8100B010 Sakamoto J, Kamiura S, Okayama K, Okodo M, Shibata T, Osaka Y, Fujita S, Takata E, Takagi H, Takakura M, Sasagawa T: Single type infection of human papillomavirus as a cause for high-grade cervical intraepithelial neoplasia and invasive cancer in Japan, *Papillomavirus Res*, 6: 46-51, 2018.

Case Reports

- 8100D001 Takagi H, Takata E, Sakamoto J, Fujita S, Takakura M, Sasagawa T: Malignant Transformation of an Ovarian Endometrioma during Endometriosis Treatment: A Case Report, *Case reports in obstetrics and gynecology*, 4: 6210172, 2018.

Presentations at Conference

International Conference (Presentations)

- 8100I001 Kunimitsu Iwai: Inflammatory signaling is activated in association with differential expression of lncRNAs in heart failure with preserved systolic function, *Frontiers in Cardio Vascular Biology* 2018, Vienna, 2018.04.
- 8100I002 Kunimitsu Iwai: Nucleostemin is prerequisite for Notch signaling and pro-inflammatory phenotype conversion of the endothelial cell in atherosclerosis, *Frontiers in Cardio Vascular Biology* 2018, Vienna, 2018.04.
- 8100I003 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Yoshinori Tatematu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source, *BioEM2018*, Slovenia, 2018.06.
- 8100I004 (Yukihisa Suzuki), Takafumi Tasaki, Masami Kojima: Visualization and quantification of temperature distributions due to the millimeter wave exposure with micro-chromic liquid crystals, *PIERS* 2018, Toyama, 2018.08.
- 8100I005 T Tsukada, H Sakagami, H Shimada, S Takata, H Sakata-Haga, H Iizuka, H Shoji, T Hatta: Leukemia inhibitory factor signaling and STAT3 phosphorylation at Ser727 in fetal mouse brain development, *Neuroscience* 2018, San Diego, 2018.11.
- 8100I006 H Sakagami, T Tsukada, H Sakata-Haga, H Shimada, K Miura, H Wang, T Arikawa, S Takata, H Shoji, H Hatta: Administration of maternal leukemia inhibitory factor induces Nkx.2.1 in the ventral cerebrum of fetal mice, *Neuroscience* 2018, San Diego, 2018.11.

Department of General Education

8610 Natural Sciences

Faculty

Title	Name	Field of Specialization
Professor	SHOJI Hiroki	Developmental Biology, Molecular Biology, Biochemistry
Associate Professor	ARIKAWA Tomohiro	Immunology, Developmental Biology
Associate Professor	HASHIMOTO Mitsumasa	Radiation Biology, Cell Biology
Associate Professor	IIDA Yasuo	Function algebra, Function space
Senior Assistant Professor	OKUDA Koichi	Fixed-quantity rating system in the heart nuclear medicine
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 Yumi Sunatani, Radhika Pankaj Kamdar, Mukesh Kumar Sharma, Tadashi Matsui, Ryo Sakasai, Mitsumasa Hashimoto, Yasuhito Ishigaki, Yoshihisa Matsumoto, Kuniyoshi Iwabuchi: Caspase-mediated cleavage of X-ray repair cross-complementing group 4 promotes apoptosis by enhancing nuclear translocation of caspase-activated DNase, *Experimental cell research*, 362: 2; 450-460, 2018.

- 8610B002 (Kyosuke Kanai), Ah-Mee Park, Akiko Watanabe, Tomohiro Arikawa, Teruhito Yasui, Hiroki Yoshida, Ikuo Tsunoda, Osamu Yoshie: Murine γ -Herpesvirus 68 Induces severe lung inflammation in IL-27-Deficient Mice with Liver Dysfunction Preventable by Oral Neomycin, *The Journal of Immunology*, 200: 8; 2703-2713, 2018.
- 8610B003 Hiromi Sakata-Haga, Maimi Uchishiba, Hiroki Shimada, Tsuyoshi Tsukada, Mayumi Mitani, Tomohiro Arikawa, Hiroki Shoji, Toshihisa Hatta: A rapid and nondestructive protocol for whole-mount bone staining of small fish and Xenopus, *SCIENTIFIC REPORTS*, 8: 7453, 2018.
- 8610B004 Derk O Verschure, Edwin Poel, Kenichi Nakajima, Koichi Okuda, Berthe L F van Eck-Smit, G Aernout Somsen, Hein J Verberne: A European myocardial (123)I-mIBG cross-calibration phantom study, *JOURNAL OF NUCLEAR CARDIOLOGY*, 25: 4; 1191-1197, 2018.
- 8610B005 Yasuo Iida: Bounded subsets of the Zygmund F-Algebra, *International Journal of Mathematical Analysis*, 12: 9; 425-431, 2018.
- 8610B006 Klene C, Jungen C, Okuda K, Kobayashi Y, Helberg A, Mester J, Meyer C, Nakajima K: Influence of ROI definition on the heart-to-mediastinum ratio in planar 123I-MIBG imaging, *J Nucl Cardiol*, 25: 208-216, 2018.
- 8610B007 Wakabayashi H, Taki J, Inaki A, Hiromasa T, Okuda K, Shibutani T, Shiba K, Kinuya S: Quantification of Myocardial Perfusion Defect Size in Rats: Comparison between Quantitative Perfusion SPECT and Autoradiography, *Mol Imaging Biol*, 20: 544-550, 2018.
- 8610B008 Aburadani I, Usuda K, Sumiya H, Sakagami S, Kiyokawa H, Matsuo S, Takamura M, Murai H, Takashima S, Kitano T, Okuda K, Nakajima K: Ability of the prognostic model of J-ACCESS study to predict cardiac events in a clinical setting: The APPROACH study, *J Cardiol*, 72: 81-86, 2018.
- 8610B009 Nakajima K, Okuda K, Watanabe S, Matsuo S, Kinuya S, Toth K, Edenbrandt L: Artificial neural network retrained to detect myocardial ischemia using a Japanese multicenter database, *Ann Nucl Med*, 32: 303-310, 2018.
- 8610B010 Nakajima K, Okuda K, Matsuo S, Wakabayashi H, Kinuya S: Is 123I-metaiodobenzylguanidine heart-to-mediastinum ratio dependent on age? From Japanese Society of Nuclear Medicine normal database, *Ann Nucl Med*, 32: 175-181, 2018.

Presentations at Conference

International Conference (Presentations)

- 8610I001 T Tsukada, H Sakagami, H Shimada, S Takata, H Sakata-Haga, H Iizuka, H Shoji, T Hatta: Leukemia inhibitory factor signaling and STAT3 phosphorylation at Ser727 in fetal mouse brain development, *Neuroscience 2018, San Diego*, 2018.11.
- 8610I002 H Sakagami, T Tsukada, H Sakata-Haga, H Shimada, K Miura, H Wang, T Arikawa, S Takata, H Shoji, H Hatta: Administration of maternal leukemia inhibitory factor induces Nkx.2.1 in the ventral cerebrum of fetal mice, *Neuroscience 2018, San Diego*, 2018.11.
- 8610I003 Koichi Okuda, Kenichi Nakajima, Chiemi Kitamura, Yumiko Kirihara, Shinro Matsuo, Mitsumasa Hashimoto, Seigo Kinuya: A phantom-based methodology for the standardization of heart-to-mediastinum ratio in cardiac Iodine-123 metaiodobenzylguanidine sympathetic imaging. *World Congress on Medical Physics & Biomedical Engineering*. Prague, Czech Republic. Oral, 2018.06.

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	IKENAKA Masami	English Education
Senior Assistant Professor	CRAIG Woods	English, Medical English
Senior Assistant Professor	BURKE STEVEN Thomas	English
Assistant Professor	KYUJI Kazuyo	Nursing Students and Professional Sprit
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.

Publications

Originals

- 8620B001 Yusuke Murakami, Yukinori Sawae: Characteristics of Motor Development in Children with Autism Spectrum Disorder as Indicated by Movement Variability: Longitudinal Study Based on the Multiple Time Scale Method, The Japanese Journal of Developmental Psychology, 29: 4; 243-252, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 8680G001 Honda Kojiro: What is the Body-conservatism?, Appropriate distance between humans and machines: Robot, AI, and Enhancement - Beneficial AI Japan, Tokyo, 2018.06.

International Conference (Presentations)

- 8620I001 Honda Kojiro: Body-conservatism, ETHConf2018 Investigating transhumanisms and their narratives, France.Lille, 2018.06.
- 8620I002 Honda Kojiro: Potential of Body-conservatism, Phtr2018 Philosophy of Human-Technology Relations, Enschede, 2018.07.

University Hospital

0615 Breast and Endocrine Surgery

Faculty

Title	Name	Field of Specialization
Professor	NOGUCHI Masakuni	Surgery of breast cancer
Senior Assistant Professor	NOGUCHI Miki	Surgery of breast cancer
Assistant Professor	ONO Yukako	Surgery of breast cancer
Assistant Professor	MORIOKA Emi	Surgery of breast cancer

Publications

Originals

- 0615B001 Masakuni Noguchi, Yukako Ohno, Emi Morioka, Miki Noguchi, Yasuharu Nakano, Takeo Kosaka, Ken-ichi Shimada: A novel oncoplastic technique for breast cancer localized in the lower pole of the breast, *Journal of Surgical Oncology*, 177: 2; 137-141, 2018.

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 Rieko	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.

Publications

Originals

- 0675B001 Masaru Sakurai, Hideaki Nakagawa, Aya Kadota, Katsushi Yoshita, Yasuyuki Nakamura, Nagako Okuda, Nobuo Nishi, Yoshihiro Miyamoto, Hisatomi Arima, Takayoshi Ohkubo, Tomonori Okamura, Hirotsugu Ueshima, Akira Okayama, Katsuyuki Miura, NIPPON DATA2010 Res Grp: Macronutrient Intake and Socioeconomic Status: NIPPON DATA2010, JOURNAL OF EPIDEMIOLOGY, 28: 3; S17-S22, 2018.
- 0675B002 (Kimiko Nishino), Masaru Sakurai, Yumie Takeshita, Toshinari Takamura: Consuming Carbohydrates after Meat or Vegetables Lowers Postprandial Excursions of Glucose and Insulin in Nondiabetic Subjects, Journal of nutritional science and vitaminology, 64: 5; 316-320, 2018.
- 0675B003 (Yusuke Wakabayashi), Rie Oka, Masako Nakaya, Shigehiro Karashima, Mitsuhiro Kometani, Masaru Sakurai, Kenichi Yoshimura, Takashi Yoneda: Associations between Sleep-Disordered Breathing and Metabolic Risk Factors beyond Obesity, JOURNAL OF DIABETES RESEARCH, 2018: 1567683, 2018.

- 0675B004 (Wood AM), Kaptoge S, Butterworth AS, Willeit P, Warnakula S, Bolton T, Paige E, Paul DS, Sweeting M, Burgess S, Bell S, Astle W, Stevens D, Koulman A, Selmer RM, Verschuren WMM, Sato S, Njølstad I, Woodward M, Salomaa V, Nordestgaard BG, Yeap BB, Fletcher A, Melander O, Kuller LH, Balkau B, Marmot M, Koenig W, Casiglia E, Cooper C, Arndt V, Franco OH, Wennberg P, Gallacher J, de la Cámara AG, Völzke H, Dahm CC, Dale CE, Bergmann MM, Crespo CJ, van der Schouw YT, Kaaks R, Simons LA, Lagiou P, Schoufour JD, Boer JMA, Key TJ, Rodriguez B, Moreno-Iribas C, Davidson KW, Taylor JO, Sacerdote C, Wallace RB, Quiros JR, Tumino R, Blazer DG 2nd, Linneberg A, Daimon M, Panico S, Howard B, Skeie G, Strandberg T, Weiderpass E, Nietert PJ, Psaty BM, Kromhout D, Salamanca-Fernandez E, Kiechl S, Krumholz HM, Grioni S, Palli D, Huerta JM, Price J, Sundström J, Arriola L, Arima H, Travis RC, Panagiotakos DB, Karakatsani A, Trichopoulou A, Kühn T, Grobbee DE, Barrett-Connor E, van Schoor N, Boeing H, Overvad K, Kauhanen J, Wareham N, Langenberg C, Forouhi N, Wennberg M, Després JP, Cushman M, Cooper JA, Rodriguez CJ, Sakurai M, Shaw JE, Knuiman M, Voortman T, Meisinger C, Tjønneland A, Brenner H, Palmieri L, Dallongeville J, Brunner EJ, Assmann G, Trevisan M, Gillum RF, Ford I, Sattar N, Lazo M, Thompson SG, Ferrari P, Leon DA, Smith GD, Peto R, Jackson R, Banks E, Di Angelantonio E, Danesh J; Emerging Risk Factors Collaboration/EPIC-CVD/UK Biobank Alcohol Study Group: Risk thresholds for alcohol consumption: combined analysis of individual-participant data for 599 912 current drinkers in 83 prospective studies, *Lancet* (London, England), 391: 10129; 1513–1523, 2018.
- 0675B005 Hitomi Boda, Tran Ngoc Nghi, Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Hoang Van Luong, Tran Hai Anh, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Prenatal dioxin exposure estimated from dioxins in breast milk and sex hormone levels in umbilical cord blood in Vietnamese newborn infants, *The Science of the total environment*, 615: 1312–1318, 2018.
- 0675B006 (Soisungwan Satarug), Muneko Nishijo, Pailin Ujjin, Michael R Moore: Chronic exposure to low-level cadmium induced zinc-copper dysregulation, *JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY*, 46: 32–38, 2018.
- 0675B007 Muneko Nishijo, Hideaki Nakagawa, Yasushi Suwazono, Kazuhiro Nogawa, Masaru Sakurai, Masao Ishizaki, Teruhiko Kido: Cancer Mortality in Residents of the Cadmium-Polluted Jinzu River Basin in Toyama, Japan, *Toxics*, 6: 2; 23, 2018.
- 0675B008 (Soisungwan Satarug), Werawan Ruangyuttikarn, Muneko Nishijo, Patricia Ruiz: Urinary Cadmium Threshold to Prevent Kidney Disease Development, *Toxics*, 6: 2; 26, 2018.
- 0675B009 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855–861, 2018.
- 0675B010 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Increase of lifetime cadmium intake dose-dependently increased all cause of mortality in female inhabitants of the cadmium-polluted Jinzu River basin, Toyama, Japan, *Environmental research*, 164: 379–384, 2018.
- 0675B011 Anh Thi Nguyet Nguyen, Muneko Nishijo, Tai The Pham, Nghi Ngoc Tran, Anh Hai Tran, Luong Van Hoang, Hitomi Boda, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Sex-specific effects of perinatal dioxin exposure on eating behavior in 3-year-old Vietnamese children, *BMC PEDIATRICS*, 18: 213, 2018.
- 0675B012 (Hoang Van Luong), Pham The Tai, Muneko Nishijo, Do Minh Trung, Pham Ngoc Thao, Pham Van Son, Nguyen Van Long, Nguyen Tung Linh, Hisao Nishijo: Association of dioxin exposure and reproductive hormone levels in men living near the Bien Hoa airbase, Vietnam, *The Science of the total environment*, 628–629: 484–489, 2018.
- 0675B013 (Kowit Nambunmee), Muneko Nishijo, Witaya Swaddiwudhipong, Werawan Ruangyuttikarn: Bone Fracture Risk and Renal Dysfunction in a Highly Cadmium Exposed Thai Population, *Journal of research in health sciences*, 18: 3; e00419, 2018.

Reviews

- 0675C001 Yasufumi Masaki, Shino Fujimoto, Nozomu Kurose, Tomoyuki Sakai, Haruka Kawanami (Iwao), Takafumi Kawanami, Yoshimasa Fujita, Shuichi Mizuta, Hiroshi Kawabata, Toshihiro Fukushima: Differential diagnoses among polyclonal hypergammopathies: IgG4-related disease, Multicentric Castleman disease, and other diseases, *The Official Journal of Japanese Society of Laboratory Medicine*, 66: 8; 898–907, 2018.

Presentations at Conference

International Conference (Presentations)

- 0675I001 Kakuda H, Kobayashi j, Sakuraic M, Takekoshi N: Influences of withdrawal of SGLT2 inhibitor tofogliflozin on metabolic parameters –Comparison between on treatment and washout period–, The 23rd International society of Cardiovascular pharmacotherapy, Kyoto, 2018.05.
- 0675I002 Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese toddlers in the largest hot spot of Agent Orange contamination in Vietnam, 38th International Symposium on Halogenated persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.
- 0675I003 Pham Ngoc Thao, Muneko.Nishijo, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Effeects of dioxin exposure on gaze behaviour in children at 3 years of age living in a hotspot of dioxin contamination in Vietnam, 38th International Symposium on Halogenated Persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.

Medical Research Institute

7100 Department of Life Sciences

Faculty

Title	Name	Field of Specialization
Professor	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Professor	IWAWAKI Takao	Cellular stress response
Associate Professor	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
Assistant Professor	HIRAMATSU Nobuhiko	Molecular and Cellular Biology

Keywords of Research

cancer, carcinogenesis, metastasis, cell transformation, gene expression, HCV, JEV, virus replication, RNAi, micro RNA, centrosome, polyploid cells, polyploidization, triploid/tetraploid/octaploid cells, Meth-A cells, V79 cells, H-1(ES) cells, RhoGDI, Rho family, epithelial/mesenchymal, transfection, RNA surveillance, nonsense mediated mRNA decay, mutation, DNA microarray, transcriptome, proteome, apoptosis, ultra micro structure, mouse germ cells, DNA repair, fibroblast growth factor, tumor growth angiogenesis, Ubiquitin-proteasome system, Autophagy, 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 Naoki Hashimoto, Yoichi M Ito, Naohiro Okada, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Noriko Kudo, Ariyoshi Takemura, Shuraku Son, Hisashi Narita, Maeri Yamamoto, Khin Khin Tha, Asuka Katsuki, Kazutaka Ohi, Fumio Yamashita, Shinsuke Koike, Tsutomu Takahashi, Kiyotaka Nemoto, Masaki Fukunaga, Toshiaki Onitsuka, Yoshiyuki Watanabe, Hidenori Yamasue, Michio Suzuki, Kiyoto Kasai, Ichiro Kusumi, Ryota Hashimoto: The effect of duration of illness and antipsychotics on subcortical volumes in schizophrenia: Analysis of 778 subjects, *NeuroImage: Clinical*, 17: 563-569, 2018.

- 7100B002 Govindarajan S, Gaublomme D, Van der Cruyssen R, Verheugen E, Van Gassen S, Saeys Y, Tavernier S, Iwawaki T, Bloch Y, Savvides SN, Lambrecht BN, Janssens S, Elewaut D, Drennan MB: Stabilization of cytokine mRNAs in iNKT cells requires the serine-threonine kinase IRE1alpha, *Nat Commun*, 9: 5340, 2018.
- 7100B003 Urra H, Henriquez DR, Cánovas J, Villarroel-Campos D, Carreras-Sureda A, Pulgar E, Molina E, Hazari YM, Limia CM, Alvarez-Rojas S, Figueroa R, Vidal RL, Rodriguez DA, Rivera CA, Court FA, Couve A, Qi L, Chevet E, Akai R, Iwawaki T, Concha ML, Glavic Á, Gonzalez-Billault C, Hetz C: IRE1 α governs cytoskeleton remodelling and cell migration through a direct interaction with filamin A, *Nat Cell Biol*, 20: 942-953, 2018.
- 7100B004 Sekiguchi A, Motegi SI, Uchiyama A, Uehara A, Fujiwara C, Yamazaki S, Perera B, Nakamura H, Ogino S, Yokoyama Y, Akai R, Iwawaki T, Ishikawa O: Botulinum toxin B suppresses the pressure ulcer formation in cutaneous ischemia-reperfusion injury mouse model: Possible regulation of oxidative and endoplasmic reticulum stress, *J Dermatol Sci*, 90: 144-153, 2018.
- 7100B005 Pandey A, Lin F, Cabello AL, da Costa LF, Feng X, Feng HQ, Zhang MZ, Iwawaki T, Rice-Ficht A, Ficht TA, de Figueiredo P, Qin QM: Activation of host IRE1 α -dependent signaling axis contributes the intracellular parasitism of *Brucella melitensis*, *Front Cell Infect Microbiol*, 8: 103, 2018.
- 7100B006 Tsuchiya Y, Saito M, Kadokura H, Miyazaki JI, Tashiro F, Imagawa Y, Iwawaki T, Kohno K: IRE1-XBP1 pathway regulates oxidative proinsulin folding in pancreatic β cells, *J Cell Biol*, 217: 1287-1301, 2018.
- 7100B007 Chapple RH, Hu T, Tseng YJ, Liu L, Kitano A, Luu V, Hoegenauer KA, Iwawaki T, Li Q, Nakada D: ER α promotes murine hematopoietic regeneration through the Ire1 α -mediated unfolded protein response, *Elife*, 7: e31159, 2018.
- 7100B008 (Mariko Yamane), Satoshi Ohtsuka, Kumi Matsuura, Akira Nakamura, hitoshi Niwa: Overlapping functions Kruppel-like factor family members: targeting multiple transcription factors to maintain the naive pluripotency of mouse embryonic stem cells, *DEVELOPMENT*, 145: 10; 162404, 2018.
- 7100B009 Yumi Sunatani, Radhika Pankaj Kamdar, Mukesh Kumar Sharma, Tadashi Matsui, Ryo Sakasai, Mitsumasa Hashimoto, Yasuhito Ishigaki, Yoshihisa Matsumoto, Kuniyoshi Iwabuchi: Caspase-mediated cleavage of X-ray repair cross-complementing group 4 promotes apoptosis by enhancing nuclear translocation of caspase-activated DNase, *Experimental cell research*, 362: 2; 450-460, 2018.
- 7100B010 Takanori Tatsuno, Yasuhito Ishigaki: C-terminal short arginine/serine repeat sequence-dependent regulation of Y14(RBM8A) localization, *SCIENTIFIC REPORTS*, 8: 612, 2018.
- 7100B011 (Daisuke Koshiyama), Masaki Fukunaga, Naohiro Okada, Fumio Yamashita, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Kazutaka Ohi, Haruo Fujino, Yoshiyuki Watanabe, Kiyoto Kasai, Ryota Hashimoto: Subcortical association with memory performance in schizophrenia: a structural magnetic resonance imaging study, *Translational Psychiatry*, 8: 1; 20, 2018.
- 7100B012 (Daisuke Koshiyama), Masaki Fukunaga, Naohiro Okada, Fumio Yamashita, Hidenaga Yamamori, Yuka Yasuda, Michiko Fujimoto, Kazutaka Ohi, Haruo Fujino, Yoshiyuki Watanabe, Kiyoto Kasai, Ryota Hashimoto: Role of subcortical structures on cognitive and social function in schizophrenia, *Scientific reports*, 8: 1183, 2018.
- 7100B013 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, *Mechanisms of Ageing and Development*, 171: 24-30, 2018.
- 7100B014 Takashi Iezaki, Tetsuhiro Horie, Kazuya Fukasawa, Makoto Kitabatake, Yuka Nakamura, Gyu-jin Park, Yuki Onishi, Kakeru Ozaki, Takashi Kanayama, Manami Hiraiwa, Yuka Kitaguchi, Katsuyuki Kaneda, Takayuki Manabe, Yasuhito Ishigaki, Mutsuhito Ohno, Eiichi Hinoi: Translational Control of Sox9 RNA by mTORC1 Contributes to Skeletogenesis, *Stem Cell Reports*, 11: 228-241, 2018.
- 7100B015 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, *International Journal of Neuropsychopharmacology*, 22: 119-127, 2018.

- 7100B016 Jing Zhang, Xin Guo, Taiji Hamada, Seiya Yokoyama, Yuka Nakamura, Jianbo Zheng, Nozomu Kurose, Yasuhito Ishigaki, Hideaki Uramoto, Akihide Tanimoto, Sohsuke Yamada: Protective Effects of Peroxiredoxin 4 (PRDX4) on Cholestatic Liver Injury, *Int J Mol Sci*, 19: 9; 2509, 2018.
- 7100B017 (Souichi Nukuzuma), Chiyoko Nukuzuma, Masanori Kameoka, Shigeki Sugiura, Kazuo Nakamichi, Takafumi Tasaki, Koushi Hidaka, Tsutomu Takegami: Establishment of COS-JC cells persistently producing archetype JC polyomavirus, *MICROBIOLOGY AND IMMUNOLOGY*, 62: 8; 524-530, 2018.
- 7100B018 (Sung Tae Kim), Yoon Jee Lee, Takafumi Tasaki, Joonsung Hwang, Min Jueng Kang, Eugene C Yi, Bo Yeon Kim, Yong Tae Kwon: The N-recognin UBR4 of the N-end rule pathway is required for neurogenesis and homeostasis of cell surface proteins, *PLOS ONE*, 13: 8; e0202260, 2018.
- 7100B019 (Shauna H Yuan), Nobuhiko Hiramatsu, Qing Liu, Xuehan Victoria Sun, David Lenh, Priscilla Chan, Karen Chiang, Edward H Koo, Aimee W Kao, Irene Litvan, Jonathan H Lin: Tauopathy-associated PERK alleles are functional hypomorphs that increase neuronal vulnerability to ER stress, *Human Molecular Genetics*, 27: 22; 3951-3963, 2018.
- 7100B020 Masami Kojima, Yukihisa Suzuki, Kensuke Sasaki, Masao Taki, Kanako Wake, Soichi Watanabe, Maya Mizuno, Takafumi Tasaki, Hiroshi Sasaki: Ocular Effects of Exposure to 40, 75, and 95 GHz Millimeter Waves, *Journal of Infrared, Millimeter, and Terahertz Waves*, 39: 9; 912-925, 2018.
- 7100B021 (Sung Tae Kim), Yoon Jee Lee, Takafumi Tasaki, Su Ran Mun, Joonsung Hwang, Min Jueng Kang, Srinivasrao Ganipiseti, Eugene C Yi, Bo Yeon Kim, Yong Tae Kwon: The N-recognin UBR4 of the N-end rule pathway is targeted to and required for the biogenesis of the early endosome, *JOURNAL OF CELL SCIENCE*, 131: 17; jcs217646, 2018.
- 7100B022 (Sumiyoshi Chika), Fujino Haruo, Yamamori Hidenaga, Kudo Noriko, Azechi Hirotsugu, Fujimoto Michiko, Yasuda Yuka, Ohi Kazutaka, Sumiyoshi Tomiki, Hashimoto Ryota: Predicting work outcome in patients with schizophrenia: Influence of IQ decline, *SCHIZOPHRENIA RESEARCH*, 201: 172-179, 2018.

Reviews

- 7100C001 (Yukihisa Matsuda), Kazutaka Ohi: Cortical gyrification in schizophrenia: current perspectives, *Neuropsychiatric Disease and Treatment*, 14: 1861-1869, 2018.
- 7100C002 Takao Iwawaki: Role of the Endoplasmic Reticulum Stress Response in Cellular Proteostasis and Glycometabolic Disorders, *Journal of Kanazawa Medical University*, 43: 15-22, 2018.
- 7100C003 Kazutaka Ohi, Chika Sumiyoshi, Haruo Fujino, Yuka Yasuda, Hidenaga Yamamori, Michiko Fujimoto, Tomoko Shiino, Tomiki Sumiyoshi, Ryota Hashimoto: Genetic Overlap between General Cognitive Function and Schizophrenia: A Review of Cognitive GWASs, *International Journal of Molecular Sciences*, 19: 12; 3822, 2018.

Case Reports

- 7100D001 Takamitsu Shimada, Kazutaka Ohi, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Cerebellar activation during a motor task in conversion disorder with motor paralysis: A case report and fMRI study, *Neuropsychopharmacology Reports*, 38: 1; 47-50, 2018.

Presentations at Conference

International Conference (Presentations)

- 7100I001 Kazutaka Ohi, Takamitsu Shimada, Kiyotaka Nemoto, Yuzuru Kataoka, Toshiki Yasuyama, Kohei Kimura, Hiroaki Okubo, Takashi Uehara, Yasuhiro Kawasaki: Cognitive Clustering in Schizophrenia Patients, their First-Degree Relatives and Healthy Subjects is Associated with Anterior Cingulate Cortex Volume, 6th Biennial Schizophrenia International Research Society Conference, Florence, 2018.04.

- 7100I002 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Yoshinori Tatematu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source, BioEM2018, Slovenia, 2018.06.
- 7100I003 Kazutaka Ohi, Chika Sumiyoshi, Haruo Fujino, Yuka Yasuda, Hidenaga Yamamori, Michiko Fujimoto, Tomiki Sumiyoshi, Ryota Hashimoto: A 1.5-year longitudinal study on social activity in schizophrenia, 31th The International College of Neuropsychopharmacology, Vienna, 2018.06.
- 7100I004 Takamitsu Shimada, Kazutaka Ohi, Yuzuru Kataoka, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Differences in social functioning among schizophrenia patients, their first-degree relatives and healthy subjects, 31th The International College of Neuropsychopharmacology, Vienna, 2018.06.
- 7100I005 Yuzuru Kataoka, Kazutaka Ohi, Takamitsu Shimada, Aki Kuwata, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Difference in executive function among with patients with schizophrenia, their first-degree relatives and healthy subjects, 31th The International College of Neuropsychopharmacology, Vienna, 2018.06.
- 7100I006 Aki Kuwata, Kazutaka Ohi, Takamitsu Shimada, Yuzuru Kataoka, Hiroaki Okubo, Kohei Kimura, Toshiki Yasuyama, Takashi Uehara, Yasuhiro Kawasaki: Psychosocial Quality of Life is differed among patients with schizophrenia, their first-degree relatives and healthy controls, 31th The International College of Neuropsychopharmacology, Vienna, 2018.06.
- 7100I007 (Yukihisa Suzuki), Takafumi Tasaki, Masami Kojima: Visualization and quantification of temperature distributions due to the millimeter wave exposure with micro-chromic liquid crystals, PIERS 2018, Toyama, 2018.08.
- 7100I008 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, WFSBP2018KOBE, Kobe, 2018.09.
- 7100I009 Kazutaka Ohi: Smoking rates and number of cigarettes smoked per day in schizophrenia: A large cohort meta-analysis in a Japanese population., The 40th Annual Meeting of Japanese Society of Biological Psychiatry The 61st Annual Meeting of the Japanese Society for Neurochemistry, Kobe, 2018.09.

7200 Department of Advanced Medicine

Faculty

Title	Name	Field of Specialization
Professor	TAKEUCHI Masayoshi	AGEs, Life style-related disease
Professor	TOMOSUGI Naohisa	Clinical Proteomics
Professor(Additional Post)	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
Professor	NIIDA Yo	Genetic disease, Genetic diagnosis
Professor(Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
Associate Professor	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics
Senior Assistant Professor	TAKATA Takanobu	AGEs, Biochemistry
Senior Assistant Professor	OZAKI Mamoru	cytogenetics, Molecular cytogenetics
Assistant Professor	SAKASAI Akiko	AGEs, Cell Biology

Keywords of Research

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

Outline of Research

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

Publications

Originals

- 7200B001 Yo Niida, Mamoru Ozaki, Masaki Shimizu, Kazuyuki Ueno, Tomomi Tanaka: Classification of Uniparental Isodisomy Patterns That Cause Autosomal Recessive Disorders: Proposed Mechanisms of Different Proportions and Parental Origin in Each Pattern, CYTOGENETIC AND GENOME RESEARCH, 154: 3; 137-146, 2018.
- 7200B002 Yuko Matsui, Ryoko Murayama, Hidenori Tanabe, Makoto Oe, Yoshiharu Motoo, Takanori Wagatsuma, Michiko Michibuchi, Sachiko Kinoshita, Keiko Sakai, Chizuko Konya, Junko Sugama, Hiromi Sanada: Factors associated with severe skin disorder after extravasation of intravenously infused antineoplastic agents, Journal of Nursing Science and Engineering, 5: 1; 31-40, 2018.

- 7200B003 (Lee JA), Sasaki Y, Arai I, Go HY, Park SJ, Yukawa K, Nam YK, Ko SG, Motoo Y, Tsutani K, Lee MS: An assessment of the use of complementary and alternative medicine by Korean people using an adapted version of the standardized international questionnaire (I-CAM-QK): a cross-sectional study of an internet survey, *BMC Complementary and Alternative Medicine*, 18: 238, 2018.
- 7200B004 Niida Y, Inoue M, Ozaki M, Takase E: Human Malformation Syndromes of Defective GLI: Opposite Phenotypes of 2q14.2 (GLI2) and 7p14.2 (GLI3) Microdeletions and a GLIA/R Balance Model, *Cytogenetic and Genome Research*, 153: 56–65, 2018.
- 7200B005 Motoo Y: Ramucirumab plus paclitaxel: a possible new chemotherapy regimen for neuroendocrine carcinoma of the stomach, *Internal Medicine*, 57: 631–632, 2018.
- 7200B006 Masafumi Ota, Tomomitu Tahara, Toshimi Otsuka, Wu Jing, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Masakatsu Nakamura, Tomoyuki Shibata, Tomoyasu Arisawa: Association between receptor interacting serine/threonine kinase 2 polymorphisms and gastric cancer susceptibility, *ONCOLOGY LETTERS*, 15: 3772–3778, 2018.
- 7200B007 (Yukawa K), Ishikawa H, Yamazaki Y, Motoo Y, Arai I, Tutani K, Kiuchi T: Association between patients' communication motivation and physicians' past reactions/attitudes regarding complementary and alternative medicine use in Japan, *Jpn Pharmacol Ther*, 46: 7; 1213–1221, 2018.
- 7200B008 Hisamura K, Matsushima E, Tsukayama S, Murakami S, Motoo Y: An exploratory study of social problems experienced by ambulatory cancer patients in Japan: Frequency and association with perceived need for help, *Psychooncology*, 27: 7; 1704–1710, 2018.
- 7200B009 (Arai I), Hagiwara Y, Motoo Y: Estimated incidence of adverse reactions to Kampo medicines in randomized controlled clinical trials, *TRADITIONAL & KAMPO MEDICINE*, 5: 2; 106–112, 2018.
- 7200B0010 Toshimi Otsuka, Tomomitu Tahara, Masakatsu Nakamura, Wu Jing, Masafumi Ota, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Tomoyuki Shibata, Tomiyasu Arisawa: Polymorphism rs7521584 in miR-429 is associated with the severity of atrophic gastritis in patients with *Helicobacter pylori* infection, *Molecular Medicine Reports*, 18: 2; 2381–2386, 2018.
- 7200B011 Motoo Y, Yukawa K, Hisamura K, Arai I: Usability of the evidence-based Japanese Integrative Medicine information site: analysis with focus group discussion and internet survey on the general population, *Integr Med Res*, 7: 3; 238–247, 2018.

Reviews

- 7200C001 Akiko Sakasai-Sakai, Jun-ichi Takano, Atsushi Fukumura, Takanobu Takata, Mikihiro Tsutsumi, Masayoshi Takeuchi: Toxic AGEs (TAGE) theory for pathophysiology of the onset / progression of NAFLD and ALD, *The journal of Japan Mibyo System Association*, 24: 1; 19–25, 2018.
- 7200C002 Takanobu Takata, Akiko Sakasai-Sakai, Masayoshi Takeuchi: Novel biomarker toxic AGEs (TAGE) in the onset / progression of lifestyle-related (LSRD), *The journal of Japan Mibyo System Association*, 24: 2; 27–33, 2018.
- 7200C003 Takeo Shimasaki, Satoko Yamamoto, Tomiyasu Arisawa: Exosome Research and Co-culture Study, *BIOLOGICAL & PHARMACEUTICAL BULLETIN*, 41: 9; 1311–1321, 2018.

Case Reports

- 7200D001 Hidehiro Ishikawa, Atsushi Niwa, Masaru Asahi, Keita Matsuura, Satoshi Masuzugawa, Yo Niida, Masayuki Maeda, Mineo Kondo, Hidekazu Tomimoto: Diffusion tensor imaging and magnetic resonance spectroscopy in a patient with adult onset tuberous sclerosis complex, *JOURNAL OF CLINICAL NEUROSCIENCE*, 48: 108–110, 2018.

Presentations at Conference

International Conference (Key Note Lecture)

- 7200G001 Y Motoo: Chemotherapy-induced peripheral neuropathy: a new approach, International Symposium of Integrative Medicine Research, Seoul, 2018.
- 7200G002 Motoo Y: Plenary Lecture III. Role of Kampo Medicine in the supportive care of cancer patients, 19th International Congress of Oriental Medicine, Taipei, 2018.

International Conference (Presentations)

- 7200I001 Y Motoo, K Yukawa, K Hisamura, I Arai: Usability of the evidence-based Japanese Integrative Medicine information site: Analysis with focus group discussion and internet survey on general population., 2018 International Congress on Integrative Medicine and Health, Baltimore, 2018.
- 7200I002 Y Motoo, M Hosaka, I Arai, Y Ishiura, T Ito, Y Seki, T Naito, Y Masuzawa, T Nakayama: Efficacy of traditional Japanese medicine (Kampo) in supportive care in cancer: a meta-analysis of randomized controlled trials, MASCC 2018, Vienna, 2018.
- 7200I003 Takeo.Shimasaki, Satoko.Yamamoto: Development of new co-culture vessel and the selection of filters for the exosome study., 10thJARI/5thdJSEV, Hiroshima, 2018.
- 7200I004 Yo NIIDA, Hiroki Ura, Sumihito Togi, Mamoru Ozaki: Mutational Analysis of TSC1 and TSC2 in Japanese Patients with Tuberous Sclerosis Complex, International TSC Research Conference 2018, Tokyo, 2018.

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

Publications

Originals

- 7310B001 Hitomi Boda, Tran Ngoc Nghi, Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Hoang Van Luong, Tran Hai Anh, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Prenatal dioxin exposure estimated from dioxins in breast milk and sex hormone levels in umbilical cord blood in Vietnamese newborn infants, *The Science of the total environment*, 615: 1312–1318, 2018.
- 7310B002 (Soisungwan Satarug), Muneko Nishijo, Pailin Ujjin, Michael R Moore: Chronic exposure to low-level cadmium induced zinc-copper dysregulation, *JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY*, 46: 32–38, 2018.
- 7310B003 Muneko Nishijo, Hideaki Nakagawa, Yasushi Suwazono, Kazuhiro Nogawa, Masaru Sakurai, Masao Ishizaki, Teruhiko Kido: Cancer Mortality in Residents of the Cadmium-Polluted Jinzu River Basin in Toyama, Japan, *Toxics*, 6: 2; 23, 2018.
- 7310B004 (Soisungwan Satarug), Werawan Ruangyuttikarn, Muneko Nishijo, Patricia Ruiz: Urinary Cadmium Threshold to Prevent Kidney Disease Development, *Toxics*, 6: 2; 26, 2018.
- 7310B005 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855–861, 2018.
- 7310B006 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Increase of lifetime cadmium intake dose-dependently increased all cause of mortality in female inhabitants of the cadmium-polluted Jinzu River basin, Toyama, Japan, *Environmental research*, 164: 379–384, 2018.
- 7310B007 Anh Thi Nguyet Nguyen, Muneko Nishijo, Tai The Pham, Nghi Ngoc Tran, Anh Hai Tran, Luong Van Hoang, Hitomi Boda, Yuko Morikawa, Yoshikazu Nishino, Hisao Nishijo: Sex-specific effects of perinatal dioxin exposure on eating behavior in 3-year-old Vietnamese children, *BMC PEDIATRICS*, 18: 213, 2018.

- 7310B008 (Hoang Van Luong), Pham The Tai, Muneko Nishijo, Do Minh Trung, Pham Ngoc Thao, Pham Van Son, Nguyen Van Long, Nguyen Tung Linh, Hisao Nishijo: Association of dioxin exposure and reproductive hormone levels in men living near the Bien Hoa airbase, Vietnam, *The Science of the total environment*, 628-629: 484-489, 2018.
- 7310B009 (Kowit Nambunmee), Muneko Nishijo, Witaya Swaddiwudhipong, Werawan Ruangyuttikarn: Bone Fracture Risk and Renal Dysfunction in a Highly Cadmium Exposed Thai Population, *Journal of research in health sciences*, 18: 3; e00419, 2018.

Presentations at Conference

International Conference (Presentations)

- 7310I001 Muneko Nishijo, Pham Ngoc Thao, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Perinatal dioxin exposure and neurodevelopment of 2-year-old Vietnamese toddlers in the largest hot spot of Agent Orange contamination in Vietnam, 38th International Symposium on Halogenated persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.
- 7310I002 Pham Ngoc Thao, Muneko Nishijo, Pham The Tai, Tran Ngoc Nghi, Le Van Quan, Tran Hai Anh, Phan Huy Anh, Yoshikazu Nishino, Hisao Nishijo: Effects of dioxin exposure on gaze behaviour in children at 3 years of age living in a hotspot of dioxin contamination in Vietnam, 38th International Symposium on Halogenated Persistent Organic Pollutants DioXin 2018, Krakow, 2018.08.

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 Masamichi Fukuda, Shinsuke Shibata, Naoko Shibata, Nobuyuki Fujita, Hisanori Miyashita, Naoki Tanimura, Hidetoshi Ishida, Eri Kubo, Hiroshi Sasaki: Polyvinyl alcohol-iodine induced corneal epithelial injury in vivo and its protection by topical rebamipide treatment, PLOS ONE, 13: 11; e0208198, 2018.
- 7320B002 Yukihiro Koyama, Kazuko Kiagawa, Kenta Hagihara, Shinsuke Shibata, Hiroshi Sasaki: Antibacterial Resistance of *Corynebacterium* sp. Detected from Dul-de-sac Before Ocular surgeries, 2005~2016, Journal of the Eye, 35: 11; 1536-1539, 2018.
- 7320B003 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P. Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, Mechanisms of Ageing and Development, 171: 24-30, 2018.
- 7320B004 Masami Kojima, Yukihisa Suzuki, Kensuke Sasaki, Masao Taki, Kanako Wake, Soichi Watanabe, Maya Mizuno, Takafumi Tasaki, Hiroshi Sasaki: Ocular Effects of Exposure to 40, 75, and 95 GHz Millimeter Waves, Journal of Infrared, Millimeter, and Terahertz Waves, 39: 9; 912-925, 2018.

- 7320B005 Eri Kubo, Teppei Shibata, Dharendra P. Singh and Hiroshi Sasaki: Roles of TGF β and FGF Signals in the Lens : Tropomyosin Regulation for Posterior Capsule Opacity, International Journal of Molecular Sciences, 19: 3093, 2018.

Reviews

- 7320C001 Hiroshi Sasaki: Cataract, Nippon Rinsho, 76: 7; 178–182, 2018.

Presentations at Conference

International Conference (Presentations)

- 7320I001 Masamichi Fukuda, Shinsuke Shibata, Naoko Shibata, Nobuyuki Fujita, Hisanori Miyashita, Naoki Tanimura, Hidetoshi Ishida, Eri Kubo, Hiroshi Sasaki: Polyvinyl alcohol-iodine induced corneal epithelial injury in vivo and its protection by topical rebamipide treatment, PLOS ONE, 13: 11; e0208198, 2018.
- 7320I002 Shinsuke Shibata, Naoko Shibata, Teppei Shibata, Hidetoshi Ishida, Etsuko Kiyokawa, Hiroshi Sasaki, Eri Kubo: Expression of proteoglycan deorin in opacified posterior capsule and its suppression by TGF β in mouse lensepithelial cells, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 7320I003 Eri Shibuya, Mai Kita, Teppei Shibata, Hisanori Miyashita, Naoki Tanimura, Natsuko Hatsusaka, Norihiro Mita, Eri Kubo, Hiroshi Sasaki: Ten-year follow-up of eyes with waterclefts in Monzen Eye Study, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 7320I004 Eri Kubo, Teppei Shibata, Etsuko Kiyokawa, Masahito Ikawa, Dharendra P. Singh, Hiroshi Sasaki: Tropomyosin is required for normal Lens development and differentiation, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 7320I005 Hisanori Miyashita, Natsuko Hatsusaka, Hiromi Osada, Teppei Shibata, Naoki Tanimura, Hidetoshi Ishida, Yutaka Kawakami, Norihiro Mita, Eri Kubo, Hiroshi Sasaki: Risk factors for waterclefts in human crystalline lens, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 7320I006 Hiroshi Sasaki, Hidetoshi Ishida, Aya Ii, Mai Kita, Yusuke Seki, Naoko Shibata, Hisanori Miyashita, Eri Shibuya, Norihiro Mita, Eri Kubo: Accuracy of new postoperative ACD prediction formula using anterior segment OCT, The Association for Research in Vision and Ophthalmology, Honolulu, 2018.04.
- 7320I007 (Yukihisa Suzuki), Masami Kojima, Takafumi Tasaki, Yoshinori Tatematu, Masafumi Fukunari, Maya Mizuno, Kensuke Sasaki, Soichi Watanabe, Masao Taki, Masahiko Tani, Hiroshi Sasaki: Development of the 0.16THz in vivo exposure system for evaluating acute ocular damages with the high power gyrotron electromagnetic wave source, BioEM2018, Slovenia, 2018.06.
- 7320I008 (Yukihisa Suzuki), Takafumi Tasaki, Masami Kojima: Visualization and quantification of temperature distributions due to the millimeter wave exposure with micro-chromic liquid crystals, PIERS 2018, Toyama, 2018.08.
- 7320I009 Hiroshi Sasaki, Maiko Kita, Naoko Shibata, Shinsuke Shibata, Hidetoshi Ishida, Eri Kubo: Postoperative visual acuity estimation of extended-depth-of-focus intraocular lens by novel fellow eye self-tuning (FEST) method, ESCRS, VIENNA, 2018.09.
- 7320I010 Naoko Shibata, Ayako Takayama, Eri Shibuya, Hiroshi Sasaki: Influence of incision malposition and toric intraocular lens axis misalignment on surgically-induced astigmatism, ESCRS, VIENNA, 2018.09.

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

Books

- 7340A001 Keizo.Kanasaki: Pathophysiology of preeclampsia Glucose intolerance and insulin resistance: relevance in preeclampsia, Comprehensive Gynecology and Obstetrics Preeclampsia Basic, Genomic, and Clinical (Shigeru Saito Editor), 85–98, Springer, Singapore, 2018.

Publications

Originals

- 7340B001 Qiongying Hu, Jinpeng Li, Kyoko Nitta, Munehiro Kitada, Takako Nagai, Keizo Kanasaki, Daisuke Koya: FGFR1 is essential for N-acetyl-seryl-aspartyl-lysyl-proline regulation of mitochondrial dynamics by upregulating microRNA let-7b-5p, *Biochemical and Biophysical Research Communications*, 495: 3; 2214–2220, 2018.
- 7340B002 Munehiro Kitada, Yoshio Ogura, Taeko Suzuki, Itaru Monno, Keizo Kanasaki, Ai Watanabe, Daisuke Koya: A low-protein diet exerts a beneficial effect on diabetic status and prevents diabetic nephropathy in Wistar fatty rats, an animal model of type 2 diabetes and obesity, *Nutrition & Metabolism*, 15: 20, 2018.
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- 7340C001 Keizo Kanasaki: The role of renal dipeptidyl peptidase-4 in kidney disease: renal effects of dipeptidyl peptidase-4 inhibitors with a focus on linagliptin, *Clinical Science*, 132: 4; 489-507, 2018.
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Case Reports

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Presentations at Conference

International Conference (Symposium)

- 7340H001 Keizo Kanasaki: Symposium 5: DKD and CVD: Clinical Combating DKD: From pathogenesis to treatment, *International Society of Nephrology Frontiers Meetings*, Tokyo, 2018.02.
- 7340H002 Daisuke Koya: Japan experience in managing older T2DM: role of DPP4i as the first line therapy, *The 39th Annual Meeting of the Endocrine Society and the Diabetes Association of the R.O.C (Taiwan)*, Taipei, 2018.03.
- 7340H003 Daisuke Koya: Diabetes and kidney: from diabetologist's and nephrologist's view Growing challenge of diabetic nephropathy, *The 39th Annual Meeting of the Endocrine Society and the Diabetes Association of the R.O.C (Taiwan)*, Taipei, 2018.03.
- 7340H004 Daisuke Koya: Impact of metabolic abnormalities on diabetic kidney Regulating autophagy as a therapeutic target for diabetes nephropathy, *EASD 2018 BERLIN*, Berlin, 2018.10.

International Conference (Presentations)

- 7340I001 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Atg5 deficiency in endothelial cells contributes to the development of endothelial to mesenchymal transition and kidney fibrosis associated with the induction of IL-6, *ISN Frontiers Meetings 2018*, Tokyo, 2018.02.
- 7340I002 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Atg5 deficiency in endothelial cells contributes to the development of endothelial to mesenchymal transition and kidney fibrosis associated with the induction of IL-6, *Asian Pacific Congress of Nephrology 2018*, Beijing, 2018.03.

- 7340I003 Yuiko Mizunuma, Kyoko Nitta, Susumu Takagi, Keizo Kanasaki, Daisuke Koya: Backcross db gene into CD-1 background results in novel type 2 diabetic mouse model with progressive kidney fibrosis, The 78th Scientific Sessions of The American Diabetes Association, Orland, 2018.06.
- 7340I004 Yoshio Ogura, Munehiro Kitada, Itaru Monno, Ai Watanabe, Daisuke Koya: Renal mitochondrial oxidative stress induced by NAD⁺-dependent Sirt3 inactivation via overexpression of CD38 (NAD⁺ase) in diabetic kidney disease, The 78th Scientific Sessions of The American Diabetes Association, Orland, 2018.06.
- 7340I005 Yuta Takagaki, Seon Myeong Lee, Keizo Kanasaki, Daisuke Koya: Dipeptidyl peptidase-4 inhibition may accelerate cancer metastasis via SDF-1/CXCR4 pathway dependent epithelial mesenchymal transition, 2018 Asia Islet Biology & Incretin Symposium (AIBIS), Seoul, 2018.08.
- 7340I006 Yoshio Ogura, Munehiro Kitada, Itaru Monno, Daisuke Koya: Overexpression of CD38 (NADase) in diabetic kidney disease results in renal mitochondrial oxidative stress and pathologies via NAD⁺-dependent Sirt3 inactivation, EASD 2018 BERLIN, Berlin, 2018.10.
- 7340I007 (Fang Liz Zhou), Hirotaka Watada, Yuki Tajima, Mathilde Berthelot, Dian Kang, Cyril Esnault, Yujin Shuto, Hiroshi Maegawa, Daisuke Koya: Compare renal function preservation outcome of SGLT2 inhibitor vs DPP4 inhibitor in patients with type 2 diabetes: a retrospective cohort study of japanese commercial database with advanced analytics approach, ISPOR Europe 2018, Barcelona, 2018.11.

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
Professor(Additional Post)	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Associate Professor (Additional Post)	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics

Publications

Originals

- 7350B001 Yumi Sunatani, Radhika Pankaj Kamdar, Mukesh Kumar Sharma, Tadashi Matsui, Ryo Sakasai, Mitsumasa Hashimoto, Yasuhito Ishigaki, Yoshihisa Matsumoto, Kuniyoshi Iwabuchi: Caspase-mediated cleavage of X-ray repair cross-complementing group 4 promotes apoptosis by enhancing nuclear translocation of caspase-activated DNase, *Experimental cell research*, 362: 2; 450-460, 2018.
- 7350B002 Takanori Tatsuno, Yasuhito Ishigaki: C-terminal short arginine/serine repeat sequence-dependent regulation of Y14(RBM8A) localization, *SCIENTIFIC REPORTS*, 8: 612, 2018.
- 7350B003 Masafumi Ota, Tomomitu Tahara, Toshimi Otsuka, Wu Jing, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Masakatsu Nakamura, Tomoyuki Shibata, Tomoyasu Arisawa: Association between receptor interacting serine/threonine kinase 2 polymorphisms and gastric cancer susceptibility, *ONCOLOGY LETTERS*, 15: 3772-3778, 2018.
- 7350B004 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, *Mechanisms of Ageing and Development*, 171: 24-30, 2018.
- 7350B005 Takashi Iezaki, Tetsuhiro Horie, Kazuya Fukasawa, Makoto Kitabatake, Yuka Nakamura, Gyujin Park, Yuki Onishi, Kakeru Ozaki, Takashi Kanayama, Manami Hiraiwa, Yuka Kitaguchi, Katsuyuki Kaneda, Takayuki Manabe, Yasuhito Ishigaki, Mutsuhito Ohno, Eiichi Hinoi: Translational Control of Sox9 RNA by mTORC1 Contributes to Skeletogenesis, *Stem Cell Reports*, 11: 228-241, 2018.
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- 7350B007 Toshimi Otsuka, Tomomitu Tahara, Masakatsu Nakamura, Wu Jing, Masafumi Ota, Tomoe Nomura, Ranji Hayashi, Takeo Shimasaki, Tomoyuki Shibata, Tomiyasu Arisawa: Polymorphism rs7521584 in miR-429 is associated with the severity of atrophic gastritis in patients with *Helicobacter pylori* infection, *Molecular Medicine Reports*, 18: 2; 2381-2386, 2018.

Reviews

- 7350C001 Takeo Shimasaki, Satoko Yamamoto, Tomiyasu Arisawa: Exosome Research and Co-culture Study, *BIOLOGICAL & PHARMACEUTICAL BULLETIN*, 41: 9; 1311-1321, 2018.

Presentations at Conference

International Conference (Presentations)

- 73501001 Takeo Shimasaki, Satoko Yamamoto: Development of new co-culture vessel and the selection of filters for the exosome study., 10thJARI/5thdJSEV, Hiroshima, 2018.08.

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 (Additional Post)	MURAKAMI Manabu	Pathogenicity of flavivirus isolated from the field-collected mosquitoes

Publications

Originals

- 7400B001 Masaru Sakurai, Hideaki Nakagawa, Aya Kadota, Katsushi Yoshita, Yasuyuki Nakamura, Nagako Okuda, Nobuo Nishi, Yoshihiro Miyamoto, Hisatomi Arima, Takayoshi Ohkubo, Tomonori Okamura, Hirotsugu Ueshima, Akira Okayama, Katsuyuki Miura, NIPPON DATA2010 Res Grp: Macronutrient Intake and Socioeconomic Status: NIPPON DATA2010, JOURNAL OF EPIDEMIOLOGY, 28: 3; S17-S22, 2018.
- 7400B002 Maryam Zaid, Katsuyuki Miura, Akira Okayama, Hideaki Nakagawa, Kiyomi Sakata, Shigeyuki Saitoh, Nagako Okuda, Katsushi Yoshita, Sohel R Choudhury, Beatriz Rodriguez, Kamal Masaki, Bradley Willcox, Naoko Miyagawa, Tomonori Okamura, Queenie Chan, Paul Elliott, Jeremiah Stamler, Hirotsugu Ueshima, for the INTERLIPID and INTERMAP Research Groups: Associations of High-Density Lipoprotein Particle and High-Density Lipoprotein Cholesterol With Alcohol Intake, Smoking, and Body Mass Index — The INTERLIPID Study —, Circulation Journal, 82: 2557-2565, 2018.
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- 7400B008 Muneko Nishijo, Hideaki Nakagawa, Yasushi Suwazono, Kazuhiro Nogawa, Masaru Sakurai, Masao Ishizaki, Teruhiko Kido: Cancer Mortality in Residents of the Cadmium-Polluted Jinzu River Basin in Toyama, Japan, Toxics, 6: 2; 23, 2018.

- 7400B009 Teppei Shibata, Shinsuke Shibata, Yasuhito Ishigaki, Etsuko Kiyokawa, Masahiko Ikawa, Dharendra P Singh, Hiroshi Sasaki, Eri Kubo: Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity, *Mechanisms of Ageing and Development*, 171: 24-30, 2018.
- 7400B010 (Kazuhiro Nogawa), Yasushi Suwazono, Muneko Nishijo, Masaru Sakurai, Masao Ishizaki, Yuko Morikawa, Yuuka Watanabe, Teruhiko Kido, Hideaki Nakagawa: Relationship between mortality and rice cadmium concentration in inhabitants of the polluted Jinzu River basin, Toyama, Japan: A 26 year follow-up, *JOURNAL OF APPLIED TOXICOLOGY*, 38: 6; 855-861, 2018.
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- 7400B014 Nguyen Thi Phuong Oanh, Teruhiko Kido, Seiji Honma, Yuko Oyama, Le Thai Anh, Hoang Duc Phuc, Nguyen Hoang Viet, Ho Dung Manh, Rie Okamoto, Hideaki Nakagawa, Shoji F Nakayama, Dang Duc Nhu, Dao Van Tung, Vo Van Chi, Nguyen Hung Minh, Ngo Van Toan: Androgen disruption by dioxin exposure in 5-year-old Vietnamese children: Decrease in serum testosterone level, *The Science of the total environment*, 640-641: 466-474, 2018.

Himi Municipal Hospital

9100 Himi Municipal Hospital

Faculty

Title	Name	Field of Specialization
Director	TOGA Hirohisa	Respiratory Medicine
Professor	FUKUDA Akihiro	Cardiology
Professor	TOMIOKA Ryo	Neurology
Professor	KASAMAKI Yuji	General Medicine
Professor	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Professor	MORIYAMA Manabu	Kidney transplantation, Urolithiasis
Professor	HATASHIMA Sunao	Anesthesiology/Resuscitation studies
Professor	SAKATA Noriaki	Stomach cancer
Associate Professor	KIYOSAWA Jun	Cardiology
Senior Assistant Professor	SAITO Atsushi	Nephrology
Associate Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Associate Professor	IGUCHI Masaharu	Respiratory Medicine
Associate Professor	KUGINUKI Yasuaki	Medical Radiography
Associate Professor	HATANO Eiju	Spinal surgery
Associate Professor	MATSUI Toshiaki	Oral & Maxillofacial Surgery
Senior Assistant Professor	NAKAGAWA Ken	Respiratory Medicine
Senior Assistant Professor	KOBATA Takashi	Cardiovascular Surgery
Senior Assistant Professor	OHURA Kazuko	Otorhinolaryngology
Assistant Professor	TAKAGI Susumu	Diabetes
Assistant Professor	YAMADA Shinya	Respiratory Medicine
Assistant Professor	ISHIGAMI Keiichiro	Gerontology
Assistant Professor	SANGEN Ryusho	General Medicine
Assistant Professor	MUKAI Hirokado	Oncology Surgery
Assistant Professor	TAKAGI Sho	Cardiovascular Surgery
Assistant Professor	MACHIDA Yuichiro	Respiratory surgery
Assistant Professor	KUSABA Eizo	neurosurgery

Publications

Originals

- 9100B001 Masafumi Nojiri, Shiro Mizuno, Kazuaki Nishiki, Ryo Kato, Ken Nakagawa, Taku Oikawa, Masaharu Iguchi, Kazuhiro Osanai, Takeshi Ishizaki, Hirohisa Toga: ADRB2 gene polymorphism and emphysema heterogeneity can modulate bronchodilator response in patients with emphysema, *Pulmonary pharmacology & Therapeutics*, 48: 80-87, 2018.

- 9100B002 Daisuke Usuda, Yoshiki Furumura, Ryusho Sangen, Yu Hashimoto, Jun Kawamukai, Emiri Muranaka, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Iinuma, Tsugiyasu Kanda: Evaluation of B-type natriuretic peptide as prognostic marker in patients with pneumonia: An observational study, *Internal Medicine Review*, 4: 3; 1-28, 2018.
- 9100B003 Toshihiro Higashikawa, Masashi Okuro, Keiichirou Ishigami, Kunihiko Mae, Ryusho Sangen, Takuro Mizuno, Daisuke Usuda, Atushi Saito, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Shigeto Morimoto, Tsugiyasu Kanda: Procalcitonin and albumin as prognostic biomarkers in elderly patients with a risk of bacterial infection, *JOURNAL OF INTERNATIONAL MEDICAL RESEARCH*, 46: 7; 2606-2614, 2018.
- 9100B004 Toshihiro Higashikawa, Tomohiko Ito, Takuro Mizuno, Keiichirou Ishigami, Masaru Kohori, Kunihiko Mae, Ryusho Sangen, Daisuke Usuda, Atsushi Saito, Masaharu Iguchi, Yuji Kasamaki, Akihiro Fukuda, Hitoshi Saito, Tsugiyasu Kanda, Masashi Okuro: The effects of 12-month administration of tofogliflozin on electrolytes and dehydration in mainly elderly Japanese patients with type 2 diabetes mellitus, *JOURNAL OF INTERNATIONAL MEDICAL RESEARCH*, 46: 12; 5117-5126, 2018.

Case Reports

- 9100D001 Emi Kawakita, Keizo Kanasaki, Taro Hirai, Shin-ichi Tsuda, Ai Watanabe, Kyoko Nitta, Munehiro Kitada, Yoshio Ogura, Yuta Takagaki, Mizue Fujii, Takako Nagai, Keiji Shimada, Susumu Takagi, Yuiko Mizunuma, Itaru Monno, Shino Fujimoto, Hiroshi Minato, Nobuhiko Miyatake, Atsushi Nakagawa, Daisuke Koya: Severe electrolytes disorders with the interstitial kidney alterations in the patient with the history of total thyroidectomy and parathyroidectomy: possible role of vitamin D deficiency, *Clinical Case Reports*, 6: 6; 983-989, 2018.
- 9100D002 (Takehiro Kasahara), Yuji Yonezawa, Yoshihiro Ueda, Masatoshi Saito, Koji Kojima, Yuki Fujimoto, Hirohisa Toga, Hidetaka Nambo: Prediction of Oxygen Saturation by Pulse Oximetry from Image and Sound Data with Long Short-term Memory Recurrent Neural Network, *Sensors and Materials*, 30: 7; 1447-1455, 2018.
- 9100D003 Takashi Kobata, Sohsuke Yamada, Kenichi Mizutani, Nozomu Kurose, Sho Takagi, Yuichiro Machida, Tsugiyasu Kanda: A Surgical Case of Venous Aneurysm of the Cephalic Vein with Unique Clinicopathological Findings for Venous Dissection: A Possible New Entity, *Open Journal of Cardiovascular Surgery*, 10: 1-3, 2018.
- 9100D004 Daisuke Usuda, Yoshiki Furumura, Kento Takeshima, Ryusho Sangen, Yasuhiro Kawai, Yuji Kasamaki, Yoshitugu Iinuma, Tsugiyasu Kanda: Interleukin-18 as a diagnostic marker of adult-onset Still's disease in older patients: a case report and review of the literature, *Journal of medical case reports*, 12: 1; 198, 2018.
- 9100D005 Daisuke Usuda, Kento Takeshima, Ryusho Sangen, Kiusuke Nakamura, Kei Hayashi, Hideyuki Okamura, Yasuhiro Kawai, Yuji Kasamaki, Yoshitsugu Iinuma, Hitoshi Saito, Tsugiyasu Kanda, Sachio Urashima: Atypical lipomatous tumor in the ligamentum teres of liver: A case report and review of the literature, *World Journal of Clinical Cases*, 6: 12; 548-553, 2018.

Presentations at Conference

International Conference (Presentations)

- 9100I001 S.Shinomiya, S.Mizuno, F.Grimminger, H.A.Ghofrani, N.Weissmann, W.Seeger, B.Kojonazarov, H.Toga, R.T.Schermuly: Hypoxia-Induced Pulmonary Hypertension in C57BL/6J and C57BL/6N Mice: Is There Any Difference?, *American Thoracic Society 2018 International Conference*, San Diego, 2018.05.