

**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
Senior Assistant Professor	SHIMADA Hiroki	Medical science of free radical

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0100B001 T.Arikawa, S.Liao, H.Shimada, T.Inoue, H.Sakata-Haga, T.Nakamura, T.Hatta, H.Syoji: Galectin-4 expression is down-regulated in response to autophagy during differentiation of rat trophoblast cells, SCIENTIFIC REPORTS, 6:1-11, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0100I001 T.Tsukada, H.Shimada, W.He, H.Sakata-Haga, H.Iizuka, T.Hatta: Critical role of SOCS3 in the suppression of the maternal-fetal leukemia inhibitory factor signal relay pathway for fetal brain development, 5th Conference on Prenatal Programming and Toxicity, Kokura, 2016.

## 0110 Department of Anatomy II

### Faculty

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Title	Name	Field of Specialization
Professor	HONMA Satoru	gross anatomy
Senior Assistant Professor	SONOMURA Takahiro	Neuroanatomy, immunohistochemistry, electron microscopy, 3D reconstruction
Senior Assistant Professor	KOMINAMI Rieko	neuroanatomy
Senior Assistant Professor	YASUTAKA Satoru	gross anatomy

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### Keywords of Research

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arthrology, osteology, clinical anatomy, development, lymphatic vessels, muscle, innervation, nerve, ontogenesis, hippocampus, reconstruction, electron microscopy, vascularization, Neuroanatomy, FIB/SEM, BMI, gustatory

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### Outline of Research

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Theme of researches  
1) Human gross anatomy  
2) Neural network of the basal ganglia  
3) Circuit of gustatory in the central nervous system  
4) Tissue reconstruction and vascularization of human hippocampus

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### Publications

#### Originals

0110B001 (T.Tsukahara), M.Masuhara, H.Iwai, T.Sonomura, T.Sato: The effect of repeated stress on KCC2 and NKCC1 immunoreactivity in the hippocampus of female mice, *Data in Brief*, 6:521-525, 2016.

## 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	TAJIMA Nobuyoshi	molecular physiology
Assistant Professor	UCHIUMI Osamu	Neuroscience

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0120B001 M.Ono, DC.Bishop, DL.Oliver:Long-lasting sound-evoked afterdischarge in the auditory midbrain, *Scientific Reports*, 6:20757;1-11, 2016.
- 0120B002 J.Zou, M.Wang, O.Uchiumi, Y.Shui, Y.Ishigaki, X.Liu, N.Tajima, T.Akai, H.Iizuka, N.Kato:Learning impairment by minimal cortical injury in a mouse model of Alzheimer's disease., *Brain research*, 1637:56-63, 2016.
- 0120B003 (H.Yoshimura), T.Sugai, N.Kato, T.Tominaga, Y.Tominaga, T.Hasegawa, C.Yao, T.Akamatsu:Interplay between non-NMDA and NMDA receptor activation during oscillatory wave propagation: Analyses of caffeine-induced oscillations in the visual cortex of rats., *Neural networks : the official journal of the International Neural Network Society*, 79:141-149, 2016.
- 0120B004 (Y.Itokazu), N.Tajima, L.Kerosuo, P.Somerharju, H.Sariola, K.Yu Robert, R.Käkelä:A2B5+/GFAP+ Cells of Rat Spinal Cord Share a Similar Lipid Profile with Progenitor Cells: A Comparative Lipidomic Study., *Neurochemical research*, 41:7;1527-1544, 2016.
- 0120B005 T.Masuoka, M.Kudo, J.Yoshida, T.Ishibashi, I.Muramatsu, N.Kato, N.Imaizumi, M.Nishio:Long-term activation of group I metabotropic glutamate receptors increases functional TRPV1-expressing neurons in mouse dorsal root ganglia, *Frontiers in Cellular Neuroscience*, 10:79, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 0120I001 M.Ono, DC.Bishop, DL.Oliver:Long-Lasting Sound-Evoked Afterdischarge in the Auditory Midbrain, ARO 39th midwinter meeting, San Diego, 2016.
- 0120I002 (C.Chen), M.Cheng, T.Ito, M.Ono, S.Song:Cell type specific connectivity and function in auditory midbrain, Neuroscience 2016, San Diego, 2016.



## 0130 Department of Physiology II

### Faculty

Title	Name	Field of Specialization
Professor	SHIBAMOTO Toshishige	Circulatory Physiology
Professor	KURATA Yasutaka	Cardiac Electrophysiology
Associate Professor	TANIDA Mamoru	Circulatory Physiology
Assistant Professor	KUDA Yuichi	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 inhibitory effect of angiotensin II on inward rectifier K<sup>+</sup> currents via AT1 receptors in rat atrial myocytes, and 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 J.Song, M.Tanida, T.Shibamoto, T.Zhang, M.Wang, Y.Kuda, Y.Kurata.:The role of lumbar sympathetic nerves in regulation of blood flow to skeletal muscle during anaphylactic hypotension in anesthetized rats., 11:3;e0150882, 2016.
- 0130B002 M.Tanida, M.Takada, A.Kato-Kataoka, M.Kawai, K.Miyazaki, T.Shibamoto:Intragastric injection of Lactobacillus casei strain Shirota suppressed spleen sympathetic activation by central corticotrophin-releasing factor or peripheral 2-deoxy-d-glucose in anesthetized rats., Neuroscience Letters., 619:114-120, 2016.
- 0130B003 M.Wang, T.Shibamoto, Y.Kuda, M.Tanida, T.Zhang, J.Song, K.Mukai, Y.Kurata:The responses of pulmonary and systemic circulation and airway to allergic mediators in anesthetized rats., Biological and Pharmaceutical Bulletin, 39:(4);556-563, 2016.
- 0130B004 (K.Kimura), M.Tanida, N.Nagata, Y.Inaba, H.Watanabe, M.Nagashimada, T.Ota, S.Asahara, Y.Kido, M.Matsumoto, K.Toshinai, M.Nakazato, T.Shibamoto, S.Kaneko, M.Kasuga, H.Inoue:Central Insulin Action Activates Kupffer Cells by Suppressing Hepatic Vagal Activation via the Nicotinic Alpha 7 Acetylcholine Receptor., Cell Reports, 14:(10);2362-2374, 2016.

- 0130B005 (T.Kondo), I.Hisatome, S.Yoshimura, E.Mahati, T.Notsu, P.Li, K.Iitsuka, M.Kato, K.Ogura, J.Miake, T.Aiba, W.Shimizu, Y.Kurata, S.Sakata, N.Nakasone, H.Ninomiya, A.Nakai, K.Higaki, Y.Kawata, Y.Shirayoshi, A.Yoshida, K.Yamamoto.:Characterization of the novel mutant A78T-HERG from a long QT syndrome type 2 patient: Instability of the mutant protein and stabilization by heat shock factor 1., *Journal of Arrhythmia*, 32:(5);433-440, 2016.
- 0130B006 (N.Yamamoto), Y.Fujii, R.Kasahara, M.Tanida, K.Ohora, Y.Ono, K.Suzuki, K.Sobue:Simvastatin and atorvastatin facilitates amyloid  $\beta$ -protein degradation in extracellular spaces by increasing neprilysin secretion from astrocytes through activation of MAPK/Erk1/2 pathways., 64:6;952-962, 2016.
- 0130B007 (T.Sogo), K.Morikawa, Y.Kurata, P.Li, T.Ichinose, S.Yuasa, D.Nozaqi, J.Miake, H.Ninomiya, W.Shimizu, K.Fukuda, K.Yamamoto, Y.Shirayoshi, I.Hisatome I.:Electrophysiological properties of iPS cell-derived cardiomyocytes from a patient with long QT syndrome type 1 harboring the novel mutation M437V of KCNQ1., *Regenerative Therapy*, 4:9-17, 2016.
- 0130B008 (E.Mahati), P.Li, Y.Kurata, N.Maharani, N.Ikeda, S.Sakata, K.Ogura, J.Miake, T.Aiba, W.Shimizu, N.Nakasone, H.Ninomiya, K.Higaki, K.Yamamoto, A.Nakai, Y.Shirayoshi, I.Hisatome:M3 muscarinic receptor signaling stabilizing stabilizes a novel mutant human ether-a-go-go-related gene channel protein via phosphorylation of heat shock factor 1 in transfected cells., *Circulation Journal*, 80:2443-2452, 2016.
- 0130B009 M.Wang, T.Shibamoto, Y.Kuda, M.Tanida, T.Zhang, J.Song, Y.Kurata:The responses of pulmonary and systemic circulation and airway to anaphylactic mediators in anesthetized BALB/c mice., *Life Sciences*, 147:77-84, 2016.

## Presentations at Conference

### International Conference (Symposium)

- 0130H001 Y.Kurata, I.Hisatome, T.Shibamoto:Mechanisms of sinoatrial node pacemaking: novel insights into roles of the pacemaker current  $I_f$  from bifurcation analysis of mathematical models, *The 2016 International Symposium on Nonlinear Theory and its Applications (NOLTA2016)*, Yugawara, 2016.

### International Conference (Presentations)

- 0130I001 M.Tanida, T.Shibamoto:Effects of intracerebroventricular injection of nesfatin-1 on autonomic nerve activities in rats and mice, *Experimental Biology 2016*, San diego, 2016.
- 0130I002 M.Tanida, T.Zhang, T.Shibamoto:Renal sympathetic response to hemorrhagic shock in anesthetized mice, *38th Annual Conference on Shock*, Tokyo, 2016.

## 0140 Department of Biochemistry I

### Faculty

Title	Name	Field of Specialization
Professor	IWABUCHI Kuniyoshi	Molecular biology, DNA repair, p53-binding proteins
Assistant Professor	SAKASAI Ryo	DNA damage response induced by anti-cancer drugs
Assistant Professor	SUNATANI Yumi	Function of DNA damage repair protein
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 (H.J.Baek), Y.M.Lee, T.H.Kim, J.Y.Kim, E.J.Park, K.Iwabuchi, L.Mishra, S.S.Kim: Caspase-3/7-mediated Cleavage of  $\beta$  2-spectrin is Required for Acetaminophen-induced Liver Damage., International journal of biological sciences, 12:2;172-183, 2016.
- 0140B002 (M.Iimori), S.Watanabe, S.Kiyonari, K.Matsuoka, R.Sakasai, H.Saeki, E.Oki, H.Kitao, Y.Maehara: Phosphorylation of EB2 by Aurora B and CDK1 ensures mitotic progression and genome stability., Nature Communications, 7:11117, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0140I001 R.Sakasai, Y.Sunatani, T.Matsui, K.Iwabuchi: Topoisomerase II switching is regulated by ubiquitination, Gordon Research Conference, DNA Topoisomerase in Biology & Medicine, Sunday River, 2016.

## 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

### Publications

#### Originals

- 0150B001 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1-2;155-164, 2016.
- 0150B002 H.Saito, K.Iwabuchi, N.Fusaki, F. Ito:Generation of induced pluripotent stem cells from human melanoma tumor-infiltrating lymphocytes, *Journal of Visualized Experiments*, 117:e54375, 2016.

## 0160 Department of Pharmacology

### Faculty

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

### Keywords of Research

electropharmacology, electrophysiology, ionic channel, patch clamp, excitable membrane, cardiovascular system, ischemic disease, marine toxin, ATP-sensitive K<sup>+</sup> channel, store-operated Ca<sup>2+</sup> channel, Ca<sup>2+</sup> 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 I.Muramatsu, H.Yoshiki, K.Sada, J.Uwada, T.Taniguchi, T.Masuoka, M.Nishio:Binding Method for Detection of Muscarinic Acetylcholine Receptors in Receptor's Natural Environment, Muscarinic Receptor: From Structure to Animal Models, Volume 107 of the series Neuromethods, pp 69-81, Springer, Berlin, Germany, 2016.

### Publications

#### Originals

- 0160B001 I.Muramatsu, H.Yoshiki, J.Uwada, T.Masuoka, K.Sada, T.Taniguchi:Pharmacological evidence of specific acetylcholine transport in rat cerebral cortex and other brain regions., Journal of Neurochemistry, 139:4;566-575, 2016.
- 0160B002 T.Masuoka, M.Kudo, J.Yoshida, T.Ishibashi, I.Muramatsu, N.Kato, N.Imaizumi, M.Nishio:Long-term activation of group I metabotropic glutamate receptors increases functional TRPV1-expressing neurons in mouse dorsal root ganglia, Frontiers in Cellular Neuroscience, 10:79, 2016.

## **Presentations at Conference**

### **International Conference (Symposium)**

- 0160H001 T.Masuoka, T.Ishibashi, M.Nishio:Possible contribution of glutamate receptors in ocular hyperalgesia, XXI Biennial Meeting of the International Society for Eye Research, Tokyo, 2016.

### **International Conference (Presentations)**

- 0160I001 T.Masuoka, M.Kudo, T.Ishibashi, M.Nishio:TRPA1 channel modifies membrane current induced by TRPV1 channels activation in dorsal root ganglion neurons, Neuroscience 2016, San Diego, 2016.

## 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	TAKEDA Haruna	Mouse model for carcinogenesis, Two-photon microscopy 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 (H.Seifert), E.Hirata, M.Gore, K.Khabra, C.Messiou, J.Larkin, E.Sahai:Extrinsic factors can mediate resistance to BRAF inhibition in central nervous system melanoma metastases, *Pigment Cell & Melanoma Research*, 29:1:92-100, 2016.
- 0170B002 H.Yoshizaki, H.Ogiso, T.Okazaki, E.Kiyokawa:Comparative lipid analysis in the normal and cancerous organoids of MDCK cells., *Journal of Biochemistry*, 159:6:573-584, 2016.
- 0170B003 T.Shibata, S.Shibata, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh, E.Kubo:Propolis, a constituent of honey, inhibits the development of sugar cataracts and high-glucose-induced reactive oxygen species in rat lenses, *Journal of Ophthalmology*, 2016;1917093, 2016.
- 0170B004 H.Takeda, Alistair G.Rust, Jerrold M.Ward, Christopher Chin Kuan Yew, Nancy A.Jenkins, Neal G.Copeland:Sleeping Beauty transposon mutagenesis identifies genes that cooperate with mutant Smad4 in gastric cancer development, *Proceedings of the National Academy of Sciences of the United States of America*, 113:14:2057-2065, 2016.

#### Reviews

- 0170C001 E.Hirata, E.Kiyokawa:Future perspective of single-molecule FRET biosensors and intravital FRET microscopy., *Biophysical Journal*, 111:6:1103-1111, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0170I001 E.Kubo, T.Shibata, S.Shibata, H.Sasaki, E.Kiyokawa, M.Ikawa, DP.Singh:Knock-down of Tropomyosin 2 created by CRISPR-CAS9 in mouse induces age-related-cataract, *The Association for Research in Vision and Ophthalmology* 2016, Seattle, 2016.

## 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 neuritis, mesenchymal stem cell, matrix metalloproteinase, bone tumor, molecular genetics, molecular pathology, neuronal death, nitric oxide synthase, angiogenesis, HMGI-C, Fas/Fas ligand, NF  $\kappa$  B

### Outline of Research

1. Study on the functional gene networks involved in the progression of human lung cancer, especially regarding epithelial-mesenchymal transition of cancer cells, in order to establish novel molecular targets for the treatment. We are analyzing gene expression profiling data bioinformatically by means of ITP, one of the largest data-base for functional gene network/pathway analysis.
2. Molecular pathological diagnosis by FISH using probes origination from BAC clones and RT-PCR methods.
3. Study on the pathogenesis of atherosclerosis, particularly from the aspect of extracellular matrix (ECM). The major subjects are: 1) collagens in human atherosclerosis, 2) cellular interactions and growth regulatory molecules, and 3) ECM degradation and matrix metalloproteinases.

### Publications

#### Originals

- 0180B001 (K.Higashi), T.Yamagishi, Y.Ueda, Y.Ishigaki, M.Shimasaki, Y.Nakamura, M.Oguchi, T.Takegami, M.Sagawa, H.Tonami:Correlation of HIF-1  $\alpha$  /HIF-2  $\alpha$  expression with FDG uptake in lung adenocarcinoma., *Annals of nuclear medicine*, 30:10;708-715, 2016.
- 0180B002 K.Usuda, M.Sagawa, S.Maeda, N.Motono, M.Tanaka, Y.Machida, M.Matoba, T.Matsui, N.Watanabe, H.Tonami, Y.Ueda, H.Uramoto:Diagnostic performance of whole-body diffusion-weighted imaging compared to PET-CT plus brain MRI in staging clinically resectable lung cancer, *Asian Pacific journal of cancer prevention : APJCP*, 17:6;2775-2780, 2016.
- 0180B003 S.Ueda, T.Ichiseki, Y.Ueda, A.Kaneuji, N.Kawahara, T.Matsumoto:The timing of glucocorticoid-induced osteocytic cell necrosis under hypoxia, *International journal of clinical and experimental pathology*, 9:7;7470-7475, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0180I001 Y.Machida, Y.Ueda, M.Shimazaki, M.Tanaka, N.Motono, T.Matsui, K.Usuda, H.Uramoto:Analysis of postoperative survival in patients with resected lung adenocarcinoma according to the tumor-associated macrophages., *American Thoracic Society 2016, San Francisco*, 2016.



## 0190 Department of Microbiology

### Faculty

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

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### Keywords of Research

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Theiler's murine encephalomyelitis virus, central nervous system, demyelination, persistent infection, multiple sclerosis,

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### Outline of Research

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Studies on pathomechanism of virus induced demyelination

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### Publications

#### Originals

- 0190B001 M.Higuchi, H.Kawamura, H.Matsuki, T.Hara, M.Takahashi, S.Saito, K.Saito, S.Jiang, M.Naito, H.Kiyonari, M.Fujii:USP10 is an essential deubiquitinase for hematopoiesis and inhibits apoptosis of long-term hematopoietic stem cells., Stem Cell Reports, 7:1116-1129, 2016.

## 0200 Department of Immunology

### Faculty

Title	Name	Field of Specialization
Professor(Additional Post)	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Senior Assistant Professor	YABE-WADA Toshiki	Immunology, Functional biochemistry, Structural biochemistry
Assistant Professor	TAKEDA Kazuya	Immunology, Neuropathology
Assistant Professor	MATSUBA Shintaro	Immunological pharmacology

### 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 past 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 T.Yabe-Wada, S.Matsuba, K.Takeda, T.Sato, M.Suyama, Y.Ohkawa, T.Takai, H.Shi, C.C. Philpott, A.Nakamura:TLR signals posttranscriptionally regulate the cytokine trafficking mediator sortilin., *Scientific Reports*, 6:26566, 2016.
- 0200B002 (S.Saijo), A.Nagai, S.Kinjo, R.Mashimo, M. Akimoto, K.Kizawa, T.Yabe-Wada, N.Shimizu, H.Takahara, M. Unno:Monomeric Form of Peptidylarginine Deiminase Type I Revealed by X-ray Crystallography and Small-Angle X-ray Scattering., *Journal of Molecular Biology*, 428:15;3058-3073, 2016.
- 0200B003 M.Higashino, T.Yabe-Wada, S.Matsuda, K.Takeda, K.Anzawa, T.Mochizuki, K.Makimura, S.Saijyo, Y.Iwakura, H.Toga, A.Nakamura:A critical role of Dectin-1 in hypersensitivity pneumonitis., *Inflammation Research*, 65:3;235-244, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0200I001 T.Yabe-Wada, S.Matsuba, K.Takeda, T.Sato, M.Suyama, Y.Ohkawa, H.Shi, C.C.Philpott, A.Nakamura:TLR signals posttranscriptionally regulate the cytokine trafficking mediator sortilin, Gordon Research Conference on Protein Processing, Trafficking and Secretion, Colby-Sawyer College in New London NH United States, 2016.

0200I003 (A.Nagai), S.Saijo, S.Kinjo, R.Mashimo, M.Akimoto, K.Kizawa, T.Yabe-Wada, N.Shimizu, H.Takahara, M.Unno:Structural Studies of Peptidylarginine Deiminase Type I using X-ray Crystallography and Small-angle X-ray Scattering, 14th International Conference of the Asian Crystallographic Association, Hanoi, 2016.

## 0210 Department of Medical Zoology

### Faculty

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Title	Name	Field of Specialization
Senior Assistant Professor	MURAKAMI Manabu	Infection-mediated arthropod
Senior Assistant Professor	OIKAWA Yosaburo	diagnosis of parasitic disease, tick-borne disease

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### Keywords of Research

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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

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### Outline of Research

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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.
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### Publications

#### Originals

- 0210B001 (J.Suzuki), M.Hashino, S.Matsumoto, A.Takano, H.Kawabata, N.Takada, M.Andoh, Y.Oikawa, H.Kajita, A.Uda, K.Watanabe, T.Shimizu, M.Watarai:Detection of francisella tularensis and analysis of bacterial growth in ticks in Japan, Letters in applied microbiology, 63:4;240-246, 2016.
- 0210B002 M.Murakami, T.Tasaki, S.Nukuzuma, H.Minato, T.Nojima, Y.Ishigaki, T.Takegami:Japanese encephalitis virus replication and inhibitory effect of shRNA in mice, Advances in Microbiology, 6:6;462-470, 2016.
- 0210B003 (N.Takada), H.Iwasaki, Y.Yano, F.Ishiguro,S.Akachi, A.Uda, Y.Oikawa, M.Natsuaki, D.Hayasaka:Acari-borne infectious diseases and tick fauna as vector found recently in Hokuriku district along Japan Sea, 27:78-80, 2016.

#### Case Reports

- 0210D001 S.Miura, Y.Oikawa, N.Ueda, M.Murakami, N.Sakata:Case of viper (Glodius blomhoffii) bites treated with hospitalization in the Ishikawa Prefecture, Noto district, Clinical Parasitology, 27:1;75-77, 2016.

## 0220 Department of Pathology and Laboratory Medicine

### Faculty

Title	Name	Field of Specialization
Professor	NOJIMA Takayuki	surgical pathology, molecular pathology, basic science on bone and soft tissue tumors
Professor	MINATO Hiroshi	Surgical pathology, Pathological study of head and neck, lung, mediastinum, and pleura
Senior Assistant Professor	KUROSE Nozomu	surgical pathology, molecular pathology
Senior Assistant Professor	NAKADA Satoko	surgical pathology
Assistant Professor	KOBAYASHI Eriko	surgical pathology, molecular pathology
Assistant Professor	SHIOYA Akihiro	Surgical pathology
Assistant Professor	AIKAWA Akane	Surgical pathology

### Keywords of Research

pathology, surgical pathology, molecular pathology, ultrastructure, cytology, laboratory medicine, standardization of blood gas analysis, pulmonary function test, pulmonary pathology, lung, mediastinum, and pleura, head and neck, salivary gland

### Outline of Research

1. Severe patients with chronic obstructive pulmonary diseases (COPD) frequently show expiratory flow limitation (FL) during spontaneous breathing, which is a marker of severely deteriorated pulmonary function and determines the prognosis of this disease. I have developed a new technique to detect FL with a brief interruption of airflow during spontaneous breathing and have been studying for increasing the accuracy of this method.
2. Accuracy assurance of blood gas analysis: The recent blood gas analyzers are small, portable, and do measurements on bedside (POCY: Point of Care Testing). However, it is difficult to maintain the accuracy of blood gas analysis because of the disposable electrodes in this type of equipments. I have been developing a method of accuracy assurance for these equipments with newly developed standard materials for blood gas analysis.

### Publications

#### Originals

- 0220B001 N.Kurose: Clinicopathological analysis between IgG4-related and non-IgG4-related diseases occurring in various organs and tissues: Re-evaluation of comprehensive diagnostic criteria and usefulness of interleukin-6 immunostaining, *Journal of Kanazawa Medical University*, 41:76-85, 2016.
- 0220B002 (M.Kawaguchi), N.Hara, Bilim Vladimir, H.Koike, M.Suzuki, Kim Tae-Sun, Gao Nan, Dong Yu, Zhang Sheng, Y.Fujinawa, O.Yamamoto, H.Ito, Y.Tomita, Y.Naruse, A.Sakamaki, Y.Ishii, K.Tsuneyama, M.Inoue, Itoh Johbu, M.Yasuda, N.Sakata, Jung Cha-Gyun, S.Kanazawa, H.Akatsu, H.Minato, T.Nojima, K.Asai, Y.Miura: A diagnostic marker for superficial urothelial bladder carcinoma: lack of nuclear ATBF1 (ZFHX3) by immunohistochemistry suggests malignant progression, *BMC cancer*, 16:1;805, 2016.
- 0220B003 M.Murakami, T.Tasaki, S.Nukuzuma, H.Minato, T.Nojima, Y.Ishigaki, T.Takegami: Japanese encephalitis virus replication and inhibitory effect of shRNA in mice, *Advances in Microbiology*, 6:6;462-470, 2016.

- 0220B004 Y.Masaki, H.Kawabata, K.Takai, M.Kojima, N.Tsukamoto, Y.Ishigaki, N.Kurose, M.Ide, J.Murakami, K.Nara, H.Yamamoto, Y.Ozawa, H.Takahashi, K.Miura, T.Miyauchi, S.Yoshida, A.Momoi, N.Awano, S.Ikushima, Y.Ohta, N.Furuta, S.Fujimoto, H.Kawanami, T.Sakai, T.Kawanami, Y.Fujita, T.Fukushima, S.Nakamura, T.Kinoshita, S.Aoki:Proposed diagnostic criteria, disease severity classification and treatment strategy for TAFRO syndrome, 2015 version., *International journal of hematology*, 103:6;686–692, 2016.
- 0220B005 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki:Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder; TAFRO syndrome., *The Japanese journal of clinical hematology*, 57:10;2029–2037, 2016.
- 0220B006 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki, Japanese TAFRO syndrome research team: Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder;TAFRO syndrome, *The Japanese Journal of Clinical Hematology*, 57:10;195–203, 2016.
- 0220B007 M.Noguchi, M.Noguchi, Y.Ohno, E.Morioka, Y.Nakano, T.Kosaka, N.Kurose, H.Minato:Feasibility study of axillary reverse mapping for patients with clinically node–negative breast cancer., *European journal of surgical oncology*, 42:5;650–656, 2016.
- 0220B008 (K.Tanaka), T.Hasegawa, T.Nojima, Y.Oda, J.Mizusawa, H.Fukuda, Y.Iwamoto:Prospective evaluation of Ki-67 system in histological grading of soft tissue sarcomas in the Japan Clinical Oncology Group Study JCOG0304, *World journal of surgical oncology*, 14:110, 2016.
- 0220B009 K.Hamada, T.Itoh, K.Kawaura, S.Azukisawa, R.Kobayashi, H.Okamura, H.Kitakata, S.Urashima, T.Nojima, M.Fujino:Findings of the margin around lesions by magnifying endoscopy with narrow–band imaging in early gastric carcinoma and intestinal metaplasia., *Journal of digestive diseases*, 17:6;377–382, 2016.

#### Reviews

- 0220C001 S.Nakada, H.Minato, T.Nojima:Clinicopathological differences between variants of the NAB2–STAT6 fusion gene in solitary fibrous tumors of the meninges and extra–central nervous system., *Brain tumor pathology*, 33:3;169–174, 2016.

#### Case Reports

- 0220D001 S.Mizuguchi, M.Nakano, T.Terauchi, M.Takenaka, N.Kurose, H.Minato, T.Nojima, M.Doai:A case report of primary mammary Rosai–Dorfman disease with contralateral micro–invasive ductal carcinoma, *The Journal of the Japanese Society of Clinical Cytology*, 55:5;329–333, 2016.
- 0220D002 A.Shioya, K.Saito, S.Nakada, H.Minato, T.Nojima:A case of diffuse pulmonary meningiotheliomatosis, *Japanese Journal of Diagnostic Pathology*, 33:350–354, 2016.
- 0220D003 (K.Mizuguchi), H.Minato, H.Onishi, Y.Mitani, J.Kawai:Cytopathological findings of primary pulmonary Ewing family of tumors with EWSR1 translocation: A case report, *Thoracic cancer*, 7:5;602–606, 2016.
- 0220D004 T.Onishi, N.Ueda, S.Miura, D.Kaida, H.Fujita, S.Kinami, T.Kosaka, S.Nakada: A case of invasive cholangiocarcinoma with diffuse biliary intraepithelial neoplasia, *Journal of Japan Biliary Association*, 30:4;741–748, 2016.
- 0220D005 (Y.Sasagawa), O.Tachibana, A.Nakagawa, S.Nakada, T.Nojima, D.Koya, H.Iizuka:Rapid enlargement of an intracranial germ cell tumor after gonadotropin hormone therapy, *JOURNAL OF CLINICAL NEUROSCIENCE*, 31:185–188, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0220I001 Y.Nakano, M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, T.Kosaka, T.Takahashi, H.Minato: The roles of 18F-FDG-PET/CT and US-guided FNAC in assessment of axillary nodal metastases in breast cancer patients, 8th Annual Asian Oncology Summit, 12th Annual Conference of the OOTR and Kyoto Breast Cancer Consensus Conference 2016, Kyoto, 2016.
- 0220I002 Y.Ohno, M.Noguchi, E.Morioka, M.Noguchi, Y.Nakano, T.Kosaka, H.Minato: Tangential frozen section analysis for the surgical margins in breast-conserving surgery, 8th Annual Asian Oncology Summit, 12th Annual Conference of the OOTR and Kyoto Breast Cancer Consensus Conference 2016, Kyoto, 2016.
- 0220I003 H.Minato: A case of sinonasal renal cell-like adenocarcinoma (discussant), The 6th Japan-Taiwan Conjoint Slide Conference of IAP, Nagoya, 2016.

## 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
Assistant Professor	HORI Kaori	Pediatric 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 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5;699–703, 2016.
- 0230B002 (T.Koyama), K.Yoshita, M.Sakurai, K.Miura, Y.Naruse, N.Okuda, A.Okayama, J.Stamler, H.Ueshima, H.Nakagawa:Relationship of Consumption of Meals Including Grain, Fish and Meat, and Vegetable Dishes to the Prevention of Nutrient Deficiency: The INTERMAP Toyama Study, *Journal of Nutritional Science and Vitaminology*, 62:2;101–107, 2016.
- 0230B003 M.Sakurai, J.Kobayashi, Y.Takeda, S.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi, H.Nakagawa:Sex Differences in Associations Among Obesity, Metabolic Abnormalities, and Chronic Kidney Disease in Japanese Men and Women, *Journal of Epidemiology*, 26:8;440–446, 2016.
- 0230B004 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa:Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men, *Journal of diabetes investigation*, 7:3;343–351, 2016.
- 0230B005 (Y.Isobe), M.Sakurai, Y.Kita, Y.Takeshita, H.Misu, S.Kaneko, T.Takamura:Fat-free mass and calf circumference as body composition indices to determine non-exercise activity thermogenesis in patients with diabetes, *Journal of Diabetes Investigation*, 7:3;352–358, 2016.
- 0230B006 (H.Nakashima), K.Homma, M.Yamazaki, M.Ishizaki, K.Mawatari:Database analysis of acidic proteins from halophilic halophilic species and their corresponding basic proteins from non-halophilic species, *British Biotechnology Journal*, 14:2;1–12, 2016.



## Reviews

- 0230C001 M.Sakurai:Effect of artificial sweeteners on glucose metabolism, Journal of the Japan Diabetes Society, 59:1;33-35, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0230I001 Y.Matsuda, R.Hashimoto, S.Takemoto, M.Ishizaki, Y.Kawasaki:A Dementia Screening Investigation for Inhabitants of Rural Areas in Japan, The 2016 Alzheimer's Disease Congress, London, 2016.

## 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 (D.Van Tung), T.Kido, S.Honma, HD.Manh, DD.Nhu, R.Okamoto, S.Maruzeni, M.Nishijo, H.Nakagawa, PT.Ngoc, N.Van Toan, NN.Hung, NH.Minh, K.Son Le:Low birth weight of Vietnamese infants is related to their mother's dioxin and glucocorticoid levels, *Environmental science and pollution research international*, 23:11;10922-10929, 2016.
- 0240B002 (XL.Sun), T.Kido, S.Honma, R.Okamoto, HD.Manh, S.Maruzeni, M.Nishijo, H.Nakagawa, T.Nakano, E.Koh, T.Takasuga, DD.Nhu, NN.Hung, K.Son Le:Influence of dioxin exposure upon levels of prostate-specific antigen and steroid hormones in Vietnamese men, *Environmental science and pollution research international*, 23:8;7807-7813, 2016.
- 0240B003 PT.Tai, M.Nishijo, TN.Nghi, H.Nakagawa. H.Van Luong, TH.Anh, H.Nishijo:Effects of Perinatal Dioxin Exposure on Development of Children during the First 3 Years of Life., *The Journal of pediatrics*, 175:159-166, 2016.
- 0240B004 (K.Nakamura), M.Sakurai, Y.Morikawa, S.Nagasawa, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa:Serum Ferritin, Insulin Resistance, and  $\beta$ -cell Dysfunction: A Prospective Study in Normoglycemic Japanese Men, *Experimental and clinical endocrinology & diabetes : official journal, German Society of Endocrinology [and] German Diabetes Association*, 25:1;12-20, 2016.
- 0240B005 Tran Nghi Ngoc, Pham Tai The, K.Ozawa, M.Nishijo, Nguyen Anh Thi Nguyet; Tran Tuong Quy, Hoang Luong Van, Tran Anh Hai, Phan Vu Huy Anh, A.Nakai, Y.Nishino, H.Nishijo:Impacts of Perinatal Dioxin Exposure on Motor Coordination and Higher Cognitive Development in Vietnamese Preschool Children: A Five-Year Follow-Up., *PLOS ONE*, 11:1:e0147655, 2016.

- 0240B006 (S.Virani), KM.Rentschler, M.Nishijo, W.Ruangyuttikarn, W.Swaddiwudhipong, N.Basu, LS.Rozek:DNA methylation is differentially associated with environmental cadmium exposure based on sex and smoking status, *Chemosphere*, 145:284–290, 2016.
- 0240B007 C.Chen, P.Xun, M.Nishijo, S.Carter, K.He:Cadmium exposure and risk of prostate cancer: a meta-analysis of cohort and case-control studies among the general and occupational populations, *Scientific reports*, 6:25814, 2016.
- 0240B008 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5:699–703, 2016.
- 0240B009 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa:Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men., *Journal of diabetes investigation*, 7:3:343–351, 2016.
- 0240B010 M.Sakurai, J.Kobayashi, Y.Takeda, S.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi, H.Nakagawa:Sex Differences in Associations Among Obesity, Metabolic Abnormalities, and Chronic Kidney Disease in Japanese Men and Women, *Journal of Epidemiology*, 26:8:440–446, 2016.
- 0240B011 Y.Hamazaki, Y.Morikawa, S.Morimoto, H.Nakagawa:Difference in the impact of homebound status on functional decline between independent older men and women: A 2 year follow-up study., *Japan journal of nursing science*, 13:2:265–272, 2016.

#### Reviews

- 0240C001 (Sauvaget Catherine), Y.Nishino, R.Konno, T.Tase, T.Morimoto, S.Hisamichi:Challenges in breast and cervical cancer control in Japan, *The Lancet Oncology*, 17:e305–e312, 2016.
- 0240C002 (C.Chen), P.Xun, M.Nishijo, K.He:Cadmium exposure and risk of lung cancer: a meta-analysis of cohort and case-control studies among general and occupational populations, *Journal of exposure science & environmental epidemiology*, 26:5:437–444, 2016.
- 0240C003 Y.Nishino:Importance of the national cancer registry in solving problems of statistics obtained from population-based cancer registries in Japan, *Journal of Kanazawa Medical University*, 41:3:73–75, 2016.

### Presentations at Conference

#### International Conference (Key Note Lecture)

- 0240G001 M.Nishijo, PN.Nghi, PT.Tai, H.Nishijo, Y.Nishino:Role of AHR signaling in effects on neurodevelopment in Vietnamese children perinatally exposed to Agent Orange, *AHR2016 The aryl hydrocarbon Receptor as a Central Mediator of Health and Disease*, Rochester, 2016.

#### International Conference (Presentations)

- 0240I001 M.Nishijo, PN.Thao, PT.Tai, T.Anh, H.Boda, S.Nagasawa, Y.Nishino, H.Nishijo:Neurotoxic effects of perinatal dioxin exposure on children in Vietnam:Two birth cohort studiies in hot spots of dioxin contamination from Agent Orange, *PPTox V*, Kitakyusyu, 2016.
- 0240I002 PN.Thao, M.Nishijo, PT.Tai, H.Nishijo, S.Nagasawa, Y.Nishino:A case control study of neurotoxic effects of perinatal dioxin exposure on children of 2years of age in Vietnam, *PPTox V*, Kitakyusyu, 2016.

## 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

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

### Outline of Research

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

### Publications

#### Case Reports

0250D001 H.Mizukami, M.Kobayashi, H.Takeshita, S.Takahashi, S.Hara, S.Mori, F.Kuriwa, T.Fukunaga:An Autopsy Case of a Woman Who Died Suddenly of Acute Myelogenous Leukemia, 59:47-52, 2016.

## 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
Professor	YASUDA Yukio	undergraduate clinical teaching, graduate education of physicians, medical education
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

#### Reviews

- 0260C001 A.Takamura:The new era of postgraduate certified general practice training in Japan., Education for primary care : an official publication of the Association of Course Organisers, National Association of GP Tutors, World Organisation of Family Doctors, 27:5;409-412, 2016.

# Clinical Medicine

## 0300 Department of Cardiology

### Faculty

Title	Name	Field of Specialization
Professor	KAJINAMI Kouji	Atherosclerosis, lipid metabolism
Professor	KITAYAMA Michihiko	Ischemic heart disease, Coronary intervention
Associate Professor	KAWAI Yasuyuki	Ischemic heart disease, Coronary intervention
Associate Professor	TSUCHIYA Taketsugu	Ischemic heart disease, Coronary intervention
Associate Professor	AKAO Hironobu	Ischemic heart disease, Coronary intervention
Associate Professor	FUJIOKA Nakaba	Arrhythmia, Catheter ablation
Senior Assistant Professor	WAKASA Minoru	Heart failure
Assistant Professor	AOKI Hirofumi	Heart failure
Assistant Professor	SAITO Ryuhei	Ischemic heart disease, Coronary intervention
Assistant Professor	FUJIBAYASHI Kousuke	Arrhythmia, Catheter ablation
Assistant Professor	TAKEDA Kenji	Molecular Biology
Assistant Professor	WATANABE Makoto	Ischemic heart disease, Coronary intervention
Assistant Professor	TAKANO Shintaro	Arrhythmia, Catheter ablation
Assistant Professor (Additional Post)	ISHIDA Ryoko	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 S.Takano, K.Fujibayashi, N.Fujioka, E.Ueno, M.Wakasa, Y.Kawai, K.Kajinami: Circulating Glutamate and Taurine Levels Are Associated with the Generation of Reactive Oxygen Species in Paroxysmal Atrial Fibrillation, Disease Markers, 2016:1-7, 2016.

- 0300B002 (K.Sai), K.Kajinami, H.Akao, M.Iwadare, R.Sato-Ishida, Y.Kawai, K.Takeda, T.Tanimoto, T.Yamano, T.Akasaka, T.Ishida, K.Hirata, K.Saku, S.Yagi, T.Soeki, M.Sata, M.Ueno, S.Miyazaki, A.Shiraki, J.Oyama, K.Node, K.Sugamura, H.Ogawa, K.Kurose, K.Maekawa, Y.Matsuzawa, T.Imatoh, R.Hasegawa, Y.Saito:A possible role for HLA-DRB1\*04:06 in statin-related myopathy in Japanese patients, *Drug metabolism and pharmacokinetics*, 31:6;467-470, 2016.
- 0300B003 K.Kajinami:Lipoprotein(a): Revisiting a Next Therapeutic Target., *Circulation journal*, 80:2;329-331, 2016.
- 0300B004 Y.Kawai, M.Kitayama, H.Akao, A.Motoyama, T.Tsuchiya, K.Kajinami:A case of coronary rupture and pseudoaneurysm formation after fracture of implanted paclitaxel-eluting stents., *Cardiovascular intervention and therapeutics*, 31:3;231-237, 2016.
- 0300B005 (K.Suzuki), M.Takahara, Y.Shintani, A.Tanaka, Y.Soga, T.Yamaoka, A.Tosaka, A.Sasaki, D.Kawasaki, T.Tsuchiya, A.Kozuki, O.Iida:Retrospective Multicenter Comparison of S.M.A.R.T. CONTROL and MISAGO Stents in Treatment of Femoropopliteal Lesions., *Journal of vascular and interventional radiology : JVIR*, 27:11;1642-1649, 2016.
- 0300B006 T.Tsuchiya, T.Takamura, Y.Soga, O.Iida, K.Hirano, K.Suzuki, T.Yamaoka, Y.Miyashita, M.Kitayama, K.Kajinami:Clinical impact and risk stratification of balloon angioplasty for femoropopliteal disease in nitinol stenting era: Retrospective multicenter study using propensity score matching analysis., *SAGE open medicine*, 4:1-12, 2016.
- 0300B007 W.Fujita, I.Matsunari, H.Aoki, S G.Nekolla, K.Kajinami:Prediction of all-cause death using (11)C-hydroxyephedrine positron emission tomography in Japanese patients with left ventricular dysfunction., *Annals of nuclear medicine*, 30:7;461-467, 2016.

#### Case Reports

- 0300D001 Y.Kawai, M.Kitayama, A.Motoyama, M.Wakasa, R.Saito, H.Aoki, K.Fujibayashi, M.Watanabe, T.Takamura, H.Akao, T.Tsuchiya, K.Kajinami:Chronic total occlusions of the right coronary and left anterior descending coronary arteries in a young adult patient with antiphospholipid syndrome, *Journal of Cardiology Cases*, 14:2;46-48, 2016.
- 0300D002 T.Takahashi, N.Watanabe, M.Wakasa, K.Kajinami, H.Tonami:18F-FDG PET/CT for Detecting Sarcoma of the Aorta in a Patient with Takayasu Arteritis, *Nuclear medicine and molecular imaging*, 50:2;171-172, 2016.

#### Presentations at Conference

##### International Conference (Presentations)

- 0300I001 E.Ueno, K.Fujibayashi, J.Sawaguchi, Y.Yasuda, S.Takano, R.Saito, M.Wakasa, N.Fujioka, Y.Kawai, K.Kajinami:Prothrombin activation fragment(F1+2) as an index of anticoagulant therapy with factor Xa inhibitor in atrial fibrillation, *ESC Congress 2016, Roma*, 2016.



## 0310 Department of Respiratory Medicine

### Faculty

Title	Name	Field of Specialization
Professor	TOGA Hirohisa	clinical respiratory medicine, sleep disordered breathing
Professor	OSANAI Kazuhiro	lung cell and molecular biology, COPD
Professor	ISHIZAKI Takeshi	Pulmonary circulation
Associate Professor	MIZUNO Shiro	lung cell and molecular biology, COPD
Associate Professor (Additional Post)	IGUCHI Masaharu	Respiratory Medicine
Senior Assistant Professor	TAKAHASHI Masakatsu	clinical respiratory medicine, pulmonary tuberculosis
Senior Assistant Professor	OIKAWA Taku	clinical respiratory medicine, lung cancer
Senior Assistant Professor	NAKAGAWA Ken	clinical respiratory medicine, lung cancer
Assistant Professor	FUJIMOTO Yuki	clinical respiratory medicine
Assistant Professor	KOJIMA Koji	clinical respiratory medicine
Assistant Professor	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

### 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 R.Kato, S.Mizuno, M.Kadowaki, K.Shiozaki, M.Akai, K.Nakagawa, T.Oikawa, M.Iguchi, K.Osanai, T.Ishizaki, N.F.Voelkel, H.Toga:Sirt1 expression is associated with CD31 expression in blood cells from patients with chronic obstructive pulmonary disease., *Respiratory research*, 17:1;139-151, 2016.
- 0310B002 M.Higashino, T.Yabe, S.Matsuda, K.Takeda, K.Anzawa, T.Mochizuki, K.Makimura, S.Saijo, Y.Iwakura, H.Toga, A.Nakamura:A critical role of Dectin-1 in hypersensitivity pneumonitis., *Inflammation Research*, 65:3;235-244, 2016.

- 0310B003 N.Motono, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, H.Toga, M.Matoba, M.Sagawa: The therapeutic strategy for clinical stage IA non-small cell lung cancer patients who are ineligible for lobectomy, *Haigan*, 56:3;183–188, 2016.

### Case Reports

- 0310D001 Y.Takahara, M.Nojiri, K.Kojima, S.Mizuno, K.Osanai, H.Toga:A Case of EGFR Mutation-positive Combined Small-cell Lung Carcinoma in a Nonsmoker in Whom Palliative Treatment with Gefitinib Was Successful, *Haigan*, 56:2;124–129, 2016.
- 0310D002 Y.Takahara, K.Nishiki, K.Nakase, R.Kato, S.Shinomiya, M.Saito, K.Kojima, Y.Fujimoto, K.Nakagawa, T.Oikawa, S.Mizuno, K.Osanai, H.Toga:A Case of Diffuse Pleural Invasion of Pseudomesotheliomatous Carcinoma with EGFR Mutation Diagnosed by Thoracoscopic Biopsy, *The Journal of the Japan Society for Respiratory Endoscopy*, 38:3;183–189, 2016.
- 0310D003 (M.Morikawa), Y.Fukuda, Y.Terasaki, H.Itoh, Y.Demura, M.Sasaki, Y.Imamura, C.Honjo, Y.Umeda, M.Anzai, S.Ameshima, T.Ishizaki, T.Ishizuka:Osteogenesis Imperfecta Associated with Dendriform Pulmonary Ossification., *American journal of respiratory and critical care medicine*, 193:4;460–461, 2016.
- 0310D004 Y.Yasui, M.Kohno, S.Nishida, T.Shironomae, M.Satomi, T.Kuwahara, S.Takahashi, Y.Niida:Cartilage-hair hypoplasia associated with isolated hypoganglionosis: A case report., *Congenital anomalies*, 52:32–34, 2016.
- 0310D005 (A.Takeuchi), N.Yamamoto, K.Hayashi, S.Miwa, M.Takahira, K.Fukui, T.Oikawa, H.Tsuchiya:Tenosynovial giant cell tumors in unusual locations detected by positron emission tomography imaging confused with malignant tumors: report of two cases., *BMC musculoskeletal disorders*, 17:180, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0310I001 S.Mizuno:Circulating micro-RNA profiling of animal model of pulmonary hypertension, 4th International Issyk Kul-Leh Symposium 2016, Kyrgyz, 2016.

## 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	

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0320B001 (T.Tahara), T.Shibata, T.Kawamura, T.Ishizuka, M.Okubo, M.Nagasaka, Y.Nakagawa, T.Arisawa, N.Ohmiya, I.Hirata:Telomere length in non-neoplastic gastric mucosa and its relationship to H.pylori infection,degree of gastritis,and NSAID use, Clinical and Experimental Medicine, 16:1;65-71, 2016.
- 0320B002 K.Tamura, N.Hayashi, J.George, M.Toshikuni, T.Arisawa, J.Hiratake, M.Tsuchishima, M.Tsutsumi:GGsTop, a novel and specific  $\gamma$ -glutamyl transpeptidase inhibitor, protects hepatic ischemia-reperfusion injury in rats., American journal of physiology. Gastrointestinal and liver physiology, 311:2;G305-G312, 2016.

- 0320B003 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1-2;155-164, 2016.

### Reviews

- 0320C001 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto:Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, *Suizo*, 31:1;76-84, 2016.
- 0320C002 (T.Domoto), Pyko Ilya V, T.Furuta, K.Miyashita, M.Uehara, T.Shimasaki, M.Nakada, T.Minamoto:Glycogen synthase kinase-3  $\beta$  is a pivotal mediator of cancer invasion and resistance to therapy., *Cancer science*, 107:10;1363-1372, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0320I001 T.Arisawa, M.Ota, T.Tahara, J.Wu, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:A polymorphisms of DNMT3A gene is clisely associated with the severity of gastric mucosal atrophy, APDW2016, Kobe, 2016.
- 0320I002 J.Wu, T.Arisawa, T.Tahara, M.Ota, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:The association between genetic polymorphisms of DNMT3A(rs6733868 and rs13428812)and the susceptibility to the gastric cancer in japan, APDW2016, Kobe, 2016.

## 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
Senior Assistant Professor	YAMAYA Hideki	Clinical nephrology
Senior Assistant Professor	ADACHI Hiroki	Clinical nephrology
Senior Assistant Professor	FUJIMOTO Keiji	Clinical nephrology
Assistant Professor	IMURA Junko	Clinical nephrology
Assistant Professor	CHIKAZAWA Yoshihiro	Clinical nephrology
Assistant Professor	NAKAGAWA Masaru	Clinical nephrology
Assistant Professor	HAYAMA Satoshi	Clinical nephrology
Assistant Professor	MATSUI Yuki	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

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0330B001 H.Yokoyama, I.Narita, H.Sugiyama, M.Nagata, H.Sato, Y.Ueda, S.Matsuo:Drug-induced kidney disease: a study of the Japan Renal Biopsy Registry from 2007 to 2015., *Clinical and experimental nephrology*, 20:5:720-730, 2016.

- 0330B002 H.Adachi, K.Nakayama, N.Hayashi, Y.Matsui, K.Fujimoto, H.Yamaya, H.Tonami, H.Yokoyama:Adiponectin Fractions Influence the Development of Posttransplant Diabetes Mellitus and Cardiovascular Disease in Japanese Renal Transplant Recipients, PLoS one, 11:10:e0163899, 2016.
- 0330B003 (H.Komatsu), S.Fujimoto, N.Yoshikawa, H.Kitamura, H.Sugiyama, H.Yokoyama:Clinical manifestations of Henoch-Schönlein purpura nephritis and IgA nephropathy: comparative analysis of data from the Japan Renal Biopsy Registry (J-RBR), Clinical and experimental nephrology, 20:4;552-560, 2016.
- 0330B004 M.Wang, T.Shibamoto, Y.Kuda, M.Tanida, T.Zhang, J.Song, K.Mukai, Y.Kurata:The responses of pulmonary and systemic circulation and airway to allergic mediators in anesthetized rats., Biological and Pharmaceutical Bulletin, 39:4;556-563, 2016.
- 0330B005 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, Molecular and Cellular Biochemistry, 413:1-2;155-164, 2016.

#### Others

- 0330F001 (J.Usui), K.Yamagata, E.Imai, H.Okuyama, H.Kajiyama, H.Kanamori, S.Kaneko, E.Kono, Y.Sakai, N.Sakai, Y.Sakamaki, Y.Taniguchi, K.Nakai, H.Nishiwaki, S.Hirata, H.Yamaya, S.Tsuruoka, Y.Terada, H.Yokoyama, T.Wada, I.Narita:Clinical practice guideline for drug-induced kidney injury in Japan 2016: digest version, Clinical and experimental nephrology, 20:6;827-831, 2016.

### Presentations at Conference

#### International Conference (Symposium)

- 0330H001 H.Yokoyama:Data on tacrolimus for maintenance therapy of lupus nephritis, Lupus Nephritis Expert Meeting, Tokyo, 2016.

#### International Conference (Presentations)

- 0330I001 Y.Matsui, N.Hayashi, J.Imura, K.Fujimoto, H.Adachi, H.Yamaya, H.Yokoyama:DNA double-strand breaks induced intractable glomerular fibrosis in renal allografts, Transplantation Science Symposium (TSS) Asian Regional Meeting 2016, Tokyo, 2016.
- 0330I002 H.Yokoyama, H.Yamaya, H.Sugiyama, I.Narita:Drug-Induced glomerular kidney disease in Japan, 53rd Congress ERA-EDTA in Vienna Austria, Vienna Austria, 2016.
- 0330I003 N.Hayashi, Y.Matsu, J.Imura, K.Fujimoto, H.Adachi, H.Yamaya, H.Yokoyama:Prevalence of M-type phospholipase A2 receptor (PLA2R) and thrombospondin type-1 domain-containing 7A(THSD7A) in the glomerular deposits of Japanese membranous nephropathy, 53rd Congress ERA-EDTA in Vienna Austria, Vienna, 2016.
- 0330I004 H.Adachi, K.Nakayama, N.Hayashi, Y.Matsui, K.Fujimoto, H.Yamaya, H.Tonami, H.Yokoyama:High-Molecular-Weight adiponectin inhibits the progression of vascular calcification in Japanese renal allograft recipients, The Annual of American Society of Nephrology 2016, Chicago, 2016.
- 0330I005 K.Okino, Y.Okushi, K.Mukai, Y.Matsui, N.Hayashi, K.Fujimoto, H.Adachi, H.Yamaya, H.Yokoyama:The Long-Term outcome of hepatitis C viral core Antigen-Positive Japanese renal allograft recipients, The Annual of American Society of Nephrology 2016, Chicago, 2016.
- 0330I006 Y.Okushi, K.Okino, K.Mukai, Y.Matsui, N.Hayashi, H.Adachi, H.Yamaya, H.Yokoyama:Circulating and renal expression of HLA-G prevented renal allograft dysfunction in Japanese recipients, The Annual of American Society of Nephrology 2016, Chicago, 2016.

## 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	TSUDA Shinichi	diabetes, hypertension, arteriosclerosis
Assistant Professor	WATANABE Ai	diabetes

### Keywords of Research

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

### Outline of Research

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

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

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

### Publications

#### Originals

- 0340B001 S.Shi, K.Kanasaki, D.Koya:Linagliptin but not sitagliptin inhibited transforming growth factor- $\beta$  2-induced endothelial DPP-4 activity and the endothelial-mesenchymal transition., *Biochemical and biophysical research communications*, 471:1;184-190, 2016.
- 0340B002 (A.Tagawa), M.Yasuda, S.Kume, K.Yamahara, J.Nakazawa, M.Chin-Kanasaki, H.Araki, S.Araki, D.Koya, K.Asanuma, EH.Kim, M.Haneda, N.Kajiwara, K.Hayashi, H.Ohashi, S.Ugi, H.Maegawa, T.Uzu:Impaired podocyte autophagy exacerbates proteinuria in diabetic nephropathy., *Diabetes*, 65:3;755-767, 2016.
- 0340B003 K.Nitta, Shi Sen, T.Nagai, M.Kanasaki, M.Kitada, Srivastava Swayam Prakash, M.Haneda, K.Kanasaki, D.Koya:Oral administration of N-acetyl-seryl-aspartyl-lysyl-proline ameliorates kidney disease in both type 1 and type 2 diabetic mice via a therapeutic regimen., *BioMed research international*, 2016:9172157, 2016.

- 0340B004 M.Kitada, Y.Ogura, T.Suzuki, S.Sen, S.M.Lee, K.Kanasaki, S.Kume, D.Koya:A very-low-protein diet ameliorates advanced diabetic nephropathy through autophagy induction by suppression of the mTORC1 pathway in Wistar fatty rats, an animal model of type 2 diabetes and obesity., *Diabetologia*, 59:6;1307–1317, 2016.
- 0340B005 S.P.Srivastava, S.Shi, M.Kanasaki, T.Nagai, M.Kitada, J.He, Y.Nakamura, Y.Ishigaki, K.Kanasaki, D.Koya:Effect of antifibrotic microRNAs crosstalk on the action of N-acetyl-seryl-aspartyl-lysyl-proline in diabetes-related kidney fibrosis., *Scientific reports*, 6:29884, 2016.
- 0340B006 (K.Ueshima), H.Itoh, N.Kanazawa, I.Komuro, R.Nagai, M.Takeuchi, T.Yamazaki, EMPATHY study group, D.Koya, A.Nakagawa, M.Nishizawa, M.Kitada, S.Tsuda, K.Konishi:Rationale and design of the standard versus intensive statin therapy for hypercholesterolemic patients with diabetic retinopathy (EMPATHY) study: a randomized controlled trial, 23:8;976–990, 2016.
- 0340B007 (S.Kume), M.Kondo, S.Maeda, Y.Nishio, T.Yanagimachi, Y.Fujita, M.Haneda, K.Kondo, A.Sekine, S.Araki, H.Araki, M.Chin-Kanasaki, S.Ugi, D.Koya, S.Kitahara, K.Maeda, A.Kashiwagi, T.Uzu, H.Maegawa:Hypothalamic AMP-activated protein kinase regulates biphasic insulin secretion from pancreatic  $\beta$  cells during fasting and in type 2 diabetes, *EBioMedicine*, 13:168–180, 2016.
- 0340B008 (S.Kuwagata), S.Kume, M.Chin-Kanasaki, H.Araki, S.Araki, J.Nakazawa, T.Sugaya, D.Koya, M.Haneda, H.Maegawa, T.Uzu:MicroRNA148b-3p inhibits mTORC1-dependent apoptosis in diabetes by repressing TNFR2 in proximal tubular cells., *Kidney international*, 90:6;1211–1225, 2016.
- 0340B009 (T.Uzu), S.Araki, A.Kashiwagi, M.Haneda, D.Koya, H.Yokoyama, Y.Kida, M.Ikebuchi, T.Nakamura, M.Nishimura, N.Takahara, T.Obata, N.Omichi, K.Sakamoto, R.Shingu, H.Taki, Y.Nagai, H.Tokuda, M.Kitada, M.Misawa, A.Nishiyama, H.Kobori, H.Maegawa, The Shiga Committee for Preventing Diabetic Nephropathy:Comparative effects of direct renin inhibitor and angiotensin receptor blocker on albuminuria in hypertensive patients with type 2 diabetes. A randomized controlled trial, *PLoS ONE*, 11:e0164936, 2016.

## Reviews

- 0340C001 K.Kanasaki:The pathological significance of dipeptidyl peptidase-4 in endothelial cell homeostasis and kidney fibrosis, *Diabetology International*, 7:3;212–220, 2016.
- 0340C002 (D.J.Klionsky), D.Koya, T.Okazaki et al.:Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)., *Autophagy*, 12:1;1–222, 2016.
- 0340C003 (A.Takagi), S.Kume, M.Kondo, J.Nakazawa, M.Chin-Kanasaki, H.Araki, S.Araki, D.Koya, M.Haneda, T.Chano, T.Matsusaka, K.Nagao, Y.Adachi, L.Chan, H.Maegawa, T.Uzu:Mammalian autophagy is essential for hepatic and renal ketogenesis during starvation., *Scientific reports*, 6:18944, 2016.
- 0340C004 S.Shi, D.Koya, K.Kanasaki:Dipeptidyl peptidase-4 and kidney fibrosis in diabetes., *Fibrogenesis & tissue repair*, 9:1, 2016.
- 0340C005 M.Kitada, Y.Ogura, D.Koya:The protective role of sirt1 in vascular tissue: its relationship to vascular aging and atherosclerosis., *Aging(Albany NY)*, 8:10;2290–2307, 2016.
- 0340C006 M.Kitada, Y.Ogura, D.Koya:Rodent models of diabetic nephropathy: their utility and limitations., *International journal of nephrology and renovascular disease*, 9:279–290, 2016.

## Case Reports

- 0340D001 S.Tsuda, K.Konishi, T.Otoda, T.Nagai, A.Takeda-Watanabe, M.Kanasaki, M.Kitada, A.Nakagawa, M.Nishizawa, K.Kanasaki, D.Koya:Restoration of the hypothalamic-pituitary-adrenal response to hypoglycemia in type 2 diabetes by avoiding chronic hypoglycemia., *Internal medicine*, 55:23;3471–3473, 2016.
- 0340D002 (Y.Sasagawa), O.Tachibana, A.Nakagawa, S.Nakada, T.Nojima, D.Koya, H.Iizuka:Rapid enlargement of an intracranial germ cell tumor after gonadotropin hormone therapy, *JOURNAL OF CLINICAL NEUROSCIENCE*, 31:185–188, 2016.



### Short Communications

- 0340E001 K.Kanasaki:Concerted efforts to combat diabetic complications., *Kidney international*, 89:2;269–271, 2016.
- 0340E002 M.Kitada, Y.Ogura, D.Koya:The protective effect of a low-protein diet against tubulo-interstitial damage in diabetic kidneys, *Cellular & Molecular Medicine: Open access*, 2:2;6–7, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0340I001 O.Tachibana, Y.Sasagawa, A.Nakagawa, D.Koya, Y.Hayashi, M.Nakada, H.Iizuka:Expression of proinflammatory cytokines and receptors in symptomatic Rathke cleft cysts – a possible mediator of secondary hypophysitis with Rathke cleft cyst –, Euro-pit and 14th IPPC meeting in Annecy, Lyon, 2016.
- 0340I002 (N.Ueki), S.Takeda, D.Koya, K.Kanasaki:Catechol-O-methyltransferase deficiency leads to hypersensitivity on the pressor response against angiotensin II, *American Society of Nephrology(KIDNEY WEEK 2016)*, Chicago, 2016.
- 0340I003 (N.Ueki), A.Itakura, S.Takeda, K.Kanasaki:Catechol-O-methyltransferase deficiency leads to hypersensitivity on the pressor response against angiotensin II, *19th Congress of the Federation of Asia and Oceania Perinatal Societies (FAOPS 2016)*, Taipei, 2016.

## 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
Associate Professor	FUJITA Yoshimasa	Rheumatology, Immunology
Senior Assistant Professor	KAWANAMI Takafumi	Hematology and Immunology
Senior Assistant Professor	SAKAI Tomoyuki	Hematology and Immunology
Senior Assistant Professor	OGISO Hideo	Hematology and Immunology
Assistant Professor	KAWANAMI Haruka	Hematology and Immunology
Assistant Professor	FUJIMOTO Shino	Hematology and Immunology
Assistant Professor	FURUMOTO Hidehiro	Hematology and Immunology
Assistant Professor	HASHIZUME Chieko	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 Y.Masaki, H.Kawabata, K.Takai, M.Kojima, N.Tsukamoto, Y.Ishigaki, N.Kurose, M.Ide, J.Murakami, K.Nara, H.Yamamoto, Y.Ozawa, H.Takahashi, K.Miura, T.Miyauchi, S.Yoshida, A.Momoi, N.Awano, S.Ikushima, Y.Ohta, N.Furuta, S.Fujimoto, H.Kawanami, T.Sakai, T.Kawanami, Y.Fujita, T.Fukushima, S.Nakamura, T.Kinoshita, S.Aoki: Proposed diagnostic criteria, disease severity classification and treatment strategy for TAFRO syndrome, 2015 version., International journal of hematology, 103:6;686-692, 2016.

- 0350B002 Y.Fujita, T.Fujii, H.Shimizu, T.Sato, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sakai, T.Kawanami, M.Tanaka, Y.Masaki, T.Fukushima, T.Okazaki, H.Umehara, T.Mimori:Isolation of vascular smooth muscle antigen-reactive CD4(+)  $\alpha$   $\beta$  Th1 clones that induce pulmonary vasculitis in MRL/Mp-Fas(+/+) mice., *Cellular immunology*, 303:50-54, 2016.
- 0350B003 (K.Kitatani), T.Usui, SK.Sriraman, M.Toyoshima, M.Ishibashi, S.Shigeta, S.Nagase, M.Sakamoto, H.Ogiso, T.Okazaki, YA.Hannun, VP.Torchilin, N.Yaegashi:Ceramide limits phosphatidylinositol-3-kinase C2  $\beta$  -controlled cell motility in ovarian cancer: potential of ceramide as a metastasis-suppressor lipid, *Oncogene*, 35:21;2801-2812, 2016.
- 0350B004 (H.Watanabe), K.Okahara, Y.Naito-Matsui, M.Abe, S.Go, J.Inokuchi, T.Okazaki, T.Kobayashi, Y.Kozutsumi, S.Oka, H.Takematsu:Psychosine-triggered endomitosis is modulated by membrane sphingolipids through regulation of phosphoinositide 4,5-bisphosphate production at the cleavage furrow., *Molecular biology of the cell*, 27:13;2037-2050, 2016.
- 0350B005 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki:Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder; TAFRO syndrome., *The Japanese journal of clinical hematology*, 57:10;2029-2037, 2016.
- 0350B006 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki, Japanese TAFRO syndrome research team:Proposed diagnostic criteria, disease severity classification, and tretment strategy for a novel disorder;TAFRO syndrome, *The Japanese Journal of Clinical Hematology*, 57:10;195-203, 2016.
- 0350B007 H.Yoshizaki, H.Ogiso, T.Okazaki, E.Kiyokawa:Comparative lipid analysis in the normal and cancerous organoids of MDCK cells., *Journal of Biochemistry*, 159:6;573-584, 2016.
- 0350B008 (M.Wu), M.Takemoto, M.Taniguchi, T.Takumi, T.Okazaki, W.J.Song:Regulation of membrane KCNQ1/KCNE1 channel density by sphingomyelin synthase 1, *American Journal of Physiology Cell Physiology*, 311:C15-C23, 2016.
- 0350B009 M.Taniguchi, T.Tasaki, H.Ninomiya, Y.Ueda, K.Kuremoto, S.Mitsutake, Y.Igarashi, T.Okazaki, T.Takegami:Sphingomyelin generated by sphingomyelin synthase 1 is involved in attachment and infection with Japanese encephalitis virus, *Scientific Reports*, 6:37829, 2016.

## Reviews

- 0350C001 (DJ.Klionsky), D.Koya, T.Okazaki et al.:Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)., *Autophagy*, 12:1;1-222, 2016.
- 0350C002 Y.Masaki:Recent advance of the treatment of IgG4-related disease, *Journal of Clinical and Experimental Medicine*, 258:3;217-222, 2016.
- 0350C003 Y.Masaki, S.Fujimoto, H.Kawanami(Iwao), T.Sakai, T.Kawanami, Y.Fujita, H.Kawabata, T.Fukushima:How to diagnose and treat IgG4-related disease, *Journal of Kanazawa Medical University*, 41:67-72, 2016.

## 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	OONO Miki	Clinical neurology

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0360B001 (R.Yamasaki), T.Matsushita, T.Fukazawa, K.Yokoyama, K.Fujihara, M.Ogino, T.Yokota, K.Miyamoto, M.Niino, K.Nomura, R.Tomioka, M.Tanaka, I.Kawachi, T.Ohashi, K.Kaida, M.Matsui, Y.Nakatsuji, H.Ochi, H.Fukaura, T.Kansa, A.Nagaishi, K.Togo, H.Mizusawa, H.Murai, J.Kira: Efficacy of intravenous methylprednisolone pulse therapy in patients with multiple sclerosis and neuromyelitis optica, 22:1337-1348, 2016.
- 0360B002 S.Nagayama, K.Tanaka: Anti-NMDA Receptor Antibody-Related Encephalitis., Brain and nerve = Shinkei kenkyu no shinpo, 68:9;1001-1009, 2016.

#### Reviews

- 0360C001 M.Sanada, M.Matsui, H.Yasuda: Pathogenesis of diabetic neuropathy, Japanese Journal of Clinical Medicine, 74:223-228, 2016.

#### Case Reports

- 0360D001 (K.Maeda), H.Kawai, M.Sanada, T.Terashima, N.Ogawa, R.Idehara, T.Makiishi, H.Yasuda, S.Sato, K.Hoshi, H.Yahikozawa, K.Nishi, Y.Itoh, K.Ogasawara, K.Tomita, H.P.Indo, H.Majima: Clinical phenotype and segregation of mitochondrial 3243A>G mutation in 2 pairs of monozygotic twins, JAMA Neurology, 73:990-993, 2016.

## 0363 Department of Medical Oncology

### Faculty

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Title	Name	Field of Specialization
Professor	MOTOO Yoshiharu	Medical Oncology, Tumor Cell Biology, Gastroenterology
Professor	YASUMOTO Kazuo	Gastric cancer, Cancerous peritonitis molecular target therapy
Senior Assistant Professor	HISAMURA Kazuho	Social Work, Social Welfare, Psycho-Oncology
Assistant Professor	KASAI Suguru	

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### Keywords of Research

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

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### Outline of Research

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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.

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### Publications

#### Reviews

- 0363C001 Y.Motoo:How long should cancer chemotherapy be continued?—Form the viewpoint of duration of efficacy of molecular targeting drugs, Japanese Journal of Cancer and Chemotherapy, 43:7;819-823, 2016.
- 0363C002 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto: Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, Suizo, 31:1;76-84, 2016.

## 0366 Department of Infectious Diseases

### Faculty

Title	Name	Field of Specialization
Professor	IINUMA Yoshitsugu	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 N.Yoshino, E.Yamada, K.Enda, H.Baba, Y.Iinuma:Fundamental assessment of the chemiluminescent enzyme immunoassay measurement reagent Lumipulse HBsAg-HQ, Japanese Journal of Medical Technology, 65:1:91-97, 2016.
- 0366B002 (Y.Ito), M.Nagao, Y.Iinuma, Y.Matsumura, M.Yamamoto, S.Takakura, J.Igawa, H.Yamanaka, A.Hashimoto, T.Hirai, A.Niimi, S.Ichihama, M.Mishima:Risk factors for nosocomial tuberculosis transmission among health care workers., American journal of infection control, 44:5:596-598, 2016.
- 0366B003 (M.Suzuki), K.Yamada, M.Aoki, E.Hosoba, M.Matsumoto, H.Baba, Y.Iinuma:Applying a PCR-based open-reading frame typing method for easy genotyping and molecular epidemiological analysis of Pseudomonas aeruginosa., Journal of applied microbiology, 120:2:487-497, 2016.
- 0366B004 D.Usuda, R.Sangen, Y.Hashimoto, E.Muranaka, Y.Iinuma, T.Kanda:Validation of a B-type natriuretic peptide as a prognostic marker in pneumonia patients: a prospective cohort study, BMJ open, 6:2:e010440, 2016.
- 0366B005 M.Tagu, D.Usuda, Y.Noda, Y.Iinuma, Y.Nishita, Y.Yamamoto, O.Niwa:Usability by the colorimetric method for measurement of chlorine concentration in hypochlorite solutions and factors for change of the concentration, Japanese Journal of Environmental Infections, 31:5:314-317, 2016.

#### Reviews

- 0366C001 Y.Iinuma:Management of infectious complications in solid-organ transplant recipients, The Journal of the Japanese Society for Clinical Microbiology, 26:1:11-23, 2016.
- 0366C002 Y.Iinuma:Middle East Respiratory Syndrome(MERS), The Official Journal of Japanese Society of Laboratory Medicine, 64:9:1044-1051, 2016.

#### Case Reports

- 0366D001 D.Usuda, R.Sangen, Y.Iwata, T.Kanda:Interstitial Pneumonia in a 94-Year-Old Woman with MPO-ANCA Positive Vasculitis, Case Reports in Clinical Medicine, 5:61-65, 2016.

- 0366D002 D.Usuda, M.Arahata, R.Temaru, Y.Iinuma, T.Kanda, S.Hayashi:Autopsy-proven intravascular lymphoma presenting as rapidly recurrent strokes, Case reports in oncology, 9:1;148-153, 2016.
- 0366D003 K.Nagata, Y.Tanaka, M.Matsumoto, C.Tanaka, K.Nitta, K.Miyazawa, Y.Iinuma: A case of 2,8-dihydroxyadenine crystal urine that did not show urine calculus, Japanese Journal of Medical Technology, 65:6;695-699, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 0366I001 K.Kawamura, Y.Iinuma, D.Usuda, M.Matsumoto, Y.Tanaka, M.Kawano, S.Tateyama, Y.Itose:Evaluation of urine flow cytometer Sysmex UF-5000:the comparison with routine methods for identifying bacteria, The 32nd World Congress of Biomedical Laboratory Science, Kobe, 2016.

## 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	YAMAKAWA Jun-ichi	General medicine, Kampo medicine
Associate Professor	UENISHI Hiroaki	Cardiovascular Medicine
Senior Assistant Professor	MORIYA Junji	General medicine, Kampo medicine
Senior Assistant Professor (Additional Post)	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Assistant Professor	SAWADA Mio	Kampo medicine, Women medical care

### 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.

### Books

- 0368A001 J.Yamakawa, J.Moriya, J.kobayashi:Herbal Medicines:New Horizons, Fating and Kanpo(Japanesc Hebal) Medicines: Hochuekkito and Juzentaihoto, 97-111, Humana Press, New York, 2016.

### Publications

#### Originals

- 0368B001 H.Tada, J.Kobayashi, M.Kawashiri, K.Miyashita, A.Nohara, A.Inazu, K.Nakajima, H.Mabuchi, M.Yamagishi:Changes in lipoprotein lipase and endothelial lipase mass in familial hypercholesterolemia during three-drug lipid-lowering combination therapy, *Lipids in health and disease*, 15:66, 2016.
- 0368B002 R.Tsuda, H.Suzuki:Results of a soccer teaching program intended to help students improve and acquire knowledge of physical fitness, *Japan Journal of Physical Education, Health and Sport Sciences*, 61:257-270, 2016.
- 0368B003 K.Sato, F.Okajima, K.Miyashita, S.Imamura, J.Kobayashi, KL.Stanhope, PJ.Havel, T.Machida, H.Sumino, M.Murakami, E.Schaefer, K.Nakajima:The majority of lipoprotein lipase in plasma is bound to remnant lipoproteins: A new definition of remnant lipoproteins, *Clinica chimica acta; international journal of clinical chemistry*, 461:114-125, 2016.
- 0368B004 M.Sakurai, J.Kobayashi, Y.Takeda, S.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi, H.Nakagawa:Sex Differences in Associations Among Obesity, Metabolic Abnormalities, and Chronic Kidney Disease in Japanese Men and Women, *Journal of Epidemiology*, 26:8;440-446, 2016.



### Others

- 0368F001 H.Tada, J.Kobayashi:Optimal management target for Non-high-density lipoprotein cholesterol, Journal of Atherosclerosis and Thrombosis, 23:4;399-401, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0368I001 R.Tsuda:Load characteristics of soccer games in PE classes from the viewpoint of improvement in physical fitness, 21th annual Congress of the European College of Sport Science (ECSS), Vienna, 2016.
- 0368I002 J.Kobayashi, K.Miyashita, K,Nakajima:Lipases and the Metabolism of Triglyceride-Rich Lipoproteins, 5th International Symposium on Chylomicrons, VLDL, and Remnant Lipoproteins, Boston, 2016.

## 0370 Department of Geriatric Medicine

### Faculty

Title	Name	Field of Specialization
Professor	MORIMOTO Shigeto	Geriatrics, Hypertension, Calcium Metabolism, Dementia, Osteoporosis
Professor(Additional Post)	NAKASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis
Professor(Additional Post)	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology, Cardiology
Associate Professor	OKURO Masashi	Geriatrics, Circulation, Hypertension, Atherosclerosis
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

### 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 (A.Ishiki), S.Okinaga, N.Tomita, R.Kawahara, I.Tsuji, R.Nagatomi, Y.Taki, T.Takahashi, M.Kuzuya, S.Morimoto, K.Iijima, T.Koseki, H.Arai, K.Furukawa:Changes in cognitive functions in the elderly living in temporary housing after the great east japan earthquake., PLOS ONE, 11:1;1-8, 2016.
- 0370B002 Y.Hamazaki, Y.Morikawa, S.Morimoto, H.Nakagawa:Difference in the impact of homebound status on functional decline between independent older men and women: A 2 year follow-up study., Japan journal of nursing science, 13:2;265-272, 2016.

## 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	KITAKA Yuko	Pediatric allergy, Pediatric endocrinology

### 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 M.Itoh, Y.Kittaka, Y.Niida, Y.Saikawa:A novel frameshift mutation in the TRPS1 gene caused Tricho-rhino-phalangeal syndrome type I and III in a Japanese family, *Clinical pediatric endocrinology : case reports and clinical investigations : official journal of the Japanese Society for Pediatric Endocrinology*, 25:3;115-118, 2016.
- 0380B002 Y.Niida, H.Sato, M.Ozaki, M.Itoh, K.Ikeno, E.Takase:Angelman Syndrome Caused by Chromosomal Rearrangements: A Case Report of 46,XX,+der(13)t(13;15)(q14.1;q12)mat,-15 with an Atypical Phenotype and Review of the Literature, *Cytogenetic and genome research*, 149:247-257, 2016.
- 0380B003 (M.Shimizu), Y.Saikawa, A.Yachie:Role of 18-fluoro-2-deoxyglucose positron emission tomography in detecting acute inflammatory lesions of non-bacterial osteitis in patients with a fever of unknown origin: A comparative study of 18-fluoro-2-deoxyglucose positron emission tomography, bone scan, and magnetic resonance imaging, *Modern rheumatology*, 20:1-5, 2016.

- 0380B004 (T.Kobayashi), S.Fuse, N.Sakamoto, M.Mikami, S.Ogawa, K.Hamaoka, Y.Arakaki, T.Nakamura, H.Nagasawa, T.Kato, T.Jibiki, S.Iwashima, M.Yamakawa, T.Ohkubo, S.Shimoyama, K.Aso, S.Sato, T.Saji:A New Z Score Curve of the Coronary Arterial Internal Diameter Using the Lambda-Mu-Sigma Method in a Pediatric Population., *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*, 29:8;794-801, 2016.
- 0380B005 (E.Nanishi), T.Hoshina, H.Takada, M.Ishimura, H.Nishio, T.Uehara, Y.Mizuno, S.Hasegawa, S.Ohga, M.Nagao, M.Igarashi, S.Yajima, Y.Kusumoto, N.Onishi, Y.Sasahara, T.Yasumi, T.Heike, T.Hara, PID-Infection Study Group:A nationwide survey of common viral infections in childhood among patients with primary immunodeficiency diseases, *Journal of Infection*, 73:358-368, 2016.

#### **Case Reports**

- 0380D001 K.Ishimaru, K.Araki, T.Nakamura, Y.Sawa:An alternative technique for direct implantation of an anomalous left coronary artery arising from the pulmonary artery with complex coronary arteries., *Journal of surgical case reports*, 9:1-3, 2016.
- 0380D002 R.Fujisawa, T.Nakamura, K.Ishimaru, S.Toki, G.Ko, C.Akita, T.Nakamura, H.Sato, T.Kuwahara, M.Kohno, Y.Saikawa:Painless bloody stool due to a Meckel diverticulum in infant : a case report, *Japanese Journal of Pediatrics*, 69:10;1651-1655, 2016.

#### **Presentations at Conference**

##### **International Conference (Presentations)**

- 0380I001 M.Ozaki, Y.Niida, E.Takase, Y.Ito, H.Sato, T.Ikeda:Visualization of Cytogenetic Testing in Clinical Genetics, 13th International Congress of Human Genetics, Kyoto, 2016.

## 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	KITAMOTO Fukumi	Psychotherapy, Clinical Psychology
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	OHI Kazutaka	Psychiatry, Genetics, Neuropsychopharmacology, Biological Psychiatry, Imaging
Assistant Professor	OKUBO Hiroaki	Psychiatry, Neurophysiology

### 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 K.Ohi, T.Shimada, Y.Nitta, H.Kihara, H.Okubo, T.Uehara, Y.Kawasaki:Specific gene expression patterns of 108 schizophrenia-associated loci in cortex, Schizophrenia research, 174:1-3;35-38, 2016.
- 0390B002 K.Ohi, T.Shimada, Y.Nitta, H.Kihara, H.Okubo, T.Uehara, Y.Kawasaki:The Five-Factor Model personality traits in schizophrenia: A meta-analysis., Psychiatry research, 240:34-41, 2016.

- 0390B003 (N.Okada), M.Fukunaga, F.Yamashita, D.Koshiyama, H.Yamamori, K.Ohi, Y.Yasuda, M.Fujimoto, Y.Watanabe, N.Yahata, K.Nemoto, Hibar D P, van Erp T G M, H.Fujino, M.Isobe, S.Isomura, T.Natsubori, H.Narita, N.Hashimoto, J.Miyata, S.Koike, T.Takahashi, H.Yamasue, K.Matsuo, T.Onitsuka, T.Iidaka, Y.Kawasaki, R.Yoshimura, Y.Watanabe, M.Suzuki, Turner J A, M.Takeda, Thompson P M, N.Ozaki, K.Kasai, R.Hashimoto:Abnormal asymmetries in subcortical brain volume in schizophrenia., *Molecular psychiatry*, 21:10;1460–1466, 2016.
- 0390B004 (K.Uno), Y.Kikuchi, M.Iwata, T.Uehara, T.Matsuoka, T.Sumiyoshi, Y.Okamoto, H.Jinno, T.Takada, Y.Furukawa-Hibi, T.Nabeshima, Y.Miyamoto, A.Nitta:Decreased DNA Methylation in the Shati/Nat8l Promoter in Both Patients with Schizophrenia and a Methamphetamine-Induced Murine Model of Schizophrenia-Like Phenotype, *PloS one*, 11:6:e0157959, 2016.
- 0390B005 (L.Huang), K.Ohi, H.Chang, H.Yu, L.Wu, W.Yue, D.Zhang, L.Gao, M.Li:A comprehensive meta-analysis of ZNF804A SNPs in the risk of schizophrenia among Asian populations, *American Journal of Medical Genetics B Neuropsychiatric Genetics*, 171:3;437–446, 2016.
- 0390B006 K.Ohi, Y.Matsuda, T.Shimada, T.Yasuyama, K.Oshima, K.Sawai, H. Kihara, Y.Nitta, H.Okubo, T.Uehara, Y.Kawasaki:Structural alterations of the superior temporal gyrus in chizophrenia: Detailed subregional differences, *European Psychiatry*, 35:25–31, 2016.
- 0390B007 Y.Matsuda, H.Kihara, K.watanabe, Y.Kawasaki:A computer-aided diagnosis method using spatial and temporal characteristics of near-infrared spectroscopy data in major depressive disorder and bipolar disorder(2), *IEICE:23–28*, 2016.
- 0390B008 H.Okubo:Near-infrared spectroscopy analysis of the effect of Repetitive transcranial magnetic stimulation in depression, *Journal of Kanazawa Medical University*, 41:10–17, 2016.
- 0390B009 (S.Yoneyama), Y.Makita, K.Miyazu, K.Katsukawa, E.Yoneyama, S.Masuda, Y.Nakajima, Y.Kawasaki, K.Miyazu:The Role of Family Variables in the Length of Stay of Psychiatric In-patients, *Clinical practice and epidemiology in mental health*, 12:87–93, 2016.

#### Case Reports

- 0390D001 H.Kihara, Y.Matsuda, Y.Toshiki, H.Okubo, R.Hashimoto, K.Watanabe, Y.Kawasaki:Reliability of repeated optical topography test date in patients with major depression disorder:An investigation of near-infrared spectroscopy date of successive sessions, *Journal of Kanazawa Medical University*, 41:1;18–24, 2016.

#### Short Communications

- 0390E001 K.Ohi, M.Kikuchi, M.Ikeda, H.Yamamori, Y.Yasuda, M.Fujimoto, H.Fujino, K.Miura, M.Fukunaga, A.Nakaya, N.Iwata, R.Hashimoto:Polygenetic components for schizophrenia, bipolar disorder and rheumatoid arthritis predict risk of schizophrenia, *Schizophrenia research*, 175:1–3;437–446, 2016.
- 0390E002 K.Ohi, T.Shimada, Y.Nitta, H.Kihara, H.Okubo, T.Uehara, Y.Kawasaki:Schizophrenia risk variants in ITIH4 and CALN1 regulate gene expression in the dorsolateral prefrontal cortex, *Psychiatric Genetics*, 26:142–143, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0390I001 Y.Matsuda, R.Hashimoto, S.Takemoto, M.Ishizaki, Y.Kawasaki:A Dementia Screening Investigation for Inhabitants of Rural Areas in Japan, *The 2016 Alzheimer’s Disease Congress*, London, 2016.
- 0390I002 Y.Kawasaki, R.Hashimoto, S.Takemoto, T.Shimada, H.Kihara, K.Ohi, T.Uehara, Y.Matsuda, M.Tunoda:Establishment of a clinical service for young people at risk of developing psychosis in Uchinada Japan., *IEPA10*, Milan, 2016.

## 0400 Department of Radiology

### Faculty

Title	Name	Field of Specialization
Professor	TONAMI Hisao	Head and Neck Radiology, MRI Diagnosis
Professor	MATOKA Munetaka	Interventional Radiology, Diagnostic Imaging, Radiation therapy
Professor	WATANABE Naoto	Nuclear Medicine
Senior Assistant Professor	TAKAHASHI Tomoko	Nuclear Medicine, Diagnostic Imaging
Assistant Professor	OTA Kiyotaka	Radiation Therapy, Nuclear Medicine
Assistant Professor	KITADATE Masataka	Interventional Radiology, Diagnostic Imaging
Assistant Professor	KONDO Tamaki	Diagnostic Imaging
Assistant Professor	TSUCHIYA Naoko	Diagnostic Imaging
Assistant Professor	DOAI Mariko	Diagnostic Imaging
Assistant Professor	TOYOTA Ichiro	Diagnostic Imaging
Assistant Professor	OISO Kazumasa	Diagnostic Imaging
Assistant Professor	NAKAJIMA Kento	Diagnostic Imaging

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0400B001 N.Watanabe, K.Yokoyama, S.Kinuya, H.Tonami: Evaluation of cytological radiation damage to lymphocytes after I-131 metaiodobenzylguanidine therapy by the cytokinesis-blocked micronucleus assay., *Annals of nuclear medicine.*, 30:9;624-628, 2016.
- 0400B002 (K.Higashi), T.Yamagishi, Y.Ueda, Y.Ishigaki, M.Shimasaki, Y.Nakamura, M.Oguchi, T.Takegami, M.Sagawa, H.Tonami: Correlation of HIF-1  $\alpha$  /HIF-2  $\alpha$  expression with FDG uptake in lung adenocarcinoma., *Annals of nuclear medicine*, 30:10;708-715, 2016.
- 0400B003 H.Adachi, K.Nakayama, N.Hayashi, Y.Matsui, K.Fujimoto, H.Yamaya, H.Tonami, H.Yokoyama: Adiponectin Fractions Influence the Development of Posttransplant Diabetes Mellitus and Cardiovascular Disease in Japanese Renal Transplant Recipients, *PLoS one*, 11:10:e0163899, 2016.

- 0400B004 K.Usuda, M.Sagawa, S.Maeda, N.Motono, M.Tanaka, Y.Machida, M.Matoba, T.Matsui, N.Watanabe, H.Tonami, Y.Ueda, H.Uramoto:Diagnostic performance of whole-body diffusion-weighted imaging compared to PET-CT plus brain MRI in staging clinically resectable lung cancer, *Asian Pacific journal of cancer prevention : APJCP*, 17:6;2775-2780, 2016.
- 0400B005 N.Motono, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, H.Toga, M.Matoba, M.Sagawa:The therapeutic strategy for clinical stage IA non-small cell lung cancer patients who are ineligible for lobectomy, *Haigan*, 56:3;183-188, 2016.
- 0400B006 I.Chikazawa, S.Inoue, Y.Nakazawa, D.Nakai, T.Ishii, H.Tachibana, K.Suga, N.Morita, T.Tanaka, K.Ota, M.Matoba, K.Miyazawa: The effect of radiation therapy for bone metastasis in urinary organ cancer, *Japanese Journal of Urology*, 107:1;7-12, 2016.

#### Case Reports

- 0400D001 T.Takahashi, N.Watanabe, M.Wakasa, K.Kajinami, H.Tonami:18F-FDG PET/CT for Detecting Sarcoma of the Aorta in a Patient with Takayasu Arteritis, *Nuclear medicine and molecular imaging*, 50:2;171-172, 2016.
- 0400D002 Y.Nakazawa, S.Kuwasaki, S.Inoue, D.Nakai, N.Morita, H.Tachibana, I.Chikazawa, T.Tanaka, M.Matoba, K.Sato, and K.Miyazawa: A case of renal cell carcinoma metastasized to gluteal muscle after partial nephrectomy, *Japanese Journal of Urological Surgery*, 29:2;177-180, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0400I001 Y.Nakano, M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, T.Kosaka, T.Takahashi, H.Minato:The roles of 18F-FDG-PET/CT and US-guided FNAC in assessment of axillary nodal metastases in breast cancer patients, 8th Annual Asian Oncology Summit, 12th Annual Conference of the OOTR and Kyoto Breast Cancer Consensus Conference 2016, Kyoto, 2016.
- 0400I002 M.Doai, N.Tsuchiya, H.Tonami:Histogram analysis of apparent diffusion coefficient for non-small cell lung cancer:correlation with pathological grade, *International Society for Magnetic Resonance in Medicine 24th Annual Meeting and Exhibition 2016*, Singapore, 2016.
- 0400I003 M.Doai, H.Tonami, O.Tachibana:Utility of Histogram Analysis of Apparent Diffusion Coefficient Value for Distinguishing Pituitary Atypical Adenomas from Typical Adenomas, *International Society for Magnetic Resonance in Medicine 24th Annual Meeting and Exhibition 2016*, Singapore, 2016.
- 0400I004 H.Adachi, K.Nakayama, N.Hayashi, Y.Matsui, K.Fujimoto, H.Yamaya, H.Tonami, H.Yokoyama:High-Molecular-Weight adiponectin inhibits the progression of vascular calcification in Japanese renal allograft recipients, *The Annual of American Society of Nephrology 2016*, Chicago, 2016.



## 0410 Department of Cardiovascular Surgery

### Faculty

Title	Name	Field of Specialization
Professor	AKITA Toshiaki	Cardiovascular surgery
Professor	SAKAMOTO Shigeru	Cardiovascular Surgery
Professor	SHIKATA Hiroo	Vascular surgery
Associate Professor	MORIOKA Koichi	Cardiovascular surgery
Associate Professor	ISHIMARU Kazuhiko	Pediatric Cardiac Surgery
Associate Professor	NAGAYOSHI Yasuhiro	Cardiovascular surgery
Senior Assistant Professor	NOGUCHI Yasuhisa	Vascular surgery
Senior Assistant Professor	MIZUNO Fumito	Cardiovascular surgery
Assistant Professor	TANAKA Hirokazu	Cardiovascular surgery, Vascular surgery
Assistant Professor	TSUCHIYA Hirokazu	Cardiovascular surgery, Vascular surgery
Assistant Professor	ARAKI Kanta	Pediatric Cardiac Surgery

### Keywords of Research

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

### Outline of Research

- 1.Elucidation of different mechanism for ischemia-reperfusion injury of immature and mature heart; Development of cardioplegia specific for neonate cardiac surgery.
- 2.Development of patient-specific cardiac supporting net for dilated heart failure patients
- 3.Endovascular stent-grafting for aortic aneurysm

### Publications

#### Originals

- 0410B001 M.Okada, T.Akita, F.Mizuno, A.Nakayama, K.Morioka:Benefit effects of cardiac support device on left ventricular remodeling after posterior myocardial infarction: an evaluation by echocardiography, pressure-volume curves and ventricular histology, *Surgery Today*, 46:5;621-630, 2016.

#### Case Reports

- 0410D001 K.Ishimaru, K.Araki, T.Nakamura, Y.Sawa:An alternative technique for direct implantation of an anomalous left coronary artery arising from the pulmonary artery with complex coronary arteries., *Journal of surgical case reports*, 9:1-3, 2016.
- 0410D002 R.Fujisawa, T.Nakamura, K.Ishimaru, S.Toki, G.Ko, C.Akita, T.Nakamura, H.Sato, T.Kuwahara, M.Kohno, Y.Saikawa: Painless bloody stool due to a Meckel diverticulum in infant : a case report, *Japanese Journal of Pediatrics*, 69:10;1651-1655, 2016.

## 0415 Department of Thoracic Surgery

### Faculty

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Title	Name	Field of Specialization
Professor	URAMOTO Hidetaka	Thoracic Surgery, Video assisted thoracoscopic surgery, Lung Cancer
Professor	USUDA Katsuo	thoracic surgery, video assisted thoracoscopic surgery, lung cancer, mediastinal tumor, early lung cancer, interventional bronchology, clinical cytology
Assistant Professor	TANAKA Makoto	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	MACHIDA Yuichiro	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	MOTONO Nozomu	thoracic surgery, lung cancer, pulmonary circulation
Assistant Professor	MATSUI Takuma	thoracic surgery, lung cancer

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### Keywords of Research

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

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### Outline of Research

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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
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## Publications

### Originals

- 0415B001 H.Uramoto, Y.Nakajima, H.Kinoshita:Is the isolated pericardial fat pad sufficient to cover the bronchial stump and separate the pulmonary artery in order to prevent bronchopleural fistula in patients with lung cancer?, *Anticancer research*, 36:5;2385–2390, 2016.
- 0415B002 (Y.Nakajima), Y.Iijima, H.Uramoto:The difference in bronchial patency between the sweet and modified overfolt methods at a deep site: current strategies are based on previous knowledge, *Anticancer research*, 36:6;2729–2731, 2016.
- 0415B003 H.Uramoto, Y.Nakajima, H.Kinoshita, H.Akiyama:Equivalent outcome of patients with locally advanced NSCLC treated with salvage surgery compared to Induction chemotherapy followed by surgical resection, *Anticancer research*, 36:8;4243–4247, 2016.
- 0415B004 H.Uramoto, Y.Iijima, Y.Nakajima, H.Kinoshita:Accurate Diagnosis of Aortic Invasion in Patients with Lung Cancer., *Anticancer research*, 36:5;2391–2395, 2016.
- 0415B005 N.Motono, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, H.Toga, M.Matoba, M.Sagawa:The therapeutic strategy for clinical stage IA non-small cell lung cancer patients who are ineligible for lobectomy, *Haigan*, 56:3;183–188, 2016.
- 0415B006 K.Usuda, M.Sagawa, S.Maeda, N.Motono, M.Tanaka, Y.Machida, M.Matoba, T.Matsui, N.Watanabe, H.Tonami, Y.Ueda, H.Uramoto:Diagnostic performance of whole-body diffusion-weighted imaging compared to PET-CT plus brain MRI in staging clinically resectable lung cancer, *Asian Pacific journal of cancer prevention : APJCP*, 17:6;2775–2780, 2016.
- 0415B007 Y.Machida, M.Sagawa, M.Tanaka, N.Motono, T.Matsui, K.Usuda, H.Uramoto:Postoperative survival according to the glasgow prognostic score in patients with resected lung adenocarcinoma, *Asian Pacific journal of cancer prevention : APJCP*, 17:10;4677–4680, 2016.
- 0415B008 (Y.Iijima), H.Akiyama, M.Atari, M.Fukuhara, Y.Nakajima, H.Kinosita, H.Uramoto:Pulmonary resection for metastatic gastric cancer, *Annals of Thoracic and Cardiovascular Surgery*, 27:1–7, 2016.
- 0415B009 K.Usuda, S.Maeda, N.Motono, M.Tanaka, M.Ueno, Y.Machida, M.Sagawa, H.Uramoto:Pulmonary Function After Lobectomy: Video-Assisted Thoracoscopic Surgery Versus Muscle-Sparing Mini-thoracotomy., *Indian Journal of Surgery*, 1:1–6, 2016.
- 0415B010 N.Motono, S.Maeda, R.Honda, M.Tanaka, Y.Machida, K.Usuda, M.Sagawa, H.Uramoto:Atmospheric temperature and pressure influence the onset of spontaneous pneumothorax, *The clinical respiratory journal*, 17:1–6, 2016.

### Case Reports

- 0415D001 (Y.Iijima), H.Akiyama, Y.Nakajima, H.Kinoshita, M.Iwao, H.Uramoto, T.Harita:Solitary lung metastasis from gestational choriocarcinoma resected six years after hydatidiform mole: A case report., *International journal of surgery case reports*, 28:231–233, 2016.
- 0415D002 H.Uramoto, Y.Nakajima, H.Kinoshita:Left upper lobe double sleeve lobectomy with double barrel anastomosis for lung adenocarcinoma., *Annals of medicine and surgery (2012)*, 9:12–14, 2016.
- 0415D003 N.Motomo, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, M.Sagawa:Successful treatment of bronchopleural fistula by endoscopic submucosal injection of polidocanol, *The Journal of the Japan Society for Respiratory Endoscopy*, 38:319–323, 2016.
- 0415D004 (S.Oka), H. Matsumiya, S. Shinohara, T.Kuwata, M. Takenaka, Y.o Chikaishi, A.Hirai, N. Imanishi, K.Kuroda, H. Uramoto, E. Nakamura, F. Tanaka:Total vertebrectomy(Th2) and dissection of the subclavian artery for a superior sulcus tumor invading the spine: A case report, *International journal of surgery case reports*, 1:1–4, 2016.

### Short Communications

- 0415E001 N.Motono, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, Y.Tomita, T.Kosaka, M.Sagawa:A case of empyema and a posterior mediastinal abscess after an iliopsoas abscess secondary to crohn's disease, International journal of colorectal disease, 31:3;709-710, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 0415I001 Y.Machida, Y.Ueda, M.Shimazaki, M.Tanaka, N.Motono, T.Matsui, K.Usuda, H.Uramoto:Analysis of postoperative survival in patients with resected lung adenocarcinoma according to the tumor-associated macrophages., American Thoracic Society 2016, San Francisco, 2016.

## 0420 Department of General and Digestive Surgery

### Faculty

Title	Name	Field of Specialization
Professor	KOSAKA Takeo	Surgical treatment of gastric cancer
Professor	UEDA Nobuhiko	Surgical treatment of hepatobiliary and pancreatic disease
Professor	NOGUCHI Masakuni	Surgery of breast cancer
Associate Professor	KINAMI Shinichi	Surgical treatment of gastric cancer
Associate Professor	NAKANO Yasuharu	Surgery of breast cancer
Senior Assistant Professor	FUJITA Hideto	Surgical treatment of gastric cancer,
Senior Assistant Professor	FUNAKI Hiroshi	Surgical treatment of gastric cancer
Senior Assistant Professor	NOGUCHI Miki	Surgery of breast cancer
Assistant Professor	ONISHI Toshio	Surgery of Digestive Diseases
Assistant Professor	ONO Yukako	Surgery of Digestive Diseases, Surgical treatment of breast cancer
Assistant Professor	KAIDA Daisuke	Surgery of Digestive Diseases
Assistant Professor	TOMITA Yasuto	Surgery of Digestive Diseases
Assistant Professor	MORIOKA Emi	Surgery of Digestive Diseases
Assistant Professor	FUJITA Jun	Surgery of Digestive Diseases
Assistant Professor	MIURA Seiko	
Assistant Professor	FUJII Yoritaka	

### Keywords of Research

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

### Outline of Research

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

### Books

- 0420A001 S.Kinami:Function-Preserving Curative Gastrectomy Guided by ICG Fluorescence Imaging for Early Gastric Cancer, ICG Fluorescence Imaging and Navigation Surgery, 151-161, Springer, Japan, 2016.

## Publications

### Originals

- 0420B001 M.Noguchi, M.Noguchi, Y.Ohno, E.Morioka, Y.Nakano, T.Kosaka, N.Kurose, H.Minato:Feasibility study of axillary reverse mapping for patients with clinically node-negative breast cancer., *European journal of surgical oncology*, 42:5;650-656, 2016.
- 0420B002 S.Kinami, T.Ohnishi, J.Fujita, Y.Tomita, G.Funaki, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka:Optimal settings and accuracy of indocyanine green fluorescence imaging for sentinel node biopsy in early gastric cancer., *Oncology letters*, 11:6;4055-4062, 2016.
- 0420B003 S.Kinami, H.Funaki, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka:Local resection of the stomach for gastric cancer., *Surgery today*, 47:6;651-659, 2016.
- 0420B004 (K.Oyama), S.Fushida, M.Kaji, T.Takeda, K.Yabushita, H.Nezuka, S.Kinami, N.Kadoya, Y.Takai, Y.Tsukioka, S.Ohyama, K.Tsuji, T.Tsukada, J.Kinoshita, T.Fujimura, T.Ohta:Evaluation of the efficacy of palonosetron for prevention of chemotherapy-induced nausea and vomiting in patients with gastric cancer treated with S-1 plus cisplatin, *International journal of clinical oncology*, 21:3;483-490, 2016.
- 0420B005 (K.Nakada), M.Takahashi, M.Ikeda, S.Kinami, M.Yoshida, Y.Uenosono, Y.Kawashima, S.Nakao, A.Oshio, Y.Suzukamo, M.Terashima, Y.Kodera:Factors affecting the quality of life of patients after gastrectomy as assessed using the newly developed PGSAS-45 scale: A nationwide multi-institutional study, *World journal of gastroenterology*, 22:40;8978-8990, 2016.

### Reviews

- 0420C001 M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, Y.Nakano, T.Kosaka, T.Kurita:Oncoplastic breast conserving surgery: Volume replacement vs. volume displacement., *European journal of surgical oncology*, 42:7;926-934, 2016.

### Case Reports

- 0420D001 T.Onishi, N.Ueda, S.Miura, D.Kaida, H.Fujita, S.Kinami, T.Kosaka, S.Nakada:A case of invasive cholangiocarcinoma with diffuse biliary intraepithelial neoplasia, *Journal of Japan Biliary Association*, 30:4;741-748, 2016.
- 0420D002 N.Ueda, Y.Fujii, S.Miura, J.Fujita, D.Kaida, Y.Tomita, T.Onishi, H.Funaki, H.Fujita, S.Kinami, Y.Nakano, T.Kosaka:Radical resection of cT3a gallbladder cancer after neoadjuvant chemotherapy - A case report, *Japanese Journal of Cancer and Chemotherapy*, 43:12;1597-1599, 2016.
- 0420D003 S.Miura, N.Ueda, S.Kinami, T.Kosaka, H.Funaki, N.Sakata, R.Nishino, W.Koda:Remission of advanced gastric cancer with concurrent portal vein tumor thrombosis via chemotherapy - A case report, *Japanese Journal of Cancer and Chemotherapy*, 43:12;1911-1913, 2016.
- 0420D004 S.Miura, Y.Oikawa, N.Ueda, M.Murakami, N.Sakata:Case of viper (*Glodius blomhoffii*) bites treated with hospitalization in the Ishikawa Prefecture, Noto district, *Clinical Parasitology*, 27:1;75-77, 2016.

### Short Communications

- 0420E001 N.Motono, M.Tanaka, Y.Machida, S.Maeda, K.Usuda, Y.Tomita, T.Kosaka, M.Sagawa:A case of empyema and a posterior mediastinal abscess after an iliopsoas abscess secondary to crohn's disease, *International journal of colorectal disease*, 31:3;709-710, 2016.

### Others

- 0420F001 M.Noguchi, S.Miura, E.Morioka, Y.Ono, M.Noguchi, Y.Nakano, T.Kosaka:Reply to: "Is there a role for axillary reverse mapping in the current management of breast cancer treatment?", *European journal of surgical oncology*, 42:1;153-154, 2016.

- 0420F002 S.Kinami:Perspective of new techniques overcoming laparoscopic sentinel node biopsy for early gastric cancer, *Translational gastroenterology and hepatology*, 1:64, 2016.
- 0420F003 H.Funaki, Y.Fujii, S.Miura, J/Fujita, E.MOrioka, D.Kaida, T.Onishi, Y.Tomita, M.Noguchi, H.Fujita, S.Kinami, Y.Nakano, N.Ueda, T.Kosaka:Treatment outcomes of advanced gastric cancer after neoadjuvant chemotherapy with S-1 and cisplatin, *Japanese Journal of Cancer and Chemotherapy*, 43:12;1421-1423, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0420I001 Y.Nakano, M.Noguchi, M.Noguchi, Y.Ono, E.Morioka, T.Kosaka, T.Takahashi, H.Minato:The roles of 18F-FDG-PET/CT and US-guided FNAC in assessment of axillary nodal metastases in breast cancer patients, 8th Annual Asian Oncology Summit, 12th Annual Conference of the OOTR and Kyoto Breast Cancer Consensus Conference 2016, Kyoto, 2016.
- 0420I002 Y.Ohno, M.Noguchi, E.Morioka, M.Noguchi, Y.Nakano, T.Kosaka, H.Minato:Tangenital frozen section analysis for the surgical margins in breast-conserving surgery, 8th Annual Asian Oncology Summit, 12th Annual Conference of the OOTR and Kyoto Breast Cancer Consensus Conference 2016, Kyoto, 2016.
- 0420I003 S.Kinami, T.Onishi, Y.Fujii, J.Fujita, D.Kaida, Y.Tomita, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka:The application of ICG fluorescence sentinel node biopsy for early gastric cancer to the laparoscopic function preserving gastrectomy, ISNS 2016 Biannual Meeting, Milan, 2016.
- 0420I004 H.Kitakata, T.Itoh, S.Kinami, S.Azukisawa, R.Kobayashi, K.Hamada, K.Kawaura, T.Kosaka:A clinical study of endoscopic full-thickness resection by serosa sealing method for submucosal invasive gastric cancer without sentinel node metastasis., UEGW2016, Venue, 2016.
- 0420I005 S.Miura, N.Ueda, S.Kinami, Y.Fujii, J.Fujita, D.Kaida, T.Onishi, Y.Tomita, H.Fujita, Y.Nakano, T.Kosaka:Gastrointestinal decompression by venting ercutaneous endoscopic gastrostomy: symptomatic relief of end-stage malignancies - case report, 40th World Congress of the International College of Surgeons / 62nd Annual Congress of the International College of Surgeons Japan Section, Kyoto, 2016.
- 0420I006 S.Kinami, S.Miura, T.Onishi, Y.Tomita, H.Fujita, Y.Nakano, N.Ueda, T.Kosaka:Effect of surgical procedures, adjuvant chemotherapy and complications on prognosis following resection of advanced gastric cancer, 40th World Congress of the International College of Surgeons / 62nd Annual Congress of the International College of Surgeons Japan Section, Kyoto, 2016.

## 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
Associate Professor	SUGIMORI Tanzo	Hip and Knee surgery, Sports medicine
Associate 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	TAGUCHI Keita	orthopaedic surgery
Assistant Professor	TACHI Yoshiyuki	Spinal surgery
Assistant Professor	HATANO Eiju	Spinal surgery
Assistant Professor	SHIMIZU Yoshiaki	Spinal surgery
Assistant Professor	UEDA Shusuke	Hip surgery
Assistant Professor	TSUDA Ryoji	Hip surgery
Assistant Professor	SOMA Daisuke	orthopadeic 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 (MG.Fehlings), A.Nater, JJ.Zamorano, LA.Tetreault, PP.Varga, ZL.Gokaslan, S.Boriani, CG.Fisher, L.Rhines, C.Bettegowda, N.Kawahara, D.Chou:Risk factors for recurrence of surgically treated conventional spinal schwannomas: Analysis of 169 patients from a multicenter international database., *Spine*, 41:5;390–398, 2016.
- 0430B002 K.Fukui, A.Kaneuji, T.Matsumoto, K.Shintani:Squeaking and microcracks in a delta–delta ceramic coupling: pin–on–disc study., *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*, 26:3;299–304, 2016.
- 0430B003 (S.Kato), H.Murakami, S.Demura, K.Nambu, Y.Fujimaki, K.Yoshioka, N.Kawahara, K.Tomita, H.Tsuchiya:Spinal metastasectomy of renal cell carcinoma: A 16–year single center experience with a minimum 3–year follow–up., *Journal of surgical oncology*, 113:5;587–592, 2016.
- 0430B004 (ZL.Gokaslan), PL.Zadnik, DM.Sciubba, N.Germscheid, CR.Goodwin, JP.Wolinsky, C.Bettegowda, ML.Groves, A.Luzzati, LD.Rhines, CG.Fisher, PP.Varga, MB.Dekutoski, MJ.Clarke, MG.Fehlings, NA.Quraishi, D.Chou, JJ.Reynolds, RP.Williams, N.Kawahara, S.Boriani:Mobile spine chordoma: results of 166 patients from the AOSpine Knowledge Forum Tumor database, *Journal of neurosurgery. Spine*, 24:644–651, 2016.
- 0430B005 (D.Choi), Z.Fox, T.Albert, M.Arts, L.Balabaud, C.Bunger, JM.Buchowski, MH.Coppes, B.Depreitere, MG.Fehlings, J.Harrop, N.Kawahara, JA.Martin–Benloch, EM.Massicotte, C.Mazel, FC.Oner, W.Peul, N.Quraishi, Y.Tokuhashi, K.Tomita, JJ.Verlaan, M.Wang, M.Wang, HA.Crockard:Rapid improvements in pain and quality of life are sustained after surgery for spinal metastases in a large prospective cohort., *British journal of neurosurgery*, 30:3;337–344, 2016.
- 0430B006 R.Tsuda:Differences in mechanical behavior between cobalt–chromium alloy and stainless–steel alloy in polished tapered femoral stems fixed with bone cement, *Journal of Kanazawa Medical University*, 41:1;1–9, 2016.
- 0430B007 S.Ueda, T.Ichiseki, Y.Ueda, A.Kaneuji, N.Kawahara, T.Matsumoto:The timing of glucocorticoid–induced osteocytic cell necrosis under hypoxia, *International journal of clinical and experimental pathology*, 9:7;7470–7475, 2016.
- 0430B008 (S.Ohfuji), S.Jingushi, K.Kondo, M.Sofue, M.Itoman, T.Matsumoto, Y.Hamada, H.Shindo, Y.Takatori, H.Yamada, Y.Yasunaga, H.Ito, S.Mori, I.Owan, G.Fujii, H.Ohashi, S.Takahashi, Y.Hirota:Factors associated with diagnostic stage of hip osteoarthritis due to acetabular dysplasia among Japanese female patients: a cross–sectional study., *BMC musculoskeletal disorders*, 17:320, 2016.
- 0430B009 (Y.Takegami), T.Seki, A.Kaneuji, A.Nakao, Y.Hasegawa, N.Ishiguro:Validity of a tablet computer version of the Japanese Orthopaedic Association hip disease evaluation questionnaire: a pilot study., *Nagoya journal of medical science*, 78:3;237–244, 2016.
- 0430B010 (JJ.Verlaan), D.Choi, A.Versteeg, T.Albert, M.Arts, L.Balabaud, C.Bunger, JM.Buchowski, CK.Chung, MH.Coppes, HA.Crockard, B.Depreitere, MG.Fehlings, J.Harrop, N.Kawahara, ES.Kim, CS.Lee, Y.Leung, Z.Liu, A.Martin–Benloch, EM.Massicotte, C.Mazel, B.Meyer, W.Peul, NA.Quraishi, Y.Tokuhashi, K.Tomita, C.Ulbricht, M.Wang, FC.Oner:Characteristics of patients who survived < 3 months or > 2 years after surgery for spinal metastases: can we avoid inappropriate patient selection?, *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*, 34:25;3054–3061, 2016.
- 0430B011 N.Takano, A.Kaneuji:Effect of contact conditions on stress analysis of hip prosthesis by FEM. , *Japanese Journal of Clinical Biomechanics*, 37:281–285, 2016.
- 0430B012 (K.Shintani), T.Kobayashi, H.Nakai, M.Kawaguchi, K.Yonezawa, N.Kawahara:Effect of DLC coating of 3D–honeycomb form scaffolding on osteoconduction, *Japanese Journal of Clinical Biomechanics*, 37:35–41, 2016.
- 0430B013 K.Fukui, A.Kaneuji, S.Ueda, T.Matsumoto:Should well–fixed uncemented femoral components be revised in infected hip arthroplasty? Report of five trial cases., *Journal of orthopaedics*, 13:4;437–442, 2016.

## Reviews

- 0430C001 (R.Charest-Morin), S.Boriani, CG.Fisher, SR.Patel, N.Kawahara, E.Mendel, C.Bettegowda, LD.Rhines: Benign tumors of the spine: has new chemotherapy and interventional radiology changed the treatment paradigm?, *Spine*, 41:20;S178-S185, 2016.
- 0430C002 (J.Reynolds), R.Khundkar, S.Boriani, R.Williams, LD.Rhines, N.Kawahara, JP.Wolinsky, ZL.Gokaslan, PP.Varga: Soft tissue and bone defect management in total sacrectomy for primary sacral tumors: a systematic review with expert recommendations., *Spine*, 41:20;S199-S204, 2016.
- 0430C003 (T.Ailon), R.Torabi, CG.Fisher, LD.Rhines, MJ.Clarke, C.Bettegowda, S.Boriani, YJ.Yamada, N.Kawahara, PP.Varga, JH.Shin, A.Saghal, ZL.Gokaslan: Management of locally recurrent chordoma of the mobile spine and sacrum: a systematic review., *Spine*, 41:20;S193-S198, 2016.

## Case Reports

- 0430D001 K.Fukui, A.Kaneuji, T.Matsumoto: Arthroscopic correction for concomitant cam impingement in a patient with idiopathic osteonecrosis of the femoral head: A case report., *International journal of surgery case reports*, 19:154-158, 2016.
- 0430D002 (A.Takeuchi), N.Yamamoto, K.Hayashi, S.Miwa, M.Takahira, K.Fukui, T.Oikawa, H.Tsuchiya: Tenosynovial giant cell tumors in unusual locations detected by positron emission tomography imaging confused with malignant tumors: report of two cases., *BMC musculoskeletal disorders*, 17:180, 2016.
- 0430D003 Y.Numata, T.Okuda, Y.Tachi, T.Matsumoto, M.Fujiwara: A case of fracture of the hook of the hamate bone in a youth water polo player, *JOSKAS*, 41:3;1075-1078, 2016.

## Presentations at Conference

### International Conference (Symposium)

- 0430H001 N.Kawahara: The role of en bloc surgical resection in the treatment of metastatic tumors of the spine, 5th Bologna-Budapest-Basel Spine Meeting -AOSpine Symposium- Knowledge Forum Tumor: An Update, Basel, 2016.

### International Conference (Presentations)

- 0430I001 K.Fukui, A.Kaneuji, T.Matsumoto: Inversion of the acetabular labrum triggers rapidly destructive osteoarthritis of the hip, ORS 2016 Annual Meeting (Orthopaedic Research Society), Orlando, 2016.
- 0430I002 K.Fukui, K.Briggs, C.Trindade, M.Philippon: Labral repair and treatment of impingement in borderline dysplastic patients with femoroacetabular impingement, AAOS 2016 Annual Meeting (American Academy of Orthopaedic Surgeons), Orlando, 2016.
- 0430I003 T.Sugimori, A.Kaneuji, Y.Tachi, R.Tsuda, T.Matsumoto: Intraoperative evaluation of PCL elasticity using a new device in cruciate-retaining total knee arthroplasty, 17th EFORT Congress (European Federation of National Associations of Orthopaedics and Traumatology), Geneva, 2016.
- 0430I004 A.Kaneuji, T.Sugimori, T.Ichiseki, K.Fukui, E.Takahashi, T.Matsumoto: A minimum ten-year result for cementless acetabular components fixed by "Line To Line Technique" in developmental dysplasia of the hip, 17th EFORT Congress (European Federation of National Associations of Orthopaedics and Traumatology), Geneva, 2016.
- 0430I005 K.Fukui, A.Kaneuji, N.Kawahara, T.Matsumoto: Catastrophic failure after endoscopic shelf acetabuloplasty for moderate acetabular dysplasia, ISHA 2016 (International Society for Hip Arthroscopy), San Francisco, 2016.

## 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	TORIGOE Keiichiro	general neurosurgery
Assistant Professor	SHOJIMA Hirotaka	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 (Y.Hayashi), D.Kita, M.Iwato, I.Fukui, Y.Sasagawa, M.Oishi, O.Tachibana, M.Nakada:Midline dural filum of the sellar floor: Its relationship to the septum attachment to the sellar floor and the ossification in the sphenoid sinus., *Clinical neurology and neurosurgery*, 147:53–58, 2016.
- 0440B002 (Y.Hayashi), D.Kita, T.Watanabe, I.Fukui, Y.Sasagawa, M.Oishi, O.Tachibana, F.Ueda, M.Nakada:Prediction of postoperative diabetes insipidus using morphological hyperintensity patterns in the pituitary stalk on magnetic resonance imaging after transsphenoidal surgery for sellar tumors., *Pituitary*, 19:6:552–559, 2016.
- 0440B003 (Y.Hayashi), D.Kita, I.Fukui, Y.Sasagawa, M.Oishi, M.Okajima, O.Tachibana, M.Nakada:Pediatric symptomatic Rathke cleft cyst compared with cystic craniopharyngioma., *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*, 32:9:1625–1632, 2016.
- 0440B004 Y.Hayashi, D.Kita, M.Iwato, I.Fukui, M.Oishi, T.Tsutsui, O.Tachibana, M.Nakada:Significant improvement of intractable headache after transsphenoidal surgery in patients with pituitary adenomas; preoperative neuroradiological evaluation and intraoperative intrasellar pressure measurement, *Pituitary*, 19:2:175–182, 2016.
- 0440B005 (Y.Sasagawa), O.Tachibana, M.Doai, Y.Hayashi, H.Tonami, H.Iizuka, M.Nakada:Carotid artery protrusion and dehiscence in patients with acromegaly, *Pituitary*, 19:5:482–487, 2016.
- 0440B006 J.Zou, M.Wang, O.Uchiumi, Y.Shui, Y.Ishigaki, X.Liu, N.Tajima, T.Akai, H.Iizuka, N.Kato:Learning impairment by minimal cortical injury in a mouse model of Alzheimer's disease., *Brain research*, 1637:56–63, 2016.

### Case Reports

- 0440D001 (Y.Sasagawa), O.Tachibana, A.Nakagawa, S.Nakada, T.Nojima, D.Koya, H.Iizuka:Rapid enlargement of an intracranial germ cell tumor after gonadotropin hormone therapy, *JOURNAL OF CLINICAL NEUROSCIENCE*, 31:185–188, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0440I001 M.Doai, H.Tonami, O.Tachibana:Utility of Histogram Analysis of Apparent Diffusion Coefficient Value for Distinguishing Pituitary Atypical Adenomas from Typical Adenomas, *International Society for Magnetic Resonance in Medicine 24th Annual Meeting and Exhibition 2016, Singapore*, 2016.
- 0440I002 T.Tsukada, H.Shimada, W.He, H.Sakata-Haga, H.Iizuka, T.Hatta:Critical role of SOCS3 in the suppression of the maternal-fetal leukemia inhibitory factor signal relay pathway for fetal brain development, *5th Conference on Prenatal Programming and Toxicity, Kokura*, 2016.
- 0440I003 O.Tachibana, Y.Sasagawa, A.Nakagawa, D.Koya, Y.Hayashi, M.Nakada, H.Iizuka:Expression of proinflammatory cytokines and receptors in symptomatic Rathke cleft cysts – a possible mediator of secondary hypophysitis with Rathke cleft cyst –, *Euro-pit and 14th IPPC meeting in Annecy, Lyon*, 2016.

## 0450 Department of Plastic and Reconstructive Surgery

### Faculty

Title	Name	Field of Specialization
Professor	KAWAKAMI Shigehiko	Plastic and Reconstructive Surgery
Associate Professor	SHIMADA Kenichi	Plastic and Reconstructive Surgery
Associate Professor	KISHIBE Miyuki	Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMASHITA Masanobu	Plastic and Reconstructive Surgery
Senior Assistant Professor	YAMASHITA Akiko	Plastic and Reconstructive Surgery
Senior Assistant Professor	MIYANAGA Toru	Plastic and Reconstructive Surgery
Assistant Professor	YAMAMOTO Yasunori	Plastic and Reconstructive Surgery
Assistant Professor	KOMURO Akito	Plastic and Reconstructive Surgery
Assistant Professor	KADOHIRA Mitsuhiro	Plastic and Reconstructive Surgery
Assistant Professor	KANEKO Takayoshi	Plastic and Reconstructive Surgery
Assistant Professor	KOIZUMI Naoko	Plastic and Reconstructive Surgery
Assistant Professor	SUGISHITA Kazuyuki	Plastic and Reconstructive Surgery
Assistant Professor	DAIZO Haruhisa	Plastic and Reconstructive Surgery
Assistant Professor	NISHIBU Yasuhiro	Plastic and Reconstructive Surgery
Assistant Professor	HIMI Yuji	Plastic and Reconstructive Surgery
Assistant Professor	YAGISHITA Mikio	Plastic and Reconstructive Surgery
Assistant Professor	SAKAGAMI Akihiko	Plastic and Reconstructive Surgery
Assistant Professor	YONEZAWA Minami	

### Keywords of Research

fibroblast, FGF receptor, pressure ulcer, TGF- $\beta$ , TGF- $\beta$  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 T.Miyanaga, K.Shimada, M.Kishibe, H.Daizo, A.Komuro:Perifascial areolar tissue grafting for treating syndactyly with bone fusion in patients with Apert syndrome., Journal of plastic surgery and hand surgery, 50:1;40-43, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0450I001 A.Sakagami, M.Yamashita, H.Daizo, A.Yamashita, M.Kishibe, K.Shimada, S.Kawakami:Correction of late posttraumatic enophthalmos using an antral balloon, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I002 T.Miyanaga, S.Kawakami:The double volar flap for repair of syndactyly without skin graft, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I003 A.Yamashita, M.Yamashita, K.Shimada, S.Kawakami:Three-dimensional computed tomography venography as a guide for cranioplasty in parietal cephalocele (poster), The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I004 Y.Himi, K.Makimoto, S.Kawakami:Experience of using intraoperative ultrasonic echo for treatment of independent zygomatic arch fracture, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I005 K.Shimada, S.Kawakami:"A Tin Hand" on behalf of "A Lead Hand"-A Simple Holding Device For Hand Surgery-, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I006 (K.Makimoto), Y.Himi, Y.Morimoto, K.Shimada:Two cases of Intractable Cutaneous Ulcer with Postoperative Lymphorrhea by using Negative Pressure Wound Therapy, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I007 A.Komuro, A.Okamura, H.Taguchi, A.Takeuchi, K.Michisita:Ocular torticollis secondary to a pediatric orbital floor fracture, The 13th Japan-Korea Congress of Plastic and Reconstructive Surgery, Kanazawa, 2016.
- 0450I008 A.Yamashita, M.Yamashita, S.Kawakami:Indications for emergency surgery in pediatric orbital floor fractures, Asian Pacific Craniofacial Association 2016, Nara, 2016.
- 0450I009 T.Kuroda, M.Yamashita, S.Kawakami:Bilateral sagittal split osteotomy without skeletal fixation, Asian Pacific Craniofacial association 2016, Nara, 2016.
- 0450I010 M.Yamashita:Fronto-orbital advancement: To distract or not to distract?, Asian Pacific Craniofacial Association 2016, Nara, 2016.

## 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	TAKAHASHI Sadayoshi	Pediatric surgery
Assistant Professor	SATOMI Miwa	Pediatric surgery
Assistant Professor	SHIRONOMAE Tsubasa	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 H.Yoshizaki, H.Ogiso, T.Okazaki, E.Kiyokawa:Comparative lipid analysis in the normal and cancerous organoids of MDCK cells., *Journal of Biochemistry*, 159:6;573-584, 2016.

#### Case Reports

0460D001 Y.Yasui, M.Kohno, S.Nishida, T.Shironomae, M.Satomi, T.Kuwahara, S.Takahashi, Y.Niida:Cartilage-hair hypoplasia associated with isolated hypoganglionosis: A case report., *Congenital anomalies*, 52:32-34, 2016.

0460D002 R.Fujisawa, T.Nakamura, K.Ishimaru, S.Toki, G.Ko, C.Akita, T.Nakamura, H.Sato, T.Kuwahara, M.Kohno, Y.Saikawa: Painless bloody stool due to a Meckel diverticulum in infant : a case report, *Japanese Journal of Pediatrics*, 69:10;1651-1655, 2016.

**Others**

0460F001 M.Kohno, T.Taguchi, T.Iwanaka, T.Okamatsu:Accessory Ear and Cervical Ear, Operative General Surgery in Neonates and Infants, 89-91, 2016.



## 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	KAWAKAMI Yutaka	cataract
Assistant Professor	ARIMOTO Atsushi	macular degeneration
Assistant Professor	OSADA Hiromi	cataract, ophthalmology, macular degeneration
Assistant Professor	SHIBATA Shinsuke	cataract, ophthalmology, oxidative stress and eye disease
Assistant Professor	SHIBATA Naoko	cataract, ophthalmology, oxidative stress and eye disease
Assistant Professor	TAKAHASHI Yoriko	cataract
Assistant Professor	HATSUSAKA Natsuko	ophthalmological optics, epidemiology, ultraviolet
Assistant Professor	FUJITA Nobuyuki	uveitis
Assistant Professor	SHIBATA Teppei	cataract, oxidative stress and eye disease

### Keywords of Research

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

### Outline of Research

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

## Publications

### Originals

- 0470B001 M.Fukuda, H.Sasaki:In vivo measurement of human corneal impedance value, *Cornea*, 35:1305–1307, 2016.
- 0470B002 M.Fukuda, N.Takeda, S.Shibata, N.Shibata, T.Shibata, K.Sugiyama, H.Sasaki:In vitro and in vivo corneal effects of latanoprost combined with brimonidine, timolol, dorzolamide, or brinzolamide, *European Journal of Pharmacology*, 787:43–46, 2016.
- 0470B003 T.Shibata, Y.Takahashi, A.Okamoto, H.Sasaki, K.Kitagawa:An adult case of fulminant mumps keratitis with positive viral RNA in aqueous humor detected by RT-PCR, *Cornea*, 35:569–571, 2016.
- 0470B004 S.Shibata, N.Shibata, T.Shibata, H.Sasaki, DP.Singh, E.Kubo:The role of Prdx6 in the protection of cell of the crystalline lens from oxidative stress induced by UV exposure, *Japanese Journal of Ophthalmology*, 60:408–418, 2016.
- 0470B005 T.Shibata, S.Shibata, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh, E.Kubo:Propolis, a constituent of honey, inhibits the development of sugar cataracts and high-glucose-induced reactive oxygen species in rat lenses, *Journal of Ophthalmology*, 2016;1917093, 2016.
- 0470B006 (SP.Singh), B.Chhunchha, N.Fatma, E.Kubo, SP.Singh, DP.Singh:Delivery of a protein transduction domain-mediated Prdx6 protein ameliorates oxidative stress-induced injury in human and mouse neuronal cells, *American Journal of Physiology-Cell Physiology*, 310:C-1-C-16, 2016.

## Presentations at Conference

### International Conference (Symposium)

- 0470H001 E.Kubo:Tropomyosin and its relationship with posterior capsular opacity, *Crystalline Lens 2016 at Wakayama; Basic and Clinical Aspects*, Wakayama, 2016.

### International Conference (Presentations)

- 0470I001 (Y.Suzuki), M.Kojima, J.Chakarothai, K.Sasaki, M.Taki, H.Sasaki:Investigation on corneal epithelium damage thresholds by CEM43°C criterion due to millimeter-wave electromagnetic field exposure, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I002 S.Shibata, N.Shibata, T.Shibata, N.Tanimura, H.Sasaki, E.Kubo:Age-related cataract and expression level of decorin in human eye: association with opacity severity, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I003 H.Sasaki, M.Kita, H.Miyashita, N.Tanimura, H.Osada, T.Shibata, Y.Takahashi, S.Shibata, E.Kubo:Influence of age on visual function of eyes with cataract, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I004 E.Kubo, T.Shibata, S.Shibata, H.Sasaki, E.Kiyokawa, M.Ikawa, DP.Singh:Knock-down of Tropomyosin 2 created by CRISPR-CAS9 in mouse induces age-related-cataract, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I005 N.Tanimura, E.Shibuya, M.Kita, A.Okamoto, N.Mita, N.Hatsusaka, T.Shibata, S.Shibata, E.Kubo, H.Sasaki:Visual function of eyes with waterclefts, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I006 H.Miyashita, H.Osada, E.Shibuya, N.Tanimura, T.Shibata, S.Shibata, K.Sasaki, E.Kubo, H.Sasaki:Evaluation of waterclefts by anterior segment OCT, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 0470I007 H.Sasaki, E.Shibuya, M.Sasaki, M.Kita, H.Osada, N.Shibata, E.Kubo:Posterior capsular wrinkles in eyes with 1-piece intraocular lens, *ESCRS Annual Congress 2016*, Copenhagen, 2016.

## 0475 Department of Otorhinolaryngology

### Faculty

Title	Name	Field of Specialization
Professor	MIWA Takaki	Otorhinolaryngology, Head and Neck Surgery
Professor	SUZUKA Yuko	Otology, Auditory physiology, Equilibrium neuroscience
Associate Professor	SHIGA Hideaki	Rhinology, Olfactory disorders
Senior Assistant Professor	MIYAZAWA Toru	Otorhinolaryngology, Otology
Senior Assistant Professor	TERAGUCHI Kanako	Rhinology, general otology
Senior Assistant Professor	YAO Toru	Otology, Rhinology
Assistant Professor	KINOSHITA Yuko	Otorhinolaryngology
Assistant Professor	YAMAMOTO Junpei	General otorhinolaryngology, Olfactory disorders
Assistant Professor	NODA Takuya	General otorhinolaryngology
Assistant Professor	YAMADA Kentaro	General otorhinolaryngology
Assistant Professor	INAGAKI Shingo	General otorhinolaryngology
Assistant Professor	HARITA Masayuki	General otorhinolaryngology

### Keywords of Research

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

### Outline of Research

Basic and clinical research for diagnosis and treatment of olfactory disorders(Miwa, Shiga, Teraguchi, Yamamoto, Yamada, Noda, Harita)  
New educational system for endoscopic sinus surgery(Miwa, Shiga, Teraguchi)  
Auditory central functional imaging with MEG(Suzuka, Teraguchi)  
Clinical research for snore and sleep apnea(Miwa, Sakai)

### Presentations at Conference

#### International Conference (Key Note Lecture)

0475G001 T.Miwa:Recent advance of diagnosis and treatment of olfactory disorders, The 101st annual meeting of Taiwan Otolaryngological Society, Taoyuan, 2016.

#### International Conference (Symposium)

0475H001 H.Shiga, T.Miwa:Clinical value of olfactory molecular imaging, 17th International symposium on olfaction and taste, Yokohama, 2016.

0475H002 T.Miwa:TOPICAL THERAPIES, 26th Congress of the European Rhinologic Society, Stockholm, 2016.

0475H003 T.Miwa:Managing olfactory loss, 26th Congress of the European Rhinologic Society, Stockholm, 2016.

#### International Conference (Presentations)

- 0475I001 Y.Nakamura, T.Miyazawa, T.Miwa:A case of inflammatory myofibroblastic tumor occurred from the larynx, The 16th Japan–Korea joint meeting of otorhinolaryngology–head and neck surgery, Tokyo, 2016.
- 0475I002 T.Hiraba, Y.Nakamura, T.Noda, K.Yamada, J.Yamamoto, K.Teraguchi, H.Shiga, T.Miwa:The relationship between olfactory dysfunction and the number of eosinophils in nasal polyp tissues in surgical cases, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I003 J.Ymamoto, H.Shiga, T.Hiraba, Y.Nakamura, M.Harita, T.Noda, K.Yamada, T.Miwa:Bilateral dysgeusia after head trauma, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I004 K.Yamada, H.Shiga, H.Ninomiya, J.Ymamoto, T.Noda, M.Harita, Y.Nakamura, T.Hiraba, T.Miwa:An investigation into the differences in damage of the olfactory epithelium between female and male mice after administration of methimazole, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I005 T.Noda, H.Shiga, H.Ninomiya, Y.Nakamura, T.Hiraba, M.Harita, K.Yamada, J.Yamamoto, T.Miwa:Effect of Kampo medicine Tokishakuyakusan on olfactory epithelium in olfactory impaired mice, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I006 Y.Nakamura, H.Shiga, H.Ninomiya, T.Noda, K.Yamada, M.Harita, T.Hiraba, J.Yamamoto, T.Miwa:Direct transport of insulin to the olfactory bulb of mice by nasal administration, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I007 M.Harita, H.Shiga, T.Hiraba, Y.Nakamura, T.Noda, K.Yamada, H.Ninomiya, T.Miwa:Behavioral assessment of mouse olfaction using a new experimental device, 17th International symposium on olfaction and taste, Yokohama, 2016.
- 0475I008 M.Kumai, T.Miwa:The relationship between olfactory dysfunction and the number of eosinophils in nasal polyps, 26th Congress of the european rhinologic society, Stockholm, 2016.
- 0475I009 M.Harita, H.Shiga, T.Hiraba, Y.Nakamura, T.Noda, K.Yamada, H.Ninomiya, T.Miwa:Observation of odor behavior by the new simple device in mice, 26th Congress of the european rhinologic society, Stockholm, 2016.

## 0485 Department of Head and Neck Surgery

### Faculty

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Title	Name	Field of Specialization
Professor	TSUJI Hiroyuki	Head and neck oncology, Head and neck surgery
Senior Assistant Professor	SHIMODE Yuzo	Head and neck oncology, surgery, Thyroid gland tumor research
Assistant Professor	KISHIMOTO Kazuhiro	Head and neck surgery

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### Keywords of Research

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

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### Outline of Research

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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)

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## 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	ISHIZAKI Yasuko	Dermatopathology, cutaneous malignant tumor
Senior Assistant Professor	FUJII Toshiki	Dermatopathology
Assistant Professor	ANZAWA Kazushi	Medical mycology
Assistant Professor	USHIGAMI Tsuyoshi	Medical mycology
Associate Professor	WATANABE Seiji	Medical mycology

### 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 K.Takeda, H.Mochizuki, K.Izumi, Y.Sakata, T.Ushigami, A.Nishibu, K.Anzawa, T.Mochizuki: Polyclonality of Trichophyton rubrum isolates in a dermatophytosis patient with multiple lesions, Medical Mycology Journal, 57:17-20, 2016.
- 0490B002 T.Nakamura, A.Nishibu, N.Yoshida, M.Yasoshima, K.Anzawa, Y.Watanabe, Y.Nagai, K.Takatsu, K.Ogawa, T.Mochizuki: Glycyrrhetic acid inhibits contact hypersensitivity induced by trichophytin via dectin-1., Experimental Dermatology, 25:299-304, 2016.
- 0490B003 M.Higashino, T.Yabe, S.Matsuda, K.Takeda, K.Anzawa, T.Mochizuki, K.Makimura, S.Saijyo, Y.Iwakura, H.Toga, A.Nakamura: A critical role of Dectin-1 in hypersensitivity pneumonitis., Inflammation Research, 65:3:235-244, 2016.

## Reviews

- 0490C001 T.Mochizuki:Cutaneous mycoses: management and education in universities and their clinics in Japan, Medical Mycology Journal, 57:2;J89-J94, 2016.
- 0490C002 T.Mochizuki, K.Takeda, K.Anzawa:Molecular Markers Useful for Intraspecies Subtyping and Strain Differentiation of Dermatophytes., Mycopathologia, 182:1;57-65, 2016.

## Presentations at Conference

### International Conference (Key Note Lecture)

- 0490G001 T.Mochizuki:Molecular epidemiology of dermatophytoses, Taiwanese Dermatological Association Spring Meeting 2016, Takao, 2016.
- 0490G002 T.Mochizuki:Nosocomial dermatophytosis, Taiwanese Dermatological Association Spring Meeting 2016, Takao, 2016.

### International Conference (Symposium)

- 0490H001 T.Mochizuki:Superficial Mycoses: Introduction & Clinical Symptoms. Precongress APSMM-MMTN workshop, The 6th Asia Pacific Society for Medical Mycology Congress, Bali, 2016.
- 0490H002 T.Mochizuki:Recent trend of diagnosis and treatment of onychomycosis, The 4th Eastern Asia Dermatologiy Congress, Tokyo, 2016.

## 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
Professor	SUZUKI Koji	kidney stone disease, kidney transplantation, hyperparathyroidism
Senior Assistant Professor	CHIKAZAWA Ippei	general urology
Senior Assistant Professor	MORITA Nobuyo	general urology
Assistant Professor	SUGA Koudai	general urology
Assistant Professor	TACHIBANA Hiromichi	general urology
Assistant Professor	NAKAI Dan	general urology
Assistant Professor	INOUE Shinya	general urology
Assistant Professor	NAKAZAWA Yusuke	general urology

### Keywords of Research

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

### Outline of Research

clinical research on renal transplantation, mechanism of urolithiasis

### Publications

#### Originals

- 0500B001 I.Chikazawa, S.Inoue, Y.Nakazawa, D.Nakai, T.Ishii, H.Tachibana, K.Suga, N.Morita, T.Tanaka, K.Ota, M.Matoba, K.Miyazawa:The effect of radiation therapy for bone metastasis in urinary organ cancer, Japanese Journal of Urology, 107:1;7-12, 2016.

#### Case Reports

- 0500D001 Y.Nakazawa, S.Kuwasaki, S.Inoue, D.Nakai, N.Morita, H.Tachibana, I.Chikazawa, T.Tanaka, M.Matoba, K.Sato,and K.Miyazawa:A case of renal cell carcinoma metastasized to gluteal muscle after partial nephrectomy, Japanese Journal of Urological Surgery, 29:2;177-180, 2016.
- 0500D002 I.Chikazawa, N.Morita, T.Tanaka, K.Sato, K.Miyazawa:Peritoneal carcinomatosis due to direct liver invasion arising from renal cell carcinoma : a case report, Japanese Journal of Clinical Urology, 70:7;543-546, 2016.
- 0500D003 K.Nagata, Y.Tanaka, M.Matsumoto, C.Tanaka, K.Nitta, K.Miyazawa, Y.Iinuma:A case of 2,8-dihydroxyadenine crystal urine that did not show urine calculus, Japanese Journal of Medical Technology, 65:6;695-699, 2016.



## **Presentations at Conference**

### **International Conference (Presentations)**

- 0500I001 D.Nakai, S.Inoue, Y.Nakazawa, N.Morita, K.Miyazawa, Y.Ishigaki:Febuxostat reduces calcium oxalate monohydrate crystal-induced upregulation of MCP-1 in MDCK cells, 13th International Symposium on Urolithiasis, Makuhari, 2016.
- 0500I002 N.Morita, S.Inoue, Y.Nakazawa, D.Nakai, K.Miyazawa:Microplate method for measurement of urinary supersaturation to indicate stone recurrence of calcium oxalate, 13th International Symposium on Urolithiasis, Makuhari, 2016.
- 0500I003 N.Morita, S.Inoue, Y.Nakazawa, D.Nakai, K.Miyazawa:Impact of preoperative stenting to flexible ureterorenoscope on outcomes and patient quality of life, 13th International Symposium on Urolithiasis, Makuhari, 2016.

## 0510 Department of Obstetrics and Gynecology

### Faculty

Title	Name	Field of Specialization
Professor	SASAGAWA Toshiyuki	Gynecologic Pathology, Tumor Virology, Sexually Transmitted Infection Research, Immunology
Senior Assistant Professor	TAKAGI Hiroaki	perinatal medicine, reproductive medicine, gynecologic oncology
Senior Assistant Professor	TOMIZAWA Hideki	perinatal medicine, reproductive medicine
Senior Assistant Professor	FUJITA Satoko	perinatal medicine, reproductive medicine
Assistant Professor	SHIBATA Takeo	perinatal medicine, reproductive medicine
Assistant Professor	NEYATANI Natsuko	perinatal medicine, climacteric 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 S.Fujita:Evaluation of Efficacy of Drug Therapy for HPV Infection-Related Diseases of Cervix and Vagina, and Analysis of Factors Influencing the Therapeutic Effect, Journal of Kanazawa Medical University, 41:43-50, 2016.

- 0510B002 S.Fujita, T.Sasagawa:Ablation therapy for cervical and vaginal intraepithelial tumors and Analysis of factors influencing the therapeutic effect, Japanese journal of sexually transmitted infections, 27:1;61-67, 2016.
- 0510B003 T.Sasagawa, T.Maehama, K.Ideta, T.Irie, F.Itoh, J-HERS Study Group:Population-based study for human papillomavirus (HPV) infection in young women in Japan: A multicenter study by the Japanese human papillomavirus disease education research survey group (J-HERS), Journal of medical virology, 88:324-335, 2016.
- 0510B004 T.Shibata, S.Makinoda, T.Waseda, H.Tomizawa, R.Fujii, T.Utsunomiya:Granulocyte colony-stimulating factor as a potential inducer of ovulation in infertile women with luteinized unruptured follicle syndrome, Translational Research, 171:63-70, 2016.
- 0510B005 T.Shibata, J.Sakamoto, Y.Osaka, N.Neyatani, S.Fujita, Y.Oka, H.Takagi, H.Mori, H.Fujita, Y.Tanaka, T.Sasagawa:Myeloperoxidase in blood neutrophils during normal and abnormal menstrual cycles in women of reproductive age, International Journal of Laboratory Hematology, 39:169-174, 2016.

## 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	YUGI Haruka	Clinical anesthesia
Assistant Professor	UEDA Keiko	Clinical anesthesia

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Others

0520F001 M.Ogawa, K.Honnma, H.Kida, Y.Yamaoka, Y.Tanaka, H.Araki, M.Takano, T.Morikawa, K.Ueda, S.Matsuba, S.Miyajima, H.Tsuchida: Perioperative risk stratification model, 40:12;1707-1712, 2016.

## 0540 Department of Physical and Rehabilitation Medicine

### Faculty

Title	Name	Field of Specialization
Professor	KAGECHIKA Kenji	rehabilitation medicine, osteoporosis, disuse syndrome, higher brain dysfunction

### Keywords of Research

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

### Outline of Research

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

### Presentations at Conference

#### International Conference (Presentations)

- 0540I001 Y.Takagi, A.Nakanami, K.Kagechika, T.Yahata: Intrathecal Baclofen (ITB) therapy to severe spasticity, 10th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, 2016.
- 0540I002 K.Kagechika, S.Ohkubo, T.Ohshima, M.Nakata, M.Tsubokawa, F.Takeuchi, W.Ohsu, Y.Takagi, A.Nakanami: Utility of mirror treatment method with digital image display device in stroke patients with upper arm dysfunction, 10th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, 2016.
- 0540I003 K.Kagechika, M.Nakata, M.Tsubokawa, F.Takeuchi, W.Ohsu, Y.Takagi, A.Nakanami: An estimation method of volume and trabecula architecture of cancellous bone in hemiplegic patients, 10th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, 2016.
- 0540I004 K.Kagechika, M.Nakata, M.Tsubokawa, F.Takeuchi, W.Ohsu, Y.Takagi, A.Nakanami: A stroke patient with persistent disturbance of consciousness who recovered from cervical dystonia and could communicate by using botulinum toxin type A treatment, 10th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, 2016.
- 0540I005 K.Kagechika, M.Nakata, M.Tsubokawa, F.Takeuchi, W.Ohsu, Y.Takagi, A.Nakanami: Relationship between the skin impedance of stroke patients and pain measurement, 10th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM) World Congress, Kuala Lumpur, 2016.

## 0550 Department of Emergency Medicine

### Faculty

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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

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### Keywords of Research

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

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### Outline of Research

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

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## 0570 Community Medicine

### Faculty

Title	Name	Field of Specialization
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
Senior Assistant Professor (Additional Post)	TAKAHASHI Masakatsu	clinical respiratory medicine, pulmonary tuberculosis
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 A.Takamura, S.Ito, K.Maruyama, Y.Ryo, M.Saito, S.Fujimura, Y.Ishiura, A.Hori:Quality status of BLS education and AED setting in schools in Ishikawa, Japan., *Pediatrics international : official journal of the Japan Pediatric Society*, 59:3;352-356, 2016.
- 0570B002 D.Usuda, R.Sangen, Y.Hashimoto, E.Muranaka, Y.Iinuma, T.Kanda:Validation of a B-type natriuretic peptide as a prognostic marker in pneumonia patients: a prospective cohort study, *BMJ open*, 6:2:e010440, 2016.
- 0570B003 M.Tagata, D.Usuda, Y.Noda, Y.Iinuma, Y.Nishita, Y.Yamamoto, O.Niwa:Usability by the colorimetric method for measurement of chlorine concentration in hypochlorite solutions and factors for change of the concentration, *Japanese Journal of Environmental Infections*, 31:5;314-317, 2016.

#### Reviews

- 0570C001 A.Takamura:The new era of postgraduate certified general practice training in Japan., *Education for primary care : an official publication of the Association of Course Organisers, National Association of GP Tutors, World Organisation of Family Doctors*, 27:5;409-412, 2016.

#### Case Reports

- 0570D001 D.Usuda, R.Sangen, Y.Iwata, T.Kanda:Interstitial Pneumonia in a 94-Year-Old Woman with MPO-ANCA Positive Vasculitis, *Case Reports in Clinical Medicine*, 5:61-65, 2016.
- 0570D002 D.Usuda, M.Arahata, R.Temaru, Y.Iinuma, T.Kanda, S.Hayashi:Autopsy-proven intravascular lymphoma presenting as rapidly recurrent strokes, *Case reports in oncology*, 9:1;148-153, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 05701001 K.Kawamura, Y.Iinuma, D.Usuda, M.Matsumoto, Y.Tanaka, M.Kawano, S.Tateyama, Y.Itose:Evaluation of urine flow cytometer Sysmex UF-5000:the comparison with routine methods for identifying bacteria, The 32nd World Congress of Biomedical Laboratory Science, Kobe, 2016.



## 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
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
Associate Professor	URASHIMA Sachio	Diagnosis for esophagus, Hepato-biliary-pancreatic treatment
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
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	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	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

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 0575B001 K.Hamada, T.Itoh, K.Kawaura, S.Azukisawa, R.Kobayashi, H.Okamura, H.Kitakata, S.Urashima, T.Nojima, M.Fujino:Findings of the margin around lesions by magnifying endoscopy with narrow-band imaging in early gastric carcinoma and intestinal metaplasia., Journal of digestive diseases, 17:6;377-382, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 0575I001 H.Kitakata, T.Itoh, S.Kinami, S.Azukisawa, R.Kobayashi, K.Hamada, K.Kawaura, T.Kosaka:A clinical study of endoscopic full-thickness resection by serosa sealing method for submucosal invasive gastric cancer without sentinel node metastasis., UEGW2016, Venue, 2016.
- 0575I002 K.Hamada,T.Itoh:Usefulness of the margin around lesion findings by magnifying endoscopy with narrow-band imaging in early gastric carcinoma., UEGW2016, Venue, 2016.
- 0575I003 K.Kawaura, K.Hamada, H.Kitakata, H.Okamura, S.Urashima, T.Itoh:Consideration of the percutaneous endoscopic gastrostomy., APDW2016, Kobe, 2016.

## 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 T.Kato, N.Segami, H.Sakagami:Anti-inflammatory Activity of Hangeshashinto in IL-1  $\beta$  -stimulated Gingival and Periodontal Ligament Fibroblasts, In vivo (Athens, Greece), 30:3;257-264, 2016.
- 0580B002 H.Ishibashi:A Novel Gene Therapy to Treat Lesions of the Teeth, Oral Cavity, and Maxillofacial Region, Journal of Japan Association of Dental Traumatology, 12:1;19-25, 2016.

#### Reviews

- 0580C001 N.Segami:<TMJ luxation:Measures in aging society> Strategy and proposal flow-chart in surgery for temporomandibular joint dislocation, Journal of the Japanese Society for the Temporomandibular Joint, 28:1;14-21, 2016.

## **School of Nursing**

## 8010 Fundamental Nursing

### Faculty

Title	Name	Field of Specialization
Professor	SAKAI Keiko	Nursing history, Nursing skills
Professor	TAKIUTI Takako	Nursing history, Nursing skill
Associate Professor	MATSUI Yuko	Nursing skill
Senior Assistant Professor	SUGIMORI Chiyoko	Nursing skill
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, communication skills, skin care, wound care

### Outline of Research

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

### Publications

#### Originals

- 8010B001 C.Sugimori, M.Inagaki:The experiences of elderly patients with early cancer waiting for gastrointestinal endoscopic surgery, *Journak of Society of Nursing Practice*, 28:2;16-26, 2016.
- 8010B002 (H.Tanabe), T.Takahashi, R.Murayama, K.Yabunaka, M.Oe, Y.Matsui, R.Arai, M.Uchida, C.Komiyama, H.Sanada:Using ultrasonography for vessel diameter assessment to prevent infiltration, *Journal of Infusion Nursin*, 39:2;105-111, 2016.
- 8010B003 (T.Yokono), H.Sanada, J.Sugama, C.Konya, M.Okuwa, Y.Matsui, J.Matsuo, S.Kinoshita, Y.Ichikawa, T.Kaitani, A.Sato, Y.Fujimoto: Evaluation of the utility of a collaborative skills scale developed for self-assessment by wound, ostomy, and continece nurses for pressure ulcer management according to nurses' years of experience, *Journal of Japanese Society of Wound, Ostomy and Continence Management*, 20:1;32-42, 2016.
- 8010B004 S.Maeda, T.Takiuti, Y.Kohno, H.Nakai, M.Fukuda, M.Moriyama:Catheter blockage factors in patients cared for in their own home requiring long-term urinary catheterisation, *International Journal of Urological Nursing*, 1-8, 2016.

#### Case Reports

- 8010D001 (M.Oya), T.Takahashi, H.Tanabe, M.Oe, R.Murayama, K.Yabunaka, Y.Matsui, H.Sanada:Low-temperature infiltration identified using infrared thermography in patients with subcutaneous edema evealed ultrasonographically: A case report, *Drug Discoveries & Therapeutics*, 10:2;117-122, 2016.

## Others

- 8010F001 (T.Kadono), K.Furuta, Y.Nagai, H.Kanoh, Y.Sekine, Y.Noda, F.Mizokami, H.Kataoka, H.Nakagawa, K.Tanaka, T.Daian, Y.Kurashige, G.Nakagami, N.Makabe, R.Sekine, M.Takasaki, K.Yoshiro, T.Endo, M.Hidaka, N.Maeshige, K.Kubota, T.Morita, M.Okuwa, M.Miyajima, M.Noguchi, S.Kinoshita, M.Sobue, Y.Matsui, Y.Murooka, Y.Ishida:JSPU guidelines for the prevention and management of pressure ulcers (4th Ed.), Japanese Journal of Pressure Ulcers, 18:4;455-544, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 8010I001 S.Maeda, T.Takiuti, M.Moriyama, Y.Kohno, H.Nakai, M.Fukuda:Development of a protocol for the prevention and management of long-term indwelling urinary catheter blockage for visiting nurses, 17th international EAUN meeting, Munich, 2016.
- 8010I002 Y.Matsui, J.Sugama, M.Ishizawa, N.Kamata, S.Kawakami, S.Kinosita, H.Sanada, G.Nakagami, S.Fukagawa, M.Furue, Y.Miyachi, K.Yokoo:Location of severe medical device-related pressure ulcers by anti-embolism stockings and intermittent pneumatic compression devices in Japan, 5th Congress of World Union of Wound Healing Societies, Firenze, 2016.

## 8040 Maternity Nursing・Midwifery

### Faculty

Title	Name	Field of Specialization
Professor	YANAGIHARA Machiko	Maternity Nursing, Midwifery
Senior Assistant Professor	BODA Hitomi	Maternity Nursing, Midwifery
Senior Assistant Professor	IWATANI Kumiko	Maternity Nursing, Midwifery
Assistant Professor	YAMAZAKI Chisato	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 K.Iwatani, K.Shimada:A descriptive study of student incident characteristics during birth assistance practical training: An educational perspective, Journal of the Tsuruma Health Science Society, 40:1;55-64, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 8040I001 K.Iwatani, S.Yoshida, K.Kanamori, C.Yamazaki, M.Izuhara, K.Shimada:Challenges of Safety Management Guidance as Part of Skilled Birth Attendance Training, East Asian Forum of Nursing Scholars 19th, Chiba, 2016.
- 8040I002 M.Nishijo, PN.Thao, PT.Tai, T.Anh, H.Boda, S.Nagasawa, Y.Nishino, H.Nishijo:Neurotoxic effects of perinatal dioxin exposure on children in Vietnam:Two birth cohort studiies in hot spots of dioxin contamination from Agent Orange, pptoxV, Kitakyusyu, 2016.

## 8050 Pediatric Nursing

### Faculty

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

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### Keywords of Research

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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,

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### Outline of Research

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- 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
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## 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	KITAMURA Yoshiko	Cancer Nursing
Senior Assistant Professor	KINOSHITA Sachiko	Wound Care, Stoma care, Continence care
Assistant Professor	ASANO Kimi	Wound Care
Assistant Professor	Natsuko Yamada	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 (T.Yokono), H.Sanada, J.Sugama, C.Konya, M.Okuwa, Y.Matsui, J.Matsuo, S.Kinoshita, Y.Ichikawa, T.Kaitani, A.Sato, Y.Fujimoto:Evaluation of the utility of a collaborative skills scale developed for self-assessment by wound, ostomy, and continence nurses for pressure ulcer management according to nurses' years of experience, *Journal of Japanese Society of Wound, Ostomy and Continence Management*, 20:1;32-42, 2016.
- 8060B002 (E.Komatsu), Y.Nakajima, K.Mukai, T.Urai, K.Asano, M.Okuwa, J.Sugama, T.Nakatani:Lymph Drainage During Wound Healing in a Hindlimb Lymphedema Mouse Model, *Lymphatic Research and Biology*, 2:1-9, 2016.
- 8060B003 (S.Waki), Y.Shimizu, K.Uchiumi, K.Asou, N.Kuroda, N.Murakado, N.Seto, H.Masaki, H.Ishii:Structural model of self-care agency in patients with diabetes: A path analysis of the Instrument of Diabetes Self-Care Agency and body self-awareness, *Japan journal of nursing science*, 13:4;478-486, 2016.

#### Short Communications

- 8060E001 C.Konya, Y.Mizokami, R.Kamide, N.Ohura, K.Tokunaga, H.Sanada, G.Nakagami, M.Abe, M.Okuwa, H.Noguchi, S.Iizaka, M.Kase, H.Koyanagi, M.Sobue, M.Takahashi, M.Tanabe, A.Tichiori, A.Naito, N.Nakamura, N.Mamiya, T.Miyanaga, K.Yamada:Epidemiology of skin tears caused by the medical adhesive tape, *Journal of Japanese Society of Wound, Ostomy and Continence Management*, 20:1;43-48, 2016.

#### Others

- 8060F001 (T.Kadono), K.Furuta, Y.Nagai, H.Kanoh, Y.Sekine, Y.Noda, F.Mizokami, H.Kataoka, H.Nakagawa, K.Tanaka, T.Daian, Y.Kurashige, G.Nakagami, N.Makabe, R.Sekine, M.Takasaki, K.Yoshiro, T.Endo, M.Hidaka, N.Maeshige, K.Kubota, T.Morita, M.Okuwa, M.Miyajima, M.Noguchi, S.Kinoshita, M.Sobue, Y.Matsui, Y.Murooka, Y.Ishida:JSPU guidelines for the prevention and management of pressure ulcers (4th Ed.), *Japanese Journal of Pressure Ulcers*, 18:4;455-544, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 8060I001 C.Konya, Y.Mizokami, R.Kamide, K.Tokunaga, H.Sanada, G.Nakagami:Epidemiology of Skin Tears in Japan: a nationwide survey, 5th congress of the World Union of Wound Healing Societies, Firenze, 2016.
- 8060I002 Y.Matsui, J.Sugama, M.Ishizawa, N.Kamata, S.Kawakami, S.Kinosita, H.Sanada, G.Nakagami, S.Fukagawa, M.Furue, Y.Miyachi, K.Yokoo:Location of severe medical device-related pressure ulcers by anti-embolism stockings and intermittent pneumatic compression devices in Japan, 5th Congress of World Union of Wound Healing Societies, Firenze, 2016.
- 8060I003 (K.Mukai), T.Urai, K.Asano, Y.Nakajima, T.Nakatani:Evaluation of the effect of estradiol benzoate on cutaneous wound healing in ovariectomized female mice. Focus on the inflammatory response., 5th congress of the World Union of Wound Healing Societies, Firenze, 2016.
- 8060I004 (T.Urai), K.Mukai, K.Asano, Y.Nakajima, J.Sugama, T.Nakatani:Effect of obesity on cutaneous wound healing without tension in obese mice, 5th congress of the World Union of Wound Healing Societies, Firenze, 2016.
- 8060I005 (Y.Nakajima), K.Mukai, T.Urai, K.Asano, M.Ohta, I.Kato, A.Kawaguchi, Y.Kinoshita, Y.Kumagai, A.Sakashita,T.Sawazaki, A.Yamazaki, T.Nakatani:Effects of honeydew honey on wound healing, 5th congress of the World Union of Wound Healing Societies, Firenze, 2016.

## 8070 Gerontological Nursing

### Faculty

Title	Name	Field of Specialization
Professor	HIRAMATSU Tomoko	community/elderly nursing science
Associate Professor	KOIZUMI Yumi	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

### Publications

#### Originals

- 8080B001 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa:Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men., Journal of diabetes investigation, 7:3;343-351, 2016.

## 8080 Community Health Nursing

### Faculty

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Title	Name	Field of Specialization
Professor	NAKASHIMA Motoko	public health nursing    School hygiene    Industrial health
Senior Assistant Professor	IKEUCHI Satomi	public health nursing
Assistant Professor	Tonoyama Noriko	public health nursing

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### Keywords of Research

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Public health nursing-care activity, Public health nursing education, Health promotion, activity of community organization, Non-smoking education, School hygiene, Industrial health,

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### Outline of Research

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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, part of a drug abuse prevention program for junior high school student and health maintenance.

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## 8085 Psychiatric and Mental Health Nursing

### Faculty

Title	Name	Field of Specialization
Professor	HASEGAWA Masami	depression, suicide prevention, therapeutic nursing, narrative approach
Associate Professor	FUKASAWA Yuko	Mental health, Psychiatric Nursing
Senior Assistant Professor	TANAKA Koji	life-world led care, patient-nurse interrelationship, empathy, psychiatric and mental health nursing
Senior Assistant Professor	NAGAYAMA Yutaka	Reducing the use of coercive measures, Strength-based nursing for psychiatric patients

### 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, Emotion Modulation Therapy

### Outline of Research

The purpose of our study is to clarify the suicide prevention effect for the depression people by Narrative approach and Emotion Modulation Therapy(EMT). We are trying the effect of these methods as new therapeutic nursing for depression people between our nursing clinic in Japan and Griffith University clinic in Australia.

### Presentations at Conference

#### International Conference (Key Note Lecture)

8085G001 M.Hasegawa:Depression and nursing of elderly persons, The International Gerontological Nursing Conference 2016, Wohan, 2016.

#### International Conference (Presentations)

8085I001 K.Tanaka, M.Hasegawa:A case of Charles Bonnet syndrome induced by visual impairment in an elderly adult, 19th East Asian Forum of Nursing Scholars, Chiba, 2016.

8085I002 M.Hasegawa, K.Tanaka, Y.Nagatama:The effect of Support Group for depression people by nurses, International Conference on Spirituality and psychology 2016, Thailand, 2016.

8085I003 M.Hasegawa:The effect of a nurse-assisted depression support group, 16th International forum on Mood and Anxiety Disorders, Roma, 2016.

## 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
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, Psychiatric Disorder, Community based Workshop, Recovery"concept

### Outline of Research

In this article, we showed clearly that the Community based Workshops for Persons with Psychiatric Disorder, where introduced Recovery"concept prevent the exclusion and separation from the community as functioned of the psychiatric service institution in the community.

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

### Publications

#### Originals

- 8090B001 H.Nakai, K.Tsukasaki, K.Kyota, T.Itatani, R.Nihonyanagi, Y.Shinmei, S.Yasuoka: Factors Related to Evacuation Intentions of Power-Dependent Home Care Patients in Japan, *Journal of Community Health Nursing*, 33:4;196-208, 2016.
- 8090B002 S.Maeda, T.Takiuti, Y.Kohno, H.Nakai, M.Fukuda, M.Moriyama: Catheter blockage factors in patients cared for in their own home requiring long-term urinary catheterisation, *International Journal of Urological Nursing*, 1-8, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 8090I001 S.Maeda, T.Takiuti, M.Moriyama, Y.Kohno, H.Nakai, M.Fukuda: Development of a protocol for the prevention and management of long-term indwelling urinary catheter blockage for visiting nurses, 17th international EAUN meeting, Munich, 2016.

## 8100 Medical Science

### Faculty

Title	Name	Field of Specialization
Professor	ISHIBASHI Takaharu	Cardiovascular Pharmacology
Professor	IWAI Kunimitsu	Geriatrics, Circulation, Cell Biology
Professor	KOHNO Hiroyuki	Experimental Pathology, Tumor immunology
Professor	KOJIMA Masami	Study of Cataractogenesis mechanisms, Relation of the intraocular temperature during infrared exposure and environmental temperature
Professor	MORIKAWA Yuko	Cardiovascular epidemiology, occupational medicine

### Keywords of Research

T. Ishibashi/ Nitric Oxide, T. Ishibashi/ Nitrite, T. Ishibashi/ Vasodilators, M. Kojima/electromagnetic radiation, M. Kojima/ultraviolet exposure, M. Kojima/infrared rays exposure

### Outline of Research

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

### Publications

#### Originals

- 8100B001 (K.Nakamura), M.Sakurai, Y.Morikawa, S.Nagasawa, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa: Serum Ferritin, Insulin Resistance, and  $\beta$ -cell Dysfunction: A Prospective Study in Normoglycemic Japanese Men, *Experimental and clinical endocrinology & diabetes : official journal, German Society of Endocrinology [and] German Diabetes Association*, 25:1;12-20, 2016.
- 8100B002 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men., *Journal of diabetes investigation*, 7:3;343-351, 2016.
- 8100B003 Y.Hamazaki, Y.Morikawa, S.Morimoto, H.Nakagawa: Difference in the impact of homebound status on functional decline between independent older men and women: A 2 year follow-up study., *Japan journal of nursing science*, 13:2;265-272, 2016.
- 8100B004 T.Arikawa, S.Liao, H.Shimada, T.Inoue, H.Sakata-Haga, T.Nakamura, T.Hatta, H.Syoji: Galectin-4 expression is down-regulated in response to autophagy during differentiation of rat trophoblast cells, *SCIENTIFIC REPORTS*, 6:1-11, 2016.
- 8100B005 K.Kitaoka, S.Masuda, K.Ohnishi, J.Nakahara, S.Takezawa, Y.Morikawa, H.Nakagawa, K.Nishimura, F.Nakamura, K.Iihara: Rate of burnout among Japanese mental health nurses assessed using the revised exhaustion+1 criterion: A comparison across occupations and countries, *Hokuriku journal of public health*, 42:2;69-75, 2016.

- 8100B006 T.Masuoka, M.Kudo, J.Yoshida, T.Ishibashi, I.Muramatsu, N.Kato, N.Imaizumi, M.Nishio:Long-term activation of group I metabotropic glutamate receptors increases functional TRPV1-expressing neurons in mouse dorsal root ganglia, *Frontiers in Cellular Neuroscience*, 10:79, 2016.

## **Presentations at Conference**

### **International Conference (Symposium)**

- 8100H001 T.Masuoka, T.Ishibashi, M.Nishio:Possible contribution of glutamate receptors in ocular hyperalgesia, XXI Biennial Meeting of the International Society for Eye Research, Tokyo, 2016.

### **International Conference (Presentations)**

- 8100I001 (Y.Suzuki), M.Kojima, J.Chakarothai, K.Sasaki, M.Taki, H.Sasaki:Investigation on corneal epithelium damage thresholds by CEM43°C criterion due to millimeter-wave electromagnetic field exposure, *The Association for Research in Vision and Ophthalmology 2016*, Seattle, 2016.
- 8100I002 T.Masuoka, M.Kudo, T.Ishibashi, M.Nishio:TRPA1 channel modifies membrane current induced by TRPV1 channels activation in dorsal root ganglion neurons, *Neuroscience 2016*, San Diego, 2016.



## **Department of General Education**

## 8610 Natural Sciences

### Faculty

Title	Name	Field of Specialization
Associate Professor	SHOJI Hiroki	Developmental Biology, Molecular Biology, Biochemistry
Associate Professor	HASHIMOTO Mitsumasa	Radiation Biology, Cell Biology
Associate Professor	IIDA Yasuo	Function algebra, Function space
Senior Assistant Professor	ARIKAWA Tomohiro	Immunology, Developmental Biology
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

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, , Nuclear medicine Nuclear cardiology, Imaging, Image processing SPECT, DNA repair, 53BP1, NHEJ, HR, Ionizing Radiation, DNA double strand breaks (DSBs), history of science, history of technology Galileo Galilei Isaac Newton Venetian patent law, , Metastasis, Metastasis Inducing Gene, RhoGDI  $\beta$  (LyGDI/D4GDI/RhoGDI2), , ultrastructure, pharynx spongemetamorphosis, immunoelectron microscopy, neurosynaps neurosecretory cell, lectin, galectin  $\beta$  -galactoside, Xenopus development, placenta

### Outline of Research

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.

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

Matsuda : We define a generalized Mannheim curve in Euclidean space. And we give characterizations of generalized Mannheim curve and examples of generalized Mannheim curve. Inoue: We extend the Graph Theory and define a topological polyhedron which covers a closed surface of genus  $g$ . We give characterizations and examples of the topological polyhedron.

TANAKA: The research theme is the history of early modern science and technology. The topics being studied include Galileo Galilei and Venetian Patent Law enacted in 15th century.

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

## Publications

### Originals

- 8610B001 (K.Nakajima), K.Okuda, S.Matsuo, K.Kiso, S.Kinuya, Garcia Ernest V:Comparison of phase dyssynchrony analysis using gated myocardial perfusion imaging with four software programs: Based on the Japanese Society of Nuclear Medicine working group normal database., Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology, 24:1-11, 2016.
- 8610B002 (H.Yoneyama), K.Nakajima, K.Okuda, S.Matsuo, M.Onoguchi, S.Kinuya, Edenbrandt Lars:Reducing the small-heart effect in pediatric gated myocardial perfusion single-photon emission computed tomography., Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology, 1-11, 2016.
- 8610B003 (Klene Christiane), Jungen Christiane, K.Okuda, Y.Kobayashi, Helberg Annabelle, Mester Janos, Meyer Christian, K.Nakajima:Influence of ROI definition on the heart-to-mediastinum ratio in planar (123I)-MIBG imaging., Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology, 2016.
- 8610B004 (K.Nakajima), K.Okuda, S.Matsuo, D.Agostini:The time has come to standardize 123I-MIBG heart-to-mediastinum ratios including planar and SPECT methods., European Journal of Nuclear Medicine and Molecular Imaging, 43:2;386-388, 2016.
- 8610B005 K.Okuda, K.Nakajima, S.Sugino, Y.Kirihara, S.Matsuo, J.Taki, M.Hashimoto, S.Kinuya:Development and validation of a direct-comparison method for cardiac I-123-metaiodobenzylguanidine washout rates derived from late 3-hour and 4-hour imaging, European Journal of Nuclear Medicine and Molecular Imaging, 43:2;319-325, 2016.
- 8610B006 T.Arikawa, S.Liao, H.Shimada, T.Inoue, H.Sakata-Haga, T.Nakamura, T.Hatta, H.Syoji:Galectin-4 expression is down-regulated in response to autophagy during differentiation of rat trophoblast cells, SCIENTIFIC REPORTS, 6:1-11, 2016.

### Reviews

- 8610C001 (K.Nakajima), N.Matsumoto, T.Kasai, S.Matsuo, K.Kiso, K.Okuda:Normal values and standardization of parameters in nuclear cardiology: Japanese Society of Nuclear Medicine working group database., Annals of nuclear medicine, 30:3;188-199, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 8610I001 K.Okuda, K.Nakajima, C.Kitamura, M.Hori, Y.Kirihara, S.Matsuo, J. Taki, M.hashimoto, S.Kinuya:Multicenter phantom study of characteristics of gamma cameras with LEHR collimators in cardiac 123I-MIBG imaging, SNMMI 2016 Annual Meeting, San Diego, 2016.
- 8610I002 K.Okuda, K.Nakajima, S.Matsuo, C.Kondo, M.Sarai, Y.Shimotsu, M.Onoguchi, T.Konishi, S.Kinuya:Characteristics of normal myocardial perfusion distribution derived from the IQ-SPECT system: A comparison between gender-combined and specific databases, SNMMI 2016 Annual Meeting, San Diego, 2016.
- 8610I003 (J.Taki), H.Shiga, K.Okuda, T.Miwa, A.Inaki, S.Kinuya:Prognostic value of olfactory nerve scintigraphy by per-nasal TI-201 administration in patients with impaired sense of smell., SNMMI 2016 Annual Meeting, San Diego, 2016.
- 8610I004 (K.Nakajima), T.Nakata, S.Matsuo, A Jacobson, K.Okuda, S.Kinuya:Cardiac mortality risk chart in chronic heart failure:multivariate I-123 meta-iodobenzylguanidine risk model incorporating correction of collimator differences., SNMMI 2016 Annual Meeting, San Diego, 2016.
- 8610I005 (K.Nakajima), K.Okuda, S.Matsuo, K.Kiso, S.Kinuya, E.V.Garcia:Phase dyssynchrony parameters in gated myocardial perfusion imaging:Normal ranges and affecting factors in four software programs., SNMMI 2016 Annual Meeting, San Diego, 2016.

- 8610I006 K.Okuda, K.Nakajima, C.Kitamura, M.Hori, Y.Kirihara, S.Matsuo, J.Taki, M.Hashimoto, S.Kinuya:Characteristics of gamma cameras with medium-energy-type collimators in cardiac <sup>123</sup>I-MIBG imaging:A multicenter MIBG phantom study in Japan, EANM 2016 Annual Congress, Barcelona, 2016.
- 8610I007 (E.Poel), DO.Verschure, K.Nakajima, K.Okuda, BLF.van Eck Smit, GA.Somsen, HJ.Verberne:A European phantom study to cross-calibrate myocardial <sup>123</sup>I-mIBG scintigraphy, EANM 2016 Annual Congress, Barcelona, 2016.
- 8610I008 (S.Matsuo), K.Nakajima, K.Okuda, Y.Kunita, S.Kinuya:Comparison of phase dyssynchrony analysis among different software programs in patients with suspected or known coronary artery disease, EANM 2016 Annual Congress, Barcelona, 2016.
- 8610I009 (C.S chmitt), C.Jungen, K.Okuda, Y.Kobayashil, A.Helberg, J.Mester, C.Meyer, K.Nakajima:Need for standardization of ROI definition in planar cardiac I-<sup>123</sup> -MIBG imaging, EANM 2016 Annual Congress, Barcelona, 2016.
- 8610I010 (K.Nakajima), J.Komatsu, M.Yoshita, M.Samuraki, K.Okuda, S.Kinuya, M.Yamada:Differentiation of dementia with Lewy bodies and Alzheimer disease using standardized <sup>123</sup>I-metaiodobenzylguanidine heart-to- mediastinum ratio based on Japanese multi center study, EANM 2016 Annual Congress, Barcelona, 2016.

## 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	KOCHI Munehiro	Interpretationen von Goethes Werken, Begriff von Bildung
Senior Assistant Professor	HONDA Kojiro	Ethics of technology
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
Senior Assistant Professor	TSUDA Ryosuke	Exercise physiology, Pedagogy of physical education
Assistant Professor	MURAKAMI Yusuke	adapted physical activity

### Keywords of Research

exercise prescription, lifestyle-related diseases, improvement of physical fitness, soccer, PE class, , end of the century, culture, the middle Ages, Modern times, Europe, , 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 English-learning, , 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,

### 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

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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.

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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.

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## **Publications**

### **Originals**

- 8620B001 R.Tsuda, H.Suzuki:Results of a soccer teaching program intended to help students improve and acquire knowledge of physical fitness, Japan Journal of Physical Education, Health and Sport Sciences, 61:257-270, 2016.
- 8620B002 (Y.Sawae), Y.Murakami:The motor difficulties of school-aged children with developmental disabilities, Japanese Journal of Clinical Developmental Psychology, 11:21-26, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 8620I001 R.Tsuda:Load characteristics of soccer games in PE classes from the viewpoint of improvement in physical fitness, 21th annual Congress of the European College of Sport Science (ECSS), Vienna, 2016.

**University Hospital**

## 0635 Hepatology

### Faculty

Title	Name	Field of Specialization
Professor	TSUTSUMI Mikihiro	Mechanism of alcoholic liver disease
Professor	TSUCHISHIMA Mutsumi	Anti-viral therapy of viral hepatitis
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

### Keywords of Research

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

### Outline of Research

- 1 Basic and clinical study of digestive disease
  - ① Treatment for esophageal and gastric varices associated with portal hypertension
  - ② 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

### Publications

#### Originals

- 0635B001 K.Tamura, N.Hayashi, J.George, M.Toshikuni, T.Arisawa, J.Hiratake, M.Tsuchishima, M.Tsutsumi:GGsTop, a novel and specific  $\gamma$ -glutamyl transpeptidase inhibitor, protects hepatic ischemia-reperfusion injury in rats., American journal of physiology. Gastrointestinal and liver physiology, 311:2;G305-G312, 2016.



- 0635B002 N.Toshikuni, Y.Takuma, M.Tsutsumi:Management of gastroesophageal varices in cirrhotic patients: current status and future directions., *Annals of hepatology*, 15:3;314-325, 2016.
- 0635B003 N.Toshikuni, Y.Matsue,T.Minato, N.Hayashi, M.Tsutsumi:Association between transforming growth factor- $\beta$  1-509 C>T variants and hepatocellular carcinoma susceptibility: a meta-analysis, *Neoplasma*, 63:6;961-966, 2016.
- 0635B004 (S.Sueyoshi), S.Sawai, M.Satoh, M.Seimiya, K.Sogawa, A.Fukumura, M.Tsutsumi, F.Nomura:Fractionation of gamma-glutamyltransferase in patients with nonalcoholic fatty liver disease and alcoholic liver disease, *World journal of hepatology*, 8:36;1610-1616, 2016.
- 0635B005 (N.Kawada), H.Uehara, S.Nagata, M.Tsuchishima, M.Tsutsumi, Y.Tomita:Mural nodule of 10 mm or larger as predictor of malignancy for intraductal papillary mucinous neoplasm of the pancreas: Pathological and radiological evaluations, *Pancreatology*, 16:3;441-448, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 0635I001 N.Toshikuni, Y.Matsue, T.Minato, N.Hayashi, M.Tsuchishima, M.Tsutsumi:Association between transforming growth factor- $\beta$  1-509 C>T variants and hepatocellular carcinoma susceptibility: A meta-analysis, *APDW2016*, Kobe, 2016.

## 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	ISHIKAWA Kaori	Preventive medicine
Assistant Professor	ISHIDA Ryoko	Ischemic heart disease, Coronary intervention

### 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 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5;699-703, 2016.
- 0675B002 (T.Koyama), K.Yoshita, M.Sakurai, K.Miura, Y.Naruse, N.Okuda, A.Okayama, J.Stamler, H.Ueshima, H.Nakagawa:Relationship of Consumption of Meals Including Grain, Fish and Meat, and Vegetable Dishes to the Prevention of Nutrient Deficiency: The INTERMAP Toyama Study, *Journal of Nutritional Science and Vitaminology*, 62:2;101-107, 2016.
- 0675B003 M.Sakurai, J.Kobayashi, Y.Takeda, S.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi, H.Nakagawa:Sex Differences in Associations Among Obesity, Metabolic Abnormalities, and Chronic Kidney Disease in Japanese Men and Women, *Journal of Epidemiology*, 26:8;440-446, 2016.
- 0675B004 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa:Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men, *Journal of diabetes investigation*, 7:3;343-351, 2016.
- 0675B005 (Y.Isobe), M.Sakurai, Y.Kita, Y.Takeshita, H.Misu, S.Kaneko, T.Takamura:Fat-free mass and calf circumference as body composition indices to determine non-exercise activity thermogenesis in patients with diabetes, *Journal of Diabetes Investigation*, 7:3;352-358, 2016.

- 0675B006 (H.Nakashima), K.Homma, M.Yamazaki, M.Ishizaki, K.Mawatari:Database analysis of acidic proteins from halophilic halophilic species and their corresponding basic proteins from non-halophilic species, *British Biotechnology Journal*, 14:2;1-12, 2016.
- 0675B007 (D.Van Tung), T.Kido, S.Honma, HD.Manh, DD.Nhu, R.Okamoto, S.Maruzeni, M.Nishijo, H.Nakagawa, PT.Ngoc, N.Van Toan, NN.Hung, NH.Minh, K.Son Le:Low birth weight of Vietnamese infants is related to their mother's dioxin and glucocorticoid levels, *Environmental science and pollution research international*, 23:11;10922-10929, 2016.
- 0675B008 (XL.Sun), T.Kido, S.Honma, R.Okamoto, HD.Manh, S.Maruzeni, M.Nishijo, H.Nakagawa, T.Nakano, E.Koh, T.Takasuga, DD.Nhu, NN.Hung, K.Son Le:Influence of dioxin exposure upon levels of prostate-specific antigen and steroid hormones in Vietnamese men, *Environmental science and pollution research international*, 23:8;7807-7813, 2016.
- 0675B009 PT.Tai, M.Nishijo, TN.Nghi, H.Nakagawa. H.Van Luong, TH.Anh, H.Nishijo:Effects of Perinatal Dioxin Exposure on Development of Children during the First 3 Years of Life., *The Journal of pediatrics*, 175:159-166, 2016.
- 0675B010 (K.Nakamura), M.Sakurai, Y.Morikawa, S.Nagasawa, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa:Serum Ferritin, Insulin Resistance, and  $\beta$ -cell Dysfunction: A Prospective Study in Normoglycemic Japanese Men, *Experimental and clinical endocrinology & diabetes : official journal, German Society of Endocrinology [and] German Diabetes Association*, 25:1;12-20, 2016.
- 0675B011 Tran Nghi Ngoc, Pham Tai The, K.Ozawa, M.Nishijo, Nguyen Anh Thi Nguyet; Tran Tuong Quy, Hoang Luong Van, Tran Anh Hai, Phan Vu Huy Anh, A.Nakai, Y.Nishino, H.Nishijo:Impacts of Perinatal Dioxin Exposure on Motor Coordination and Higher Cognitive Development in Vietnamese Preschool Children: A Five-Year Follow-Up., *PLOS ONE*, 11:1;e0147655, 2016.
- 0675B012 (S.Virani), KM.Rentschler, M.Nishijo, W.Ruangyuttikarn, W.Swaddiwudhipong, N.Basu, LS.Rozek:DNA methylation is differentially associated with environmental cadmium exposure based on sex and smoking status, *Chemosphere*, 145:284-290, 2016.
- 0675B013 C.Chen, P.Xun, M.Nishijo, S.Carter, K.He:Cadmium exposure and risk of prostate cancer: a meta-analysis of cohort and case-control studies among the general and occupational populations, *Scientific reports*, 6:25814, 2016.
- 0675B014 (K.Sai), K.Kajinami, H.Akao, M.Iwadore, R.Sato-Ishida, Y.Kawai, K.Takeda, T.Tanimoto, T.Yamano, T.Akasaka, T.Ishida, K.Hirata, K.Saku, S.Yagi, T.Soeki, M.Sata, M.Ueno, S.Miyazaki, A.Shiraki, J.Oyama, K.Node, K.Sugamura, H.Ogawa, K.Kurose, K.Maekawa, Y.Matsuzawa, T.Imatoh, R.Hasegawa, Y.Saito:A possible role for HLA-DRB1\*04:06 in statin-related myopathy in Japanese patients, *Drug metabolism and pharmacokinetics*, 31:6;467-470, 2016.
- 0675B015 Y.Hamazaki, Y.Morikawa, S.Morimoto, H.Nakagawa:Difference in the impact of homebound status on functional decline between independent older men and women: A 2 year follow-up study., *Japan journal of nursing science*, 13:2;265-272, 2016.

## Reviews

- 0675C001 M.Sakurai:Effect of artificial sweeteners on glucose metabolism, *Journal of the Japan Diabetes Society*, 59:1;33-35, 2016.
- 0675C002 (C.Chen), P.Xun, M.Nishijo, K.He:Cadmium exposure and risk of lung cancer: a meta-analysis of cohort and case-control studies among general and occupational populations, *Journal of exposure science & environmental epidemiology*, 26:5;437-444, 2016.

## Presentations at Conference

### International Conference (Key Note Lecture)

- 0675G001 M.Nishijo, PN.Nghi, PT.Tai, H.Nishijo, Y.Nishino:Role of AHR signaling in effects on neurodevelopment in Vietnamese children perinatally exposed to Agent Orange, *AHR2016 The aryl hydrocarbon Receptor as a Central Mediator of Health and Disease*, Rochester, 2016.

#### International Conference (Presentations)

- 0675I001 Y.Matsuda, R.Hashimoto, S.Takemoto, M.Ishizaki, Y.Kawasaki:A Dementia Screening Investigation for Inhabitants of Rural Areas in Japan, The 2016 Alzheimer's Disease Congress, London, 2016.
- 0675I002 M.Nishijo, PN.Thao, PT.Tai, T.Anh, H.Boda, S.Nagasawa, Y.Nishino, H.Nishijo:Neurotoxic effects of perinatal dioxin exposure on children in Vietnam:Two birth cohort studiies in hot spots of dioxin contamination from Agent Orange, PPToxV, Kitakyusyu, 2016.
- 0675I003 PN.Thao, M.Nishijo, PT.Tai, H.Nishijo, S.Nagasawa, Y.Nishino:A case control study of neurotoxic effects of perinatal dioxin exposure on children of 2years of age in Vietnam, PPToxV, Kitakyusyu, 2016.

# Medical Research Institute

## 7100 Department of Life Sciences

### Faculty

Title	Name	Field of Specialization
Professor	TAKEGAMI Tsutomu	Molecular mechanism of flavivirus replication, interaction with host cells and viral carcinogenesis
Professor	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Professor	IWAWAKI Takao	Cellular stress response
Associate Professor	OTA Takahide	Molecular analysis of the mechanism of cancer metastasis
Associate Professor	TASAKI Takafumi	Protein regulation by the post-translational modifications and its underlying molecular mechanisms
Senior Assistant Professor	OHTSUKA Satoshi	Stem Cell Biology
Senior Assistant Professor	MIYAGOSHI Minoru	Cell biology
Senior Assistant Professor	TANIGUCHI Makoto	Molecular and Cellular Biology, Lipid Biochemistry
Assistant Professor	TATSUNO Takanori	Molecular biology

### Keywords of Research

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

### Outline of Research

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

### Publications

#### Originals

- 7100B001 (T.Ohba), M.Ishisaka, S.Tsuji, K.Tsuruma, M.Shimazawa, K.Kubo, N.Umigai, T.Iwawaki, H.Hara: Crocetin protects ultraviolet A-induced oxidative stress and cell death in skin in vitro and in vivo., *European journal of pharmacology*, 789:244-253, 2016.

- 7100B002 (M. Fujiwara), M. Okamoto, M. Hori, H. Suga, Hi. Jikihara, Y. Sugihara, F. Shimamoto, T. Mori, K. Nakaoji, K. Hamada, T. Ota, R. Wiedemuth, A. Temme, M. Tatsuka: Radiation-Induced RhoGDI  $\beta$  Cleavage Leads to Perturbation of Cell Polarity: A Possible Link to Cancer Spreading., *Journal of cellular physiology*, 231:11;2493-2505, 2016.
- 7100B003 (K.Tazaki), F.Tazaki, M.Okuno, T.Takehara, Y.Ishigaki, H.Nakagawa: Formation of Pisoliths at Hot Springs in Saturnia, Toscana, Italy, *The Journal of the Geological Society of Japan*, 122:2;45-60, 2016.
- 7100B004 (Y.Omata), Tharasegaran Suganya, Lim Young-Mi, Y.Yamasaki, Y.Ishigaki, T.Tatsuno, M.Maruyama, L.Tsuda: Expression of amyloid- $\beta$  in mouse cochlear hair cells causes an early-onset auditory defect in high-frequency sound perception., *Aging*(Albany NY), 8:3;1-14, 2016.
- 7100B005 T.Tatsuno, Y.Nakamura, Ma Shaofu, N.Tomosugi, Y.Ishigaki: Nonsense-mediated mRNA decay factor Upf2 exists in both the nucleoplasm and the cytoplasm., *Molecular medicine reports*, 14:1;655-660, 2016.
- 7100B006 (H.Niwa), A.Nakamura, M.Urata, M.Shirae-Kurabayashi, S.Kuraku, Russell Steven, S.Ohtsuka: The evolutionally-conserved function of group B1 Sox family members confers the unique role of Sox2 in mouse ES cells, *BMC evolutionary biology*, 16:1-12, 2016.
- 7100B007 (S.Nukuzuma), K.Nakamichi, M.Kameoka, S.Sugiura, C.Nukuzuma, T.Tasaki, T.Takegami: Suppressive effect of topoisomerase inhibitors on JC polyomavirus propagation in human neuroblastoma cells, *Microbiology and Immunology*, 60:4;253-260, 2016.
- 7100B008 (M.Wu), M.Takemoto, M.Taniguchi, T.Takumi, T.Okazaki, W.J.Song: Regulation of membrane KCNQ1/KCNE1 channel density by sphingomyelin synthase 1, *American Journal of Physiology Cell Physiology*, 311:C15-C23, 2016.
- 7100B009 M.Taniguchi, T.Tasaki, H.Ninomiya, Y.Ueda, K.Kuremoto, S.Mitsutake, Y.Igarashi, T.Okazaki, T.Takegami: Sphingomyelin generated by sphingomyelin synthase 1 is involved in attachment and infection with Japanese encephalitis virus, *Scientific Reports*, 6:37829, 2016.
- 7100B010 J.Zou, M.Wang, O.Uchiumi, Y.Shui, Y.Ishigaki, X.Liu, N.Tajima, T.Akai, H.Iizuka, N.Kato: Learning impairment by minimal cortical injury in a mouse model of Alzheimer's disease., *Brain research*, 1637:56-63, 2016.
- 7100B011 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura: Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1-2;155-164, 2016.
- 7100B012 (K.Higashi), T.Yamagishi, Y.Ueda, Y.Ishigaki, M.Shimasaki, Y.Nakamura, M.Oguchi, T.Takegami, M.Sagawa, H.Tonami: Correlation of HIF-1  $\alpha$  /HIF-2  $\alpha$  expression with FDG uptake in lung adenocarcinoma., *Annals of nuclear medicine*, 30:10;708-715, 2016.
- 7100B013 M.Murakami, T.Tasaki, S.Nukuzuma, H.Minato, T.Nojima, Y.Ishigaki, T.Takegami: Japanese encephalitis virus replication and inhibitory effect of shRNA in mice, *Advances in Microbiology*, 6:6;462-470, 2016.
- 7100B014 S.P.Srivastava, S.Shi, M.Kanasaki, T.Nagai, M.Kitada, J.He, Y.Nakamura, Y.Ishigaki, K.Kanasaki, D.Koya: Effect of Antifibrotic MicroRNAs Crosstalk on the Action of N-acetyl-seryl-aspartyl-lysyl-proline in Diabetes-related Kidney Fibrosis., *Scientific reports*, 6:29884, 2016.
- 7100B015 Y.Masaki, H.Kawabata, K.Takai, M.Kojima, N.Tsukamoto, Y.Ishigaki, N.Kurose, M.Ide, J.Murakami, K.Nara, H.Yamamoto, Y.Ozawa, H.Takahashi, K.Miura, T.Miyauchi, S.Yoshida, A.Momoi, N.Awano, S.Ikushima, Y.Ohta, N.Furuta, S.Fujimoto, H.Kawanami, T.Sakai, T.Kawanami, Y.Fujita, T.Fukushima, S.Nakamura, T.Kinoshita, S.Aoki: Proposed diagnostic criteria, disease severity classification and treatment strategy for TAFRO syndrome, 2015 version., *International journal of hematology*, 103:6;686-692, 2016.
- 7100B016 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki: Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder; TAFRO syndrome., *The Japanese journal of clinical hematology*, 57:10;2029-2037, 2016.
- 7100B017 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki, Japanese TAFRO syndrome research team: Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder; TAFRO syndrome, *The Japanese Journal of Clinical Hematology*, 57:10;195-203, 2016.

### Reviews

- 7100C001 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto: Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, *Suizo*, 31:1;76-84, 2016.

### Short Communications

- 7100E001 (T.Kiba), Y.Ishigaki: Ventromedial hypothalamic lesions Down-Regulate the Expression of Adora1 Genes in rat Pancreatic islets, *LETTERS TO THE EDITOR*, 45:1;e1-e2, 2016.
- 7100E002 T.Tasaki, S. Nukuzuma, T. Takegami: Impaired Japanese encephalitis virus replication in p62/SQSTM1 deficient mouse embryonic fibroblasts, *Microbiology and Immunology*, 60:10;708-711, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 7100I001 D.Nakai, S.Inoue, Y.Nakazawa, N.Morita, K.Miyazawa, Y.Ishigaki: Febuxostat reduces calcium oxalate monohydrate crystal-induced upregulation of MCP-1 in MDCK cells, 13th International Symposium on Urolithiasis, Makuhari, 2016.
- 7100I002 (L.Liu), M.Zhao, X.Jin, K.Yang, G.Ney, JD.Valle, T.Iwawaki, Q.Li: N-rasG12D/+ mediated dysregulation of IRE1alpha-Xbp1 UPR pathway promotes pre-leukemic hematopoietic stem cell expansion, The 58th Annual Meeting of the American Society of Hematology, San Diego, 2016.



## 7200 Department of Advanced Medicine

### Faculty

Title	Name	Field of Specialization
Professor	TOMOSUGI Naohisa	Clinical Proteomics
Professor(Additional Post)	OKAZAKI Toshiro	Hematology and Immunology, Hematology/Oncology
Professor	TAKEUCHI Masayoshi	AGEs, Life style-related disease
Professor(Additional Post)	MOTOO Yoshiharu	Clinical Oncology, Gastroenterology, Cancer Cell Biology
Associate Professor	SHIMASAKI Takeo	Medical Oncology, Gastroenterology, Bioinformatics
Associate Professor	NIIDA Yo	Genetic disease, Genetic diagnosis
Assistant Professor	UEDA Tadashi	cardiac muscle, lung, cell biology, cytochemistry
Assistant Professor	TAKATA Takanobu	Development of the method for diagnosis and therapy of the intractable disease by 'Proteome Analysis'
Assistant Professor	SAKASAI Akiko	AGEs, Cell Biology
Assistant Professor	OZAKI Mamoru	cytogenetics, Molecular cytogenetics

### 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 (T.Munesue), H.Nakamura, M.Kikuchi, Y.Miura, N.Takeuchi, T.Anme, E.Nanba, K.Adachi, K.Tsubouchi, Y.Sai, K.Miyamoto, S.Horike, S.Yokoyama, H.Nakatani, Y.Niida, H.Kosaka, Y.Minabe, H.Higashida:Oxytocin for male subjects with autism spectrum disorder and comorbid intellectual disabilities: A randomized pilot study, *Frontiers in psychiatry*, 7:1-11, 2016.
- 7200B002 Y.Niida, H.Sato, M.Ozaki, M.Itoh, K.Ikeno, E.Takase:Angelman Syndrome Caused by Chromosomal Rearrangements: A Case Report of 46,XX,+der(13)t(13;15)(q14.1;q12)mat,-15 with an Atypical Phenotype and Review of the Literature, *Cytogenetic and genome research*, 149:247-257, 2016.

- 7200B003 (M.Shimomura), J.Oyama, M.Takeuchi, Y.Shibata, Y.Yamamoto, T.Kawasaki, H.Komoda, K.Kodama, M.Sakuma, S.Toyoda, Y.Inoue, Mine Daigo, M.Natsuaki, A.Komatsu, Y.Hikichi, S.Yamagishi, T.Inoue, K.Node:Acute effects of statin on reduction of angiotensin-like 2 and glyceraldehyde-derived advanced glycation end-products levels in patients with acute myocardial infarction: a message from SAMIT (Statin for Acute Myocardial Infarction Trial)., *Heart and vessels*, 31:10;1583–1589, 2016.
- 7200B004 (K.Kitatani), T.Usui, SK.Sriraman, M.Toyoshima, M.Ishibashi, S.Shigeta, S.Nagase, M.Sakamoto, H.Ogiso, T.Okazaki, YA.Hannun, VP.Torchilin, N.Yaegashi:Ceramide limits phosphatidylinositol-3-kinase C2  $\beta$ -controlled cell motility in ovarian cancer: potential of ceramide as a metastasis-suppressor lipid, *Oncogene*, 35:21;2801–2812, 2016.
- 7200B005 (H.Watanabe), K.Okahara, Y.Naito-Matsui, M.Abe, S.Go, J.Inokuchi, T.Okazaki, T.Kobayashi, Y.Kozutsumi, S.Oka, H.Takematsu:Psychosine-triggered endomitosis is modulated by membrane sphingolipids through regulation of phosphoinositide 4,5-bisphosphate production at the cleavage furrow., *Molecular biology of the cell*, 27:13;2037–2050, 2016.
- 7200B006 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1-2;155–164, 2016.
- 7200B007 M.Itoh, Y.Kittaka, Y.Niida, Y.Saikawa:A novel frameshift mutation in the TRPS1 gene caused Tricho-rhino-phalangeal syndrome type I and III in a Japanese family, *Clinical pediatric endocrinology : case reports and clinical investigations : official journal of the Japanese Society for Pediatric Endocrinology*, 25:3;115–118, 2016.
- 7200B008 T.Tatsuno, Y.Nakamura, Ma Shaofu, N.Tomosugi, Y.Ishigaki:Nonsense-mediated mRNA decay factor Upf2 exists in both the nucleoplasm and the cytoplasm., *Molecular medicine reports*, 14:1;655–660, 2016.
- 7200B009 Y.Fujita, T.Fujii, H.Shimizu, T.Sato, T.Nakamura, H.Iwao, A.Nakajima, M.Miki, T.Sakai, T.Kawanami, M.Tanaka, Y.Masaki, T.Fukushima, T.Okazaki, H.Umehara, T.Mimori:Isolation of vascular smooth muscle antigen-reactive CD4(+)  $\alpha$   $\beta$  Th1 clones that induce pulmonary vasculitis in MRL/Mp-Fas(+/-) mice., *Cellular immunology*, 303:50–54, 2016.
- 7200B010 H.Yoshizaki, H.Ogiso, T.Okazaki, E.Kiyokawa:Comparative lipid analysis in the normal and cancerous organoids of MDCK cells., *Journal of Biochemistry*, 159:6;573–584, 2016.
- 7200B011 (M.Wu), M.Takemoto, M.Taniguchi, T.Takumi, T.Okazaki, W.J.Song:Regulation of membrane KCNQ1/KCNE1 channel density by sphingomyelin synthase 1, *American Journal of Physiology Cell Physiology*, 311:C15–C23, 2016.
- 7200B012 M.Taniguchi, T.Tasaki, H.Ninomiya, Y.Ueda, K.Kuremoto, S.Mitsutake, Y.Igarashi, T.Okazaki, T.Takegami:Sphingomyelin generated by sphingomyelin synthase 1 is involved in attachment and infection with Japanese encephalitis virus, *Scientific Reports*, 6:37829, 2016.
- 7200B013 (LN.van der Vorm), JC.Hendriks, CM.Laarackers, S.Klaver, AE.Armitage, A.Bamberg, AJ.Geurts-Moespot, D.Girelli, M.Herkert, O.Itkonen, RJ.Konrad, N.Tomosugi, M.Westerman, SS.Bansal, N.Campostrini, H.Drakesmith, M.Fillet, G.Olbina, SR.Pasricha, KR.Pitts, JHSloan, F.Tagliaro, CW.Weykamp, DW.Swinkels: Toward Worldwide Hecpidin Assay Harmonization: Identification of a Commutable Secondary Reference Material, *Clinical chemistry*, 62;993–1001,2016.
- 7200B014 (H.Honda), Y.Kobayashi, S.Onuma, K.Shibagaki, T.Yuza, K.Hirao, T. Yamamoto, N.Tomosugi, T.Shibata: Associations among Erythroferrone and Biomarkers of Erythropoiesis and Iron Metabolism, and Treatment with Long-Term Erythropoiesis-Stimulating Agents in Patients on Hemodialysis, *PLoS One*, 11;e0151601,2016.

## Reviews

- 7200C001 M.Takeuchi:Serum Levels of Toxic AGEs (TAGE) May Be a Promising Novel Biomarker for the Onset/Progression of Lifestyle-Related Diseases, *Diagnostics*, 6:2;1–22, 2016.
- 7200C002 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto:Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, *Suizo*, 31:1;76–84, 2016.

- 7200C003 (T.Domoto), Pyko Ilya V, T.Furuta, K.Miyashita, M.Uehara, T.Shimasaki, M.Nakada, T.Minamoto:Glycogen synthase kinase-3  $\beta$  is a pivotal mediator of cancer invasion and resistance to therapy., *Cancer science*, 107:10;1363-1372, 2016.
- 7200C004 (D.J.Klionsky), D.Koya, T.Okazaki et al.:Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)., *Autophagy*, 12:1;1-222, 2016.
- 7200C005 Y.Motoo:How long should cancer chemotherapy be continued?—Form the viewpoint of duration of efficacy of molecular targeting drugs, *Japanese Journal of Cancer and Chemotherapy*, 43:7;819-823, 2016.

#### Case Reports

- 7200D001 Y.Niida, A.Yokoi, M.Kuroda, Y.Mitani, H.Nakagawa, M.Ozaki:A girl with infantile neuronal ceroid lipofuscinosis caused by novel PPT1 mutation and paternal uniparental isodisomy of chromosome 1., *Brain & development*, 38:7;674-677, 2016.
- 7200D002 Y.Niida, Y.Mitani, M.Kuroda, A.Yokoi, H.Nakagawa, A.Kato:A Say-Barber-Biesecker-Young-Simpson variant of Ohdo syndrome with a KAT6B 10-base pair palindromic duplication: a recurrent mutation causing a severe phenotype mixed with genitopatellar syndrome, *Congenital anomalies*, 1:1-9, 2016.
- 7200D003 Y.Yasui, M.Kohno, S.Nishida, T.Shironomae, M.Satomi, T.Kuwahara, S.Takahashi, Y.Niida:Cartilage-hair hypoplasia associated with isolated hypoganglionosis: A case report., *Congenital anomalies*, 52:32-34, 2016.
- 7200D004 (N.Yamakawa), K.Oe, N.Yukawa, K.Murakami, R.Nakashima, Y.Imura, H.Yoshifuji, K.Ohmura, Y.Miura, N.Tomosugi, H.Kawabata, A.Takaori-Kondo, T.Mimori:

#### Short Communications

- 7200E001 Y.Niida, A.Yokoi, M.Kuroda, Y.Mitani, H.Nakagawa, M.Ozaki:Reply to: Uniparental disomy of chromosome 1 unmasks recessive mutations of PPT1 in a boy with neuronal ceroid lipofuscinosis type 1, *Brain & development*, 39:2;184-185, 2016.

### Presentations at Conference

#### International Conference (Presentations)

- 7200I001 Y.Niida, M.Ozaki, A.Wakisaka, T.Tsuji, M.Kuroda, Y.Mitani, A.Yokoi:Mutational Analysis of TSC1 and TSC2 in Japanese Patients with Tuberous Sclerosis Complex Revealed Higher Incidence of TSC1 Patients than Previously Reported and unique TSC1 mutational pool, 13th International Congress of Human Genetics, Kyoto, 2016.
- 7200I002 M.Ozaki, Y.Niida, E.Takase, Y.Ito, H.Sato, T.Ikeda:Visualization of Cytogenetic Testing in Clinical Genetics, 13th International Congress of Human Genetics, Kyoto, 2016.
- 7200I003 T.Arisawa, M.Ota, T.Tahara, J.Wu, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:A polymorphisms of DNMT3A gene is closely associated with the severity of gastric mucosal atrophy, APDW2016, Kobe, 2016.
- 7200I004 J.Wu, T.Arisawa, T.Tahara, M.Ota, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:The association between genetic polymorphisms of DNMT3A(rs6733868 and rs13428812)and the susceptibility to the gastric cancer in japan, APDW2016, Kobe, 2016.

## 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 (D.Van Tung), T.Kido, S.Honma, HD.Manh, DD.Nhu, R.Okamoto, S.Maruzeni, M.Nishijo, H.Nakagawa, PT.Ngoc, N.Van Toan, NN.Hung, NH.Minh, K.Son Le:Low birth weight of Vietnamese infants is related to their mother's dioxin and glucocorticoid levels, *Environmental science and pollution research international*, 23:11;10922-10929, 2016.
- 7310B002 (XL.Sun), T.Kido, S.Honma, R.Okamoto, HD.Manh, S.Maruzeni, M.Nishijo, H.Nakagawa, T.Nakano, E.Koh, T.Takasuga, DD.Nhu, NN.Hung, K.Son Le:Influence of dioxin exposure upon levels of prostate-specific antigen and steroid hormones in Vietnamese men, *Environmental science and pollution research international*, 23:8;7807-7813, 2016.
- 7310B003 PT.Tai, M.Nishijo, TN.Nghi, H.Nakagawa. H.Van Luong, TH.Anh, H.Nishijo:Effects of Perinatal Dioxin Exposure on Development of Children during the First 3 Years of Life., *The Journal of pediatrics*, 175:159-166, 2016.
- 7310B004 Tran Nghi Ngoc, Pham Tai The, K.Ozawa, M.Nishijo, Nguyen Anh Thi Nguyet; Tran Tuong Quy, Hoang Luong Van, Tran Anh Hai, Phan Vu Huy Anh, A.Nakai, Y.Nishino, H.Nishijo:Impacts of Perinatal Dioxin Exposure on Motor Coordination and Higher Cognitive Development in Vietnamese Preschool Children: A Five-Year Follow-Up., *PLOS ONE*, 11:1:e0147655, 2016.
- 7310B005 (S.Virani), KM.Rentschler, M.Nishijo, W.Ruangyuttikarn, W.Swaddiwudhipong, N.Basu, LS.Rozek:DNA methylation is differentially associated with environmental cadmium exposure based on sex and smoking status, *Chemosphere*, 145:284-290, 2016.
- 7310B006 (C.Chen), P.Xun, M.Nishijo, S.Carter, K.He:Cadmium exposure and risk of prostate cancer: a meta-analysis of cohort and case-control studies among the general and occupational populations, *Scientific reports*, 6:25814, 2016.
- 7310B007 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1-2;155-164, 2016.
- 7310B008 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5;699-703, 2016.

## Reviews

- 7310C001 (C.Chen), P.Xun, M.Nishijo, K.He: Cadmium exposure and risk of lung cancer: a meta-analysis of cohort and case-control studies among general and occupational populations, *Journal of exposure science & environmental epidemiology*, 26:5;437-444, 2016.

## Presentations at Conference

### International Conference (Key Note Lecture)

- 7310G001 M.Nishijo, PN.Nghi, PT.Tai, H.Nishijo, Y.Nishino: Role of AHR signaling in effects on neurodevelopment in Vietnamese children perinatally exposed to Agent Orange, AHR2016 The aryl hydrocarbon Receptor as a Central Mediator of Health and Disease, Rochester, 2016.

### International Conference (Presentations)

- 7310I001 M.Nishijo, PN.Thao, PT.Tai, T.Anh, H.Boda, S.Nagasawa, Y.Nishino, H.Nishijo: Neurotoxic effects of perinatal dioxin exposure on children in Vietnam: Two birth cohort studies in hot spots of dioxin contamination from Agent Orange, PPTox V, Kitakyusyu, 2016.
- 7310I002 PN.Thao, M.Nishijo, PT.Tai, H.Nishijo, S.Nagasawa, Y.Nishino: A case control study of neurotoxic effects of perinatal dioxin exposure on children of 2 years of age in Vietnam, PPTox V, Kitakyusyu, 2016.

## 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
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 M.Fukuda, H.Sasaki:In vivo measurement of human corneal impedance value, *Cornea*, 35:1305-1307, 2016.
- 7320B002 M.Fukuda, N.Takeda, S.Shibata, N.Shibata, T.Shibata, K.Sugiyama, H.Sasaki:In vitro and in vivo corneal effects of latanoprost combined with brimonidine, timolol, dorzolamide, or brinzolamide, *European Journal of Pharmacology*, 787:43-46, 2016.
- 7320B003 T.Shibata, Y.Takahashi, A.Okamoto, H.Sasaki, K.Kitagawa:An adult case of fulminant mumps keratitis with positive viral RNA in aqueous humor detected by RT-PCR, *Cornea*, 35:569-571, 2016.
- 7320B004 S.Shibata, N.Shibata, T.Shibata, H.Sasaki, DP.Singh, E.Kubo:The role of Prdx6 in the protection of cell of the crystalline lens from oxidative stress induced by UV exposure, *Japanese Journal of Ophthalmology*, 60:408-418, 2016.
- 7320B005 T.Shibata, S.Shibata, N.Shibata, E.Kiyokawa, H.Sasaki, DP.Singh, E.Kubo:Propolis, a constituent of honey, inhibits the development of sugar cataracts and high-glucose-induced reactive oxygen species in rat lenses, *Journal of Ophthalmology*, 2016;1917093, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 7320I001 (Y.Suzuki), M.Kojima, J.Chakaroathai, K.Sasaki, M.Taki, H.Sasaki:Investigation on corneal epithelium damage thresholds by CEM43°C criterion due to millimeter-wave electromagnetic field exposure, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I002 S.Shibata, N.Shibata, T.Shibata, N.Tanimura, H.Sasaki, E.Kubo:Age-related cataract and expression level of decorin in human eye: association with opacity severity, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I003 H.Sasaki, M.Kita, H.Miyashita, N.Tanimura, H.Osada, T.Shibata, Y.Takahashi, S.Shibata, E.Kubo:Influence of age on visual function of eyes with cataract, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I004 E.Kubo, T.Shibata, S.Shibata, H.Sasaki, E.Kiyokawa, M.Ikawa, DP.Singh:Knock-down of Tropomyosin 2 created by CRISPR-CAS9 in mouse induces age-related-cataract, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I005 N.Tanimura, E.Shibuya, M.Kita, A.Okamoto, N.Mita, N.Hatsusaka, T.Shibata, S.Shibata, E.Kubo, H.Sasaki:Visual function of eyes with waterclefts, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I006 H.Miyashita, H.Osada, E.Shibuya, N.Tanimura, T.Shibata, S.Shibata, K.Sasaki, E.Kubo, H.Sasaki:Evaluation of waterclefts by anterior segment OCT, The Association for Research in Vision and Ophthalmology 2016, Seattle, 2016.
- 7320I007 H.Sasaki, E.Shibuya, M.Sasaki, M.Kita, H.Osada, N.Shibata, E.Kubo:Posterior capsular wrinkles in eyes with 1-piece intraocular lens, ESCRS Annual Congress 2016, Copenhagen, 2016.

## 7340 Division of Anticipatory Molecular Food Science and Technology

### Faculty

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

### Publications

#### Originals

- 7340B001 S.Shi, K.Kanasaki, D.Koya:Linagliptin but not sitagliptin inhibited transforming growth factor- $\beta$  2-induced endothelial DPP-4 activity and the endothelial-mesenchymal transition., *Biochemical and biophysical research communications*, 471:1;184-190, 2016.
- 7340B002 (A.Tagawa), M.Yasuda, S.Kume, K.Yamahara, J.Nakazawa, M.Chin-Kanasaki, H.Araki, S.Araki, D.Koya, K.Asanuma, EH.Kim, M.Haneda, N.Kajiwara, K.Hayashi, H.Ohashi, S.Ugi, H.Maegawa, T.Uzu:Impaired podocyte autophagy exacerbates proteinuria in diabetic nephropathy., *Diabetes*, 65:3;755-767, 2016.
- 7340B003 K.Nitta, Shi Sen, T.Nagai, M.Kanasaki, M.Kitada, Srivastava Swayam Prakash, M.Haneda, K.Kanasaki, D.Koya:Oral administration of N-acetyl-seryl-aspartyl-lysyl-proline ameliorates kidney disease in both type 1 and type 2 diabetic mice via a therapeutic regimen., *BioMed research international*, 2016:9172157, 2016.
- 7340B004 M.Kitada, Y.Ogura, T.Suzuki, S.Sen, S.M.Lee, K.Kanasaki, S.Kume, D.Koya:A very-low-protein diet ameliorates advanced diabetic nephropathy through autophagy induction by suppression of the mTORC1 pathway in Wistar fatty rats, an animal model of type 2 diabetes and obesity., *Diabetologia*, 59:6;1307-1317, 2016.
- 7340B005 S.P.Srivastava, S.Shi, M.Kanasaki, T.Nagai, M.Kitada, J.He, Y.Nakamura, Y.Ishigaki, K.Kanasaki, D.Koya:Effect of antifibrotic microRNAs crosstalk on the action of N-acetyl-seryl-aspartyl-lysyl-proline in diabetes-related kidney fibrosis., *Scientific reports*, 6:29884, 2016.
- 7340B006 (K.Ueshima), H.Itoh, N.Kanazawa, I.Komuro, R.Nagai, M.Takeuchi, T.Yamazaki, EMPATHY study group, D.Koya, A.Nakagawa, M.Nishizawa, M.Kitada, S.Tsuda, K.Konishi:Rationale and design of the standard versus intensive statin therapy for hypercholesterolemic patients with diabetic retinopathy (EMPATHY) study: a randomized controlled trial, 23:8;976-990, 2016.
- 7340B007 (S.Kume), M.Kondo, S.Maeda, Y.Nishio, T.Yanagimachi, Y.Fujita, M.Haneda, K.Kondo, A.Sekine, S.Araki, H.Araki, M.Chin-Kanasaki, S.Ugi, D.Koya, S.Kitahara, K.Maeda, A.Kashiwagi, T.Uzu, H.Maegawa:Hypothalamic AMP-activated protein kinase regulates biphasic insulin secretion from pancreatic  $\beta$  cells during fasting and in type 2 diabetes, *EBioMedicine*, 13:168-180, 2016.
- 7340B008 (S.Kuwagata), S.Kume, M.Chin-Kanasaki, H.Araki, S.Araki, J.Nakazawa, T.Sugaya, D.Koya, M.Haneda, H.Maegawa, T.Uzu:MicroRNA148b-3p inhibits mTORC1-dependent apoptosis in diabetes by repressing TNFR2 in proximal tubular cells., *Kidney international*, 90:6;1211-1225, 2016.
- 7340B009 (T.Uzu), S.Araki, A.Kashiwagi, M.Haneda, D.Koya, H.Yokoyama, Y.Kida, M.Ikebuchi, T.Nakamura, M.Nishimura, N.Takahara, T.Obata, N.Omichi, K.Sakamoto, R.Shingu, H.Taki, Y.Nagai, H.Tokuda, M.Kitada, M.Misawa, A.Nishiyama, H.Kobori, H.Maegawa, The Shiga Committee for Preventing Diabetic Nephropathy:Comparative effects of direct renin inhibitor and angiotensin receptor blocker on albuminuria in hypertensive patients with type 2 diabetes. A randomized controlled trial, *PLoS ONE*, 11:e0164936, 2016.



## Reviews

- 7340C001 K.Kanasaki:The pathological significance of dipeptidyl peptidase-4 in endothelial cell homeostasis and kidney fibrosis, *Diabetology International*, 7:3;212-220, 2016.
- 7340C002 (D.J.Klionsky), D.Koya, T.Okazaki et al.:Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)., *Autophagy*, 12:1;1-222, 2016.
- 7340C003 (A.Takagi), S.Kume, M.Kondo, J.Nakazawa, M.Chin-Kanasaki, H.Araki, S.Araki, D.Koya, M.Haneda, T.Chano, T.Matsusaka, K.Nagao, Y.Adachi, L.Chan, H.Maegawa, T.Uzu:Mammalian autophagy is essential for hepatic and renal ketogenesis during starvation., *Scientific reports*, 6:18944, 2016.
- 7340C004 S.Shi, D.Koya, K.Kanasaki:Dipeptidyl peptidase-4 and kidney fibrosis in diabetes., *Fibrogenesis & tissue repair*, 9:1, 2016.
- 7340C005 M.Kitada, Y.Ogura, D.Koya:The protective role of sirt1 in vascular tissue: its relationship to vascular aging and atherosclerosis., *Aging(Albany NY)*, 8:10;2290-2307, 2016.
- 7340C006 M.Kitada, Y.Ogura, D.Koya:Rodent models of diabetic nephropathy: their utility and limitations., *International journal of nephrology and renovascular disease*, 9:279-290, 2016.

## Case Reports

- 7340D001 S.Tsuda, K.Konishi, T.Otoda, T.Nagai, A.Takeda-Watanabe, M.Kanasaki, M.Kitada, A.Nakagawa, M.Nishizawa, K.Kanasaki, D.Koya:Restoration of the Hypothalamic-pituitary-adrenal Response to Hypoglycemia in Type 2 Diabetes by Avoiding Chronic Hypoglycemia., *Internal medicine*, 55:23;3471-3473, 2016.
- 7340D002 (Y.Sasagawa), O.Tachibana, A.Nakagawa, S.Nakada, T.Nojima, D.Koya, H.Iizuka:Rapid enlargement of an intracranial germ cell tumor after gonadotropin hormone therapy, *JOURNAL OF CLINICAL NEUROSCIENCE*, 31:185-188, 2016.

## Short Communications

- 7340E001 K.Kanasaki:Concerted efforts to combat diabetic complications., *Kidney international*, 89:2;269-271, 2016.
- 7340E002 M.Kitada, Y.Ogura, D.Koya:The protective effect of a low-protein diet against tubulo-interstitial damage in diabetic kidneys, *Cellular & Molecular Medicine: Open access*, 2:2;6-7, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 7340I001 O.Tachibana, Y.Sasagawa, A.Nakagawa, D.Koya, Y.Hayashi, M.Nakada, H.Iizuka:Expression of proinflammatory cytokines and receptors in symptomatic Rathke cleft cysts – a possible mediator of secondary hypophysitis with Rathke cleft cyst –, Euro-pit and 14th IPPC meeting in Annecy, Lyon, 2016.
- 7340I002 (N.Ueki), S.Takeda, D.Koya, K.Kanasaki:Catechol-O-methyltransferase deficiency leads to hypersensitivity on the pressor response against angiotensin II, *American Society of Nephrology(KIDNEY WEEK 2016)*, Chicago, 2016.
- 7340I003 (N.Ueki), A.Itakura, S.Takeda, K.Kanasaki:Catechol-O-methyltransferase deficiency leads to hypersensitivity on the pressor response against angiotensin II, *19th Congress of the Federation of Asia and Oceania Perinatal Societies (FAOPS 2016)*, Taipei, 2016.

## 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 (K.Tazaki), F.Tazaki, M.Okuno, T.Takehara, Y.Ishigaki, H.Nakagawa:Formation of Pisoliths at Hot Springs in Saturnia, Toscana, Italy, *The Journal of the Geological Society of Japan*, 122:2;45–60, 2016.
- 7350B002 (Y.Omata), Tharasegaran Suganya, Lim Young-Mi, Y.Yamasaki, Y.Ishigaki, T.Tatsuno, M.Maruyama, L.Tsuda:Expression of amyloid- $\beta$  in mouse cochlear hair cells causes an early-onset auditory defect in high-frequency sound perception., *Aging(Albany NY)*, 8:3;1–14, 2016.
- 7350B003 J.Zou, M.Wang, O.Uchiumi, Y.Shui, Y.Ishigaki, X.Liu, N.Tajima, T.Akai, H.Iizuka, N.Kato:Learning impairment by minimal cortical injury in a mouse model of Alzheimer's disease., *Brain research*, 1637:56–63, 2016.
- 7350B004 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, *Molecular and Cellular Biochemistry*, 413:1–2;155–164, 2016.
- 7350B005 (K.Higashi), T.Yamagishi, Y.Ueda, Y.Ishigaki, M.Shimasaki, Y.Nakamura, M.Oguchi, T.Takegami, M.Sagawa, H.Tonami:Correlation of HIF-1 $\alpha$ /HIF-2 $\alpha$  expression with FDG uptake in lung adenocarcinoma., *Annals of nuclear medicine*, 30:10;708–715, 2016.
- 7350B006 M.Murakami, T.Tasaki, S.Nukuzuma, H.Minato, T.Nojima, Y.Ishigaki, T.Takegami:Japanese encephalitis virus replication and inhibitory effect of shRNA in mice, *Advances in Microbiology*, 6:6;462–470, 2016.
- 7350B007 S.P.Srivastava, S.Shi, M.Kanasaki, T.Nagai, M.Kitada, J.He, Y.Nakamura, Y.Ishigaki, K.Kanasaki, D.Koya:Effect of Antifibrotic MicroRNAs Crosstalk on the Action of N-acetyl-seryl-aspartyl-lysyl-proline in Diabetes-related Kidney Fibrosis., *Scientific reports*, 6:29884, 2016.
- 7350B008 Y.Masaki, H.Kawabata, K.Takai, M.Kojima, N.Tsukamoto, Y.Ishigaki, N.Kurose, M.Ide, J.Murakami, K.Nara, H.Yamamoto, Y.Ozawa, H.Takahashi, K.Miura, T.Miyauchi, S.Yoshida, A.Momoi, N.Awano, S.Ikushima, Y.Ohta, N.Furuta, S.Fujimoto, H.Kawanami, T.Sakai, T.Kawanami, Y.Fujita, T.Fukushima, S.Nakamura, T.Kinoshita, S.Aoki:Proposed diagnostic criteria, disease severity classification and treatment strategy for TAFRO syndrome, 2015 version., *International journal of hematology*, 103:6;686–692, 2016.
- 7350B009 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki:Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder; TAFRO syndrome., *The Japanese journal of clinical hematology*, 57:10;2029–2037, 2016.
- 7350B010 Y.Masaki, H.Kawabata, K.Takai, N.Tsukamoto, S.Fujimoto, Y.Ishigaki, N.Kurose, M.Kojima, S.Nakamura, T.Kinoshita, S.Aoki, Japanese TAFRO syndrome research team:Proposed diagnostic criteria, disease severity classification, and treatment strategy for a novel disorder;TAFRO syndrome, *The Japanese Journal of Clinical Hematology*, 57:10;195–203, 2016.
- 7350B011 T.Tatsuno, Y.Nakamura, Ma Shaofu, N.Tomosugi, Y.Ishigaki:Nonsense-mediated mRNA decay factor Upf2 exists in both the nucleoplasm and the cytoplasm., *Molecular medicine reports*, 14:1;655–660, 2016.

- 7350B012 (LN.van der Vorm), JC.Hendriks, CM.Laarakkers, S.Klaver, AE.Armitage, A.Bamberg, AJ.Geurts-Moespot, D.Girelli, M.Herkert, O.Itkonen, RJ.Konrad, N.Tomosugi, M.Westerman, SS.Bansal, N.Campostrini, H.Drakesmith, M.Fillet, G.Olbina, SR.Pasricha, KR.Pitts, JHSloan, F.Tagliaro, CW.Weykamp, DW.Swinkels: Toward Worldwide Hepcidin Assay Harmonization: Identification of a Commutable Secondary Reference Material, *Clinical chemistry*, 62;993-1001,2016.
- 7350B013 (H.Honda) , Y.Kobayashi, S.Onuma, K.Shibagaki, T.Yuza, K.Hirao, T. Yamamoto, N.Tomosugi, T.Shibata: Associations among Erythroferrone and Biomarkers of Erythropoiesis and Iron Metabolism, and Treatment with Long-Term Erythropoiesis-Stimulating Agents in Patients on Hemodialysis, *PLoS One*, 11;e0151601,2016.

### Reviews

- 7350C001 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto:Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, *Suizo*, 31:1;76-84, 2016.
- 7350C002 (T.Domoto), Pyko Ilya V, T.Furuta, K.Miyashita, M.Uehara, T.Shimasaki, M.Nakada, T.Minamoto:Glycogen synthase kinase-3 $\beta$  is a pivotal mediator of cancer invasion and resistance to therapy., *Cancer science*, 107:10;1363-1372, 2016.

### Case Reports

- 7350D001 (N.Yamakawa), K.Oe, N.Yukawa, K.Murakami, R.Nakashima, Y.Imura, H.Yoshifuji, K.Ohmura, Y.Miura, N.Tomosugi, H.Kawabata, A.Takaori-Kondo, T.Mimori: A Novel Phenotype of a Hereditary Hemochromatosis Type 4 with Ferroportin-1 Mutation, Presenting with Juvenile Cataracts, *Internal medicine*, 55;2697-2701,2016.

### Short Communications

- 7350E001 (T.Kiba), Y.Ishigaki:Ventromedial hypothalamic lesions Down-Regulate the Expression of Adora1 Genes in rat Pancreatic islets, *LETTERS TO THE EDITOR*, 45:1;e1-e2, 2016.

## Presentations at Conference

### International Conference (Presentations)

- 7350I001 D.Nakai, S.Inoue, Y.Nakazawa, N.Morita, K.Miyazawa, Y.Ishigaki:Febuxostat reduces calcium oxalate monohydrate crystal-induced upregulation of MCP-1 in MDCK cells, 13th International Symposium on Urolithiasis, Makuhari, 2016.
- 7350I002 T.Arisawa, M.Ota, T.Tahara, J.Wu, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:A polymorphisms of DNMT3A gene is clisely associated with the severity of gastric mucosal atrophy, APDW2016, Kobe, 2016.
- 7350I003 J.Wu, T.Arisawa, T.Tahara, M.Ota, T.Nomura, R.Hayashi, T.Otsuka, T.Shimasaki, M.Nakamura, T.Shibata:The association between genetic polymorphisms of DNMT3A(rs6733868 and rs13428812)and the susceptibility to the gastric cancer in japan, APDW2016, Kobe, 2016.

## 7400 Research Support Center

### Faculty

Title	Name	Field of Specialization
Professor	NAKAGAWA Hideaki	Epidemiology of cardiovascular diseases, occupational medicine, preventive medicine
Professor(Additional Post)	ISHIGAKI Yasuhito	Molecular and Cellular Biology
Senior Assistant Professor (Additional Post)	MURAKAMI Manabu	Pathogenicity of flavivirus isolated from the field-collected mosquitoes

### Publications

#### Originals

- 7400B001 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5;699-703, 2016.
- 7400B002 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa:Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men., *Journal of diabetes investigation*, 7:3;343-351, 2016.
- 7400B003 (T.Koyama), K.Yoshita, M.Sakurai, K.Miura, Y.Naruse, N.Okuda, A.Okayama, STAMLER Jeremiah, H.Ueshima, H.Nakagawa:Relationship of Consumption of Meals Including Grain, Fish and Meat, and Vegetable Dishes to the Prevention of Nutrient Deficiency: The INTERMAP Toyama Study, *Journal of Nutritional Science and Vitaminology*, 62:2;101-107, 2016.
- 7400B004 M.Sakurai, J.Kobayashi, Y.Takeda, S.Nagasawa, J.Yamakawa, J.Moriya, H.Mabuchi, H.Nakagawa:Sex Differences in Associations Among Obesity, Metabolic Abnormalities, and Chronic Kidney Disease in Japanese Men and Women, *Journal of Epidemiology*, 26:8;440-446, 2016.
- 7400B005 PT.Tai, M.Nishijo, TN.Nghi, H.Nakagawa. H.Van Luong, TH.Anh, H.Nishijo:Effects of Perinatal Dioxin Exposure on Development of Children during the First 3 Years of Life., *The Journal of pediatrics*, 175:159-166, 2016.
- 7400B006 (XL.Sun), T.Kido, S.Honma, R.Okamoto, HD.Manh, S.Maruzeni, M.Nishijo, H.Nakagawa, T.Nakano, E.Koh, T.Takasuga, DD.Nhu, NN.Hung, K.Son Le:Influence of dioxin exposure upon levels of prostate-specific antigen and steroid hormones in Vietnamese men, *Environmental science and pollution research international*, 23:8;7807-7813, 2016.
- 7400B007 (D.Van Tung), T.Kido, S.Honma, HD.Manh, DD.Nhu, R.Okamoto, S.Maruzeni, M.Nishijo, H.Nakagawa, PT.Ngoc, N.Van Toan, NN.Hung, NH.Minh, K.Son Le:Low birth weight of Vietnamese infants is related to their mother's dioxin and glucocorticoid levels, *Environmental science and pollution research international*, 23:11;10922-10929, 2016.
- 7400B008 Y.Hamazaki, Y.Morikawa, S.Morimoto, H.Nakagawa:Difference in the impact of homebound status on functional decline between independent older men and women: A 2 year follow-up study., *Japan journal of nursing science*, 13:2;265-272, 2016.
- 7400B009 (K.Nakamura), M.Sakurai, Y.Morikawa, S.Nagasawa, K.Miura, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, H.Nakagawa:Serum Ferritin, Insulin Resistance, and  $\beta$ -cell Dysfunction: A Prospective Study in Normoglycemic Japanese Men, *Experimental and clinical endocrinology & diabetes : official journal, German Society of Endocrinology [and] German Diabetes Association*, 25:1;12-20, 2016.
- 7400B010 (K.Nogawa), Y.Suwazono, M.Ishizaki, K.Aoshima, R.Okamoto, M.Nishijo, H.Nakagawa, T.Kido:Attenuation of urinary cadmium in inhabitants of the environmentally exposed Jinzu River Basin determined by applying a mixed linear model, *Bulletin of environmental contamination and toxicology*, 96:5;699-703, 2016.

- 7400B011 M.Sakurai, K.Nakamura, K.Miura, T.Takamura, K.Yoshita, S.Nagasawa, Y.Morikawa, M.Ishizaki, T.Kido, Y.Naruse, M.Nakashima, K.Nogawa, Y.Suwazono, S.Sasaki, H.Nakagawa: Dietary carbohydrate intake, presence of obesity and the incident risk of type 2 diabetes in Japanese men., *Journal of diabetes investigation*, 7:3;343-351, 2016.
- 7400B012 (T.Koyama), K.Yoshita, M.Sakurai, K.Miura, Y.Naruse, N.Okuda, A.Okayama, STAMLER Jeremiah, H.Ueshima, H.Nakagawa: Relationship of Consumption of Meals Including Grain, Fish and Meat, and Vegetable Dishes to the Prevention of Nutrient Deficiency: The INTERMAP Toyama Study, *Journal of Nutritional Science and Vitaminology*, 62:2;101-107, 2016.

#### **Reviews**

- 7400C001 T.Shimasaki, S.Yamamoto, Y.Ishigaki, T.Takata, T.Arisawa, Y.Motoo, N.Tomosugi, T.Minamoto: Identification and functional analysis of an EMT-accelerating factor induced in pancreatic cancer cells by an anticancer agent, *Suizo*, 31:1;76-84, 2016.

#### **Case Reports**

- 7400D001 S.Miura, Y.Oikawa, N.Ueda, M.Murakami, N.Sakata: Case of viper (*Glodius blomhoffii*) bites treated with hospitalization in the Ishikawa Prefecture, Noto district, *Clinical Parasitology*, 27:1;75-77, 2016.

**Affiliated Institution**

## 9030 Northern Noto Institute for Community Medicine

### Faculty

Title	Name	Field of Specialization
Professor	NAKHASHI Takeshi	Geriatrics, Circulation, Hypertension, Atherosclerosis, Cardiology
Professor(Additional Post)	ISHIZAKI Takeshi	Respiratory Medicine, Health Science, Postgraduate Education

### Keywords of Research

Respiratory Medicine, Health Science, Postgraduate Education

### Outline of Research

Effective development of best respiratory care for aged-people and education to respiratory care given in aged area.

### Publications

#### Originals

- 9030B001 R.Kato, S.Mizuno, M.Kadowaki, K.Shiozaki, M.Akai, K.Nakagawa, T.Oikawa, M.Iguchi, K.Osanai, T.Ishizaki, N.F.Voelkel, H.Toga:Sirt1 expression is associated with CD31 expression in blood cells from patients with chronic obstructive pulmonary disease., *Respiratory research*, 17:1;139-151, 2016.

#### Case Reports

- 9030D001 (M.Morikawa), Y.Fukuda, Y.Terasaki, H.Itoh, Y.Demura, M.Sasaki, Y.Imamura, C.Honjo, Y.Umeda, M.Anzai, S.Ameshima, T.Ishizaki, T.Ishizuka:Osteogenesis Imperfecta Associated with Dendriform Pulmonary Ossification., *American journal of respiratory and critical care medicine*, 193:4;460-461, 2016.

# Himi Municipal Hospital



## 9100 Himi Municipal Hospital

### Faculty

Title	Name	Field of Specialization
Director	SAITO Hitoshi	Surgical treatment of hepatobiliary and pancreatic disease
Professor	FUKUDA Akihiro	Cardiology
Professor	TOMIOKA Ryo	Neurology
Professor	MORIYAMA Manabu	Kidney transplantation, Urolithiasis
Professor	HATASHIMA Sunao	Anesthesiology/Resuscitation studies
Associate Professor	KIYOSAWA Jun	Cardiology
Associate Professor	ITO Tomohiko	adrenal diseases, diabetes, thyroid diseases
Associate Professor	KONISHI Kazunori	adrenal diseases, diabetes, thyroid diseases
Associate Professor	IGUCHI Masaharu	Respiratory Medicine
Associate Professor	KUGINUKI Yasuaki	Medical Radiography
Associate Professor	IKEBUCHI Kimihiro	Orthopaedic Surgery
Associate Professor	MATSUNO Hideo	Allergy, Otorhinolaryngology
Associate Professor	MATSUI Toshiaki	Oral & Maxillofacial Surgery
Senior Assistant Professor	SAITO Atsushi	Nephrology
Senior Assistant Professor	KOBATA Takashi	Cardiovascular Surgery
Senior Assistant Professor	AOKI Nobuyuki	Orthopaedic Surgery
Senior Assistant Professor	OHURA Kazuko	Otorhinolaryngology
Senior Assistant Professor	KAWASAKI Masanori	Anesthesiology/Resuscitation studies
Assistant Professor	MIZUNO Takuro	Cardiology
Assistant Professor	ISHIGAMI Keiichiro	Gerontology
Assistant Professor	SANGEN Ryusho	General Medicine
Assistant Professor	MUKAI Hirokado	Oncology Surgery
Assistant Professor	HAYASHI Kei	Oncology Surgery
Assistant Professor	NAKAMURA Kisuke	Oncology Surgery
Assistant Professor	SAKAMOTO Daisuke	Cardiovascular Surgery
Assistant Professor	KUSABA Eizo	neurosurgery
Assistant Professor	SHIMADA Toshitsugu	

### Publications

#### Originals

- 9100B001 T.Ikeda, Y.Yoshitomi, H.Saito, T.Shimasaki, H.Yamaya, T.Kobata, Y.Ishigaki, N.Tomosugi, Y.Yoshitake, H.Yonekura:Regulation of soluble Flt-1(VEGFR-1) production by hnRNP D and protein arginine methylation, Molecular and Cellular Biochemistry, 413:1-2;155-164, 2016.

- 9100B002 R.Kato, S.Mizuno, M.Kadowaki, K.Shiozaki, M.Akai, K.Nakagawa, T.Oikawa, M.Iguchi, K.Osanai, T.Ishizaki, N.F.Voelkel, H.Toga:Sirt1 expression is associated with CD31 expression in blood cells from patients with chronic obstructive pulmonary disease., *Respiratory research*, 17:1;139–151, 2016.
- 9100B003 S.Maeda, T.Takiuti, Y.Kohno, H.Nakai, M.Fukuda, M.Moriyama:Catheter blockage factors in patients cared for in their own home requiring long-term urinary catheterisation, *International Journal of Urological Nursing*, 1–8, 2016.
- 9100B004 D.Usuda, R.Sangen, Y.Hashimoto, E.Muranaka, Y.Iinuma, T.Kanda:Validation of a B-type natriuretic peptide as a prognostic marker in pneumonia patients: a prospective cohort study, *BMJ open*, 6:2;e010440, 2016.

## **Presentations at Conference**

### **International Conference (Presentations)**

- 9100I001 S.Maeda, T.Takiuti, M.Moriyama, Y.Kohno, H.Nakai, M.Fukuda:Development of a protocol for the prevention and management of long-term indwelling urinary catheter blockage for visiting nurses, 17th international EAUN meeting, Munich, 2016.
- 9100I002 T.Mizuno, A.Fukuda, Y.Izumi, J.Kiyosawa:Urinary Na and K excretion values in outpatients with hypertension compared to patients with other diseases, The 26th Scientific Meeting of the International Society of Hypertension(ISH), Seoul, 2016.
- 9100I003 Y.Kasamaki, Y.Ozawa, H.Kawamura, T.Nakayama, D.Himitd, A.Fukuda, T.Mizuno, Y.Izum, M.Soma:Circadian variation in pulse pressure: Comparison between, juvenile, middle-aged people and elderly people, The 26th Scientific Meeting of the International Society of Hypertension(ISH), Seoul, 2016.