

## Key Research Papers in Medicine, Shinshu University 2023

### Aging Biology

1. Huo J, Xu Z, Hosoe K, et al: Coenzyme Q10 prevents senescence and dysfunction caused by oxidative stress in vascular endothelial cells. *Oxid Med Cell Longev* 3181759, 2018.
2. Sawashita J, Zhang B, Hasegawa K, et al: C-terminal sequence of amyloid-resistant type F apolipoprotein A-II inhibits amyloid fibril formation of apolipoprotein A-II in mice. *Proc Natl Acad Sci USA* 112: E836-E845, 2015.
3. Mori M, Li G, Abe I, et al: Lanosterol synthase mutations cause cholesterol deficiency-associated cataracts in the Shumiya cataract rat. *J Clin Invest* 116: 395-404, 2006.

### Molecular Pathology

1. Kawakubo M, Ito Y, Okimura Y, et al: Natural antibiotic function of a human gastric mucin against *Helicobacter pylori* infection. *Science* 305: 1003-1006, 2004.
2. Karasawa F, Shiota A, Goso Y, et al: Essential role of gastric gland mucin in preventing gastric cancer in mice. *J Clin Invest* 122: 923-934, 2012.
3. Shiratsu K, Higuchi K, Nakayama J: Loss of gastric gland mucin-specific O-glycan is associated with progression of differentiated-type adenocarcinoma of the stomach. *Cancer Sci* 105: 126-133, 2014.

### Global Medical Research Promotion

1. Jia F, Diao P, Wang X, et al: Dietary restriction suppresses steatosis-associated hepatic tumorigenesis in hepatitis C virus core gene transgenic mice. *Liver Cancer* 9: 529-548, 2020.
2. Zhang X, Diao P, Yokoyama H, et al: Acidic Activated Charcoal Prevents Obesity and Insulin Resistance in High-Fat Diet-Fed Mice. *Front Nutr* 9: 852767, 2022.
3. Diao P, Wang Y, Jia F, et al: Dietary Fat Composition Affects Hepatic Angiogenesis and Lymphangiogenesis in Hepatitis C Virus Core Gene Transgenic Mice. *Liver Cancer* 12: 57-71, 2022.

### Cardiovascular Research

1. Koyama T, Ochoa-Callejero L, Sakurai T, et al: Vascular endothelial adrenomedullin-RAMP2 system is essential for vascular integrity and organ homeostasis. *Circulation* 127: 842-853, 2013.
2. Yoshizawa T, Sakurai T, Kamiyoshi A, et al: Novel regulation of cardiac metabolism and homeostasis by the adrenomedullin-RAMP2 system. *Hypertension* 61: 341-351, 2013.
3. Ichikawa-Shindo Y, Sakurai T, Kamiyoshi A, et al: GPCR modulator protein RAMP2 is essential for angiogenesis and vascular integrity. *J Clin Invest* 118: 29-39, 2008.

### Sports Medical Sciences

1. Masuki S, Morikawa M, Nose H: Internet of Things (IoT) System and Field Sensors for Exercise Intensity Measurements. *Compr Physiol* 10: 1207-1240, 2020.
2. Masuki S, Morikawa M, Nose H: High-Intensity Walking Time Is a Key Determinant to Increase Physical Fitness and Improve Health Outcomes After Interval Walking Training in Middle-Aged and Older People. *Mayo Clin Proc* 94: 2415-2426, 2019.
3. Morikawa M, Okazaki K, Masuki S, et al: Physical fitness and indices of lifestyle-related diseases before and after interval walking training in middle-aged and older males and females. *Br J Sports Med* 45: 216-224, 2011.

**Histology and Embryology**

1. Tomotsune D, Hirashima K, Fujii M, et al: Enrichment of Pluripotent Stem Cell-Derived Hepatocyte-Like Cells by Ammonia Treatment. *PLoS One* 11: 1-13, 2016.
2. Yue F, Hirashima K, Tomotsune D, et al: Reprogramming of retinoblastoma cancer cells into cancer stem cells. *Biochem Biophys Res Commun* 22: 549-555, 2017.
3. Rosines E, Johkura K, Zhang X, et al: Constructing kidney-like tissues from cells based on programs for organ development: towards a method of in vitro engineering of the kidney. *Tissue Eng Part A* 16: 2441-2455, 2010.

**Anatomy**

1. Kakegawa A, Fukushima N, Sumitomo N, et al: Difference in the fibular attachment structure between the superior and inferior fascicles of the anterior talofibular ligament. *Surg Radiol Anat* 44: 1513-1520, 2022.
2. Fukushima N, Kobayashi T, Kakegawa A, et al: Hypoglossal nerve injury with long nerve resection leading to slow motoneuron death. *Neurosci Lett* 715: 134668, 2020.
3. Fukushima N, Yokouchi K, Kuroiwa M, et al: Acetyl-l-carnitine enhances myelination of regenerated fibers of the lateral olfactory tract. *Neurosci Lett* 653: 215-219, 2017.

**Molecular Pathophysiology**

1. Sawamura T, Kume N, Masaki T, et al: An endothelial receptor for oxidized low-density lipoprotein. *Nature* 386: 73-77, 1997.
2. Liang YQ, Kakino A, Matsuzaka Y, et al: LOX-1 (lectin-like oxidized low-density lipoprotein receptor-1) deletion has protective effects on stroke in the genetic background of Stroke-Prone Spontaneously Hypertensive Rat. *Stroke* 51: 1835-1843, 2020.
3. Akhmedov A, Sawamura T, Chen CH, et al: Lectin-like Oxidized LDL Receptor-1 (LOX-1): A crucial driver of atherosclerotic cardiovascular disease. *Eur Heart J*, 2020 in press.

**Molecular Cellular Physiology**

1. Mehta A, Shirai Y, Kouyama-Suzuki E, et al: IQSEC2 Deficiency Results in Abnormal Social Behaviors Relevant to Autism by Affecting Functions of Neural Circuits in the Medial Prefrontal Cortex. *Cells* 10: 2724, 2021.
2. Badawi M, Mori T, Kurihara T, et al: Risperidone Mitigates Enhanced Excitatory Neuronal Function and Repetitive Behavior Caused by an ASD-Associated Mutation of SIK1. *Front Mol Neurosci*. 14: 706494, 2021.
3. Suzuki T, Terada N, Higashiyama S, et al: Non-microtubule tubulin-based backbone and subordinate components of postsynaptic density lattices. *Life Sci Alliance* 4: e202000945, 2021.

**Biochemistry and Molecular Biology**

1. Tomita T, Kato M, Mishima T, et al: Extracellular mRNA transported to the nucleus exerts translation-independent function. *Nat Commun* 12: 3655, 2021.
2. Tomita T, Kato M, Hiratsuka S: Regulation of vascular permeability in cancer metastasis. *Cancer Sci* 112: 2966-2974, 2021.

**Molecular Pharmacology**

1. Kashihara T, Kawagishi H, Nakada T, et al:  $\beta$ -Arrestin-Biased AT1 Agonist, TRV027 Causes a Neonatal-Specific Sustained Positive Inotropic Effect without Increasing Heart Rate. *JACC Basic Transl Sci* 5: 1057-1069, 2020.
2. Kashihara T, Nakada T, Kojima K, et al: Angiotensin II activates CaV1.2 Ca<sup>2+</sup> channels through  $\beta$ -arrestin2 and casein kinase 2 in mouse immature cardiomyocytes. *J Physiol (Lond.)* 595: 4207-4225, 2017.
3. Nakada T, Kashihara T, Komatsu M, et al: Physical interaction of junctophilin and the CaV1.1C-terminus is crucial for skeletal muscle contraction. *Proc Natl Acad Sci USA* 115: 4507-4512, 2018.

**Pathology**

1. Ohya M, Nakazawa K, Kanno H: Lower number of 5-hydroxymethylcytosine-expressing cells in plasma cell myeloma than in reactive plasma cell hyperplasia: a useful immunohistochemical approach for identification of neoplastic plasma cells. *Pathology* 51: 81-85, 2019.
2. Yamamoto Y, Tsuzuki T, Akatsuka J, et al: Automated acquisition of explainable knowledge from unannotated histopathology images. *Nat Commun* 10: 5642, 2019.
3. Kobayashi M, Ogawa E, Okuyama R, et al: In vasculitis of small muscular arteries, activation of vessel-infiltrating CD8 T cells seems to be antigen-independent. *Virchows Arch* 472: 271-279, 2018.

**Pathobiology**

1. Ding K, Shibui A, Wang Y, et al: Impaired recognition by Toll-like receptor 4 is responsible for exacerbated murine Pneumocystis pneumonia. *Microbes Infect* 7: 195-203, 2005.
2. Yan H, Takamoto M, Sugane K: Exposure to Bisphenol A prenatally or in adulthood promotes TH2 cytokine production associated with reduction of CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells. *Environ Health Perspect* 116: 514-519, 2008.
3. Jin D, Takamoto M, Hu T, et al: STAT6 signalling is important in CD8 T-cell activation and defense against Toxoplasma gondii infection in the brain. *Immunology* 127: 187-195, 2009.

**Microbiology and Immunology**

1. Amano Y, Akazawa K, Yasuda J, et al: A low-frequency IL-4R locus variant in Japanese patients with intravenous immunoglobulin therapy-unresponsive Kawasaki disease. *Pediatr Rheumatol Online J* 17: 34, 2019.
2. Kojima K, Amano Y, Yoshino K, et al: ESCRT-0 Protein Hrs Is Targeted to Endosomes Independent of STAM and the Complex Formation with STAM Promotes Its Endosomal Dissociation. *J Biol Chem* 289: 33296-33210, 2014.
3. Amano Y, Yamashita Y, Kojima K, et al: Hrs recognizes a hydrophobic amino acid cluster in cytokine receptors during ubiquitin-independent endosomal sorting. *J Biol Chem* 286: 15458-15472, 2011.

**Molecular and Cellular Immunology**

1. Maeda K, Nakayama J, Taki S, et al: TAK1 Limits Death Receptor Fas-Induced Proinflammatory Cell Death in Macrophages. *J Immunol* 209: 1173-1179, 2022.
2. Yamamoto Y, Yoshizawa K, Takamoto M, et al: Circulating T cells and resident non-T cells restrict type 2 innate lymphoid cell expansion in the small intestine. *Biochem Biophys Res Commun* 618: 93-

99, 2022.

- Sanjo H, Nakayama J, Yoshizawa T, et al: Cutting Edge: TAK1 Safeguards Macrophages against Proinflammatory Cell Death. *J Immunol* 203: 783-788, 2019.

### Medical Genetics

- Kosho T, Nakamura T, Kawame H, et al: Neonatal management of trisomy 18: clinical details of 24 patients receiving intensive treatment. *Am J Med Genet A* 140: 937-944, 2006.
- Miyake N, Kosho T, Mizumoto S, et al: Loss-of-function mutations of CHST14 in a new type of Ehlers-Danlos syndrome. *Hum Mutat* 31: 966-974, 2010.
- Kawamura R, Tanabe H, Wada T, et al: Visualization of the spatial positioning of the SNRPN, UBE3A, and GABRB3 genes in the normal human nucleus by three-color 3D fluorescence in situ hybridization. *Chromosome Res* 20: 659-672, 2012.

### Preventive Medicine and Public Health

- Hasegawa K, Sakurai A, Mizuki M, et al: Association between the number of teeth and incident pre-diabetes among middle-aged adults with periodontal disease: a retrospective cohort analysis of Japanese claims data. *BMJ Open* 13: e075527, 2023.
- Atagi T, Hasegawa K, Motoki N, et al: Associations between prenatal exposure to per- and polyfluoroalkyl substances and wheezing and asthma symptoms in 4-year-old children: The Japan Environment and Children's Study. *Environ Res* 240: 117499, 2024.
- Hasegawa K, Tsukahara T, Nomiya T: Short-term associations of low-level fine particulate matter (PM<sub>2.5</sub>) with cardiorespiratory hospitalizations in 139 Japanese cities. *Ecotoxicol Environ Saf* 258: 114961 2023.

### Legal Medicine

- Shiozaki T, Sato N, Hayashi T, et al: Wild-type ATTR amyloidosis may be associated with unexpected death among the elderly. *Leg Med* 41: 101634, 2019.
- Nunotani M, Sato N, Kamei S, et al: Development of Multiple Assays using 46 SNPs for Comprehensive mtDNA Haplogrouping and Application to Highly Degraded DNA. *J Forensic Sci* 61: 472-477, 2016.
- Kamei S, Sato N, Harayama Y, et al: Molecular analysis of potassium ion channel genes in sudden death cases among patients administered psychotropic drug therapy: are polymorphisms in LQT genes a potential risk factor? *J Hum Genet* 59: 95-99, 2014.

### Regenerative Science and Medicine

- Shiba N, Yang X, Sato M, et al: Efficacy of exon-skipping therapy for DMD cardiomyopathy with mutations in actin binding domain 1. *Mol Ther Nucleic Acids* 34: 102060, 2023.
- Shiba Y, Gomibuchi T, Seto T, et al: Allogeneic transplantation of iPS cell-derived cardiomyocytes regenerates primate hearts. *Nature* 538: 388-391, 2016.
- Shiba Y, Fernandes S, Zhu WZ, et al: Human ES-cell-derived cardiomyocytes electrically couple and suppress arrhythmias in injured hearts. *Nature* 489: 322-325, 2012.

### Internal Medicine 1 (Respirology, Infectious Disease and Allergology)

1. Komatsu M, Yamamoto H, Uehara T, et al: Prognostic implication of IgG4 and IgG1-positive cell infiltration in the lung in patients with idiopathic interstitial pneumonia. *Sci Rep* 12: 9303, 2022.
2. Araki T, Yamazaki Y, Goto N, et al: Prognostic value of geriatric nutritional risk index for aspiration pneumonia: a retrospective observational cohort study. *Aging Clin Exp Res* 34: 563-571, 2022.
3. Kinjo T, Kitaguchi Y, Droma Y, et al: The Gly82Ser mutation in AGER contributes to pathogenesis of pulmonary fibrosis in combined pulmonary fibrosis and emphysema (CPFE) in Japanese patients. *Sci Rep* 10: 12811, 2020.

#### **Internal Medicine 2 (Gastroenterology, Nephrology and Hematology)**

1. Umemura T, Joshita S, Saito H, et al: Investigation of the Effect of KIR–HLA Pairs on Hepatocellular Carcinoma in Hepatitis C Virus Cirrhotic Patients. *Cancers* 13: 3267, 2021.
2. Wang Y, Nakajima T, Diao P, et al: Polyunsaturated fatty acid deficiency affects sulfatides and other sulfated glycans in lysosomes through autophagy-mediated degradation. *FASEB J* 34: 9594-9614, 2020.
3. Hamano H, Kawa S, Horiuchi A, et al: High serum IgG4 concentrations in patients with sclerosing pancreatitis. *N Engl J Med* 344: 732-738, 2001.

#### **Internal Medicine 3 (Neurology and Rheumatology)**

1. Sekijima Y, Wiseman RL, Matteson J, et al: The biological and chemical basis for tissue-selective amyloid disease. *Cell* 121: 73-85, 2005.
2. Sekijima Y, Yazaki M, Oguchi K, et al: Cerebral amyloid angiopathy in posttransplant patients with hereditary ATTR amyloidosis. *Neurology* 87: 773-781, 2016.
3. Adams D, Gonzalez-Duarte A, O'Riordan WD, et al: Patisiran, an RNAi Therapeutic, for Hereditary Transthyretin Amyloidosis. *N Engl J Med* 379: 11-21, 2018.

#### **Internal Medicine 4 (Diabetes, Endocrinology and Metabolism)**

1. Hiramatsu K, Yamada T, Yukimura Y, et al: A screening test to identify aldosterone-producing adenoma by measuring plasma renin activity. Results in hypertensive patients. *Arch Intern Med* 141: 1589-1593, 1981.
2. Sato Y, Aizawa T, Komatsu M, et al: Dual functional role of membrane depolarization/Ca<sup>2+</sup>influx in rat pancreatic B-cell. *Diabetes* 41: 438-443, 1992.
3. Komatsu M, Takei M, Ishii H, et al: Glucose-stimulated insulin secretion: A newer perspective. *J Diabetes Investig* 27: 511-516, 2013.

#### **Internal Medicine 5 (Cardiovascular Disease)**

1. Kuwahara K: The natriuretic peptide system in heart failure: Diagnostic and therapeutic implications. *Pharmacol Ther* 227: 107863, 2021.
2. Inazumi H, Kuwahara K, Nakagawa Y, et al: NRSF-GNAO1 Pathway Contributes to the Regulation of Cardiac Ca<sup>2+</sup> Homeostasis. *Circ Res* 130: 234-248, 2022.
3. Shimizu Y, Kondo K, Hayashida R, et al: Therapeutic angiogenesis for patients with no-option critical limb ischemia by adipose-derived regenerative cells: TACT-ADRC multicenter multicenter trial. *Angiogenesis* 25: 535-546, 2022.

**Psychiatry**

1. Nakamura T, Sasayama D, Hagiwara T, et al: Reduced functional connectivity in the prefrontal cortex of elderly catatonia patients: A longitudinal study using functional near-infrared spectroscopy. *Neurosci Res* 170: 322-329,2021.
2. Suzuki K, Yamasaki S, Miyashita M, et al: Role of advanced glycation end products in the longitudinal association between muscular strength and psychotic symptoms among adolescents. *Schizophrenia (Heidelb)* 8: 44, 2022.
3. Sasayama D, Kuge R, Toibana Y, et al: Trends in Autism Spectrum Disorder Diagnoses in Japan, 2009 to 2019. *JAMA Netw Open* 4: e219234, 2021.

**Pediatrics**

1. Hasegawa A, Saito S, Narimatsu S, et al: Mutated GM-CSF-based CAR-T cells targeting CD116/CD131 complexes exhibit enhanced anti-tumor effects against acute myeloid leukaemia. *Clin Transl Immunol* 10: e1282, 2021.
2. Nakamura K, Yagyu S, Hirota S, et al: Autologous antigen-presenting cells efficiently expand piggyBac transposon CAR-T cells with predominant memory phenotype. *Mol Ther Methods Clin Dev* 21: 315-324, 2021.
3. Morokawa H, Yagyu S, Hasegawa A, et al. Autologous non-human primate model for safety assessment of piggyBac transposon-mediated chimeric antigen receptor T cells on granulocyte-macrophage colony-stimulating factor receptor. *Clin Transl Immunol* 9: e1207, 2020.

**Dermatology**

1. Minagawa A, Omodaka T, Okuyama R: Melanomas favor mechanical stress points on the plantar surface. *N Engl J Med* 374: 2404-2406, 2016.
2. Hidaka T, Ogawa E, Kobayashi EH, et al: AhR links atopic dermatitis and air pollution via artemin induction. *Nat Immunol* 18: 64-73, 2017.
3. Sakaizawa K, Goto Y, Kiniwa Y, et al: Mutation analysis of BRAF and KIT in circulating melanoma cells at the single cell level. *Brit J Cancer* 106: 939-946, 2012.

**Radiology**

1. Fujinaga Y, Kadoya M, Kawa S, et al: Characteristic findings in images of extra-pancreatic lesions associated with autoimmune pancreatitis. *Eur J Radiol* 76: 228-238, 2009.
2. Yamada A, Hara T, Li F, et al: Quantitative Evaluation of Liver Function with Use of Gadoxetate Disodium-enhanced MR Imaging. *Radiology* 260: 727-733, 2011.
3. Fujinaga Y, Ohya A, Tokoro H, et al: Radial volumetric imaging breath-hold examination (VIBE) with k-space weighted image contrast (KWIC) for dynamic gadoxetic acid (Gd-EOB-DTPA)-enhanced MRI of the liver: advantages over Cartesian VIBE in the arterial phase. *Eur Radiol* 24: 1290-1299, 2014.

**Surgery (Division of Gastroenterological, Hepato-Biliary-Pancreatic, Transplantation and Pediatric Surgery)**

1. Masuo H, Kubota K, Shimizu A, et al: Increased mitochondria are responsible for the acquisition of gemcitabine resistance in pancreatic cancer cell lines. *Cancer Sci* 114: 4388-4400, 2023

2. Hondo N, Kitazawa M, Koyama M, et al: MEK inhibitor and anti-EGFR antibody overcome sotorasib resistance signals and enhance its antitumor effect in colorectal cancer cells. *Cancer Lett* 567: 216264, 2023.
3. Umemura K, Mita A, Ohno Y, et al: Late-onset Chronic Kidney Disease Over 2 Decades After Pediatric Liver Transplantation: A Single-center, Retrospective Study. *Transplantation* 107: 1535-1544, 2023.

#### **Surgery (Division of Cardiovascular Surgery)**

1. Amano J, Akashima T, Terasaki T, et al: Characteristics of cardiac allograft vasculopathy induced by immunomodulation in the miniature swine. *Ann Thorac Cardiovasc Surg* 21: 45-52, 2015.
2. Komatsu K, Takano T, Terasaki T, et al: Surgical outcomes of acute type A aortic dissection in elderly patients. *Ann Thorac Surg* 97(5): 1576-1581, 2014.
3. Gomibuchi T, Seto T, Komatsu M, et al: Impact of frailty on outcomes in acute type A aortic dissection. *Ann Thorac Surg* 106(5): 1349-1355, 2018.

#### **Surgery (Division of General Thoracic Surgery)**

1. Eguchi T, Sato T, Shimizu K: Technical Advances in Segmentectomy for Lung Cancer: A Minimally Invasive Strategy for Deep, Small, and Impalpable Tumors. *Cancers* 13: 3137, 2021.
2. Shimizu K, Ohtaki Y, Suzuki K, et al: Salvage Surgery for Non-Small Cell Lung Cancer After Definitive Radiotherapy. *Ann Thorac Surg* 112: 862-873, 2021.
3. Takeda T, Matsuoka S, Miura K, et al: Prediction of Pulmonary Artery-Adherent Lymph Nodes for Minimally Invasive Lung Resection. *Ann Thorac Surg* 114: 969-978, 2022.

#### **Surgery (Division of Breast and Endocrine Surgery)**

1. Ohno K, Shibata T, Ito K: Epidermal growth factor receptor activation confers resistance to lenvatinib in thyroid cancer cells. *Cancer Sci* 113: 3193-3210, 2022.
2. Ono M, Oba T, Shibata T, et al: The mechanisms involved in the resistance of estrogen receptor-positive breast cancer cells to palbociclib are multiple and change over time. *J Cancer Res Clin Oncol* 147: 3211-3224, 2021.
3. Oba T, Ono M, Matoba H, et al: HDAC6 inhibition enhances the anti-tumor effect of eribulin through tubulin acetylation in triple-negative breast cancer cells. *Breast Cancer Res Treat* 186: 37-51, 2021.

#### **Orthopedic Surgery**

1. Aoki K, Ogihara N, Tanaka M, et al: Carbon nanotube-based biomaterials for orthopaedic applications. *J Mater Chem B* 21: 9227-9238, 2020.
2. Uehara M, Takahashi J, Ikegami S, et al: Sagittal spinal alignment deviation in the general elderly population: A Japanese cohort survey randomly sampled from a basic resident registry. *Spine J* 19: 349-356, 2019.
3. Tensho K, Shimodaira H, Aoki T, et al: Bony Landmarks of the Anterior Cruciate Ligament Tibial Footprint: A Detailed Analysis Comparing 3-Dimensional Computed Tomography Images to Visual and Histological Evaluations. *Am J Sports Med* 42: 1433-1440, 2014.

#### **Neurosurgery**

1. Fujii Y, Ogiwara T, Kato H et al: Cerebral Edema Due to Chemotherapeutic Wafer Implantation for Malignant Glioma: Registry Study of Correlation with Perioperative Epileptic Seizures. *Neurol Med Chir (Tokyo)* 62: 328-335, 2022.
2. Hanaoka Y, Koyama JI, Yamazaki D, et al: Transradial quadraxial system for coil embolization of distal anterior cerebral artery aneurysms: A radial-first center case series and literature review. *J Neuroradiol* 49: 169-172, 2022.
3. Horiuchi S, Kanaya K, Horiuchi T: The Occurrence and Relationship of Postoperative Seizure and de novo Epilepsy after Craniotomy Surgery : A Retrospective Single-Center Cohort Study. *Front Surg* 9 : 881874, 2022.

### Dentistry and Oral Surgery

1. Hoshi K, Ikebe T, Ota Y, et al: Guide for Surgical Procedures in Oral And Maxillofacial Areas during Coronavirus Disease 2019 Pandemic. *J Oral Maxillofac Surg Med Pathol* 34: 294-314, 2021.
2. Kawamoto M, Yamada S, Gibo T, et al: Relationship between dry mouth and hypertension. *Clin Oral Investig* 25: 5217-5225, 2021.
3. Koyama Y, Ohmori N, Momose H, et al: Detection of swallowing disorders using a multiple channel surface electromyography sheet; a preliminary study. *J Dent Sci* 16: 160-167, 2021.

### Urology

1. Saito T, Hitchens TK, Foley LM, et al: Functional and histologic imaging of urinary bladder wall after exposure to psychological stress and protamine sulfate. *Sci Rep* 11: 19440, 2021.
2. Ogawa N, Imamura T, Minagawa T, et al: Autologous bilayered adipose-derived mesenchymal cell-gelatin sheets reconstruct ureters in rabbits. *Tissue Eng. Part A* 28: 855-866, 2022.
3. Saito T, Gotoh D, Wada N, et al: Time-dependent progression of neurogenic lower urinary tract dysfunction after spinal cord injury in the mouse model. *Am J Physiol Renal Physiol* 321: F26-F32, 2021.

### Ophthalmology

1. Kakihara S\*, Hirano T, Kitahara J, et al: Application of optical coherence tomography angiography to assess systemic severity in patients with hereditary transthyretin amyloidosis. *PLoS One* 17: e0275180, 2022
2. Hirano T, Hoshiyama K, Takahashi Y, et al: Wide-field swept-source OCT angiography (23 × 20 mm) for detecting retinal neovascularization in eyes with proliferative diabetic retinopathy. *Graefes Arch Clin Exp Ophthalmol* 261: 339-344, 2022.
3. Hirabayashi K, Hoshiyama K, Imai A, et al: Relationship between central retinal sensitivity, thickness, perfusion density and visual acuity in patients with branch retinal vein occlusion. *Acta Ophthalmol* 100: e610-e611, 2022.

### Otorhinolaryngology

1. Yokota Y, Moteki H, Nishio SY, et al: Frequency and clinical features of hearing loss caused by STRC deletions. *Sci Rep* 9: 4408, 2019.
2. Usami S, Moteki H, Tsukada K et al: Hearing preservation and clinical outcome of 32 consecutive electric acoustic stimulation (EAS) surgeries. *Acta Otolaryngol* 137: 717-727, 2014.



3. Nishio SY, Usami SI: The Clinical Next-Generation Sequencing Database: A Tool for the Unified Management of Clinical Information and Genetic Variants to Accelerate Variant Pathogenicity Classification. *Hum Mut* 38: 252-259, 2017.

### **Obstetrics and Gynecology**

1. Suzuki A, Horiuchi A, Ashida T, et al: Cyclin A2 confers cisplatin resistance to endometrial carcinoma cells via up-regulation of an Akt-binding protein, periplakin. *J Cell Mol Med* 19: 2305-2317, 2010.
2. Miyamoto T, Shiozawa T, Kashima H, et al: Estrogen up-regulates mismatch repair activity in normal and malignant endometrial glandular cells. *Endocrinology* 147: 4863-4870, 2006.
3. Takatsu A, Shiozawa T, Miyamoto T, et al: Preoperative differential diagnosis of minimal deviation adenocarcinoma and lobular endocervical glandular hyperplasia of the uterine cervix: a multicenter study of clinicopathology and magnetic resonance imaging findings. *Int J Gynecol Cancer* 21: 1287-1296, 2011.

### **Anesthesiology and Resuscitology**

1. Zhang H, Kashihara T, Nakada T, et al: Prostanoid EP4 receptor-mediated augmentation of Ih currents in A $\beta$  dorsal root ganglion neurons underlies neuropathic pain. *J Pharmacol Exp Ther* 368: 50-58, 2019.
2. Fuseya S, Yamamoto K, Minemura H, et al: Systemic QX-314 Reduces Bone Cancer Pain through Selective Inhibition of Transient Receptor Potential Vanilloid Subfamily 1-expressing Primary Afferents in Mice. *Anesthesiology* 125: 204-218, 2016.
3. Ishida T, Tanaka S, Sekiguchi T, et al: Spinal nociceptive transmission by mechanical stimulation of bone marrow. *Mol Pain* 12: 1-15, 2016.

### **Plastic and Reconstructive Surgery**

1. Tsunekawa K, Kato T, Ebisawa S, et al: Which plantar region can predict peripheral arterial disease by using laser speckleflowgraphy? *Heart Vessels* 37: 738-744, 2022.
2. Nakajima Y, Yuzuriha S, Nagai F, et al: A Foxtail-shaped vermilion flap to reconstruct the medial tubercle in asymmetric bilateral cleft lip with contralateral lesser form defect. *Cleft Palate Craniofac J* 56: 1052-1057, 2019.
3. Nishioka H, Yuzuriha S, Yanagisawa D: Predicting facial changes after blepharoplasty. *J Plast Reconstr Aesthet Surg* 75: 3499-3505, 2022.

### **Laboratory Medicine**

1. Ishimine N, Wu S, Ota R, et al: Development of free 25-hydroxyvitamin D3 assay method using liquid chromatography-tandem mass spectrometry. *Biosci Rep* 42: BSR20221326, 2022.
2. Nakajima T, Uehara T, Iwaya M, et al: Osteopontin expression in the invasive front stroma of colorectal adenocarcinoma is associated with tumor budding and prognosis. *Pathol Res Pract* 240: 154190, 2022.
3. Konno S, Yanagisawa R, Kubota N, et al: Investigation of patient factors associated with the number of transfusions required during chemotherapy for high-risk neuroblastoma. *Vox Sang* 117: 71-79, 2022.

### **Emergency and Critical Care Medicine**

1. Nitta K, Imamura H, Kashima Y, et al: Impact of a negative D-dimer result on the initial assessment of acute aortic dissection. *Int J Cardiol* 258: 232-236, 2018.
2. Mochizuki K, Imamura H, Iwashita T, et al: Neurological outcomes after extracorporeal cardiopulmonary resuscitation in patients with out-of-hospital cardiac arrest: a retrospective observational study in a rural tertiary care center. *J Intensive Care* 2: 33, 2014.
3. Nitta K, Okamoto K, Imamura H, et al: A comprehensive protocol for ventilator weaning and extubation: a prospective observational study. *J Intensive Care* 6: 5(2019), 2019.

### **Comprehensive Cancer Therapy**

1. Dufva O, Kankainen M, Kelkka T, et al: Aggressive natural killer-cell leukemia mutational landscape and drug profiling highlight JAK-STAT signaling as therapeutic target. *Nat Commun* 9 (1): 1567, 2018.
2. Kawakami T, Sekiguchi N, Kobayashi J, et al: Frequent STAT3 mutations in CD8<sup>+</sup> T cells from patients with pure red cell aplasia. *Blood Adv* 2(20): 2704-2712, 2018.
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