

Key Research Papers in Medicine, Shinshu University 2022

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: Relationship between inferior fascicle of anterior talofibular ligament and articular capsule in lateral ankle ligament complex. *Surg Radiol Anat* 44: 253-259, 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: β -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 Ca²⁺ channels through β -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⁺CD25⁺ 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.

3. 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

1. 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.
2. 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.
3. 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

1. Hasegawa K, Toubou H, Tsukahara T, et al: Short-Term Associations of Ambient Fine Particulate Matter (PM 2.5) with All-Cause Hospital Admissions and Total Charges in 12 Japanese Cities. *Int J Environ Res Public Health* 18: 4116, 2021.
2. Tsukahara T, Fujimori A, Misawa Y, et al: The Preventive Effect of Lactoferrin-Containing Yogurt on Gastroenteritis in Nursery School Children-Intervention Study for 15 Weeks. *Int J Environ Res Public Health* 17: 2534, 2020.
3. Motoki N, Inaba Y, Shibasaki T, et al: Maternal exposure to housing renovation during pregnancy and risk of offspring with congenital malformation: The Japan Environment and Children's Study. *Sci Rep* 9: 11564, 2019.

Legal Medicine

1. 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.
2. 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.
3. 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

1. Kobayashi H, Tohyama S, Kanazawa H, et al: Intracoronary transplantation of pluripotent stem cell-derived cardiomyocytes: Inefficient procedure for cardiac regeneration. *J Mol Cell Cardiol* 174: 77-87, 2022.
2. Shiba Y, Gomibuchi T, Seto T, et al: Allogeneic transplantation of iPS cell-derived cardiomyocytes regenerates primate hearts. *Nature* 538: 388-391, 2016.
3. 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. 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.
2. 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.
3. Nishie K, Yamamoto S, Yamaga T, et al: Peripherally acting μ -opioid antagonist for the treatment of opioid-induced constipation: Systematic review and meta-analysis. *J Gastroenterol Hepatol* 34: 818-829, 2019.

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/Ca²⁺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. Itagaki T, Motoki H, Otagiri, et al: Inflammation-based assessment for the risk stratification of mortality in patients with heart failure. *Sci Rep* 11: 14989, 2021.
3. Sunohara D, Miura T, Komatsu T, et al: Relationship between the flood disaster caused by the Reiwa first year east Japan typhoon and cardiovascular and cerebrovascular events in Nagano City: The SAVE

trial. *J Cardiol* 78: 447-455, 2021.

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. Kobayashi M, Sugiyama N, Sasayama D, et al: Sex differences in the serum level of endogenous ligands for estrogen receptor β in the elderly population. *Sci Rep* 6: 25878, 2016.
3. Sasayama D, Kudo T, Kaneko W, et al: Brief Report: Cumulative Incidence of Autism Spectrum Disorder Before School Entry in a Thoroughly Screened Population. *J Autism Dev Disord* 51: 1400-1405, 2021.

Pediatrics

1. Honma H, Nakayama Y, Kato S, et al: Clinical features of Helicobacter pylori antibody-positive junior high school students in Nagano Prefecture, Japan. *Helicobacter* 24: e12559, 2019.
2. Motoki N, Inaba Y, Shibazaki T, et al: Maternal Exposure to Housing Renovation During Pregnancy and Risk of Offspring with Congenital Malformation: The Japan Environment and Children's Study. *Sci Rep* 9: 11564, 2019.
3. Yanagaisawa R, Matsuda K, Ohga S, et al. Factors predicting the recurrence of Epstein-Barr virus-associated hemophagocytic lymphohistiocytosis in children after treatment using the HLH-2004 protocol. *Int J Hematol* 109: 612-617, 2019.

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 gadoteric 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. Ohno Y, Mita A, Ikegami T, et al: Temporary auxiliary partial orthotopic liver transplantation using a

- small graft for familial amyloid polyneuropathy. *Am J Transplant* 12: 2211-2219, 2012.
2. Shimizu A, Kobayashi A, Yokoyama T, et al: Correlation between the serum levels of type IV collagen 7s domain and the risk of intractable ascites following liver resection for hepatocellular carcinoma: A propensity score-matched analysis. *Surgery* 160: 1244-1255, 2016.
 3. Kitazawa M, Hida S, Fujii C, et al: ASC Induces Apoptosis via Activation of Caspase-9 by Enhancing Gap Junction-Mediated Intercellular Communication. *PLoS One* 12: e0169340, 2017.

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. Miura K, Shimizu K, Ide S, et al: A Novel Strategy for the Diagnosis of Pulmonary High-Grade Neuroendocrine Tumor. *Diagnostics* 11: 1945, 2021.

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. Goto T, Hongo K, Ogiwara T, et al: Intelligent Surgeon's Arm Supporting System iArmS in Microscopic Neurosurgery Utilizing Robotic Technology. *World Neurosurg* 119: e661-e665, 2018.
2. Horiuchi T, Ichinose S, Agata M, et al: STA-ACA bypass using the ipsilateral free STA graft as an interposition graft and A3-A3 anastomosis for treatment of bilateral ACA steno-occlusive ischemia. *Acta Neurochir (Wien)* 160: 779-782, 2018.
3. Ogiwara T, Goto T, Hara Y, et al: Real-Time Navigation-Guided Drilling Technique for Skull Base Surgery in the Middle and Posterior Fossae. *J Neurol Surg B Skull Base* 79 (Suppl 4): S334-S339, 2018.

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. Minagawa T, Oguchi T, Saitou T, et al: Impact of low-dose tadalafil on adverse events after low-dose-rate brachytherapy for prostate cancer: A bi-center randomized open-label trial. *Int J Urol* 28: 432-438, 2021.
3. Suzuki T, Minagawa T, Saito T, et al: Effect of oxybutynin patch versus mirabegron on nocturia-related quality of life in female overactive bladder patients: A multicenter randomized trial. *Int J Urol* 28: 944-949, 2021.

Ophthalmology

1. Hirano T, Toriyama Y, Takamura Y, et al: Outcomes of a 2-year treat-and-extend regimen with aflibercept for diabetic macular edema. *Sci Rep* 11: 4488, 2021.
2. Kakihara S, Hirano T, Matsuda Y, et al: Deposits on Retinal Surface Seen on OCT in Ocular Amyloidosis. *Ophthalmol Retina* 5: 1005-1008, 2021.
3. Chiku Y, Hirano T, Takahashi Y, et al: Evaluating posterior vitreous detachment by widefield 23-mm swept-source optical coherence tomography imaging in healthy subjects. *Sci Rep* 11: 19754, 2021.

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 β 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, Kondoh S, Noguchi M, et al: Aesthetic outcomes following adipose flap versus fillet flap technique for radial polydactyly: a comparison study. *J Hand Surg Eur* 46: 378-383, 2021.
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. Yuzuriha S, Nagai F, Noguchi M: How to manage disfiguring scars in involuted infantile hemangioma. *Adv Wound Care* 8: 221-229, 2019.

Laboratory Medicine

1. Iwaya M, Hayashi H, Nakajima T, et al: Colitis-associated colorectal adenocarcinomas frequently express claudin 18 isoform 2: implications for claudin 18.2 monoclonal antibody therapy. *Histopathology* 79: 227-237, 2021.
2. Usami Y, Sugano M, Uehara T, et al: Cut-off values of serum IgG4 among three reagents, including a novel IgG4 reagent: a multicenter study. *Sci Rep* 11: 7280, 2021.
3. Konno S, Yanagisawa R, Motoki N, et al: Predictive factors of poor blood collecting flow during leukocyte apheresis for cellular therapy. *Ther Apher Dial* 25: 1001-1011, 2021.

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⁺ T cells from patients with pure red cell aplasia. *Blood Adv* 2(20): 2704-2712, 2018.
3. Koizumi T, Otsuki K, Tanaka Y, et al: National incidence and initial therapy for thymic carcinoma in Japan: based on analysis of hospital-based cancer registry data, 2009-2015. *Jpn J Clin Oncol* 50(4): 434-439, 2020.

Child and Adolescent Developmental Psychiatry

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