

Key Research Papers in Medicine, Shinshu University 2019

Aging Biology

1. Xu Z, Huo J, Ding X, et al: Coenzyme Q10 Improves Lipid Metabolism and Ameliorates Obesity by Regulating CaMKII-Mediated PDE4 Inhibition. *Sci Rep* 7: 8253, 2017.
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.

Metabolic Regulation

1. Tanaka N, Aoyama T, Kimura S, et al: Targeting nuclear receptors for the treatment of fatty liver disease. *Pharmacol Ther* 179: 142-157, 2017.
2. Tanaka N, Moriya K, Kiyosawa K, et al: PPARalpha activation is essential for HCV core protein-induced hepatic steatosis and hepatocellular carcinoma in mice. *J Clin Invest* 118: 683-694, 2008.
3. Hu R, Li G, Kamijo Y, et al: Serum sulfatides as a novel biomarker for cardiovascular disease in patients with end-stage renal failure. *Glycoconj J* 24: 565-571, 2007.

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. Uchida K, Kamijo Y, Ikegawa S, et al: Interval walking training and nutritional intake to increase plasma volume in elderly. *Med Sci Sports Exerc* 50: 151-158, 2018.
2. Tanabe A, Masuki S, Nemoto K, et al: Seasonal influence on adherence to and effects of an interval walking training program on sedentary female college students in Japan. *Int J Biometeorol* 62: 634-654, 2018.
3. Suzuki H, Masuki S, Morikawa A, et al: Effects of 5-aminolevulinic acid supplementation on

home-based walking training achievement in middle-aged depressive women: randomized, double-blind, crossover pilot study. *Sci Rep* 8: 7151, 2018.

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. 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.
2. Kuroiwa M, Fukushima N, Yokouchi K, et al: Morphological analysis of regenerated bulbar fibers in relation to neonatal olfaction. *Brain Res Bull* 127: 66-73, 2016.
3. Karasawa M, Yokouchi K, Kakegawa A, et al: Effect of graded nerve pressure injuries on motor function. *J Neurosurg* 122: 1438-1443, 2015.

Molecular Pathophysiology

1. Kakino A, Fujita Y, Sawamura T, et al: Developmental endothelial locus-1 (Del-1) inhibits oxidized low-density lipoprotein activity by direct binding, and its overexpression attenuates atherogenesis in mice. *Circ J* 80: 2541-2549, 2016.
2. Sawamura T, Kakino A, Fujita Y. LOX-1: a multiligand receptor at the crossroads of response to danger signals. *Curr Opin Lipidol* 23: 439-445, 2012.
3. Sawamura T, Kume N, Masaki T, et al: An endothelial receptor for oxidized low-density lipoprotein. *Nature* 386: 73-77, 1997.

Molecular Cellular Physiology

1. Mori T, Kasem EA, Suzuki-Kouyama E, et al: Deficiency of calcium/calmodulin-dependent serine protein kinase disrupts the excitatory-inhibitory balance of synapses by down-regulating GluN2B. *Mol Psychiatry* 24: 1079-1092, 2019.
2. Anderson GR, Aoto J, Tabuchi K, et al: β -Neurexins Control Neural Circuits by Regulating Synaptic Endocannabinoid Signaling. *Cell* 162: 593-606, 2015.
3. Aoto J, Martinelli DC, Malenka RC, et al: Presynaptic neurexin-3 alternative splicing trans-synaptically controls postsynaptic AMPA receptor trafficking. *Cell* 154: 75-88, 2013.

Biochemistry and Molecular Biology

1. Hiratsuka S, Tomita T, Mishima T, et al: High KA, Maru Y: Hepato-entrained B220+CD11c+NK1.1+ cells regulate pre-metastatic niche formation in the lung. *EMBO Mol Med* 10: e8643-e8643, 2018.

Molecular Pharmacology

1. Kashihara T, Nakada T, Kojima K, et al: Angiotensin II activates CaV1.2 Ca²⁺ channels through

- beta-arrestin2 and casein kinase 2 in mouse immature cardiomyocytes. *J Physiol* 595: 4207-4225, 2017.
2. Guo X, Kashihara T, Nakada T, et al: PDGF-induced migration of synthetic vascular smooth muscle cells through c-Src-activated L-type Ca²⁺ channels with full-length CaV1.2 C-terminus. *Pflugers Arch* 470: 909-921, 2018.
 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. Tateishi A, Ohira S, Yamamoto Y, et al: Histopathological findings of the pregnancy-induced hypertension: histopathology of early-onset type reflects two-stage disorder theory. *Virchows Arch* 472: 635-642, 2018.
2. 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.
3. Yamamoto Y, Saito A, Tateishi A, et al: Quantitative diagnosis of breast tumors by morphometric classification of microenvironmental myoepithelial cells using a machine learning approach. *Sci Rep* 7: 46732, 2017.

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. Ichikawa E, Hida S, Omatsu Y, et al: Defective development of splenic and epidermal CD4⁺ dendritic cells in mice deficient for interferon regulatory factor-2. *Proc Natl Acad Sci USA* 101: 3909-3914, 2004.

2. Hida S, Tadachi M, Saito T, et al: Negative control of basophil expansion by IRF-2 critical for the regulation of Th1/Th2 balance. *Blood* 106: 2011-2017, 2005.
3. Hida S, Yamasaki S, Sakamoto Y, et al: Fc receptor γ -chain, a constitutive component of the IL-3 receptor, is required for IL-3-induced IL-4 production in basophils. *Nature Immunol* 10: 214-222, 2009.

Medical Genetics

1. 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.
2. Shimizu K, Wakui K, Kosho T, et al: Microarray and FISH-based genotype-phenotype analysis of 22 Japanese patients with Wolf-Hirschhorn syndrome. *Am J Med Genet A* 164A: 597-609, 2014.
3. Takano K, Shiba N, Wakui K, et al: Elevation of neuron specific enolase and brain iron deposition on susceptibility-weighted imaging as diagnostic clues for beta-propeller protein-associated neurodegeneration in early childhood: Additional case report and review of the literature. *Am J Med Genet A* 170A: 322-328, 2016.

Preventive Medicine and Public Health

1. Motoki M, Inaba Y, Shibasaki T, et al: The Japan Environment & Children's Study (JECS) Group. 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.
2. Tsukahara T, Arai H, Kamijo T, et al: The Relationship between Attitudes toward Suicide and Family History of Suicide in Nagano Prefecture, Japan. *Int J Environ Res Public Health* 13: E623, 2016.
3. Tsukahara T, Miyauchi H, Kuwada D, et al: Control Banding Assessment of Exposure of Offset Printing Workers to Organic solvents. *J Occup Health* 58: 314-319, 2016.

Legal Medicine

1. Takahashi F, Kobayashi M, Kobayashi A, et al: High-Frequency Heating Extraction Method for Sensitive Drug Analysis in Human Nails. *Molecules* 23: E3231, 2018.
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 Medicine

1. Ogasawara T, Okano S, Ichimura H, et al: Impact of extracellular matrix on engraftment and maturation of pluripotent stem cell-derived cardiomyocytes in a rat myocardial infarct model. *Sci Rep* 7: 8630, 2017.
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. Yamamoto H, Yasuo M, Ito M, et al: Clinical features of central airway involvement in autoimmune pancreatitis. *Eur Respir J* 38: 1233-1236, 2011.
2. Agatsuma T, Koizumi T, Kanda S, et al: Combination chemotherapy with doxorubicin, vincristine, cyclophosphamide, and platinum compounds for advanced thymic carcinoma. *J Thorac Oncol* 6: 2130-2134, 2011.
3. Hanaoka M, Droma Y, Chen Y, et al: Carbocysteine protects against emphysema induced by cigarette smoke extract in rats. *Chest* 139: 1101-1108, 2011.

Internal Medicine 2 (Gastroenterology, Nephrology and Hematology)

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: 1567, 2018.
2. Hara Y, Sonoda K, Hashimoto K, et al: Influence of arteriovenous fistula on daily living behaviors involving the upper limbs in hemodialysis patients: a cross-sectional questionnaire study. *BMC Nephrol* 19: 284, 2018.
3. Joshita S, Umemura T, Usami Y, et al: Serum Autotaxin Is a Useful Disease Progression Marker in Patients with Primary Biliary Cholangitis. *Sci Rep* 8: 8159, 2018.

Internal Medicine 3 (Neurology and Rheumatology)

1. 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.
2. Benson MD, Buxbaum JN, Eisenberg DS, et al: Amyloid nomenclature 2018: recommendations by the International Society of Amyloidosis (ISA) nomenclature committee. *Amyloid* 25: 215-219, 2018.
3. Maurer MS, Schwartz JH, Gundapaneni B, et al: Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy. *N Engl J Med* 379: 1007-1016, 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. Miura T, Miyashita Y, Soga Y, et al: Drug-Eluting Versus Bare-Metal Stent Implantation with or without Cilostazol in the Treatment of the Superficial Femoral Artery. *Circ Cardiovasc Interv* 11: e006564, 2018.
2. Minamisawa M, Koyama J, Kozuka A, et al: Duration of myocardial early systolic lengthening for

diagnosis of coronary artery disease. *Open Heart* 5: e000896, 2018.

3. Nishimura A, Shimauchi T, Tanaka T, et al: Hypoxia-induced interaction of filamin with Drp1 causes mitochondrial hyperfission-associated myocardial senescence. *Sci Signal* 11: eaat5185, 2018.

Psychiatry

1. Kito H, Ryokawa A, Kinoshita Y, et al: Comparison of alterations in cerebral hemoglobin oxygenation in late life depression and Alzheimer's disease as assessed by near-infrared spectroscopy. *Behav Brain Funct* 10: 8, 2014.
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, Hattori K, Ogawa S, et al: Genome-wide quantitative trait loci mapping of the human cerebrospinal fluid proteome. *Hum Mol Genet* 26(1): 44-51, 2017.

Pediatrics

1. Morita D, Nishio N, Saito S, et al: Enhanced expression of anti-CD19 chimeric antigen receptor in piggyBac transposon-engineered T cells. *Mol Ther Methods Clin Dev* 8: 131-140, 2017.
2. Nakazawa Y, Matsuda K, Kurata T, et al: Anti-proliferative effects of T cells expressing a ligand-based chimeric antigen receptor against CD116 on CD34(+) cells of juvenile myelomonocytic leukemia. *J Hematol Oncol* 9: 27, 2016.
3. Saito S, Nakazawa Y, Sueki A, et al. Anti-leukemic potency of piggyBac-mediated CD19-specific T cells against refractory Philadelphia chromosome-positive acute lymphoblastic leukemia. *Cytotherapy* 16: 1257-1269, 2014.

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, Kuniwa 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. 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, Division of General Thoracic Surgery, Division of Breast and Endocrine Surgery)

1. Okada T, Nakamura T, Watanabe T, et al: Coexpression of EpCAM, CD44 variant isoforms and claudin-7 in anaplastic thyroid carcinoma. *PLoS One* 9(4): e94487, 2014.
2. Iesato A, Nakamura T, Izumi H, et al: PATZ1 knockdown enhances malignant phenotype in thyroid epithelial follicular cells and thyroid cancer cells. *Oncotarget* 8(47): 82754-82772, 2017.
3. Oba T, Ito K: Combination of two anti-tubulin agents, eribulin and paclitaxel, enhances anti-tumor effects on triple-negative breast cancer through mesenchymal-epithelial transition. *Oncotarget* 9(33): 22986-23002, 2018.

Orthopedic Surgery

1. Saito N, Haniu H, Usui Y, et al: Safe clinical use of carbon nanotubes as innovative biomaterials. *Chem Rev* 114: 6040-6079, 2014.
2. Takahashi J, Hirabayashi H, Hashidate H, et al: Accuracy of multilevel registration in image-guided pedicle screw insertion for adolescent idiopathic scoliosis. *Spine (Phila Pa 1976)* 35: 347-352, 2010.
3. Nakamura K, Hirachi K, Uchiyama S, et al: Long-term clinical and radiographic outcomes after open reduction for missed Monteggia fracture-dislocations in children. *J Bone Joint Surg Am* 91: 1394-1404, 2009.

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. Yamada S, Otsuru M, Yanamoto S, et al: Progression level of extracapsular spread and tumor budding for cervical lymph node metastasis of OSCC. *Clin Oral Investig* 22: 1311-1318, 2018.
2. Yamada S, Kurita H, Kamata T, et al: Significant prognostic factors affecting treatment outcomes of salivary gland carcinoma: a multicenter retrospective analysis. *Odontology* 106: 96-102, 2018.
3. Outa R, Yamada S, Nrase T, et al: Treatment outcomes after articular eminectomy in patients with

long-standing/habitual temporomandibular joint dislocation. *J Oral Maxillofac Surg Med Pathol* 30: 238-240, 2018.

Urology

1. Imamura T, Shimamura M, Ogawa T, et al: Biofabricated structures reconstruct functional urinary bladders in radiation -injured rat bladders. *Tissue Eng Part A* 24: 1574-1587, 2018.
2. Masaki K, Sakai M, Kuroki S, et al: FGF2 has distinct molecular functions from GDNF in the mouse germline niche. *Stem Cell Reports* 10(6): 1782-1792, 2018.
3. Minagawa T, Gotoh M, Yokoyama O, et al: Therapeutic effect of propiverine hydrochloride on mixed-type urinary incontinence in women: The Female Urgency and Stress Urinary Incontinence Study of Propiverine Hydrochloride trial. *Int J Urol* 25(5): 486-491, 2018.

Ophthalmology

1. Hirano T, Kakihara S, Toriyama Y, et al: Wide-field en face swept-source optical coherence tomography angiography using extended field imaging in diabetic retinopathy. *Br J Ophthalmol* 102: 1199-1203, 2018.
2. Hirano T, Toriyama Y, Iesato Y, et al: Changes in plasma vascular endothelial growth factor level after intravitreal injection of ranibizumab, aflibercept, or bevacizumab for diabetic macular edema. *Retina* 38: 1801-1808, 2018.
3. Hirano T, Chanwimol K, Weichsel J, et al: Distinct Retinal Capillary Plexuses in Normal Eyes as Observed in Optical Coherence Tomography Angiography Axial Profile Analysis. *Sci Rep* 8: 9380, 2018.

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. Nakajima Y, Yuzuriha S, Nagai F, et al: Oronasal Transfixion Suture to Prevent Uplifted Nasal Floor Deformity in Cleft Lip and Palate Patients: A 5-Year Follow-Up. *Cleft Palate Craniofac J* 56: 390-394, 2019.
2. Nishioka H, Kondoh S, Yuzuriha S: Convex bone deformity after closed reduction of nasal bone fracture. *J Plast Reconstr Aesthet Surg* 71: 85-89, 2018.
3. Yuzuriha S, Matsuo K, Fujita K: Lateral vermilion border transposition flap to correct vermilion deformities with unilateral or bilateral cleft lip. *J Plast Surg Hand Surg* 47: 118-122, 2013.

Laboratory Medicine

1. Honda T, Uehara T, Matsumoto G, et al: Neutrophil left shift and white blood cell count as markers of bacterial infection. *Clin Chim Acta* 457: 46-53, 2016.
2. Kinugawa Y, Uehara T, Matsuda K, et al: Promoter hypomethylation of SKI in autoimmune pancreatitis. *Pathol Res Pract* 214: 492-497, 2018.
3. Shimodaira T, Matsuda K, Uchibori T, et al: Upregulation of osteopontin expression via the interaction of macrophages and fibroblasts under IL-1 β stimulation. *Cytokine* 110: 63-69, 2018.

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 Int Care* 2: 33, 2014.
3. Kikuchi T, Toba S, Sekiguchi Y, et al: Protocol-based noninvasive positive pressure ventilation for acute respiratory failure. *J Anesth* 25: 42-49, 2011.

Comprehensive Cancer Therapy

1. Fukushima T, Wakatsuki Y, Kobayashi T, et al: Phase II study of cisplatin/pemetrexed combined with bevacizumab followed by pemetrexed/bevacizumab maintenance therapy in patients with EGFR-wild advanced non-squamous non-small cell lung cancer. *Cancer Chemother Pharmacol* 81(6): 1043-1050, 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. Yanagisawa R, Koizumi T, Koya T, et al: WT1-pulsed Dendritic Cell Vaccine Combined with

Chemotherapy for Resected Pancreatic Cancer in a Phase I Study. *Anticancer Res* 38(4): 2217-2225, 2018.

Infection and Host Defense

1. Moroda M, Takamoto M, Iwakura Y, et al: Interleukin-17A-Deficient Mice Are Highly Susceptible to Toxoplasma gondii Infection Due to Excessively Induced T. gondii HSP70 and Interferon Gamma Production. *Infect Immun* 85: e00399-17, 2017.
2. Desamero MJ, Kakuta S, Chambers JK, et al: Orally administered brown seaweed-derived β -glucan effectively restrained development of gastric dysplasia in A4gnt KO mice that spontaneously develop gastric adenocarcinoma. *Int Immunopharmacol* 60211: 220, 2018.
3. Piao LX, Cheng JH, Aosai F, et al: Cellular immunopathogenesis in primary Toxoplasma gondii infection during pregnancy. *Parasite Immunol* 40: e12570, 2018.

Brain Disease Research

1. Yamada M, Toyoshima Y, Makifuchi T, et al: Spinocerebellar degeneration: Discrepancies between clinical and pathological diagnoses. *Neuropathology* 36: 405-410, 2016.
2. Oyanagi K, Kinoshita M, Suzuki-Kouyama E, et al: Adult onset leukoencephalopathy with axonal spheroids and pigmented glia (ALSP) and Nasu-Hakola disease: Lesion staging and dynamic changes of axons and microglial subset. *Brain Pathol* 27: 748-769, 2017.
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Innovation of Medical & Health Science Research

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