

The Research Outputs of the fiscal year of 2024

Center for Metabolic Regulation of Healthy Aging (CMHA), Faculty of Life Sciences, Kumamoto University

● Division of Metabolic and Cardiovascular Research

1) Department of Medical Biochemistry

1. Yamagata K, Mizumoto T, Yoshizawa T: The emerging role of SIRT7 in glucose and lipid metabolism. *Cells* 13: 48, 2024
2. Yamagata K, Tsuyama T, Sato Y: Roles of β -cell hypoxia in the pathogenesis of type 2 diabetes. *Int. J. Mol. Sci.* 25: 4186, 2024
3. Fukuda K, Haneda M, Kubota N, Araki E, Yamagata K: Age-related glucose intolerance is associated with impaired insulin secretion in community-dwelling Japanese adults: The Kumamoto Koshi Study. *Biomedicines* (in press)
4. Kibria MG, Yoshizawa T, Zhang T, Ono K, Mizumoto T, Sato Y, Sawa T, Yamagata K.: SIRT7 Is a Lysine Deacylase with a Preference for Depropionylation and Demyrystoylation. *Int. J. Mol. Sci.* 2025, 26(7), 3153.

2) Department of Molecular Genetics

1. Sato M, Kadomatsu T, Morinaga J, Kinoshita Y, Torigoe D, Horiguchi H, Ohtsuki S, Yamamura S, Kusaba R, Yamaguchi T, Yoshioka G, Araki K, Wakayama T, Miyata K, Node K, Oike Y: HINT1 suppression protects against age-related cardiac dysfunction by enhancing mitochondrial biogenesis. *Mol Metab*, 2025 in press
2. Sato M, Torigoe D, Kinoshita Y, Cyuman M, Toda C, Sato M, Ikeda K, Kadomatsu T, Horiguchi H, Morinaga J, Fukami H, Sugizaki T, Miyata K, Kusaba R, Okadome Y, Matsunaga E, Node K, Oike Y: Long-term intake of Tamogi-take mushroom (*Pleurotus cornucopiae*) mitigates age-related cardiovascular dysfunction and extends healthy life expectancy. *npj Aging* 11: 1, 2025
3. Horiguchi H, Kadomatsu T, Oike Y: The two faces of Angiopoietin-like protein 2 in cancer. *Cancer Sci*, 2024 Online ahead of print

4. Horiguchi H, Kadomatsu T, Yamashita T, Yumoto S, Horino T, Sato M, Terada K, Miyata K, Ichigozaki Y, Kimura T, Fukushima S, Moroishi T, Oike Y: Tumor stroma-derived ANGPTL2 potentiates immune checkpoint inhibitor efficacy.
Cancer Gene Ther 31: 933–940, 2024
5. Horino T, Horiguchi H, Yumoto Y, Kadomatsu T, Hara Y, Yagi T, Baba Y, Miyamoto Y, Baba H, Oike: Angiopoietin-like protein 2 expression in tumor cells supports tumor-associated macrophage-induced tumor progression in esophageal cancer.
Ann Surg Oncol 31: 7693–7704, 2024
6. Yumoto S, Horiguchi H, Kadomatsu T, Horino T, Sato M, Terada K, Miyata K, Moroishi T, Baba H, Oike Y: Host ANGPTL2 establishes an immunosuppressive tumor microenvironment and resistance to immune checkpoint therapy.
Cancer Sci 115: 3846–3858, 2024
7. Yamashita T, Horiguchi H, Kadomatsu T, Sato M, Moroishi T, Oike Y: Immunotherapy-induced reprogramming of cancer-associated fibroblasts can promote tumor progression.
Genes Cells 29: 1275–1283, 2024
8. Terada K, Endo M, Kiyonari H, Takeda H, Oike Y: Loss of Dj2 accompanies pH deviation in lysosomes and lysosome-related organelles.
J Cell Physiol 239: e31174, 2024
9. Tang J, Funasaki S, Nishizawa H, Kuroda S, Motoshima T, Wu C, Mawas S A, Satou Y, Arima Y, Hasumi H, Jikuya R, Makiyama K, Oike Y, Tanaka Y, Baba M, Kamba T: ARID2 deficiency enhances tumor progression via ERBB3 signaling in TFE3-rearranged renal cell carcinoma. *Curr Issues Mol Biol* 46: 13675–13695, 2024

3) Department of Metabolic Medicine

1. Sasako T, Suzuki K, Odawara S, Suwanai H, Akuta N, Kubota N, Ueki K, Kadowaki T, Yamauchi T. Corticosteroid-triggered acute skeletal muscle loss in lipodystrophy: A case report.
J. Diabetes Investig. 15:782-785, 2024.
2. Hasegawa S, Nangaku M, Takenaka Y, Kitayama C, Li Q, Saipidin M, Hong YA, Shang J, Hirabayashi Y, Kubota N, Kadowaki T, Inagi R. Organelle communication maintains mitochondrial and endosomal homeostasis during podocyte lipotoxicity.

JCI Insight. 9:e182534, 2024.

3. Sakurai Y, Kubota N*, Takamoto I, Wada N, Aihara M, Hayashi T, Kubota T, Hiraike Y, Sasako T, Nakao H, Aiba A, Chikaoka Y, Kawamura T, Kadowaki T, Yamauchi T*. Overexpression of UBE2E2 in mouse pancreatic β -cells leads to glucose intolerance via reduction of the β -cell mass. *Diabetes* 73: 474-489, 2024 (*co-corresponding authors).
4. Tanemura N, Kubota T, Kubota N, Chiba T. Relationship between body adiposity parameters and insulin resistance: a preliminary study of surrogate markers in Japan. *Hormones (Athens)* 23:457-466, 2024.
5. Jinnouchi H, Yoshida A, Taniguchi M, Yamauchi E, Kurosawa D, Yachiku K, Minoura I, Kadowaki T, Yamauchi T, Aihara M, Kubota N, Sekimizu K. Efficacy of Self-Review of Lifestyle Behaviors with Once-Weekly Glycated Albumin Measurement in People with Type 2 Diabetes: A Randomized Pilot Study. *Diabetes Ther.* 15:1561-1575, 2024.
6. Sakurai Y, Kubota N, Kadowaki T. Dissociating the metabolic and tumor-suppressive activity of p53. *Trends Endocrinol Metab.* S1043-2760, 2024.
7. Kubota N*, Kubota T, Kadowaki T. Physiological and pathophysiological actions of insulin in the liver. *Endocr J.* in press, 2024 (*corresponding author).
8. Hamano S, Sawada M, Aihara M, Sakurai Y, Sekine R, Usami S, Kubota N*, Yamauchi T. Ultra-processed foods cause weight gain and increased energy intake associated with reduced chewing frequency: A randomized, open-label, crossover study. *Diabetes Obes. Metab.* 26:5431-5443, 2024 (*corresponding author).
9. Aihara M, Yano K, Irie T, Nishi M, Yachiku K, Minoura I, Sekimizu K, Sakurai Y, Kadowaki T, Yamauchi T, Kubota N*. Salivary glycated albumin could be as reliable a marker of glycemic control as blood glycated albumin in people with diabetes. *Diabetes Res. Clin. Pract.* 218:111903, 2024 (*corresponding author).
10. Okagawa S, Sakaguchi M, Okubo Y, Takekuma Y, Igata M, Kondo T, Takeda N, Araki K,

Brandao BB, Qian WJ, Tseng YH, Kulkarni RN, Kubota N, Kahn CR, Araki E. Hepatic SerpinA1 improves energy and glucose metabolism through regulation of preadipocyte proliferation and UCP1 expression.

Nat Commun. 15:9585, 2024.

11. Kondo T, Senokuchi T, Morinaga J, Miyashita A, Yano M, Takeda H, Nishida K, Kubota N. The benefits and accuracy of real-time continuous glucose monitoring in children and adolescents with type 1 diabetes attending a summer camp.

J. Diabetes Investig. 16:154-162, 2025.

12. Kitai Y, Toriu N, Yoshikawa T, Sahara Y, Kinjo S, Shimizu Y, Sato Y, Oguchi A, Yamada R, Kondo M, Uchino E, Taniguchi K, Arai H, Sasako T, Haga H, Fukuma S, Kubota N, Kadowaki T, Takasato M, Murakawa Y, Yanagita M. Female sex hormones inversely regulate acute kidney disease susceptibility throughout life.

Kidney Int. 107:68-83, 2025.

13. Kadowaki Y, Aoyama T, Hada Y, Aihara M, Sawada M, Sekine R, Itoh H, Kadowaki T, Kubota N*, Yamauchi T*. Effects of rapid weight loss on the body composition and pathophysiological mechanisms involved in obesity.

Endocr J. in press, 2024 (*co-corresponding author).

14. Hamano S, Sawada M, Kubota N*. Reply to the Letters by Louie and Pereira et al.

Diabetes Obes. Metab. in press, 2024 (*corresponding author).

15. Wada T, Senokuchi T, Shi Y, Furusho T, Morita Y, Sarie M, Hanatani S, Fukuda K, Ishii N, Matsumura T, Fujiwara Y, Komohara Y, Araki E, Kubota N. Orally administrated acetate inhibits atherosclerosis progression through AMPK activation via GPR43 in plaque macrophages.

Atherosclerosis in press, 2024.

4) Department of Cardiovascular Medicine

1. Usuku H, Yamamoto E, Miyazaki H, Higashi R, Nozuhara A, Oike F, Kuyama N, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Sueta D, Arima Y, Oda S, Kawano H, Matsuzawa Y, Izumiya Y, Ueda M, Tanaka Y, Tsujita K. Clinical significance of the estimation of pulmonary-right ventricular uncoupling in patients with transthyretin amyloid cardiomyopathy. *Eur Heart J Imaging Methods Pract.* 3(1):qyae, 2025

2. Usuku H, Ymamamoto E, Higashi R, Nozuhara A, Shirahama Y, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Arima Y, Kawano H, Izumiya Y, Tanaka Y, Tsujita K. Prognostic

value of left atrial stiffness in patients undergoing transcatheter aortic valve implantation. *Int J Cardiol Heart Vasc.* (in Press), 2024

3. Kuyama N, Izumiya Y, Takashio S, Usuku H, Tabira A, Oguni T, Yamamoto M, Hirakawa K, Ishii M, Tabata N, Hoshiyama T, Kanazawa H, Hanatani S, Kidoh M, Oda S, Matsuzawa Y, Yamamoto E, Hirai T, Ueda M, Tsujita K. Long-Term Effect of Tafamidis on Clinical Parameters and Prognostic Predictors in Patients with Transthyretin Amyloid Cardiomyopathy. *Circ J.* (in Press), 2024
4. Usuku H, Oike F, Kuyama N, Hirakawa K, Takashio S, Izumiya Y, Tsujita K. Echocardiographic findings of patients with transthyretin amyloid cardiomyopathy. *J Echocardiogr.* (in Press), 2024
5. Ikebe S, Yamamoto M, Ishii M, Yamamoto E, Tsujita K. Managing heart failure with reduced ejection fraction merged with myocardial infarction with non-obstructive coronary arteries: a case report. *Eur Heart J Case Rep.* 8(10):ytac540, 2024
6. Kuyama N, Araki S, Kaikita K, Nakanishi N, Nakashima N, Hanatani S, Arima Y, Yamamoto M, Nakamura T, Yamamoto E, Matsushita K, Matsui K, Tsujita K. Mineralocorticoid Receptor Blocker Prevents Mineralocorticoid Receptor-Mediated Inflammation by Modulating Transcriptional Activity of Mineralocorticoid Receptor-p53-Signal Transducer and Activator of Transcription 3 Complex. *J Am Heart Assoc.* 13(18):e030941, 2024
7. Usuku H, Yamamoto E, Sakata K, Hirata S, Toda A, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Sueta D, Kanazawa H, Arima Y, Takashio S, Matsuzawa Y, Kawano H, Yasunaga JI, Tsujita K. Usefulness of platelet count to predict concomitant valvular heart disease in patients with systemic lupus erythematosus. *Int J Cardiol Heart Vasc.* 53:101420, 2024
8. Kuyama N, Takashio S, MD, Oguni T, Yamamoto M, Hirakawa K, Ishii M, Hanatani S, Oda S, Matsuzawa Y, Usuku H, Yamamoto E, Hirai T, Ueda M, and Tsujita K. Cardiac Biomarker Change at 1 Year after Tafamidis Treatment and Clinical Outcomes in Patients with Transthyretin Amyloid Cardiomyopathy. *J Am Heart Assoc.* 13(10): e034518, 2024
9. Oguni T, Takashio S, Kuyama N, Hirakawa K, Hanatani S, Oike F, Usuku H, Matsuzawa Y, Kidoh M, Oda S, Yamamoto E, Ueda M, Hirai T, Tsujita K. Clinical characteristics of patients with high extracellular volume fraction evaluated by cardiac computed tomography for coronary artery evaluation *Eur Heart J Open.* 4(3): ocae036, 2024
10. Usuku H, Yamamoto E, Sueta D, Shinriki R, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Arima Y, Takashio S, Kawano Y, Oda S, Kawano H, Ueda M, Tsujita K. A new staging system using right atrial strain in patients with immunoglobulin light-chain cardiac amyloidosis. *ESC Heart Fail.* 11(3):1612-1624, 2024
11. Yamamoto E, Usuku H, Sueta D, Suzuki S, Nakamura T, Matsui K, Matsushita K, Iwasaki T, Sakaino N, Sakanashi T, Hirayama K, Kurokawa H, Kikuta K, Yamamoto N, Sato K, Tokitsu T, Taguchi T, Shiosakai K, Sugimoto K, Tsujita K; ESES-LVH investigators. Efficacy and Safety of Esaxerenone in Hypertensive Patients with Left Ventricular Hypertrophy (ESES-LVH) Study: A

Multicenter, Open-Label, Prospective, Interventional Study. *Adv Ther.* 41(3):1284-1303, 2024

12. Okubo N, Sugawara S, Fujiwara T, Sakatsume K, Doman T, Yamashita M, Goto K, Tateishi M, Suzuki M, Shirakawa R, Eura Y, Kokame K, Hayakawa M, Matsumoto M, Kawate Y, Miura M, Takiguchi H, Soga Y, Shirai S, Ando K, Arai Y, Nakayoshi T, Fukumoto Y, Takahama H, Yasuda S, Tamura T, Watanabe S, Kimura T, Yaoita N, Shimokawa H, Saiki Y, Kaikita K, Tsujita K, Yoshii S, Nakase H, Fujimaki SI, Horiuchi H. von Willebrand factor Ristocetin co-factor activity to von Willebrand factor antigen level ratio for diagnosis of acquired von Willebrand syndrome caused by aortic stenosis. *Res Pract Thromb Haemost.* 8(1):102284, 2024
13. Prognostic Significance of Soluble PD-L1 on Cardiovascular Outcomes in Patients with Coronary Artery Disease
Miyazaki S, Fujisue K, Yamanaga K, Sueta D, Usuku H, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Takashio S, Arima Y, Araki S, Yamamoto E, Matsushita K, Tsujita K. *J Atheroscler Thromb.*
Mori S, Soejima H, Hokamaki J, Tsujita K. Clinical disease activity is a major determinant of plasma D-dimer elevation in outpatients with rheumatoid arthritis: A hospital-based cross-sectional study. *Mod Rheumatol.* 34(2):313-321.

5) Department of Cell Pathology

1. Etoh K, Araki H, Koga T, Hino Y, Kuribayashi K, Hino S, and Nakao M: Citrate metabolism controls the senescent microenvironment via the remodeling of pro-inflammatory enhancers. *Cell Rep.* 17: 114496, 2024. Accepted 27 June 2024, Available online 22 July 2024

6) Department of Nephrology

1. Ikushima A, Ishimura T, ...Yokoi H: Deletion of p38 MAPK in macrophages ameliorates peritoneal fibrosis and inflammation in peritoneal dialysis. *Sci Rep* 14: 21220, 2024.
2. Toda N, Komiya T,Yokoi H: Daily change of peritoneal ultrafiltration volume in patients with hybrid dialysis. *Ther Apher Dial* 29: 89-95, 2025
3. Yokoi H. Renal interstitial hydrostatic pressure: a culprit of pericyte detachment in renal congestion *Hypertens Res* 47: 553-555, 2024
4. Matsushita K, Nagayoshi Yu,Yokoi H: Rituximab as an effective treatment for new-onset Evans syndrome and systemic lupus erythematosus with lupus nephritis. *Intern Med*, in press

● Division of Cancer and Stem Cell Research

7) Department of Gastroenterological Surgery

1. Baba Y, Yasuda N, Bundo M, Nakachi Y, Ueda J, Ishimoto T, Iwatsuki M, Miyamoto Y, Yoshida N, Oshiumi H, Iwamoto K, Baba H: LINE-1 hypomethylation, increased retrotransposition and

tumor-specific insertion in upper gastrointestinal cancer. *Cancer Sci* 115:247-256, 2024

- 2 Horino T, Tokunaga R, Miyamoto Y, Akiyama T, Daitoku N, Sakamoto Y, Ohuchi M, Ogawa K, Yoshida N, Baba H: Extracellular water to total body water ratio, a novel predictor of recurrence in patients with colorectal cancer. *Ann Gastroenterol Surg* 8:98-106, 2024
- 3 Horinouchi T, Yoshida N, Shiraishi S, Hara Y, Matsumoto C, Toihata T, Kosumi K, Harada K, Eto K, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Baba H: Relationship between the severity of emphysematous change in the lung and morbidity after esophagectomy for esophageal cancer: A retrospective study on a novel strategy for risk prediction. *Thorac Cancer* 15:15-22, 2024
- 4 Kato M, Sawayama H, Komohara Y, Hisano Y, Nakamura H, Ohuchi M, Ogawa K, Miyamoto Y, Yoshida N, Baba H: Complete pathologic response after laparoscopic hepatectomy following treatment with nivolumab and ipilimumab for anticancer drug-resistant MSI-high colon cancer liver metastasis consisting of poorly differentiated adenocarcinoma with squamous differentiation: A case report. *Clin J Gastroenterol* 17:57-64, 2024
- 5 Kitano Y, Inoue Y, Sato Y, Oba A, Ono Y, Sato T, Ito H, Matsueda K, Baba H, Takahashi Y: Management of potential portal vein thrombus during laparoscopic right hemihepatectomy following portal vein embolization. *Langenbecks Arch Surg* 409:56, 2024
- 6 Kitano Y, Ono Y, Kobayashi K, Oba A, Sato T, Ito H, Inoue Y, Shinozaki E, Yamaguchi K, Saiura A, Baba H, Takahashi Y: Neoadjuvant chemotherapy for borderline resectable colorectal cancer liver metastases: a single-institution retrospective study. *HPB (Oxford)* 26:282-290, 2024
- 7 Li L, Kanemitsu K, Ohnishi K, Yamada R, Yano H, Fujiwara Y, Miyamoto Y, Mikami Y, Hibi T, Baba H, Komohara Y: CXCL10 expression in human colorectal cancer tissue and its correlation with serum levels of CXCL10. *Cancer Genomics Proteomics* 21:54-64, 2024
- 8 Lou M, Iwatsuki M, Wu X, Zhang W, Matsumoto C, Baba H: ASO author reflections: The significance of IL-8 expression in cancer-associated fibroblast of gastric cancer. *Ann Surg Oncol* 31:1787-1788, 2024
- 9 Mima K, Hayashi H, Adachi Y, Tajiri T, Ofuchi T, Kanemitsu K, Ogawa D, Yumoto S,

Matsumoto T, Itoyama R, Kitano Y, Nakagawa S, Okabe H, Baba H: Patient vulnerability is associated with poor prognosis following upfront hepatectomy for colorectal liver metastasis. *Int J Clin Oncol* 29:47-54, 2024

- 10 Mima K, Hayashi H, Maruno M, Yumoto S, Matsumoto T, Tsukamoto M, Miyata T, Nakagawa S, Nitta H, Imai K, Baba H: Perioperative disabilities in activities of daily living are associated with worse prognosis after hepatectomy for colorectal liver metastasis. *HPB (Oxford)* 26:203-211, 2024
- 11 Morito A, Eto K, Iwatsuki M, Toihata T, Kosumi K, Iwagami S, Baba Y, Miyamoto Y, Yoshida N, Baba H: Clinical impact of very early recurrence after conversion surgery for stage IV gastric cancer. *Ann Gastroenterol Surg* 8:214-220, 2024
- 12 Ogawa D, Miyata T, Yumoto S, Shiraishi Y, Matsumoto T, Takematsu T, Tsukamoto M, Nakagawa S, Mima K, Nitta H, Hayashi H, Baba H: Prognostic value of preoperative geriatric nutritional risk index in intrahepatic cholangiocarcinoma after hepatectomy: a single-center retrospective cohort study. *Langenbecks Arch Surg* 409:47, 2024
- 13 Takematsu T, Mima K, Hayashi H, Kitano Y, Nakagawa S, Hiyoshi Y, Okabe H, Imai K, Miyamoto Y, Baba H: RAS mutation status in combination with the JSHBPS nomogram may be useful for preoperative identification of colorectal liver metastases with high risk of recurrence and mortality after hepatectomy. *J Hepatobiliary Pancreat Sci* 31:69-79, 2024
- 14 Wu X, Iwatsuki M, Takaki M, Saito T, Hayashi T, Kondo M, Sakai Y, Gotohda N, Tanaka E, Nishida T, Baba H: FBXW7 regulates the sensitivity of imatinib in gastrointestinal stromal tumors by targeting MCL1. *Gastric Cancer* 27:235-247, 2024
- 15 Yonemura A, Semba T, Zhang J, Fan Y, Yasuda-Yoshihara N, Wang H, Uchihara T, Yasuda T, Nishimura A, Fu L, Hu X, Wei F, Kitamura F, Akiyama T, Yamashita K, Eto K, Iwagami S, Iwatsuki M, Miyamoto Y, Matsusaki K, Yamasaki J, Nagano O, Saya H, Song S, Tan P, Baba H, Ajani JA, Ishimoto T: Mesothelial cells with mesenchymal features enhance peritoneal dissemination by forming a protumorigenic microenvironment. *Cell Rep* 43:113613, 2024
- 16 Kosumi K, Baba Y, Hara Y, Wang H, Nomoto D, Toihata T, Ohuchi M, Harada K, Eto K, Ogawa K, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Baba H: Body Composition and Clinical Outcomes in Esophageal Cancer Patients Treated with Immune Checkpoint

Inhibitors. *Ann Surg Oncol*, 2024

- 17 Qin XY, Shirakami Y, Honda M, Yeh SH, Numata K, Lai YY, Li CL, Wei F, Xu Y, Imai K, Takai K, Chuma M, Komatsu N, Furutani Y, Gailhouse L, Aikata H, Chayama K, Enomoto M, Tateishi R, Kawaguchi K, Yamashita T, Kaneko S, Nagaoka K, Tanaka M, Sasaki Y, Tanaka Y, Baba H, Miura K, Ochi S, Masaki T, Kojima S, Matsuura T, Shimizu M, Chen PJ, Moriwaki H, Suzuki H: Serum MYCN as a predictive biomarker of prognosis and therapeutic response in the prevention of hepatocellular carcinoma recurrence. *Int J Cancer*, 2024
- 18 Lou M, Iwatsuki M, Wu X, Zhang W, Matsumoto C, Baba H. Cancer-Associated Fibroblast-Derived IL-8 Upregulates PD-L1 Expression in Gastric Cancer Through the NF- κ B Pathway. *Ann Surg Oncol*. 2024 May;31(5):2983-2995. doi: 10.1245/s10434-023-14586-x. Epub 2023 Nov 25. PMID: 38006530.
- 19 Shimogawa T, Miyamoto Y, Hiyoshi Y, Ouchi M, Kosumi K, Eto K, Ida S, Iwatsuki M, Baba Y, Baba H. Intracranial Subdural Empyema During Long-term Chemotherapy for Metastatic Colorectal Cancer: Case Report. In Vivo. 2024 Sep-Oct;38(5):2557-2561. doi: 10.21873/*invivo*.13730. PMID: 39187332; PMCID: PMC11363758.
- 20 Lou M, Iwatsuki M, Wu X, Zhang W, Matsumoto C, Baba H. ASO Author Reflections: The Significance of IL-8 Expression in Cancer-Associated Fibroblast of Gastric Cancer. *Ann Surg Oncol*. 2024 Mar;31(3):1787-1788. doi: 10.1245/s10434-023-14660-4. Epub 2023 Dec 12. PMID: 38082165.
- 21 Matsumoto C, Iwatsuki M, Mitsuura C, Morito A, Maeda Y, Toihata T, Kosumi K, Baba Y, Yoshida N, Baba H. Textbook outcome contributes to long-term prognosis in elderly patients with esophageal squamous cell carcinoma. *Ann Gastroenterol Surg*. 2024 Mar 26;8(5):787-794. doi: 10.1002/ags3.12799. PMID: 39229563; PMCID: PMC11368493.
- 22 Morito A, Eto K, Iwatsuki M, Toihata T, Kosumi K, Iwagami S, Baba Y, Miyamoto Y, Yoshida N, Baba H. Clinical impact of very early recurrence after conversion surgery for stage IV gastric cancer. *Ann Gastroenterol Surg*. 2023 Sep 14;8(2):214-220. doi: 10.1002/ags3.12738. PMID: 38455498; PMCID: PMC10914691.
- 23 Ofuchi T, Iwatsuki M, Matsumoto C, Toihata T, Kosumi K, Baba Y, Miyamoto Y, Yoshida N, Baba H. Laparoscopic versus open abdominal lymph node dissection for esophageal squamous

cell carcinoma: a propensity score matching analysis. *Surg Today*. 2024 May 21. doi: 10.1007/s00595-024-02874-2. Epub ahead of print. PMID: 38771326.

- 24 Hara Y, Baba Y, Oda E, Harada K, Yamashita K, Toihata T, Kosumi K, Iwatsuki M, Miyamoto Y, Tsutsuki H, Gan Q, Waters RE, Komohara Y, Sawa T, Ajani JA, Baba H. Presence of *Fusobacterium nucleatum* in relation to patient survival and an acidic environment in oesophagogastric junction and gastric cancers. *Br J Cancer*. 2024 Sep;131(5):797-807. doi: 10.1038/s41416-024-02753-0. Epub 2024 Jul 12. PMID: 38992099; PMCID: PMC11368944.
- 25 Matsumoto C, Iwatsuki M, Morinaga T, Horinouchi T, Hara Y, Baba Y, Miyamoto Y, Yoshida N, Baba H. The relationship between the treatment course and prognosis of oligometastasis after esophageal squamous cell carcinoma resection. *Surg Today*. 2024 Aug;54(8):927-934. doi: 10.1007/s00595-024-02803-3. Epub 2024 Apr 7. PMID: 38583108.
- 26 Omachi K, Kosumi K, Tanizaki T, Toihata T, Iwatsuki M, Baba Y, Miyamoto Y, Yoshida N, Baba H. Esophageal dedifferentiated liposarcoma resected by the cervical approach: a case report. *Surg Case Rep*. 2024 Aug 28;10(1):199. doi: 10.1186/s40792-024-01990-y. PMID: 39297994; PMCID: PMC11413401.
- 27 Horinouchi T, Yoshida N, Shiraishi S, Hara Y, Matsumoto C, Toihata T, Kosumi K, Harada K, Eto K, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Baba H. Relationship between the severity of emphysematous change in the lung and morbidity after esophagectomy for esophageal cancer: A retrospective study on a novel strategy for risk prediction. *Thorac Cancer*. 2024 Jan;15(1):15-22. doi: 10.1111/1759-7714.15146. Epub 2023 Dec 9. PMID: 38069606; PMCID: PMC10761611.
- 28 Ono K, Hiyoshi Y, Ono A, Ouchi M, Kosumi K, Eto K, Ida S, Iwatsuki M, Baba Y, Miyamoto Y, Kajihara I, Tanaka K, Miyasato Y, Baba H. Locally advanced rectal cancer in a young adult affected with dyskeratosis congenita (Zinsser-Cole-Engman syndrome): a case report. *Surg Case Rep*. 2024 Sep 6;10(1):206. doi: 10.1186/s40792-024-01985-9. PMID: 39237793; PMCID: PMC11377380.
- 29 Shimogawa T, Hiyoshi Y, Ouchi M, Kosumi K, Eto K, Ida S, Iwatsuki M, Baba Y, Miyamoto Y, Okazaki N, Miyasato Y, Baba H. Poorly differentiated mucinous carcinoma of the ascending colon complicated by bilateral ovarian mature cystic teratomas in a 17-year-old female patient: a case report. *Surg Case Rep*. 2024 Apr 23;10(1):95. doi: 10.1186/s40792-024-01892-z. PMID:

38652340; PMCID: PMC11039590.

- 30 Sakoh T, Eto K, Iwagami S, Yoshida N, Kosumi K, Iwatsuki M, Baba Y, Miyamoto Y, Yoshii D, Baba H. Conversion surgery for stage IV gastric cancer with multiple liver metastases with a complete pathological response to S-1 plus oxaliplatin therapy. *Clin J Gastroenterol*. 2024 Jun;17(3):419-424. doi: 10.1007/s12328-024-01933-y. Epub 2024 Mar 11. PMID: 38466470.
- 31 Zhang J, Fu L, Wang H, Yonemura A, Semba T, Yasuda-Yoshihara N, Nishimura A, Tajiri T, Tong Y, Yasuda T, Uchihara T, Yamazaki M, Okamoto Y, Yamasaki J, Nagano O, Baba H, Ishimoto T. RAC1-mediated integrin alpha-6 expression in E-cadherin-deficient gastric cancer cells promotes interactions with the stroma and peritoneal dissemination. *Cancer Lett*. 2024 Jun 1;591:216901. doi: 10.1016/j.canlet.2024.216901. Epub 2024 Apr 17. PMID: 38641311.
- 32 Hayashi H, Liu Z, Sun Y, Ogawa D, Baba H. Prognostic impact of tumor marker kinetics and normalization during neoadjuvant chemotherapy for pancreatic cancer. *Hepatobiliary Surg Nutr*. 2024 Apr 3;13(2):317-320. doi: 10.21037/hbsn-23-662. Epub 2024 Mar 20. PMID: 38617470; PMCID: PMC11007329.
- 33 Mizuno S, Shigeta K, Kato Y, Okui J, Morita S, Sonal S, Goldstone R, Berger D, Al-Masri R, Al-Masri M, Tajima Y, Kikuchi H, Hirata A, Nakadai J, Baba H, Sugiura K, Hoshino G, Seo Y, Makino A, Suzumura H, Suzuki Y, Adachi Y, Shimada T, Kondo T, Matsui S, Seishima R, Okabayashi K, Kitagawa Y, Kunitake H. Stratification of Stage II Colon Cancer Using Recurrence Prediction Value: A Multi-institutional International Retrospective Study. *Ann Surg*. 2024 Aug 1;280(2):274-282. doi: 10.1097/SLA.0000000000006120. Epub 2023 Oct 12. PMID: 37823278.
- 34 Kato K, Kojima T, Hara H, Tsuji A, Yasui H, Muro K, Satoh T, Ogata T, Ishihara R, Goto M, Baba H, Nishina T, Han S, Iwakami K, Yatsuzuka N, Doi T. First-line pembrolizumab plus chemotherapy for advanced/metastatic esophageal cancer: 1-year extended follow-up in the Japanese subgroup of the phase 3 KEYNOTE-590 study. *Esophagus*. 2024 Jul;21(3):306-318. doi: 10.1007/s10388-024-01053-z. Epub 2024 Apr 12. PMID: 38607538; PMCID: PMC11199245.
- 35 Takematsu T, Mima K, Hayashi H, Kitano Y, Nakagawa S, Hiyoshi Y, Okabe H, Imai K, Miyamoto Y, Baba H. RAS mutation status in combination with the JSHBPS nomogram may be useful for preoperative identification of colorectal liver metastases with high risk of

recurrence and mortality after hepatectomy. *J Hepatobiliary Pancreat Sci*. 2024 Feb;31(2):69-79. doi: 10.1002/jhbp.1389. Epub 2023 Oct 27. PMID: 37897144.

- 36 Takashima A, Hamaguchi T, Mizusawa J, Nagashima F, Ando M, Ojima H, Denda T, Watanabe J, Shinozaki K, Baba H, Asayama M, Hasegawa S, Masuishi T, Nakata K, Tsukamoto S, Katayama H, Nakamura K, Fukuda H, Kanemitsu Y, Shimada Y; Colorectal Cancer Study Group in Japan Clinical Oncology Group (JCOG). Oxaliplatin Added to Fluoropyrimidine/Bevacizumab as Initial Therapy for Unresectable Metastatic Colorectal Cancer in Older Patients: A Multicenter, Randomized, Open-Label Phase III Trial (JCOG1018). *J Clin Oncol*. 2024 Aug 26;JCO2302722. doi: 10.1200/JCO.23.02722. Epub ahead of print. PMID: 39186709.
- 37 Horino T, Tokunaga R, Miyamoto Y, Baba H. Advanced Lung Cancer Inflammation Index: A Novel Comprehensive Biomarker of Host Status for Patients with Metastatic Colorectal Cancer. *J Anus Rectum Colon*. 2024 Jul 30;8(3):137-149. doi: 10.23922/jarc.2023-077. PMID: 39086873; PMCID: PMC11286371.
- 38 Kanemitsu K, Yamada R, Pan C, Tsukamoto H, Yano H, Shiota T, Fujiwara Y, Miyamoto Y, Mikami Y, Baba H, Komohara Y. Age-associated reduction of sinus macrophages in human mesenteric lymph nodes. *J Clin Exp Hematop*. 2024 Jun 27;64(2):79-85. doi: 10.3960/jslrt.24001. Epub 2024 Mar 11. PMID: 38462485; PMCID: PMC11303963.
- 39 Ogawa K, Komori H, Tajiri T, Horino T, Kato R, Ohuchi M, Miyamoto Y, Baba H. Association of Acute Care Surgeon Involvement With Post-Surgery Complications. *J Surg Res*. 2024 Sep;301:640-646. doi: 10.1016/j.jss.2024.07.040. Epub 2024 Aug 2. PMID: 39096553.
- 40 Yumoto S, Horiguchi H, Kadomatsu T, Horino T, Sato M, Terada K, Miyata K, Moroishi T, Baba H, Oike Y. Host ANGPTL2 establishes an immunosuppressive tumor microenvironment and resistance to immune checkpoint therapy. *Cancer Sci*. 2024 Sep 25. doi: 10.1111/cas.16348. Epub ahead of print. PMID: 39321028.
- 41 Inada H, Miyamoto H, Shinriki S, Oda H, Narahara S, Yoshinari M, Nagaoka K, Yoshii D, Fukubayashi K, Hayashi H, Baba H, Nosaka K, Tanaka Y. Clinical utility of a comprehensive genomic profiling test for patient with advanced biliary tract cancer. *Int J Clin Oncol*. 2024 Sep 19. doi: 10.1007/s10147-024-02616-x. Epub ahead of print. PMID: 39297909.

- 42 Horino T, Horiguchi H, Yumoto S, Kadomatsu T, Hara Y, Yagi T, Baba Y, Miyamoto Y, Baba H, Oike Y. Angiopoietin-Like Protein 2 Expression in Tumor Cells Supports Tumor-Associated Macrophage-Induced Tumor Progression in Esophageal Cancer. *Ann Surg Oncol*. 2024 Nov;31(12):7693-7704. doi: 10.1245/s10434-024-15557-6. Epub 2024 Jul 9. PMID: 38981990.
- 43 Okabe H, Masuda T, Tomita M, Ono A, Ogawa D, Kuroda D, Kuroki H, Hirota M, Hibi T, Baba H, Sugita H. Combined Neutrophil-to-Lymphocyte Ratio Score Is Associated With Chemotherapeutic Response and Predicts Prognosis in Patients With Advanced Pancreatic Cancer. *Anticancer Res*. 2024 Apr;44(4):1575-1582. doi: 10.21873/anticancer.16955. PMID: 38537961.
- 44 Okabe H, Masuda T, Nitta H, Tomita M, Ono A, Kuroda D, Kuroki H, Hirota M, Hibi T, Baba H, Sugita H. Advanced Cholangiocarcinoma With High Tumor Mutation Burden Achieving Complete Response to Immune Check Point Inhibitor. *Anticancer Res*. 2024 Jul;44(7):3199-3203. doi: 10.21873/anticancer.17135. PMID: 38925819.
- 45 Horino T, Tokunaga R, Miyamoto Y, Akiyama T, Daitoku N, Sakamoto Y, Ohuchi M, Ogawa K, Yoshida N, Baba H. Extracellular water to total body water ratio, a novel predictor of recurrence in patients with colorectal cancer. *Ann Gastroenterol Surg*. 2023 Aug 8;8(1):98-106. doi: 10.1002/ags3.12728. PMID: 38250685; PMCID: PMC10797841.
- 46 Ofuchi T, Mima K, Hayashi H, Adachi Y, Kanemitsu K, Tajiri T, Itoyama R, Nakagawa S, Okabe H, Baba H. Impairment of perioperative activities of daily living is associated with poor prognosis following pancreatectomy for pancreatic cancer. *Langenbecks Arch Surg*. 2024 Sep 24;409(1):289. doi: 10.1007/s00423-024-03478-7. PMID: 39316139.
- 47 Ogawa D, Miyata T, Yumoto S, Shiraishi Y, Matsumoto T, Takematsu T, Tsukamoto M, Nakagawa S, Mima K, Nitta H, Hayashi H, Baba H. Prognostic value of preoperative geriatric nutritional risk index in intrahepatic cholangiocarcinoma after hepatectomy: a single-center retrospective cohort study. *Langenbecks Arch Surg*. 2024 Jan 25;409(1):47. doi: 10.1007/s00423-023-03221-8. PMID: 38267769.
- 48 Kobayashi S, Wada H, Sakai D, Baba H, Kanai M, Kamachi H, Takayama T, Ueno M, Takahashi M, Sho M, Yoshimura K, Hatano E, Nagano H, Ioka T; Kansai Hepato-Biliary Oncology (KHBO) Group. Impact of Tumor Shrinkage Pattern with Biweekly Triplet Gemcitabine+Cisplatin+S-1 Regimen for Biliary Tract Cancers: Implications for Neoadjuvant

Therapy from the Data of KHBO1401 (KHBO1401-1A Study). *Oncology*. 2024;102(6):447-456. doi: 10.1159/000533669. Epub 2023 Dec 4. PMID: 38048759; PMCID: PMC11152028.

- 49 Sano A, Imai Y, Yamaguchi T, Bamba T, Shinno N, Kawashima Y, Tokunaga M, Enokida Y, Tsukada T, Hatakeyama S, Koga T, Kuwabara S, Urakawa N, Arai J, Yamamoto M, Yasufuku I, Iwasaki H, Sakon M, Honboh T, Kawaguchi Y, Kusumoto T, Shibao K, Hiki N, Nakazawa N, Sakai M, Sohda M, Shirabe K, Oki E, Baba H, Saeki H. Importance of duodenal stump reinforcement to prevent stump leakage after gastrectomy: a large-scale multicenter retrospective study (KSCC DELICATE study). *Gastric Cancer*. 2024 Jul 19. doi: 10.1007/s10120-024-01538-x. Epub ahead of print. PMID: 39028419.
- 50 Masuda T, Takamori H, Ogata KI, Ogawa K, Shimizu K, Karashima R, Nitta H, Matsumoto K, Okino T, Baba H. The Success Rate Is Lower but Completion Rate of Laparoscopic Cholecystectomy Is higher in Endoscopic Transpapillary Gallbladder Drainage than Percutaneous Gallbladder Drainage for Acute Cholecystitis. *Surg Laparosc Endosc Percutan Tech*. 2024 Aug 1;34(4):413-418. doi: 10.1097/SLE.0000000000001294. PMID: 38940254.
- 51 Okabe H, Masuda T, Tomita M, Ono A, Kuroda D, Kuroki H, Nitta H, Hibi T, Baba H, Sugita H. Diagnostic accuracy of preoperative adhesion mapping by ultrasonography for laparoscopic surgery in patients with past abdominal surgery with special reference to loose adhesion. *Asian J Endosc Surg*. 2024 Jul;17(3):e13332. doi: 10.1111/ases.13332. PMID: 38922724.
- 52 Sasaki K, Wang J, Kamphues C, Buettner S, Gagniere J, Ardilles V, Imai K, Wagner D, Pozios I, Papakonstantinou D, Pikoulis E, Antoniou E, Morioka D, Løes IM, Lønning PE, Kornprat P, Aucejo FN, Baba H, de Santibañes E, Kaczirek K, Burkhart R, Endo I, Beyer K, Kreis ME, Pawlik TM, Margonis GA. Evaluating Combinations of Biological and Clinicopathologic Factors Linked to Poor Outcomes in Resected Colorectal Liver Metastasis: An External Validation Study. *Ann Surg Oncol*. 2024 Oct 8. doi: 10.1245/s10434-024-16319-0. Epub ahead of print. PMID: 39377842.
- 53 Kato M, Sawayama H, Komohara Y, Hisano Y, Nakamura H, Ohuchi M, Ogawa K, Miyamoto Y, Yoshida N, Baba H. Complete pathologic response after laparoscopic hepatectomy following treatment with nivolumab and ipilimumab for anticancer drug-resistant MSI-high colon cancer liver metastasis consisting of poorly differentiated adenocarcinoma with squamous differentiation: *A case report*. *Clin J Gastroenterol*. 2024 Feb;17(1):57-64. doi: 10.1007/s12328-023-01855-1. Epub 2023 Oct 24. PMID: 37874527.

- 54 Miyamoto H, Kondo Y, Itobayashi E, Uehara M, Hiraoka A, Kudo M, Kakizaki S, Kagawa T, Miuma S, Suzuki T, Sugi K, Suyama K, Beppu T, Toyoda H, Yoshiji H, Uojima H, Miyase S, Inoue K, Tamori A, Ito T, Shimose S, Suda G, Hayashi T, Onishi M, Narahara S, Watanabe T, Iwatsuki M, Fukushima S, Tanaka Y. Evaluation of the associations of interleukin-7 genetic variants with toxicity and efficacy of immune checkpoint inhibitors: A replication study of a Japanese population, based on the findings of a European genome-wide association study. *Hepatol Res*. 2024 Jul 11. doi: 10.1111/hepr.14092. Epub ahead of print. PMID: 38990762.
- 55 Kato K, Machida R, Ito Y, Daiko H, Ozawa S, Ogata T, Hara H, Kojima T, Abe T, Bamba T, Watanabe M, Kawakubo H, Shibuya Y, Tsubosa Y, Takegawa N, Kajiwara T, Baba H, Ueno M, Takeuchi H, Nakamura K, Kitagawa Y; JCOG1109 investigators. Doublet chemotherapy, triplet chemotherapy, or doublet chemotherapy combined with radiotherapy as neoadjuvant treatment for locally advanced oesophageal cancer (JCOG1109 NExT): a randomised, controlled, open-label, phase 3 trial. *Lancet*. 2024 Jul 6;404(10447):55-66. doi: 10.1016/S0140-6736(24)00745-1. Epub 2024 Jun 11. PMID: 38876133.
- 56 Nakagawa S, Hayashi H, Itoyama R, Kitano Y, Mima K, Okabe H, Baba H. BALAD score predicts the recurrence and survival in the patients who underwent initial hepatectomy for HCC. *Surg Oncol*. 2024 Aug;55:102097. doi: 10.1016/j.suronc.2024.102097. *Epub* 2024 Jul 2. PMID: 39029425.
- 57 Ogata Y, Sadahiro S, Sakamoto K, Tsuchiya T, Takahashi T, Ohge H, Sato T, Kondo K, Baba H, Itabashi M, Ikeda M, Hamada M, Maeda K, Masuko H, Takahashi K, Kusano M, Hyodo I, Sakamoto J, Taguri M, Morita S. Final analyses of the prospective controlled trial on the efficacy of uracil and tegafur/leucovorin as an adjuvant treatment for stage II colon cancer with risk factors for recurrence using propensity score-based methods (JFMC46-1201). *Int J Clin Oncol*. 2024 Sep;29(9):1284-1292. doi: 10.1007/s10147-024-02565-5. *Epub* 2024 Jun 4. PMID: 38833114; PMCID: PMC11347494.
- 58 Yumoto S, Hayashi H, Mima K, Ogawa D, Itoyama R, Kitano Y, Nakagawa S, Okabe H, Baba H. Effects of Minimally Invasive Versus Open Pancreatoduodenectomy on Short-Term Surgical Outcomes and Postoperative Nutritional and Immunological Statuses: A Single-Institution Propensity Score-Matched Study. *Ann Surg Open*. 2024 Aug 30;5(3):e487. doi: 10.1097/AS9.0000000000000487. PMID: 39310352; PMCID: PMC11415100.

- 59 Matsumoto T, Kitano Y, Imai K, Ogawa D, Yumoto S, Takematsu T, Shiraishi Y, Itoyama R, Nakagawa S, Mima K, Okabe H, Nitta H, Hayashi H, Baba H. Prognostic impact of aspirin in patients with hepatocellular carcinoma after liver resection: propensity-score-matched analysis. *Int J Clin Oncol*. 2024 Oct 22. doi: 10.1007/s10147-024-02646-5. Epub ahead of print. PMID: 39438421.
- 60 Hara Y, Baba Y, Oda E, Harada K, Yamashita K, Toihata T, Kosumi K, Iwatsuki M, Miyamoto Y, Tsutsuki H, Gan Q, Waters RE, Komohara Y, Sawa T, Ajani JA, Baba H. Presence of *Fusobacterium nucleatum* in relation to patient survival and an acidic environment in oesophagogastric junction and gastric cancers. *Br J Cancer*. 2024 Sep;131(5):797-807. doi: 10.1038/s41416-024-02753-0. Epub 2024 Jul 12. PMID: 38992099; PMCID: PMC11368944.
- 61 Wu X, Yamashita K, Matsumoto C, Zhang W, Ding M, Harada K, Kosumi K, Eto K, Ida S, Miyamoto Y, Iwatsuki M. YAP acts as an independent prognostic marker and regulates growth and metastasis of gastrointestinal stromal tumors via FBXW7-YAP pathway. *J Gastroenterol*. 2024 Nov 18. doi: 10.1007/s00535-024-02180-1. Epub ahead of print. PMID: 39557657.
- 62 Fischer AK, Baba H, Lainka E, Kälsch J, Müller M, Zens U, Büttner R, Fischer HP. Rapid development of pseudo-ground-glass bodies in liver transplants. *Histopathology*. 2024 Jul;85(1):190-192. doi: 10.1111/his.15188. Epub 2024 Apr 15. PMID: 38622086.
- 63 Horino T, Horiguchi H, Yumoto S, Kadomatsu T, Hara Y, Yagi T, Baba Y, Miyamoto Y, Baba H, Oike Y. Angiopoietin-Like Protein 2 Expression in Tumor Cells Supports Tumor-Associated Macrophage-Induced Tumor Progression in Esophageal Cancer. *Ann Surg Oncol*. 2024 Nov;31(12):7693-7704. doi: 10.1245/s10434-024-15557-6. Epub 2024 Jul 9. PMID: 38981990.
- 64 Bertsimas D, Ning C, Lønning PE, Baba H, Endo I, Burkhart R, Aucejo FN, Balzer F, Kreis ME, Margonis GA. Improving survival models in healthcare: a novel matching approach. *Res Sq [Preprint]*. 2024 Dec 12:rs.3.rs-5467577. doi: 10.21203/rs.3.rs-5467577/v1. PMID: 39711552; PMCID: PMC11661418.
- 65 Shiraishi K, Nakaura T, Yoshida N, Matsuo K, Kobayashi N, Hokamura M, Uetani H, Nagayama Y, Kidoh M, Morita K, Yamashita Y, Tanaka Y, Baba H, Hirai T. Deep Learning Reconstruction for Enhanced Resolution and Image Quality in Breath-Hold MRCP: A Preliminary Study. *J Comput Assist Tomogr*. 2024 Nov 13. doi: 10.1097/RCT.0000000000001680. Epub ahead of print. PMID: 39761494.

- 66 Kitamura F, Shiraishi Y, Sakata K, Takata N, Harada K, Yoshinaka I, Iwatsuki M. Screening for Deep Vein Thrombosis Using D-dimer Levels Based on Surgical Patients' Characteristics. *Cureus*. 2024 Dec 11;16(12):e75565. doi: 10.7759/cureus.75565. PMID: 39803096; PMCID: PMC11723968.

8) Department of Molecular and Medical Pharmacology

1. Yamashita, T., Horiguchi, H., Kadomatsu, T., Sato, M., Moroishi, T., and Oike, Y. Immunotherapy-induced reprogramming of cancer-associated fibroblasts can promote tumor progression. *Genes Cells* 29, 1275-1283 (2024).
2. Thinyakul, C., Sakamoto, Y., Shimoda, M., Liu, Y., Thongchot, S., Reda, O., Nita, A., Sakamula, R., Sampattavanich, S., Maeda, A., Chunthaboon, P., Nduru, D., Niimura, M., Kanamori, Y., Thuwajit, P., Nakayama, K. I., Guan, K. L., Satou, Y., Thuwajit, C., and Moroishi, T. Hippo pathway in cancer cells induces NCAM1+ α SMA+ fibroblasts to modulate tumor microenvironment. *Commun Biol.* 7, 1343 (2024).
3. Sakamoto, Y., Uezu, A., Kikuchi, K., Kang, J., Fujii, E., Moroishi, T., Suetsugu, S., and Nakanishi, H. The Nedd4L ubiquitin ligase is activated by FCHO2-generated membrane curvature. *EMBO J.* 43, 5883-5909 (2024).
4. Yumoto, S., Horiguchi, H., Kadomatsu, T., Horino, T., Sato, M., Terada, K., Miyata, K., Moroishi, T., Baba, H., and Oike, Y. Host ANGPTL2 establishes an immunosuppressive tumor microenvironment and resistance to immune checkpoint therapy. *Cancer Sci.* 115, 3846-3858 (2024).
5. Li, H., Kanamori, Y., and Moroishi, T. Cell attachment defines sensitivity to cold stress via the Hippo pathway. *Biochem. Biophys. Res. Commun.* 730, 150373 (2024).
6. Murata, K., Harayama, K., Shimoda, M., Niimura, M., Wakao, M., Suda, Y., Moroishi, T., and Shintchi, H. Improvement of the Nuclease Resistance and Immunostimulatory Activity of CpG Oligodeoxynucleotides by Conjugation to Sugar-Immobilized Gold Nanoparticles. *Bioconjug. Chem.* 35, 804-815 (2024).
7. Nita, A., and Moroishi, T. Hippo pathway in cell-cell communication: emerging roles in development and regeneration. *Inflamm. Regener.* 44, 18 (2024).

8. Horiguchi, H., Kadomatsu, T., Yamashita, T., Yumoto, S., Horino, T., Sato, M., Terada, K., Miyata, K., Ichigozaki, Y., Kimura, T., Fukushima, S., Moroishi, T., and Oike, Y. Tumor stroma-derived ANGPTL2 potentiates immune checkpoint inhibitor efficacy. *Cancer Gene Ther.* 31, 933-940 (2024).

9) Department of Stem Cell Stress

1. Morishima T, Fakruddin Md., Kanamori Y, Masuda T, Ogawa A, Wang Y, Schoonenberg V.A.C., Butter F, Arima Y, Akaike T, Moroishi T, Tomizawa K, Suda T, Wei FY, Takizawa H* Mitochondrial translation regulates terminal erythroid differentiation by maintaining iron homeostasis. *Sci. Adv.* 2024 in press
2. Johansson A, Ho NP, Takizawa H. Microbiome and Hemato-immune Aging. *Exp Hematol.* 2024 Nov 22;141:104685.
3. Tezuka Y, Onoda N, Morishima T, Sumitomo Y, Nishii K, Takizawa H, Kai M. Expansion effect of romiplostim on hematopoietic stem and progenitor cells versus thrombopoietin and eltrombopag Int J Hematol. 2024 Nov;120(5):575-586. Johansson A, Khalilnezhad A, Takizawa H, Mizuno, Suda T, Umemoto T. Mobilization dynamics of bone marrow hematopoietic stem cells during hematopoietic regeneration. *Exp Hematol.*, 2024 Jul 13:104281.
4. Ong KOK, Mok MMH, Niibori-Nambu A, Du L, Yanagida M, Wang CQ, Bahrivani AG, Chin DWL, Koh CP, Ng KP, Yamashita N, Jacob B, Yokomizo T, Takizawa H, Matsumura T, Suda T, Lau JA, Tan TZ, Mori S, Yang H, Iwasaki M, Minami T, Asou N, Sun QY, Ding LW, Koeffler HP, Tenen DG, Shimizu R, Yamamoto M, Ito Y, Kham SKY, Yeoh AE, Chng WJ, Osato M. Activation of NOTCH signaling impedes cell proliferation and survival in acute megakaryoblastic leukemia. *Exp Hematol.* 2024 Jun 13:104255.
5. Niibori-Nambu A, Wang CQ, Chin DWL, Chooi JY, Hosoi H, Sonoki T, Tham CY, Nah GSS, Cirovic B, Tan DQ, Takizawa H, Sashida G, Goh Y, Tng J, Fam WN, Fullwood MJ, Suda T, Yang H, Tergaonkar V, Taniuchi I, Li S, Chng WJ, Osato M. Integrin- $\alpha 9$ overexpression underlies the niche-independent maintenance of leukemia stem cells in acute myeloid leukemia. *Gene.* 2024 Jul 11;928:148761.

6. Koga Y, Kajitani N, Miyako K, Takizawa H, Boku S, Takebayashi M. TCF7L2: A potential key regulator of antidepressant effects on hippocampal astrocytes in depression model mice. *J Psychiatr Res.*, 2024 Jan 6;170:375-386.
7. Miyako K, Kajitani N, Koga Y, Takizawa H, Boku S, Takebayashi M. Identification of the antidepressant effect of electroconvulsive stimulation-related genes in hippocampal astrocyte. *J Psychiatr Res.*, 2024 Jan 4;170:318-327.
8. Morishima T, Takahashi K, Chin D, Tokunaga K, Arima Y, Matsuoka M, Suda T, Takizawa H*. Phospholipid metabolic adaptation promotes survival of IDH2 mutant acute myeloid leukemia cells. *Cancer Sci.*, 2024 Jan;115(1):197-210.
9. Johansson A, Ho NP, Takizawa H. Microbiome and Hemato-immune Aging. *Exp Hematol.* 2024 Nov 22;141:104685.

10) Department of Gastroenterology and Hepatology

1. HBV2023; Allweiss L, Cohen C, Dias J, Fumagalli V, Guo H, Harris JM, Hu J, Iannaccone M, Isogawa M, Jeng WJ, Kim KH, Kramvis A, Li W, Lucifora J, Muramatsu M, Neuveut C, Ploss A, Pollicino T, Protzer U, Tan A, Tanaka Y, Tu T, Tsukuda S, Thimme R, Urban S, Watashi K, Yuan Z, Yeh SH, McKeating JA, Revill PA : Highlights from the 2023 International Meeting on the Molecular Biology of Hepatitis B virus. *J Gen Viro* 105:5:1978, 2024
2. Inoue T, Yagi S, Tanaka Y: Two Concepts of Hepatitis B Core-Related Antigen Assay: A Highly Sensitive and Rapid Assay or an Effective Tool for Widespread Screening. *Viruses* 16:6:848, 2024
3. Park JE, Nguyen VH, Tsai PC, Toyoda H, Leong J, Guy JE, Yeh ML, Huang CF, Yasuda S, Abe H, Hsu YC, Tseng CH, Liu J, Chen YL, Lin PY, Jun DW, Yoshimaru Y, Ogawa E, Ishigami M, Enomoto M, Tamori A, Uojima H, Wang XZ, Xu Q, Takahashi H, Eguchi Y, Inoue K, Huang DQ, Zhao WJ, Chuang WL, Dai CY, Huang JF, Barnett S, Maeda M, Cheung R, Landis C, Tanaka Y, Roberts LR, Schwartz ME, Kumada T, Yu ML, Nguyen MH: Racial and ethnic disparities in untreated patients with hepatitis C virus-related hepatocellular carcinoma but not in those with sustained virologic response. *Aliment Pharmacol Ther* 59:6:742-751, 2024
4. Nagaoka K, Bai X, Liu D, Cao K, Mulla J, Ji C, Chen H, Nisar MA, Bay A, Mueller W, Hildebrand G, Gao JS, Lu S, Setoyama H, Tanaka Y, Wands JR, Huang CK: Elevated 2-oxoglutarate antagonizes DNA damage responses in cholangiocarcinoma chemotherapy through regulating aspartate beta-hydroxylase. *Cancer Lett* 580: 216493, 2024
5. Nagura Y, Suzuki T, Matsuura K, Ogawa S, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Nagaoka K, Iio E, Watanabe T, Kataoka H, Tanaka Y: Serum inducible protein 10 kDa/C-X-C

motif chemokine 10 levels predict regression of M2BPGi-based liver fibrosis after hepatitis C virus eradication by direct-acting antiviral agents.*Hepatol Res* 54:1:32-42, 2024

6. Kawakami Y, Ishihara R, Matsuno K, Waki K, Shichijo S, Yoshii S, Kanesaka T, Yamamoto S, Takeuchi Y, Higashino K, Uedo N, Michida T, **Tanaka Y**: Multiple foci of dilated vessels as a new predictor of metachronous esophageal cancer.*Dig Endosc* 36:4:421-427, 2024
7. Yoshimaru Y, Nagaoka K, Tanaka K, Narahara S, Inada H, Kurano S, Tokunaga T, Iio E, Watanabe T, Setoyama H, Tateyama M, Yoshida K, Tsunoda T, Nakamura Y, Tanaka M, Sasaki Y, Tanaka **Y**: Randomized phase I/II study of vascular endothelial growth factor receptor peptide vaccines for patients with hepatocellular carcinoma.*Hepatol Res* 54:5:451-464, 2024
8. Suzuki T, Matsuura K, Suzuki Y, Okumura F, Nagura Y, Sobue S, Matoya S, Miyaki T, Kimura Y, Kusakabe A, Narahara S, Tokunaga T, Nagaoka K, Kuroyanagi K, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Kataoka H, Tanaka **Y**: Serum CXCL10 levels at the start of the second course of atezolizumab plus bevacizumab therapy predict therapeutic efficacy in patients with advanced BCLC stage C hepatocellular carcinoma: A multicenter analysis.*Cancer Med* 13:1:e6876, 2024
9. Ogawa E, Jun DW, Toyoda H, Hsu YC, Yoon EL, Ahn SB, Yeh ML, Do S, Trinh HN, Takahashi H, Enomoto M, Kawada N, Yasuda S, Tseng CH, Kawashima K, Lee HA, Inoue K, Haga H, Do AT, Maeda M, Hoang JH, Cheung R, Ueno Y, Eguchi Y, Furusyo N, Yu ML, Tanaka Y, Nguyen MH: Increased spine bone density in patients with chronic hepatitis B switched to tenofovir alafenamide: A prospective, multinational study.*Aliment Pharmacol Ther* 59:2:239-248, 2024
10. Chau A, Yeh ML, Tsai PC, Huang DQ, Kim SE, Trinh H, Yoon EL, Oh H, Jeong JY, Ahn SB, An J, Tseng CH, Hsu YC, Jeong SW, Cho YK, Shim JJ, Kim HS, Ito T, Marciano S, Kawashima K, Suzuki T, Watanabe T, Nozaki A, Ishikawa T, Inoue K, Eguchi Y, Uojima H, Abe H, Takahashi H, Chuma M, Ishigami M, Hoang JK, Maeda M, Huang CF, Gadano A, Dai CY, Huang JF, Tanaka Y, Chuang WL, Lim SG, Cheung R, Yu ML, Jun DW, Nguyen MH: Sex Differences in Treatment Response to Nucleos(t)ide Therapy in Chronic Hepatitis B: A Multicenter Longitudinal Study.*Clin Gastroenterol Hepatol* 23:570-580, 2024
11. Huang DQ, Hoang JK, Kamal R, Tsai PC, Toyoda H, Yeh ML, Yasuda S, Leong J, Maeda M, Huang CF, Won Jun D, Ishigami M, Tanaka Y, Uojima H, Ogawa E, Abe H, Hsu YC, Tseng CH, Alsudaney M, Yang JD, Yoshimaru Y, Suzuki T, Liu JK, Landis C, Dai CY, Huang JF, Chuang WL, Schwartz M, Dan YY, Esquivel C, Bonham A, Yu ML, Nguyen MH: Antiviral Therapy Utilization and 10-Year Outcomes in Resected Hepatitis B Virus- and Hepatitis C Virus-Related Hepatocellular Carcinoma.*J Clin Oncol* 42:7:790-799, 2024
12. Sonneveld MJ, Chiu SM, Park JY, Brakenhoff SM, Kaewdech A, Seto WK, Tanaka Y, Carey I, Papatheodoridi M, Colombatto P, van Bömmel F, Janssen HL, Berg T, Zoulim F, Ahn SH, Dalekos GN, Erler NS, Brunetto M, Wedemeyer H, Cornberg M, Yuen MF, Agarwal K, Boonstra

A, Buti M, Piratvisuth T, Papatheodoridis G, Chen CH, Maasoumy B; CREATE Study Group: HBV DNA and HBsAg Levels at 24 Weeks Off-Treatment Predict Clinical Relapse and HBsAg Loss in HBeAg-Negative Patients Who Discontinued Antiviral Therapy. *Gastroenterology* 166:1:168-177, 2024

13. Suzuki T, Matsuura K, Nagura Y, Kawamura H, Fujiwara K, Ogawa S, Nagaoka K, Iio E, Watanabe T, Kataoka H, Tanaka Y: Serum angiopoietin-2 levels predict the development of hepatocellular carcinoma following hepatitis C virus eradication using direct-acting antiviral agents. *Oncology* 102:7:611-620, 2024
14. Toyoda H, Tada T, Uojima H, Nozaki A, Chuma M, Takaguchi K, Hiraoka A, Abe H, Itobayashi E, Matsuura K, Atsukawa M, Watanabe T, Shimada N, Nakamuta M, Kojima M, Tsuji K, Mikami S, Ishikawa T, Yasuda S, Tsutsui A, Arai T, Kumada T, Tanaka Y, Tanaka J, Chayama K: Comparison of six hepatocellular carcinoma prediction models in Japanese patients after sustained virologic response undergoing rigorous surveillance for hepatocellular carcinoma. *J Gastroenterol Hepatol* 39:5:949-954, 2024
15. Watanabe T, Hayashi S, Zhaoyu Y, Inada H, Nagaoka K, Tateyama M, Tanaka Y: A novel, small anti-HBV compound reduces HBsAg and HBV-DNA by destabilizing HBV-RNA. *J Gastroenterol* 59:4:315-328, 2024
16. Cooke GS, Flower B, Cunningham E, Marshall AD, Lazarus JV, Palayew A, Jia J, Aggarwal R, Mahtab MA, Tanaka Y, Jeong SH, Poovorawan K, Waked I, Hiebert L, Khue PM, Grebely J, Payawal DA, Sanchez-Avila AF, Mbendi C, Muljono DH, Lesi O, Desalegn H, Hamid S, Araujo A, Cheinquer H, Onyekwere CA, Malyuta R, Ivanchuk I, Thomas DL, Pimenov N, Chulanov V, Dirac MA, Han H, Ward JW: Progress towards elimination of viral hepatitis: a Lancet Gastroenterology & Hepatology Commission update. *Lancet Gastroenterol Hepatol* 9:4:346-365, 2024
17. Qin XY, Shirakami Y, Honda M, Yeh SH, Numata K, Lai YY, Li CL, Wei F, Xu Y, Imai K, Takai K, Chuma M, Komatsu N, Furutani Y, Gailhouse L, Aikata H, Chayama K, Enomoto M, Tateishi R, Kawaguchi K, Yamashita T, Kaneko S, Nagaoka K, Tanaka M, Sasaki Y, Tanaka Y, Baba H, Miura K, Ochi S, Masaki T, Kojima S, Matsuura T, Shimizu M, Chen PJ, Moriwaki H, Suzuki H: Serum MYCN as a predictive biomarker of prognosis and therapeutic response in the prevention of hepatocellular carcinoma recurrence. *Int J Cancer* 155:3:582-594, 2024
18. Suzuki T, Matsuura K, Nagura Y, Ito K, Ogawa S, Kawamura H, Fujiwara K, Nagaoka K, Iio E, Watanabe T, Kataoka H, Tanaka Y: MicroRNA-223-3p levels in serum-derived extracellular vesicles predict regression of M2BPGi-based liver fibrosis after hepatitis C virus eradication by direct-acting antiviral agents. *J Gastroenterol* 59:8:719-731, 2024
19. Atsukawa M, Tsubota A, Kondo C, Toyoda H, Takaguchi K, Nakamuta M, Watanabe T, Morishita A, Tani J, Okubo H, Hiraoka A, Nozaki A, Chuma M, Kawata K, Uojima H, Ogawa C, Asano T,

- Mikami S, Kato K, Matsuura K, Ikegami T, Ishikawa T, Tsuji K, Tada T, Tsutsui A, Senoh T, Kitamura M, Okubo T, Arai T, Kohjima M, Morita K, Akahane T, Nishikawa H, Iwasa M, Tanaka Y, Iwakiri K: ALBI score predicts morphological changes in esophageal varices following direct-acting antiviral-induced sustained virological response in patients with liver cirrhosis.*J Gastroenterol* 59:8:709-718, 2024
20. Gosset A, Drabo S, Carrieri P, Tiendrebeogo ASE, Vincent JP, Tanaka Y, Sombié R, Tall H, Kania D, Boyer S, Shimakawa Y: Costs of integrating hepatitis B screening and antiviral prophylaxis into routine antenatal care in Burkina Faso: Treat all versus targeted strategies. *Int J Gynaecol Obstet* 166:1:44-61, 2024
 21. Kitagawa K, Kim KS, Iwamoto M, Hayashi S, Park H, Nishiyama T, Nakamura N, Fujita Y, Nakaoka S, Aihara K, Perelson AS, Allweiss L, Dandri M, Watashi K, Tanaka Y, Iwami S: Multiscale modeling of HBV infection integrating intra- and intercellular viral propagation to analyze extracellular viral markers.*PLoS Comput Biol* 20:3: e1011238, 2024
 22. Harai S, Hijioka S, Yamada R, Ogura T, Fukasawa M, Okuda A, Horike H, Inoue D, Sekine M, Ishida Y, Koga T, Kitamura H, Tanaka Y, Yoshinari M, Kobayashi K, Chatto M, Yamashige D, Kawasaki Y, Nagashio Y, Okusaka T: Safety of biliary drainage with 6-mm metallic stent for preoperative obstructive jaundice in pancreatic cancer: PURPLE SIX STUDY.*J Gastroenterol Hepatol* 39:7:1442-1449, 2024
 23. Suzuki T, Matsuura K, Suzuki Y, Okumura F, Nagura Y, Sobue S, Matoya S, Miyaki T, Kimura Y, Kusakabe A, Narahara S, Tokunaga T, Nagaoka K, Murakami S, Inoue T, Kuroyanagi K, Kawamura H, Fujiwara K, Nojiri S, Kataoka H, Tanaka Y: Serum interleukin-6 levels at the start of the second course of atezolizumab plus bevacizumab therapy predict therapeutic efficacy in patients with advanced hepatocellular carcinoma: A multicenter analysis.*J Gastroenterol Hepatol* 39:10:2158-2168, 2024
 24. Ji F, Tran S, Ogawa E, Huang CF, Suzuki T, Wong YJ, Toyoda H, Jun DW, Li L, Uojima H, Nozaki A, Chuma M, Tseng CH, Hsu YC, Ishigami M, Honda T, Atsukawa M, Haga H, Enomoto M, Trinh H, Preda CM, Vutien P, Landis C, Lee DH, Watanabe T, Takahashi H, Abe H, Asai A, Eguchi Y, Li J, Wang X, Li J, Liu J, Liang J, Lam CP, Huang R, Ye Q, Pan H, Zhang J, Cai D, Wang Q, Huang DQ, Wong G, Wong VW, Li J, Do S, Furusyo N, Nakamuta M, Nomura H, Kajiwarra E, Yoon EL, Ahn SB, Azuma K, Dohmen K, An J, Song DS, Cho HC, Kawano A, Koyanagi T, Ooho A, Satoh T, Takahashi K, Yeh ML, Tsai PC, Yasuda S, Zhao Y, Liu Y, Okubo T, Itokawa N, Jun MJ, Ishikawa T, Takaguchi K, Senoh T, Zhang M, Zhao C, Alecu RI, Xuan Tay W, Devan P, Liu JK, Kozuka R, Vargas-Accarino E, Do AT, Maeda M, Chuang WL, Huang JF, Dai CY, Cheung R, Buti M, Niu J, Xie W, Ren H, Lim SG, Wu C, Yuen MF, Shang J, Zhu Q, Ueno Y, Tanaka Y, Hayashi J, Yu ML, Nguyen MH: Real-world Effectiveness and Tolerability of Interferon-free Direct-acting Antiviral for 15,849 Patients with Chronic Hepatitis C: A Multinational Cohort Study.*J Clin Transl Hepatol* 12:7:646-658, 2024
 25. Miyamoto H, Kondo Y, Itobayashi E, Uehara M, Hiraoka A, Kudo M, Kakizaki S, Kagawa T,

- Miuma S, Suzuki T, Sugi K, Suyama K, Beppu T, Toyoda H, Yoshiji H, Uojima H, Miyase S, Inoue K, Tamori A, Ito T, Shimose S, Suda G, Hayashi T, Onishi M, Narahara S, Watanabe T, Iwatsuki M, Fukushima S, Tanaka Y: Evaluation of the associations of interleukin-7 genetic variants with toxicity and efficacy of immune checkpoint inhibitors: A replication study of a Japanese population, based on the findings of a European genome-wide association study. *Hepatol Res* 54:12:1215-1225, 2024
26. Yanagisawa H, Maeda H, Noguchi I, Tanaka M, Wada N, Nagasaki T, Kobayashi K, Kanazawa G, Taguchi K, Chuang VTG, Sakai H, Nakashima H, Kinoshita M, Kitagishi H, Iwakiri Y, Sasaki Y, Tanaka Y, Otagiri M, Watanabe H, Maruyama T: Carbon monoxide-loaded red blood cells ameliorate metabolic dysfunction-associated steatohepatitis progression via enhancing AMP-activated protein kinase activity and inhibiting Kupffer cell activation. *RedoxBiol* 76:103314, 2024
 27. Suzuki T, Matsuura K, Suzuki Y, Okumura F, Nagura Y, Sobue S, Kato D, Kusakabe A, Koguchi H, Hasegawa I, Matoya S, Miyaki T, Kimura Y, Tanaka Y, Kondo H, Ozasa A, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Kataoka H; Sakurayama Liver Study Group: Prognostic Nutritional Index after Introduction of Atezolizumab with Bevacizumab Predicts Prognosis in Advanced Hepatocellular Carcinoma: A Multicenter Study. *Oncology* 102:8:676-687, 2024
 28. Tanaka Y, Nakamoto D, Piao Y, Mizutani H, Wakabayashi R, Saito Y, Kwon KM, Dickinson H: Implementation of Guideline-Based HBV Reactivation Management in Patients with Chronic HBV Infections of HBsAg or Resolved HBV Infection Undergoing Immunosuppressive Therapy. *Infect Dis Ther* 13:7:1607-1620, 2024
 29. Suzuki T, Matsuura K, Inoue T, Sasada K, Ogawa S, Watanabe T, Kawamura H, Fujiwara K, Kataoka H, Tanaka Y: Clinical performance of Circulating HBV RNA and iTACT-HBcrAg Assays in HBeAg-negative and HBsAg-cleared Chronic Hepatitis B Patients. *J Med Virol* 96:7: e29816, 2024
 30. Shiraishi K, Nakaura T, Yoshida N, Matsuo K, Kobayashi N, Hokamura M, Uetani H, Nagayama Y, Kidoh M, Morita K, Yamashita Y, Tanaka Y, Baba H, Hirai T: Deep Learning Reconstruction for Enhanced Resolution and Image Quality in Breath-Hold MRCP: A Preliminary Study. *J Comput Assist Tomogr* 2024 Nov 13. doi: 10.1097/RCT.0000000000001680. Online ahead of print
 31. Sometani E, Hikita H, Murai K, Toyoda H, Tanaka S, Oze T, Sung J, Shimoda A, Fukuoka M, Shigeno S, Fukutomi K, Shirai K, Tahata Y, Saito Y, Nishio A, Furuta K, Kodama T, Sakamori R, Tatsumi T, Mita E, Umezawa A, Tanaka Y, Takehara T: High serum growth differentiation factor 15 is a risk factor for the occurrence of hepatocellular carcinoma in chronic hepatitis B patients treated with nucleos(t)ide analogs. *Hepatol Res* 2024 Sep 18. doi: 10.1111/hepr.14111. Online ahead of print.

32. Kuwata T, Kaku Y, Biswas S, Matsumoto K, Shimizu M, Kawanami Y, Uraki R, Okazaki K, Minami R, Nagasaki Y, Nagashima M, Yoshida I, Sadamasu K, Yoshimura K, Ito M, Kiso M, Yamayoshi S, Imai M, Ikeda T, Sato K, Toyoda M, Ueno T, Inoue T, Tanaka Y, Kimura KT, Hashiguchi T, Sugita Y, Noda T, Morioka H, Kawaoka Y, Matsushita S; Genotype to Phenotype Japan (G2P-Japan) Consortium: Induction of IGHV3-53 public antibodies with broadly neutralising activity against SARS-CoV-2 including Omicron subvariants in a Delta breakthrough infection case.*eBioMedicine* 110:105439, 2024
33. Tang J, Funasaki S, Nishizawa H, Kuroda S, Motoshima T, Wu C, Mawas AS, Satou Y, Arima Y, Hasumi H, Jikuya R, Makiyama K, Oike Y, Tanaka Y, Baba M, Kamba T: ARID2 Deficiency Enhances Tumor Progression via ERBB3 Signaling in TFE3-Rearranged Renal Cell Carcinoma. *Curr. Issues Mol. Biol* 46:12:13675-13695, 2024
34. Suzuki T, Tamori A, Matsuura K, Inoue T, Kusumoto S, Hagiwara S, Sagi H, Kaneko A, Murakami S, Kawamura H, Fujiwara K, Aoyagi K, Enomoto M, Kozuka R, Kataoka H, Tanaka Y: Clinical usefulness of an ultra-high-sensitivity hepatitis B surface antigen assay to determine the cessation of treatment for HBV reactivation.*Ann Hepatol* 30:1:10764, 2024
35. Kawakami Y, Shichijo S, Uedo N, Weiquan Li J, Nobre R, Tani Y, Kitagawa D, Ninomiya T, Ueda T, Asada Y, Okubo Y, Kizawa A, Yoshii S, Kanesaka T, Higashino K, Michida T, Ishihara R, Shinno N, Hara H, Omori T, Tanaka Y: Endoscopic mucosal resection and open-lid submucosal biopsy for the diagnosis of diffuse infiltrative gastric cancer: a retrospective observational study.*Scand J Gastroenterol* 2024Dec27:1-5. doi: 10.1080/00365521.2024.2447526. Online ahead of print.
36. Kugiyama N, Nagaoka K, Yamada R, Watanabe T, Yamazaki H, Ushijima S, Otsuka F, Uramoto Y, Iwasaki H, Yoshinari M, Hashigo S, Hayashi H, Ishimoto T, Komohara Y, Tanaka Y: Serum Mac2-binding protein glycosylated isomer (M2BPGi) as a prognostic biomarker in pancreatic ductal adenocarcinoma: iCAFs-derived M2BPGi drives tumor invasion. *J Gastroenterol* 2024 Dec 11. doi: 10.1007/s00535-024-02195-8. Online ahead of print.
37. Suzuki T, Matsuura K, Inoue T, Kawamura H, Fujiwara K, Kataoka H, Tanaka Y: Factors associated with low hepatitis B surface antigen levels in chronic hepatitis B patients treated with nucleot(s)ide analogs. *Hepatol Res* 2024 Oct 26. doi: 10.1111/hepr.14129. Online ahead of print.
38. Inada H, Miyamoto H, Shinriki S, Oda H, Narahara S, Yoshinari M, Nagaoka K, Yoshii D, Fukubayashi K, Hayashi H, Baba H, Nosaka K, Tanaka Y: Clinical utility of a comprehensive genomic profiling test for patient with advanced biliary tract cancer. *Int J Clin Oncol* 29:12:1908-1915, 2024
39. Kudaravalli S, Huang DQ, Yeh ML, Trinh L, Tsai PC, Hsu YC, Kam LY, Nguyen VH, Ogawa E, Lee DH, Ito T, Watanabe T, Enomoto M, Preda CM, Ko MKL, Wan-Hin Hui R, Atsukawa M, Suzuki T, Marciano S, Barreira A, Do S, Uojima H, Takahashi H, Quek SXZ, Toe Wai Khine HH,

- Ishigami M, Itokawa N, Go MS, Kozuka R, Marin RI, Sandra I, Li J, Zhang JQ, Wong C, Yoshimaru Y, Vo DKH, Tseng CH, Lee CJ, Inoue K, Maeda M, Hoang JK, Chau A, Chuang WL, Dai CY, Huang JF, Huang CF, Buti M, Tanaka Y, Gadano AC, Yuen MF, Cheung R, Lim SG, Trinh HN, Toyoda H, Yu ML, Nguyen MH: Sex and ethnic disparities in hepatitis B evaluation and treatment across the world. *J Hepatol* 81:1:33-41, 2024
40. Kitagawa K, Kim KS, Iwamoto M, Hayashi S, Park H, Nishiyama T, Nakamura N, Fujita Y, Nakaoka S, Aihara K, Perelson AS, Allweiss L, Dandri M, Watashi K, Tanaka Y, Iwami S: Multiscale modeling of HBV infection integrating intra- and intercellular viral propagation to analyze extracellular viral markers. *PLoS Comput Biol* 20(3): e1011238, 2024
 41. Nishizawa H, Funasaki S, Ma W, Kubota Y, Watanabe K, Arima Y, Kuroda S, Ito T, Furuya M, Motoshima T, Nishiyama A, Mehanna S, Satou Y, Hasumi H, Jikuya R, Makiyama K, Tamura T, Oike Y, Tanaka Y, Suda T, Schmidt LS, Linehan WM, Baba M, Kamba T: HIF1 α Plays a Crucial Role in the Development of TFE3-Rearranged Renal Cell Carcinoma by Orchestrating a Metabolic Shift Toward Fatty Acid Synthesis. *Genes Cells* 30:1: e13195, 2025
 42. Njouom R, Ndiaye A, Modiyinji AF, Lissack F, Vincent JP, Baba M, Yamamoto N, Kaneko A, Aoyagi K, Hashimoto N, Nagai M, Ichikawa M, Miura T, Sugiura W, Tanaka Y, Shimakawa Y: Rapid test for hepatitis B core-related antigen to identify people living with hepatitis B having high viral load in Cameroon. *Virology* 602:11036, 2025
 43. Buti M, Heo J, Tanaka Y, Andreone P, Atsukawa M, Cabezas J, Chak E, Coffin CS, Fujiwara K, Gankina N, Gordon SC, Janczewska E, Komori A, Lampertico P, McPherson S, Morozov V, Plesniak R, Poulin S, Ryan P, Sagalova O, Sheng G, Voloshina N, Xie Q, Yim HJ, Dixon S, Paff M, Felton L, Lee M, Greene T, Lim J, Lakshminarayanan D, McGonagle G, Plein H, Youssef A, Elston R, Kendrick S, Theodore D: Sequential Peg-IFN after bepirovirsen may reduce post-treatment relapse in chronic hepatitis B. *J Hepatol* 82:2:222-234, 2025
 44. Kim KS, Iwamoto M, Kitagawa K, Park H, Hayashi S, Tsukuda S, Matsui T, Atsukawa M, Matsuura K, Chuaypen N, Tangkijvanich P, Allweiss L, Nishiyama T, Nakamura N, Fujita Y, Kawakami E, Nakaoka S, Muramatsu M, Aihara K, Wakita T, Perelson AS, Dandri M, Watashi K, Iwami S, Tanaka Y: Prediction of cccDNA dynamics in hepatitis B patients by a combination of serum surrogate markers. *PLoS Comput Biol* 21:1, 2025
 45. Li CL, Hsu CL, Lin YY, Ho MC, Hu RH, Tzeng ST, Wang YC, Tanaka Y, Chen PJ, Yeh SH: HBV DNA integration and somatic mutations in HCC patients with HBV-HCV dual infection reveals profiles intermediate between HBV- and HCV-related HCC. *J Biomed Sci* 32:1:2, 2025
 46. Usuku H, Yamamoto E, Higashi R, Nozuhara A, Shirahama Y, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Arima Y, Kawano H, Izumiya Y, Tanaka Y, Tsujita K: Prognostic value of left atrial stiffness in patients undergoing transcatheter aortic valve implantation. *Int J Cardiol Heart Vasc.* 56:101559. doi: 10.1016/j.ijcha.2024.101559. eCollection, 2025 Feb.

47. Wu D, Kao JH, Piratvisuth T, Wang X, Kennedy PTF, Otsuka M, Ahn SH, Tanaka Y, Wang G, Yuan Z, Li W, Lim YS, Niu J, Lu F, Zhang W, Gao Z, Kaewdech A, Han M, Yan W, Ren H, Hu P, Shu S, Kwo PY, Wang FS, Yuen MF, Ning Q: Update on the treatment navigation for functional cure of chronic hepatitis B: expert consensus 2.0. *Clin Mol Hepatol*, 2025 Jan 22. doi: 10.3350/cmh.2024.0780. Online ahead of print.
48. Tayama S, Miyamoto H, Waki K, Honda M, Matsuno K, Gushima R, Naoe H, Imuta M, Kawakami F, Komohara Y, Miyamaru S, Murakami D, Orita Y, Tanaka Y: Human papillomavirus positivity is negatively associated with oropharyngeal cancer detection by esophagogastroduodenoscopy. *Int J Clin Oncol*, 2025. Online ahead of print.

11) Department of Cell Pathology

1. Pan C, Fujiwara Y, Yano H, Anami T, Ibe Y, Li L, Miura Y, Motoshima T, Esumi S, Yatsuda J, Hibi T, Kamba T, Komohara Y. The contribution of the CRP/CD64 axis to renal cancer progression by inducing protumor activation of tumor-associated macrophages. *Clin Transl Immunology*. 13:e70013, 2024
2. Endo S, Nishimura N, Toyoda K, Komohara Y, Carreras J, Yuki H, Shichijo T, Ueno S, Ueno N, Hirata S, Kawano Y, Nosaka K, Miyaoka M, Nakamura N, Sato A, Ando K, Mitsuya H, Akashi K, Tenen DG, Yasunaga JI, Matsuoka M, Okuno Y, Tatetsu H. Decreased PU.1 expression in mature B cells induces lymphomagenesis. *Cancer Sci*. 115:3890-3901, 2024
3. Ezaki A, Yano H, Pan C, Fujiwara Y, Anami T, Ibe Y, Motoshima T, Yatsuda J, Esumi S, Miura Y, Kamba T, Komohara Y. Potential protumor function of CD74 in clear cell renal cell carcinoma. *Hum Cell*. 37:1535-1543, 2024
4. Nishitsuji K, Mito R, Ikezaki M, Yano H, Fujiwara Y, Matsubara E, Nishikawa T, Ihara Y, Uchimura K, Iwahashi N, Sakagami T, Suzuki M, Komohara Y. Impacts of cytoplasmic p53 aggregates on the prognosis and the transcriptome in lung squamous cell carcinoma. *Cancer Sci*. 115:2947-2960, 2024
5. Hara Y, Baba Y, Oda E, Harada K, Yamashita K, Toihata T, Kosumi K, Iwatsuki M, Miyamoto Y, Tsutsuki H, Gan Q, Waters RE, Komohara Y, Sawa T, Ajani JA, Baba H. Presence of *Fusobacterium nucleatum* in relation to patient survival and an acidic environment in oesophagogastric junction and gastric cancers. *Br J Cancer*. 131:797-807, 2024
6. Tresky R, Miyamoto Y, Nagayoshi Y, Yabuki Y, Araki K, Takahashi Y, Komohara Y, Ge H,

Nishiguchi K, Fukuda T, Kaneko H, Maeda N, Matsuura J, Iwasaki S, Sakakida K, Shioda N, Wei FY, Tomizawa K, Chujo T. TRMT10A dysfunction perturbs codon translation of initiator methionine and glutamine and impairs brain functions in mice. *Nucleic Acids Res.*52;9230-9246, 2024

7. Sonokawa T, Fujiwara Y, Pan C, Komohara Y, Usuda J. Enhanced systemic antitumor efficacy of PD-1/PD-L1 blockade with immunological response induced by photodynamic therapy. *Thorac Cancer.* 215:1429-1436, 2024.
8. Kanemitsu K, Yamada R, Pan C, Tsukamoto H, Yano H, Shiota T, Fujiwara Y, Miyamoto Y, Mikami Y, Baba H, Komohara Y. Age-Associated Reduction of Sinus Macrophages in Human Mesenteric Lymph Nodes. *J Clin Exp Hematop.* 64:79-85, 2024
9. Harada M, Kotani H, Iida Y, Tanino R, Minami T, Komohara Y, Yoshikawa K, Uemura H. Hypoxia-related carbonic anhydrase 9 induces serpinB9 expression in cancer cells and apoptosis in T cells via acidosis. *Cancer Sci.* 115:1405-1416, 2024
10. Zhao S, Li L, Komohara Y, Matsubara E, Shinchu Y, Adawy A, Yano H, Pan C, Fujiwara Y, Ikeda K, Suzu S, Hibi T, Suzuki M. IL-32 production from lung adenocarcinoma cells is potentially involved in immunosuppressive microenvironment. *Med Mol Morphol.* 57:91-100, 2024
11. Watanabe H, Xu W, Uno H, Uraya Y, Kugita M, Komohara Y, Niidome T, Sasaki M, Shimizu I, Fujita N, Kawano Y. Fluoride-treated rare earth-free magnesium alloy ZK30: An inert and bioresorbable material for bone fracture treatment devices. *J Biomed Mater Res A.* 112:963-972, 2024
12. Hirao H, Adawy A, Li L, Yoshii D, Yano H, Fujiwara Y, Honda M, Harada M, Yamamoto M, Komohara Y, Hibi T. The expression analysis of SerpinB9 in hepatoblastoma microenvironment. *Pediatr Surg Int.* 40:55, 2024.
13. Tatsuno R, Ichikawa J, Komohara Y, Pan C, Kawasaki T, Enomoto A, Aoki K, Hayakawa K, Iwata S, Jubashi T, Haro H. Pivotal role of IL-8 derived from the interaction between osteosarcoma and tumor-associated macrophages in osteosarcoma growth and metastasis via the FAK pathway. *Cell Death Dis.* 15:108, 2024.
14. Li L, Kanemitsu K, Ohnishi K, Yamada R, Yano H, Fujiwara Y, Miyamoto Y, Mikami Y, Hibi T,

Baba H, Komohara Y. CXCL10 Expression in Human Colorectal Cancer Tissue and its Correlation With Serum Levels of CXCL10. *Cancer Genomics Proteomics*. 21, 54-64, 2024.

15. Komohara Y. Highlights: Myeloid cells in lymphoid malignancies. *J Clin Exp Hematop*. 64;273-274, 2024
16. Fujiwara Y, Yano H, Pan C, Shiota T, Komohara Y. Anticancer immune reaction and lymph node sinus macrophages: a review from human and animal studies. *J Clin Exp Hematop*. 64; 71-78, 2024
17. Adawy A, Komohara Y, Hibi T. Tumor-associated macrophages: The key player in hepatoblastoma microenvironment and the promising therapeutic target. *Microbiol Immunol*. 68; 249-253, 2024
18. Matsuzaki H, Pan C, Komohara Y, Yamada R, Yano H, Fujiwara Y, Kai K, Mukasa A. The roles of glioma-associated macrophages/microglia and potential targets for anti-glioma therapy. *Immunol Med*. 1-9, 2024
19. Adawy A, Komohara Y, Hibi T. Tumor-associated macrophages: The key player in hepatoblastoma microenvironment and the promising therapeutic target. *Microbiol Immunol*. 2024
20. Histiocytic neoplasms: a brief review and differential diagnosis. Yamada R, Komohara Y. *J Clin Exp Hematop*. 64; 156-165, 2024
21. Tatsuno R, Komohara Y, Pan C, Kawasaki T, Enomoto A, Jubashi T, Kono H, Wako M, Ashizawa T, Haro H, Ichikawa J. Surface Markers and Chemokines/Cytokines of Tumor-Associated Macrophages in Osteosarcoma and Other Carcinoma Microenvironments-Contradictions and Comparisons. *Cancers (Basel)*. 16;2801, 2024
22. Fujiwara Y, Yano H, Pan C, Shiota T, Komohara Y. Anticancer immune reaction and lymph node sinus macrophages: a review from human and animal studies. *J Clin Exp Hematop*. 64:71-78, 2024.

12) Department of Diagnostic Radiology

1. Sasaki G, Uetani H, Kuroda JI, Kitajima M, Ishiuchi S, Sato K, Wang Y, Mukasa A, Hirai T.

Dynamic susceptibility contrast perfusion MRI helps in differentiating double-expressor from non-double-expressor subtypes in primary central nervous system lymphoma.

Neuroradiology. 2024 Dec 19. doi: 10.1007/s00234-024-03511-y. Online ahead of print.

2. Kobayashi N, Nakaura T, Yoshida N, Nagayama Y, Kidoh M, Uetani H, Sakabe D, Kawamata Y, Funama Y, Tsutsumi T, Hirai T. Impact of deep learning reconstruction on radiation dose reduction and cancer risk in CT examinations: a real-world clinical analysis.

Eur Radiol. 2024 Nov 29. doi: 10.1007/s00330-024-11212-6. Online ahead of print.

3.

Kanaya H, Shiraishi S, Ogasawara K, Iwashita K, Sakamoto F, Takashio S, Mikami Y, Tsujita K, Hirai T. Inverse correlation between age of onset and myocardial amyloid deposition quantified by ^{99m}Tc-PYP scintigraphy in patients with wild-type transthyretin amyloid cardiomyopathy. *Ann Nucl Med*. 2024 Sep;38(9):744-753. doi: 10.1007/s12149-024-01943-3.

4. Nagayama Y, Hayashi H, Taguchi N, Yoshida R, Harai R, Kidoh M, Oda S, Nakaura T, Hirai T. Diagnostic performance of hepatic CT and chemical-shift MRI to discriminate lipid-poor adrenal adenomas from hepatocellular carcinoma metastases. *Abdom Radiol (NY)*. 2024 May;49(5):1626-1637. doi: 10.1007/s00261-024-04228-5.

13) Division of Pulmonary Surgery

1. Nishi Y, Wakamatsu E, Machiyama H, Matsushima R, Yoshida Y, Nishikawa T, Toyota H, Furuhashi M, Nishijima H, Takeuchi A, Suzuki M, Yokosuka T

Molecular Imaging of PD-1 Unveils Unknown Characteristics of PD-1 Itself by Visualizing “PD-1 Microclusters” Basic Immunology and Its Clinical Application Chapter **Chapter First Online:** 12 March 2024 Basic Immunology and Its Clinical Application pp 197–205

2. Yamada H, Yamada R, Komohara Y, Mito R, Nishitsuji K, Yano H, Fujiwara Y, Ikeda K, Suzuki M. A Case of Aggressive Lung Squamous Cell Carcinoma With Aberrant Cytoplasmic p53 Aggregation. *Cancer Diagn Progn*. 2024 Mar 3;4(2):204-208. doi: 10.21873/cdp.10309. eCollection 2024 Mar-Apr. PMID: 38434916

3. Zhao S, Li L, Komohara Y, Matsubara E, Shintani Y, Adawy A, Yano H, Pan C, Fujiwara Y, Ikeda K, Suzuki S, Hibi T, Suzuki M. IL-32 production from lung adenocarcinoma cells is potentially involved in immunosuppressive microenvironment. *Med Mol Morphol*. 2024 Feb 6. doi: 10.1007/s00795-023-00378-5. Online ahead of print. PMID: 38316697

4. Anai M, Saruwatari K, Imamura K, Fujino K, Jodai T, Sakata S, Iyama S, Tomita Y, Saeki S, Ichiyasu H, Ikeda K, Suzuki M, Sakagami T. Negative impact of ratio of the microvascular area to tumor area on the response to EGFR-TKI in non-small cell lung cancer with an EGFR mutation. *J Thorac Dis*. 2024 Feb 29;16(2):1151-1160. doi: 10.21037/jtd-23-1723. Epub 2024 Feb 26. PMID: 38505064

5. Shirakami C, Ikeda K, Hinokuma H, Nishi W, Shinchu Y, Matsubara E, Osumi H, Fujino K, Suzuki M. MNF2 Expression in Cancer Tissues and Lymph Nodes Suggests Post-Surgery Recurrence of NonSmallCellLungCancer. *Diagnostics(Basel)* 2024 Feb 21;14(5):471. doi:10.3390/diagnostics14050471. PMID: 38472943 PMCID: PMC10930777 DOI: 10.3390/diagnostics14050471

6. Miyazaki T, Matsumoto K, Sato T, Sano I, Furukawa K, Shimoyama K, Kamohara R, Suzuki M, Kondou M, Ikeda N, Tabata S, Shiosakai K, Nagayasu T; ADMIT-NeP Study group. Efficacy and safety of add-on mirogabalin to conventional therapy for the treatment of peripheral neuropathic pain after thoracic surgery: the multicenter, randomized, open-label ADMIT-NeP study. *BMC Cancer*. 2024 Jan 15;24(1):80. doi: 10.1186/s12885-023-11708-2. PMID: 38225552

7. Nishitsuji K, Mito R, Ikezaki M, Yano H, Fujiwara Y, Matsubara E, Nishikawa T, Ihara Y, Uchimura K, Iwahashi N, Sakagami T, Suzuki M, Komohara Y. Impacts of cytoplasmic p53 aggregates on the prognosis and the transcriptome in lung squamous cell carcinoma. *Cancer Science*. 2024;115:2947–2960.

8. Tetsuya Mizuno, Toyofumi Fengshi Chen-Yoshikawa, Ichiro Yoshino, Meinoshin Okumura, Norihiko Ikeda, Koji Kuroda, Yoshimasa Maniwa, Masato Kanzaki, Makoto Suzuki; Japanese Association for Research on the Thymus. Updated outcomes of surgical treatment for recurrent thymic tumour: a report from the Japanese nationwide database. *Interdiscip Cardiovasc Thorac Surg*. 2024 Jun 5;38(6):ivae064. doi: 10.1093/icvts/ivae064. PMID: 38897650 PMCID: PMC11193311 DOI: 10.1093/icvts/ivae064

9. Matsushima R, Wakamatsu E, Machiyama H, Nishi W, Yoshida Y, Nishikawa T, Toyota H, Furuhashi M, Nishijima H, Takeuchi A, Suzuki M, Yokosuka T. Imaging of biphasic signalosomes constructed by checkpoint receptor 2B4 in conventional and chimeric antigen receptor-T cells. *iScience*. 2024 Dec 21;28(1):111669. doi: 10.1016/j.isci.2024.111669. eCollection 2025 Jan 17. PMID: 39886466

14) Department of Neurosurgery

1. Matsuzaki H, Pan C, Komohara Y, Yamada R, Yano H, Fujiwara Y, Kai K, Mukasa A: The roles of glioma-associated macrophages/microglia and potential targets for anti-glioma therapy.*Immunol Med*. 11: 1-9, 2024doi: 10.1080/25785826.2024.2411035. Online ahead of print.PMID: 39391957
2. Hana T, Mukasa A, Nomura M, Nagae G, Yamamoto S, Tatsuno K, Ueda H, Fukuda S, Umeda T, Tanaka S, Nejo T, Kitagawa Y, Yamazawa E, Takahashi S, Koike T, Kushihara Y, Takami H, Takayanagi S, Aburatani H, Saito N.Region-specific DNA hydroxymethylation along the malignant progression of IDH-mutant gliomas.*Cancer Sci*. 115(5): 1706-1717, 2024 doi: 10.1111/cas.16127. Epub 2024 Mar 3.PMID: 38433527 Free PMC article.
3. Matsuura J, Akichika S, Wei FY, Suzuki T, Yamamoto T, Watanabe Y, Valášek LS, Mukasa A, Tomizawa K, Chujo T.Human DUS1L catalyzes dihydrouridine modification at tRNA positions 16/17, and DUS1L overexpression perturbs translation.*Commun Biol*. 7(1): 1238, 2024doi: 10.1038/s42003-024-06942-8.PMID: 39354220 Free PMC article.
4. Takami H, Matsutani M, Suzuki T, Takabatake K, Fujimaki T, Okamoto M, Yamaguchi S, Kanamori M, Matsuda K, Sonoda Y, Natsumeda M, Ichinose T, Nakada M, Muroi A, Ishikawa E, Takahashi M, Narita Y, Tanaka S, Saito N, Higuchi F, Shin M, Mineharu Y, Arakawa Y, Kagawa N, Kawabata S, Wanibuchi M, Takayasu T, Yamasaki F, Fujii K, Ishida J, Date I, Miyake K, Fujioka Y, Kuga D, Yamashita S, Takeshima H, Shinojima N, Mukasa A, Asai A, Nishikawa R.Phase II Trial of Pathology-based Tripartite Treatment Stratification for Patients with CNS Germ Cell Tumors: A Long-term Follow-up Study.*Neuro Oncol*. noae229, 2024 doi: 10.1093/neuonc/noae229. Online ahead of print.PMID: 39492661
5. Hokamura M, Uetani H, Hamasaki T, Nakaura T, Morita K, Yamashita Y, Kitajima M, Sugitani A, Mukasa A, Hirai T.Effect of deep learning-based reconstruction on high-resolution three-dimensional T2-weighted fast asymmetric spin-echo imaging in the preoperative evaluation of cerebellopontine angle tumors.*Neuroradiology*. 66(7): 1123-1130, 2024 doi: 10.1007/s00234-024-03328-9. Epub 2024 Mar 14.PMID: 38480538
6. Inoue H, Kuroda JI, Uetani H, Matsuyama T, Kaku Y, Shinojima N, Hirai T, Mukasa A. Postoperative disappearance of leptomeningeal enhancement around the brainstem in glioblastoma.*Neuroradiology*. 66(3): 325-332, 2024doi: 10.1007/s00234-023-03275-x. Epub 2024 Jan 10.PMID: 38200284
7. Izumi S, Takezaki T, Takeshima Y, Hamasaki T, Mukasa A. A Case of Trigeminal Neuralgia in an Adult Patient With Lambdoid Synostosis. *Cureus*. 16(3): e56918, 2024doi: 10.7759/cureus.56918. eCollection 2024 Mar.PMID: 38665710 Free PMC article.
8. Miyazaki A, Makino K, Shinojima N, Yamashita S, Mikami Y, Mukasa A.

Spinal Dissemination of Pineal Parenchymal Tumors of Intermediate Differentiation Over 10 Years After Initial Treatment: A Case Report.

Cureus. 16(3): e57147, 2024doi: 10.7759/cureus.57147. eCollection 2024 Mar.PMID: 38681294 Free PMC article.

9. Hattori K, Makishima K, Suma S, Abe Y, Suehara Y, Sakamoto T, Kurita N, Ishii R, Matsuoka R, Matsuda M, Tsurubuchi T, Nishikawa R, Tanaka S, Mukasa A, Narita Y, Ichimura K, Nagane M, Takano S, Mathis BJ, Ishikawa E, Matsubara D, Chiba S, Sakata-Yanagimoto M. Association between microenvironment-related genes and prognosis of primary central nervous system lymphoma.**EJHaem.** 5(6): 1201-1214, 2024
doi: 10.1002/jha2.1046. eCollection 2024 Dec.PMID: 39691244 Free PMC article.
10. Matsubara S, Nakajima M, Kaku Y, Mukasa A, Ueda M. Percutaneous Cerebral Angioplasty for Refractory Middle Cerebral Artery Stenosis Due to Varicella-Zoster Virus-Related Vasculopathy: A Case Report.**Cureus.** 16(9): e69773, 2024
doi: 10.7759/cureus.69773. eCollection 2024 Sep.PMID: 39429375 Free PMC article.
11. Sasaki G, Uetani H, Kuroda JI, Kitajima M, Ishiuchi S, Sato K, Wang Y, Mukasa A, Hirai T. Dynamic susceptibility contrast perfusion MRI helps in differentiating double-expressor from non-double-expressor subtypes in primary central nervous system lymphoma.
Neuroradiology. 2024 Dec 19. doi: 10.1007/s00234-024-03511-y. Online ahead of print.PMID: 39699645
12. Inoue H, Kuroda JI, Fujioka Y, Hata N, Mizoguchi M, Yoshii D, Sueyoshi H, Takeshima Y, Fujimoto K, Shinojima N, Sunami K, Mikami Y, Nakamura H, Mukasa A. Drug-resistant *BRAF* V600E-mutant recurrent pleomorphic xanthoastrocytoma, CNS WHO Grade 3 successfully resolved with incidental discontinuation of combined *BRAF* and *MEK* inhibitor therapy.**Surg Neurol Int.** 15: 417, 2024
doi: 10.25259/SNI_734_2024. eCollection 2024.PMID: 39640311 Free PMC article.
13. Uchimura R, Khant ZA, Hayashi H, Nagayama Y, Uetani H, Kaku Y, Nagatomo T, Tamura Y, Yokogami K, Mukasa A, Kiyosue H, Azuma M, Hirai T. Usefulness of Dual-Energy CT for Differentiating Hemorrhage From Iodine Extravasation in Meningiomas After Preoperative Embolization..**J Comput Assist Tomogr.** 2024 Nov 13.
doi: 10.1097/RCT.0000000000001685. Online ahead of print.PMID: 39761489
14. Murakami H, Mizutani H, Nakahara K, Uetani H, Kaku Y, Nakajima M, Mukasa A, Hirai T, Ueda M.Utilization of Heavily T2-Weighted Imaging and Dynamic Contrast-Enhanced 3T Magnetic Resonance Angiography for Diagnosing Spinal Extradural Arteriovenous Fistula: A Case Report.**Cureus.** 16(12): e76708, 2024
doi: 10.7759/cureus.76708. eCollection 2024 Dec.PMID: 39898149 Free PMC article.

15. Matsuzaki H, Kai K, Komohara Y, Yano H, Pan C, Fujiwara Y, Yamada R, Iwauchi A, Fukasawa N, Tanaka T, Shimoda M, Watanabe H, Maruyama T, Takeo T, Mikami Y, Mukasa A. Abnormal Vessels Potentially Accelerate Glioblastoma Proliferation by Inducing the Protumor Activation of Macrophages. *Cancer Sci.* 2025 Feb 7
doi: 10.1111/cas.70014. Online ahead of print. PMID: 39921277 Free article.
16. Kamenon K, Kaku Y, Ohmori Y, Takemoto Y, Uekawa K, Mukasa A. Artificial dural regeneration matrix as a substitute for autologous tissue in indirect bypass in Moyamoya disease: Investigation of a rat model of chronic cerebral hypoperfusion. *Neurosurg Rev.* 48(1): 48, 2025 Jan 14
doi: 10.1007/s10143-025-03185-x. PMID: 39810057 Free PMC article.

● Division of Nervous System, Sensory, and Locomotive Research

15) Department of Neurology

1. Fukunari A, Matsushita H, Furukawa T, Matsuzaki H, Tanaka H, Ogawa Y, Sugimura Y, Inoue F, Ueda M, Ando Y. Arginine: A potential prophylactic supplement for transthyretin amyloidosis. *Biochem Biophys Res Commun.* 2024
2. Takahashi K, Iwamura T, Sasaki D, Ueda M, Okura T. Wild-Type Transthyretin Amyloidosis With 99mTc-PYP Uptake in the Extracardiac Soft Tissues But Not in the Myocardium. *Clin Nucl Med.* 1;49(12):1136-1138. 2024
3. Morikawa K, Izumiya Y, Takashio S, Kawano Y, Oguni T, Kuyama N, Oike F, Yamamoto M, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Matsuzawa Y, Usuku H, Yamamoto E, Ueda M, Tsujita K. Early experience with daratumumab-containing regimens in patients with light-chain cardiac amyloidosis. *J Cardiol.* 20:S0914-5087(24)00216-8.2024
4. Honda K, Tasaki M, Yamano T, Ueda M, Naiki H, Tanaka N, Morinaga Y, Miyagawa-Hayashino A. High frequency of occult transthyretin and apolipoprotein AI-type amyloid in aortic valves removed by valve replacement for aortic stenosis. *Amyloid.* 11:1-7. 2024
5. Maruyama Saladini K, Koike H, Ueda M, Sekijima Y, Ando Y. [Proposals for the early diagnosis of late-onset hereditary ATTR amyloidosis in nonendemic areas in Japan]. *Rinsho Shinkeigaku.* 29;64(10):708-713. 2024
6. Suzuki Y, Tasaki M, Kakisaka K, Nishiya M, Nomura T, Nakao M, Sugawara E, Takikawa Y, Ueda M. Possible transmission of leukocyte chemotactic factor 2 amyloidosis after interpopulational liver transplantation. *Amyloid.*;31(3):232-234.2024

7. Yagi S, Miyamoto R, Tasaki M, Morino H, Otani R, Kadota M, Ise T, Yamazaki H, Kusunose K, Yamaguchi K, Yamada H, Soeki T, Wakatsuki T, Fukuda D, Ueda M, Sata M. The APOA1 p.Leu202Arg variant potentially causes autosomal recessive cardiac amyloidosis. *Hum Genome Var.* 16;11(1):30. 2024
8. Yamasaki H, Kondo H, Shiroy T, Iwata N, Masuda T, Makita T, Iwabuchi Y, Tanazawa K, Takahashi M, Ono Y, Ogawa N, Harada T, Mitarai K, Yamauchi S, Takano M, Kodama N, Hirota K, Miyoshi M, Yonezu K, Tawara K, Abe I, Saito S, Fukui A, Fukuda T, Akioka H, Shinohara T, Akiyoshi K, Teshima Y, Yufu K, Daa T, Matsubara E, Asayama Y, Ueda M, Takahashi N. Efficacy of Computed Tomography-Based Evaluation of Myocardial Extracellular Volume Combined With Red Flags for Early Screening of Concealed Cardiac Amyloidosis in Patients With Atrial Fibrillation. *Circ J.* 25;88(7):1167-1175. 2024
9. Kuyama N, Takashio S, Nakamura K, Nishigawa K, Hanatani S, Usuku H, Yamamoto E, Ueda M, Fukui T, Tsujita K. Coexisting transthyretin and atrial natriuretic peptide amyloid on left atrium in transthyretin amyloid cardiomyopathy. *J Cardiol Cases.* 4;29(6):261-264. 2024
10. Usuku H, Yamamoto E, Sueta D, Shinriki R, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Arima Y, Takashio S, Kawano Y, Oda S, Kawano H, Ueda M, Tsujita K. A new staging system using right atrial strain in patients with immunoglobulin light-chain cardiac amyloidosis. *ESC Heart Fail.*;11(3):1612-1624. 2024
11. Takahashi K, Iwamura T, Hiratsuka Y, Sasaki D, Yamamura N, Ueda M, Morioka H, Yoshino M, Enomoto D, Uemura S, Okura T, Sakaue T, Ikeda S. A Gluteus Medius Muscle Biopsy to Confirm Amyloid Transthyretin Deposition in Wild-type Transthyretin Cardiac Amyloidosis: A Report of Two Cases. *Intern Med.* 1;63(11):1575-1584. 2024
12. Kuyama N, Takashio S, Oguni T, Yamamoto M, Hirakawa K, Ishii M, Hanatani S, Oda S, Matsuzawa Y, Usuku H, Yamamoto E, Hirai T, Ueda M, Tsujita K. Cardiac Biomarker Change at 1 Year After Tafamidis Treatment and Clinical Outcomes in Patients With Transthyretin Amyloid Cardiomyopathy. *J Am Heart Assoc.* 21;13(10):e034518. 2024
13. Ueda M. [AL Amyloidosis]. *Brain Nerve.*;76(5):583-587. 2024
14. Nishizawa RH, Kawano H, Yoshimuta T, Eguchi C, Kojima S, Minami T, Sato D, Eguchi M, Okano S, Ikeda S, Ueda M, Maemura K. Effects of tafamidis on the left ventricular and left atrial

strain in patients with wild-type transthyretin cardiac amyloidosis. *Eur Heart J Cardiovasc Imaging*. 30;25(5):678-686. 2024

15. Urata M, Ito Y, Ogiya D, Kutsuzawa N, Ogura G, Ueda M, Hayama N, Oguma T, Asano K. Bilateral Hilar and Mediastinal Lymphadenopathy as an Initial Manifestation of Amyloidosis. *Tokai J Exp Clin Med*. 20;49(1):12-16. 2024
16. Takahashi K, Hiratsuka Y, Iwamura T, Sasaki D, Yamamura N, Kitazawa S, Ueda M, Morioka H, Okura T, Enomoto D, Uemura S, Kono T, Sakaue T, Ikeda S. Technetium-99m-pyrophosphate imaging-based computed tomography-guided core-needle biopsy of internal oblique muscle in wild-type transthyretin cardiac amyloidosis. *Amyloid*.;31(1):12-21. 2024
17. Ticaú S, Aldinc E, Polydefkis M, Adams D, Coelho T, Ueda M, Hale C, Vest J, Nioi P; Patisiran Global OLE Collaborators. Treatment response and neurofilament light chain levels with long-term patisiran in hereditary transthyretin-mediated amyloidosis with polyneuropathy: 24-month results of an open-label extension study. *Amyloid*.;31(1):1-11. 2024
18. Nomura T, Misumi Y, Tasaki M, Obayashi K, Yamashita T, Ando Y, Ueda M. Origin of Transthyretin in Cerebral Amyloid Angiopathy. *JAMA Neurol*. 26;81(4):421-3. 2024
19. Yamaguchi A, Tasaki M, Ueda M, Ando Y, Naiki H. Epidemiological study of the subtype frequency of systemic amyloidosis listed in the Annual of the Pathological Autopsy Cases in Japan. *Pathol Int*. 74(2):68-76. 2024
20. Ueda M, Misumi Y, Nomura T, Tasaki M, Yamakawa S, Obayashi K, Yamashita T, Ando Y. Disease-Modifying Drugs Extend Survival in Hereditary Transthyretin Amyloid Polyneuropathy. *Ann Neurol*. 95(2):230-236. 2024
21. Hayashi H, Oda S, Kidoh M, Yamaguchi S, Yoshimura F, Takashio S, Usuku H, Nagayama Y, Nakaura T, Ueda M, Tsujita K, Hirai T. Myocardial extracellular volume quantification in cardiac amyloidosis: a comparative study between cardiac computed tomography and magnetic resonance imaging. *Eur Radiol*. 34(2):1016-1025. 2024
22. Ouchi K, Isono K, Ohya Y, Shiraki N, Tasaki M, Inomata Y, Ueda M, Era T, Kume S, Ando Y, Jono H. Characterization of heterozygous ATTR Tyr114Cys amyloidosis-specific induced pluripotent stem cells. *Heliyon*. 17;10(2):e24590. 2024

23. Watanabe T, Takihara Y, Jono H, Fujimoto T, Tasaki M, Isoguchi A, Urahashi Y, Shimoda T, Takahashi E, Ando Y, Ueno S, Ueda M, Inoue T. Silencing of ocular transthyretin, a gene responsible for hereditary transthyretin amyloidosis, by intravitreal injection of an siRNA conjugate into rabbit eyes. *Biochem Biophys Res Commun.* 29;694:149397. 2024
24. Masuda T, Misumi Y, Nomura T, Yamakawa S, Tasaki M, Obayashi K, Ando Y, Ueda M. Correlation between a commercial electrophysiological test of sudomotor function and intraepidermal nerve fiber density in hereditary transthyretin amyloidosis. *Muscle Nerve.* 69(1):99-102. 2024

16) Department of Molecular Physiology

1. Morishima, T., Fakruddin, M., Kanamori, Y., Masuda, T., Ogawa, A., Wang, Y., Schooneberg, V., Butter, F., Arima, Y., Akaike, T., Moroishi, T., Tomizawa, K., Suda, T., Wei, F.-Y., Takizawa, H. Mitochondrial translation regulates terminal erythroid differentiation by maintaining iron homeostasis. *Sci. Adv.* (2025) in press.
2. Kosaka, Y., Miyawaki, Y., Mori, M., Aburaya, S., Nishizawa, C., Chujo, T., Niwa, T., Miyazaki, T., Sugita, T., Fukuyama, M., Taguchi, H., Tomizawa, K., Sugase, K., Ueda, M., and Aoki, W. Autonomous ribosome biogenesis in vitro. *Nat. Commun.* 16(1), 514 (2025).
3. Yamamura, R., Nagayoshi, Y., Nishiguchi, K., Kaneko, H., Yamamoto, K., Matsushita, K., Shimamura, M., Kunisawa, A., Sakakida, K., Chujo, T., Adachi, M., Kakizoe, Y., Izumi, Y., Kuwabara, T., Mukoyama, M., and Tomizawa, K. Bacteria-specific modified nucleoside is released and elevated in urine of patients with bacterial infections. *mBio.* 16(1), e0312424 (2025).
4. Chujo, T., Tomizawa, K. Mitochondrial tRNA modifications: functions, diseases caused by their loss, and treatment strategies. *RNA* rna.080257, 124 (2024).
5. Matsuura, J., Akichika, S., Wei, F.Y., Suzuki, T., Yamamoto, T., Watanabe, Y., Valášek, L.S., Mukasa, A., Tomizawa, K., and Chujo, T. Human DUS1L catalyzes dihydrouridine modification at tRNA positions 16/17, and DUS1L overexpression perturbs translation. *Commun. Biol.* 7(1), 1238 (2024).
6. Tresky, R., Miyamoto, Y., Nagayoshi, Y., Yabuki, Y., Araki, K., Takahashi, Y., Komohara, Y.,

Ge, H., Nishiguchi, K., Fukuda, T., Kaneko, H., Maeda, N., Matsuura, J., Iwasaki, S., Sakakida, K., Shioda, N., Wei, F.-Y., Tomizawa, K., and Chujo, T. TRMT10A dysfunction perturbs codon translation of initiator methionine and glutamine and impairs brain functions in mice. *Nucleic Acids Res.* 52(15), 9230-9246, 2024.

7. Ahmad, R.N.R., Zhang, L.T., Morita, R., Tani, H., Wu, Y., Chujo, T., Ogawa, A., Harada, R., Shigeta, Y., Tomizawa, K., and Wei FY. Pathological mutations promote proteolysis of mitochondrial tRNA-specific 2-thiouridylase 1 (MTU1) via mitochondrial caseinolytic peptidase (CLPP). *Nucleic Acids Res.* 52(3), 1341-1358, 2024.

17) Department of Sensory and Cognitive Physiology

1. Tomioka R, Shigematsu N, Miyashita T, Takahashi Y, Yamamoto M, Yoshimura Y, Kobayashi K, Yanagawa Y, Tamamaki N, Fukuda T, Song W-J: The external globus pallidus as the hub of the auditory cortico-basal ganglia loop. *eNeuro*, 11, 11, 2024.

18) Department of Molecular Brain Science

1. Yokoo T, Watanabe K, Iida K, Nakachi Y, Suzuki H, Shimano H, Takashima S, Okazaki Y, Yamada N, Toyoshima H: Betagenin ameliorates diabetes by inducing insulin secretion and β -cell proliferation. *Journal of Biological Chemistry*, in press

Yanagida Y, Naka I, Nakachi Y, Ikegame T, Kasai K, Kajitani N, Takebayashi M, Bundo M, Ohashi J, Iwamoto K: Development of a method for the imputation of the multi-allelic serotonin-transporter-linked polymorphic region (5-HTTLPR) in the Japanese population. *Journal of Human Genetics* 70:41-45, 2025
2. Asai T, Ikegame T, Satomura Y, Kumagai E, Minami T, Morita S, Kiyota M, Shoji E, Zhao Z, Kanehara A, Tada M, Okada N, Koike S, Bundo M, Iwamoto K, Kasai K, Jinde S: Lower plasma betaine levels in men at clinical high risk for psychosis: Findings from a metabolomics investigation. *Schizophrenia Research* 271: 281-282, 2024
3. Du J, Nakachi Y, Murata Y, Kiyota E, Kato T, Bundo M, Iwamoto K: Exploration of cell-type-specific somatic mutations in schizophrenia and the impact of maternal immune activation on the somatic mutation profile in the brain. *Psychiatry and Clinical Neurosciences* 78:237-247, 2024
4. Baba Y, Yasuda N, Bundo M, Nakachi Y, Ueda J, Ishimoto T, Iwatsuki M, Miyamoto Y,

Yoshida N, Oshiumi H, Iwamoto K, Baba H: LINE-1 hypomethylation, increased retrotransposition and tumor-specific insertion in upper gastrointestinal cancer. *Cancer Science* 115:247-256, 2024

5. Sugawara H, Date A, Fuke S, Nakachi Y, Kato T, Narita M, Bundo M, Iwamoto K: Quantification of cytosine modifications in the aged mouse brain. *Neuropsychopharmacology Reports* 44:250–255, 2024
6. Kajitani N, Okada-Tsuchioka M, Inoue A, Miyano K, Masuda T, Boku S, Iwamoto K, Ohtsuki S, Uezono Y, Aoki J, Takebayashi M: G protein-biased LPAR1 agonism of prototypic antidepressants: Implication in the identification of novel therapeutic target for depression. *Neuropsychopharmacology*, 49: 561–572, 2024

19) Department of Ophthalmology

1. Watanabe T, Takihara Y, Jono H, Fujimoto T, Tasaki M, Isoguchi A, Urahashi Y, Shimoda T, Takahashi E, Ando Y, Ueno S, Ueda M, Inoue T. Silencing of ocular transthyretin, a responsible gene for hereditary transthyretin amyloidosis, by intravitreal injection of siRNA into rabbit eyes. *Biochem Biophys Res Commun* 694: 149397, 2024.
2. Irie A, Nakashima KI, Inoue T, Kojima S, Takihara Y, Takahashi E. Trabeculotomy using the Kahook Dual Blade for exfoliation glaucoma and primary open-angle glaucoma: Comparison of outcomes according to incision range. *J Glaucoma* 33: 270-276, 2024.
3. Kusano Y, Den S, Yamaguchi T, Nishisako S, Fukui M, Shimazaki J. Risk Factors for Recurrence in the Treatment of Recurrent Pterygium. *Cornea* 43: 740-745, 2024.
4. Fu C*, Yang N*, Chuang JZ*, Nakajima N*, Iraha S*, Roy N, Wu Z, Jiang Z, Otsu W, Radu RA, Yang HH, Lee MP, Worgall TS, Xiong WC, Sung CH. Mutant mice with rod-specific VPS35 deletion exhibit retinal α -synuclein pathology-associated degeneration. *Nat Commun* 15: 5970, 2024.
5. Obaru C, Kimura T, Yamamura M, Kuriyama H, Kashiwada-Nakamura K, Mizuhashi S, Matsumura T, Watanabe T, Inoue T, Fukushima S. A case of melanoma complicated with uveitis induced by two types of BRAF/MEK inhibitors and nivolumab treatment. *J Dermatol* 51: e115-e117, 2024.

6. Sakata R, Araie M, Yoshitomi T; for lower normal pressure glaucoma study members in Japan Glaucoma Society. Factors associated with visual field or structure progression occurring first in a prospective study on patients with untreated open-angle glaucoma with normal intraocular pressure. *Eye* 38: 737-744, 2024.
7. Asaoka R, Sugisaki K, Inoue T, Yoshikawa K, Kanamori A, Yamazaki Y, Ishikawa S, Uchida K, Iwase A, Araie M. Predicting the extent of damage in the Humphrey Field Analyzer 24-2 visual fields using 10-2 test results in patients with advanced glaucoma. *Transl Vis Sci Technol* 13: 2, 2024.
8. Oshima HS, Ogawa A, Sano FK, Akasaka H, Kawakami T, Iwama A, Okamoto HH, Nagiri C, Wei FY, Shihoya W, Nureki O. Structural insights into the agonist selectivity of the adenosine A3 receptor. *Nat Commun* 15: 9294, 2024.
9. Ahmad RNR, Zhang LT, Morita R, Tani H, Wu Y, Chujo T, Ogawa A, Harada R, Shigeta Y, Tomizawa K, Wei FY. Pathological mutations promote proteolysis of mitochondrial tRNA-specific 2-thiouridylase 1 (MTU1) via mitochondrial caseinolytic peptidase (CLPP). *Nucleic Acids Res* 52: 1341-1358, 2024.
10. Urahashi M, Fujimoto T, Inoue-Mochita M, Inoue T. Effect of the IL-6 trans-signaling pathway in the absence or presence of TGF- β 2 on Schlemm's canal endothelial cells. *Exp Eye Res*, in press.

20) Department of Orthopaedic Surgery

1. Naruse A, Yamada Y, Miyamoto T: Skeletal Muscle Mass Loss and Physical Function in Young to Middle-Aged Adult Patients With Diabetes: Cross-Sectional Observational Study. *Interact J Med Res*. 13:e58038, 2024
2. Tanimura S, Tokunaga T, Fukuma Y, Kawakami J, Xiao T, Ideo K, Yonemitsu R, Matsushita K, Sugimoto K, Yugami M, Hisanaga S, Nakamura T, Uehara Y, Masuda T, Karasugi T, Miyamoto T: Aging negatively affects postoperative recovery of biomechanical strength through decreased recruitment of Scx⁺/Sox9⁺ enthesis-related progenitors after rotator cuff repair in rats. *J Shoulder Elbow Surg*. S1058-2746(24)00870-X, 2024

3. Hokamura M, Nakaura T, Yoshida N, Uetani H, Shiraishi K, Kobayashi N, Matsuo K, Morita K, Nagayama Y, Kidoh M, Yamashita Y, Miyamoto T, Hirai T : Super-resolution deep learning reconstruction approach for enhanced visualization in lumbar spine MR bone imaging. *Eur J Radiol.* 178:111587, 2024
4. Okamoto N, Nakamura E, Masuda T, Hisanaga S, Miyamoto T: Lateral Laxity in Flexion Influences Patient-Reported Outcome After Total Knee Arthroplasty. *Indian J Orthop.* 58:24-29, 2024
5. Nakamura E, Okamoto N, Masuda T, Hisanaga S, Yugami M, Oniki Y, Miyamoto T: Medial-pivot design does not provide superior clinical results compared to posterior-stabilized total knee arthroplasty despite kinematic differences during step-up and lunge activities: A prospective randomized controlled trial under medial tight soft tissue balance. *Knee Surg Sports Traumatol Arthrosc.* 32:3289-3298, 2024
6. Nakamura S, Sato Y, Kobayashi T, Oya A, Fujie A, Matsumoto M, Nakamura M, Kanaji A, Miyamoto T: Bezafibrate attenuates immobilization-induced muscle atrophy in mice. *Sci Rep.* 14:2240, 2024
7. Watanabe K, Lu X, Masuda S, Miyamoto T, Katoh T: Relationship between physical activity and locomotive syndrome among young and middle-aged Japanese workers. *J Occup Health.* 66:uia001, 2024
8. Arima T, Sugimoto K, Taniwaki T, Maeda K, Shibata Y, Tateyama M, Karasugi T, Tokunaga T, Sueyoshi T, Hisanaga S, Masuda T, Uehara Y, Yugami M, Matsushita K, Yonemitsu R, Kawakami J, Yoshimura N, Tanimura S, Kato H, Ito N, Inoue K, Bando K, Nakamura T, Miyamoto T: Cartilage tissues regulate systemic aging via ectonucleotide pyrophosphatase/phosphodiesterase 1 in mice. *J Biol Chem.* 300:105512, 2024

21) Department of Muscle Development and Regeneration

1. Kokabu S, Kodama N, Miyawaki A, Tsuji K, Hino J, Ono Y, Matsubara T. Excessive BMP3b suppresses skeletal muscle differentiation. *Biochem Biophys Res Commun.* 746:151261, 2025.
2. Kodama N, Matsubara T, Yoshimura A, Nagano K, Hino J, Tsuji K, Ikeda A, Imai Y, Yaginuma T, Yuan Q, Morikawa K, Ono Y, Shirakawa T, William N. Addison WN, Yoshioka I, Kokabu S. BMP3b regulates bone mass by inhibiting BMP signaling. *Bone.* 190:117303, 2024.

3. Shimizu J, Horii N, Yusuke Ono Y, Kawano F. EZH1 as a key mediator of exercise-induced H3K27me3 and H3K4me3 in mouse skeletal muscle. *Advanced Exercise and Health Sciences*. 1: 270-278, 2024.
4. Okino R, Goda, Y, Ono Y*. The Hox-based positional memory in muscle stem cells. *J Biochem*. 30;176(4):277-283, 2024. (Review Article) *Corresponding author.
5. Kitajima Y, Yoshioka K, Mikumo Y, Ohki S, Maehara K, Ohkawa Y, Ono Y*. Loss of Tob1 promotes muscle regeneration through muscle stem cell expansion. *J Cell Sci*. 1;137(15):jcs261886, 2024. *Corresponding author.
6. Noguchi I, Maeda M, Kobayashi K, Nagasaki T, Kato H, Yanagisawa H, Wada N, Kanazawa G, Kaji T, Sakai H, Fujimaki S, Ono Y, Taguchi K, Chuang VTG, Saruwatari J, Otagiri M, Watanabe H*, Maruyama T*. Carbon monoxide-loaded cell therapy as an exercise mimetic for sarcopenia treatment. *Free Rad Biol Med*. 1:220:67-77, 2024.

22) Department of Central Metabolic Regulation

1. Abe T, Toda C. Hyperglycemic Clamp and Hypoglycemic Clamp in Conscious Mice. *J Vis Exp*. 203, 2024, doi: 10.3791/65581
2. Hirai A, Toda C, Yohannes YB, Collins N, Tamba M, Nomiya K, Eguchi A, Hoshi N, Hirano T, Nakayama SMM, Ishizuka M, Ikenaka Y. Role of brain monoamines in acetaminophen-induced anxiety-like behavior. *Toxicology*. 505:153839, 2024, doi: 10.1016/j.tox.2024.153839

● Division of Animal Models of Aging Research

23) Department of Aging and Longevity Researches

1. Yamakawa M*, Miura K (co-last author), and Kutsukake N.
Helping syndrome is partially confirmed in the eusocial naked mole-rat.
Animal Behavior. 219: 289-301. (2024)
2. Suzuki Y, Yamaguchi K, Lewis Hardell KN, Ota K, Kamikado T, Kawamura Y, Buffenstein R, Oka K, Miura K
Establishment of primary and immortalized fibroblasts reveals resistance to cytotoxic agents and loss of necroptosis-inducing ability in long-lived Damaraland mole-rats
GeroScience (2024) Online ahead of print.

24) Division of Developmental Genetics

1. Okumura K, Morinaga T, Saito M, Tokunaga Y, Otoyama K, Tanaka S, Isogai E, Kawazu M, Togashi Y, Araki K, Wakabayashi Y : Deletion of Pak1 in CD11c-Positive Cells Confers Resistance to Mouse Skin Carcinogenesis. *J Invest Dermatol.* S0022-202X, 2024
2. Noda T, Shinohara H, Kobayashi S, Taira A, Oura S, Duritahala, Tokuyasu M, Araki K, Ikawa M: Multiple genes in the Pate5-13 genomic region contribute to ADAM3 processing. *Biol Reprod.* 110,2024
3. Zhu X, Joo Y, Bossi S, McDevitt RA, Xie A, Wang Y, Xue Y, Su S, Lee SK, Sah N, Zhang S, Ye R, Pinto A, Zhang Y, Araki K, Araki M, Morales M, Mattson MP, van Praag H, Wang W: Tdrd3-null mice show post-transcriptional and behavioral impairments associated with neurogenesis and synaptic plasticity. *Prog Neurobiol.* 233:102568,2024
4. Yuta Uneme, Ryu Maeda, Gen Nakayama, Haruka Narita, Naoki Takeda, Ryuji Hiramatsu, Hidenori Nishihara, Ryuichiro Nakato, Yoshiakira Kanai, Kimi Araki, Mikiko C Siomi, Soichiro Yamanaka: Morc1 reestablishes H3K9me3 heterochromatin on piRNA-targeted transposons in gonocytes. *Acad Sci U S A.* 121.2024
5. Wu Y, Yano T, Enomoto T, Endo A, Okada S, Araki K, Shiraki N, Kume S: Reversal of Hyperglycemia by Subcutaneous Islet Engraftment Using an Atelocollagen Sponge as a Scaffold. *Cell Transplant.* 33:9636897241277980,2024
6. Kubota S, Sun Y, Morii M, Bai J, Ideue T, Hirayama M, Sorin S, Eerdunduleng, Yokomizo-Nakano T, Osato M, Hamashima A, Iimori M, Araki K, Umemoto T, Sashida G: Chromatin modifier Hmga2 promotes adult hematopoietic stem cell function and blood regeneration in stress conditions. *EMBO J.* 43,2024
7. Tresky R, Miyamoto Y, Nagayoshi Y, Yabuki Y, Araki K, Takahashi Y, Komohara Y, Ge H, Nishiguchi K, Fukuda T, Kaneko H, Maeda N, Matsuura J, Iwasaki S, Sakakida K, Shioda N, Wei FY, Tomizawa K, Chujo T: TRMT10A dysfunction perturbs codon translation of initiator methionine and glutamine and impairs brain functions in mice. *Nucleic Acids Res.* 27;52,2024
8. Okumura K, Morinaga T, Saito M, Tokunaga Y, Otoyama K, Tanaka S, Isogai E, Kawazu M, Togashi Y, Araki K, Wakabayashi Y: Deletion of Pak1 in CD11c-Positive Cells Confers Resistance to Mouse Skin Carcinogenesis. *J Invest Dermatol.* 144,2024

9. Yoshimura S, Shimada R, Kikuchi K, Kawagoe S, Abe H, Iisaka S, Fujimura S, Yasunaga KI, Usuki S, Tani N, Ohba T, Kondoh E, Saio T, Araki K, Ishiguro KI: Atypical heat shock transcription factor HSF5 is critical for male meiotic prophase under non-stress conditions. *Nat Commun.* 29;15.2024
10. Noda T, Shinohara H, Kobayashi S, Taira A, Oura S, Tahara D, Tokuyasu M, Araki K, Ikawa M: Multiple genes in the Pate5-13 genomic region contribute to ADAM3 processing†. *Biol Reprod.* 11;110,2024
11. Okagawa S, Sakaguchi M, Okubo Y, Takekuma Y, Igata M, Kondo T, Takeda N, Araki K, Brandao BB, Qian WJ, Tseng YH, Kulkarni RN, Kubota N, Kahn CR, Araki E: Hepatic SerpinA1 improves energy and glucose metabolism through regulation of preadipocyte proliferation and UCP1 expression. *Nat Commun.* 12;15,2024
12. Morii M, Kubota S, Iimori M, Yokomizo-Nakano T, Hamashima A, Bai J, Nishimura A, Tasaki M, Ando Y, Araki K, Sashida G: TIF1 β activates leukemic transcriptional program in HSCs and promotes BCR::ABL1-induced myeloid leukemia. *Leukemia.* 38,2024
13. Uneme Y, Maeda R, Nakayama G, Narita H, Takeda N, Hiramatsu R, Nishihara H, Nakato R, Kanai Y, Araki K, Siomi MC, Yamanaka S: Morc1 reestablishes H3K9me3 heterochromatin on piRNA-targeted transposons in gonocytes. *Proc Natl Acad Sci U S A.* 26;121,2024

● Division of Epidemiological Research

25) Department of Public Health

1. Aya Sakakihara, Toshio Masumoto, Youichi Kurozawa, Japan Environment and Children's Study Group. Associations between paternal autism traits and parenting from the Japan environment and children's study. *Sci Rep.* 14(1):17668. doi: 10.1038/s41598-024-67978-8, 2024.
2. Chihiro Okoshi, Hyo Kyojuka, Toma Fukuda, Shun Yasuda, Tsuyoshi Murata, Hirotaka Isogami, Akiko Sato, Yuka Ogata, Mitsuaki Hosoya, Seiji Yasumura, Koichi Hashimoto, Hidekazu Nishigori, Michihiro Kamijima, Shin Yamazaki, Yukihiko Ohya, Reiko Kishi, Nobuo Yaegashi, Chisato Mori, Shuichi Ito, Zentaro Yamagata, Hidekuni Inadera, Takeo Nakayama, Tomotaka Sobue, Masayuki Shima, Seiji Kageyama, Narufumi Suganuma, Shouichi Ohga, Takahiko Katoh, Keiya Fujimori, Toshifumi Takahashi.

Risk of gestational diabetes in women with PCOS based on body mass index: The Japan Environment and Children's Study.

J Clin Endocrinol Metab. 293. doi: 10.1210/clinem/dgae293, 2024.

3. Kazuhiko Watanabe, Xi Lu, Shota Masuda, Takeshi Miyamoto, Takahiko Katoh.
Relationship between physical activity and locomotive syndrome among young and middle-aged Japanese workers.

J Occup Health.66(1):001. doi: 10.1093/joccuh/uiae001, 2024.

4. Kazuhiko Watanabe, Hisamitsu Omori, Ayumi Onoue, Kenichi Kubota, Minoru Yoshida, Takahiko Katoh.
Association Between Osteoporosis Self-Assessment Tool for Asians and Airflow Limitation in Japanese Post-Menopausal Women.

Int J Chron Obstruct Pulmon Dis. 19:1547-1559, 2024.

5. Kimiyo Kikuchi, Takehiro Michikawa, Seiichi Morokuma, Norio Hamada, Subaru Ikeda, Yukiyo Shimada, Kiyoko Kato, Masayuki Ochiai, Mayumi Tsuji, Masayuki Shimono, Kiyoshi Yoshino, Reiko Suga, Toshihiro Kawamoto, Shouichi Ohga & The Japan Environment and Children's Study Group.
Infants' early recovery from sleep disturbance is associated with a lower risk of developmental delay in the Japan Environment and Children's Study.

Sci Rep. 14(1):17773. doi: 10.1038/s41598-024-68672-5, 2024.

6. Manami Yabe, Tetsuhiro Fukuyama, Noriko Motoki, Hirokazu Toubou, Kohei Hasegawa, Takumi Shibazaki, Teruomi Tsukahara, Tetsuo Nomiyama, Michihiro Kamijima, Shin Yamazaki, Yukihiro Ohya, Reiko Kishi, Nobuo Yaegashi, Koichi Hashimoto, Chisato Mori, Shuichi Ito, Zentaro Yamagata, Hidekuni Inadera, Takeo Nakayama, Tomotaka Sobue, Masayuki Shima, Seiji Kageyama, Narufumi Suganuma, Shoichi Ohga, Takahiko Katoh.
Hypertensive disorders of pregnancy increase the incidence of febrile seizures in offspring.

Pediatr Res. 96(1):223-229. doi: 10.1038/s41390-024-03057-y, 2024.

7. Ryota Kabura, Rumi Iwasaki, Kanon Matsumoto, Kyoka Furushima, Tetsuji Takeshita.
Association between Dietary Intake Patterns and Pterygium Morbidity.

Health Evaluation and Promotion 51. 396-403, 2024.

8. Shiori Ishiyama, Kazuki Mochizuki, Ryoji Shinohara, Kunio Miyake, Megumi Kushima, Reiji

Kojima, Sayaka Horiuchi, Sanae Otawa, Hideki Yui, Tadao Ooka, Yuka Akiyama, Hiroshi Yokomichi, Zentaro Yamagata, Michihiro Kamijima, Shin Yamazaki, Yukihiro Ohya, Reiko Kishi, Nobuo Yaegashi, Koichi Hashimoto, Chisato Mori, Shuichi Ito, Zentaro Yamagata, Hidekuni Inadera, Takeo Nakayama, Tomotaka Sobue, Masayuki Shima, Seiji Kageyama, Narufumi Suganuma, Shoichi Ohga, Takahiko Katoh.

Association of maternal leukocyte, monocyte, and neutrophil counts with hypertensive disorders of pregnancy: the Japan Environment and Children's Study (JECS)

Sci Rep. 14(1):7248. doi: 10.1038/s41598-024-55623-3, 2024.

9. Shohei Kuraoka, Masako Oda, Miyuki Iwai-Shimada, Takashi Ohba, Nozomi Tatsuta, Hiroshi Mitsubuchi, Michihiro Kamijima, Kimitoshi Nakamura, Takahiko Katoh, The Japan Environment and Children's Study (JECS) Group.

Association between prenatal mercury exposure and pediatric neurodevelopment: The Japan environment and children's study.

Sci Total Environ. 957:177489. doi: 10.1016/j.scitotenv.2024.177489, 2024.

10. Shohei Kuraoka, Masako Oda, Takashi Ohba, Hiroshi Mitsubuchi, Kimitoshi Nakamura, Takahiko Katoh, Michihiro Kamijima, Shin Yamazaki, Yukihiro Ohya, Reiko Kishi.

Association of phenol exposure during pregnancy and asthma development in children: The Japan Environment and Children's study.

Environmental Pollution. 361. 124801-124801, 2024.

11. Tsuguhiko Kato, Mai Fujii, Kumiko Kanatani, Fusako Niwa, Kyoko Hirabayashi, Takeo Nakayama, Shoji Itakura, Michihiro Kamijima, Shin Yamazaki, Yukihiro Ohya, Reiko Kishi, Nobuo Yaegashi, Koichi Hashimoto, Chisato Mori, Shuichi Ito, Zentaro Yamagata, Hidekuni Inadera, Takeo Nakayama, Tomotaka Sobue, Masayuki Shima, Hiroshige Nakamura, Koichi Kusuhara, Takahiko Katoh.

Paternal involvement in infant care and developmental milestone outcomes at age 3 years: the Japan Environment and Children's Study (JECS)

Pediatr Res. 2024 Feb;95(3):785-791. doi: 10.1038/s41390-023-02723-x, 2024.

12. Yu Ait Bamai, Chihiro Miyashita, Atsuko Ikeda-Araki, Keiko Yamazaki, Sumitaka Kobayashi, Sachiko Itoh, Yasuaki Saijo, Yoshiya Ito, Eiji Yoshioka, Yukihiro Sato, Reiko Kishi, Michihiro Kamijima, Shin Yamazaki, Yukihiro Ohya, Nobuo Yaegashi, Koichi Hashimoto, Chisato Mori, Shuichi Ito, Zentaro Yamagata, Hidekuni Inadera, Takeo Nakayama, Tomotaka Sobue, Masayuki Shima, Hiroshige Nakamura, Narufumi Suganuma, Koichi Kusuhara, Takahiko

Katoh. Prenatal risk factors of indoor environment and incidence of childhood eczema in the Japan environment and children's study.

Environ Res. 252(Pt 2):118871. doi: 10.1016/j.envres.2024.118871, 2024.

26) Department of Neuropsychiatry

1. Miyako K, Kajitani N, Koga Y, Takizawa H, Boku S, Takebayashi M.
J Psychiatr Res. 2024 Jan 4;170:318-327. doi: 10.1016/j.jpsychires.2024.01.004. Online ahead of print.PMID: 38194849
2. Koga Y, Kajitani N, Miyako K, Takizawa H, Boku S, Takebayashi M.
TCF7L2: A potential key regulator of antidepressant effects on hippocampal astrocytes in depression model mice.
J Psychiatr Res. 2024 Jan 6;170:375-386. doi: 10.1016/j.jpsychires.2024.01.007. Online ahead of print.
3. Tachibana A, Iga J, Tatewaki Y, Thyreau B, Chen H, Ozaki T, Yoshida T, Yoshino Y, Shimizu H, Mori T, Furuta Y, Shibata M, Ohara T, Hata J, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Takebayashi M, Ninomiya T, Ueno S.
Late-Life High Blood Pressure and Enlarged Perivascular Spaces in the Putaminal Regions of Community-Dwelling Japanese Older Persons.
Journal of Geriatric Psychiatry and Neurology. 2024 Jan;37(1):61-72.
4. Kajitani N, Okada-Tsuchioka M, Inoue A, Miyano K, Masuda T, Boku S, Iwamoto K, Ohtsuki S, Uezono Y, Aoki J, Takebayashi M.
G protein-biased LPAR1 agonism of prototypic antidepressants: Implication in the identification of novel therapeutic target for depression.
Neuropsychopharmacology. 2024 Feb;49(3):561-572. doi: 10.1038/s41386-023-01727-9
5. Ohara T, Tatebe H, Hata J, Honda T, Shibata M, Matsuura S, Mikami T, Maeda T, Ono K, Mimura M, Nakashima K, Iga J, Takebayashi M, Tokuda T, Ninomiya T.
Plasma biomarkers for predicting the development of dementia in a community-dwelling older Japanese population.
Psychiatry and Clinical Neurosciences,78(6):362-371,2024
6. Takasaki A, Hashimoto M, Fukuhara R, Sakuta S, Koyama A, Ishikawa T, Boku S, Ikeda M, Takebayashi M.

Gesture imitation performance in community-dwelling older people: assessment of a gesture imitation task in the screening and diagnosis of mild cognitive impairment and dementia.

Psychogeriatrics 24(2) 404-414 2024

7. Tachibana A, Iga J, Ozaki T, Yoshida T, Yoshino Y, Shimizu H, Mori T, Furuta Y, Shibata M, Ohara T, Hata J, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Takebayashi M, Ninomiya T, Ueno S.

Serum high-sensitivity C-reactive protein and dementia in a community-dwelling Japanese older population: the Japan Prospective Studies Collaboration for Aging and Dementia (JPSC-AD)

Scientific Reports ,14(1):7374.doi: 10.1038/s41598-024-57922-1.

8. Sakayori T, Wada K, Takebayashi M, Ueda S, Machino A, Yoshimura A, Sawayama E, Maruyama F, Tanabe H, Takahashi H, Azuma H, Koishikawa H, Ozawa H, Okuhira K, Yasuda K, Miyakawa K, Yoshimura R, Ozaki S, Yokoyama S, Eto S, Tomonaga S, Isomura S, Nonomura T, Okubo Y,

Multicenter Observational Study of Electroconvulsive Therapy in Japan"

J ECT (in press) DOI:10.1097/yct.0000000000001031Corpus ID: 271848408

9. Kim S, Horiuchi K, Ueda T, Boku S.

Significant efficacy of electroconvulsive therapy on the behavioural symptoms of anti-N-methyl-d-aspartate receptor encephalitis.

BMJ Case Rep. 2024 Feb 2;17(2):e258460. doi: 10.1136/bcr-2023-258460.

10. Shima A, Noguchi-Shinohara M, Shibata S, Usui Y, Tatewaki Y, Thyreau B, Hata J, Ohara T, Honda T, Taki Y, Nakaji S,

Maeda T,Mimura M, Nakashima K, Iga J, Takebayashi M, Nishijo H, Ninomiya T, Ono K.

Glucose metabolism and smaller hippocampal volume in elderly people with normal cognitive function.

NPJ Aging 2024 Sep 9;10(1):39 DOI: 10.1038/S41514-024-00164-2

11. Yanagida Y, Naka I, Nakachi Y, Ikegame T, Kasai K, Kajitani N, Takebayashi M, Bundo M, Ohashi J, Iwamoto K.

Development of a method for the imputation of the multi-allelic serotonin-transporter-linked polymorphic region (5-HTTLPR) in the Japanese population

Journal of Human Genetics 70:41-45 2025 <https://doi.org/10.1038/s10038-024-01296-9>

12. Furuta Y, Akiyama M, Hirabayashi N, Honda T, Shibata M, Ohara T, Hata J, Terao C, Momozawa Y, Tatewaki Y, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Iga J, Takebayashi M, Ninomiya T.
Common protein-altering variant in *GFAP* is associated with white matter lesions in the older Japanese population
npj Genomic Medicine 2024 Nov 13;9(1):59. doi: 10.1038/s41525-024-00431-x

13. Matsuda Y, Kito S, Hiraki F, Izuno T, Yoshida K, Nakamura M, Kodaka F, Yamazaki R, Taruishi N, Imazu S, Kanazawa T, Mekata T, Moriyama S, Wada M, Nakajima S, Sawada K, Watanabe S, Takahashi S, Toi Y, Hayashi D, Igarashi S, Fujiyama K, Ikeda S, Tateishi H, Kojima R, Sato K, Boku S, Takebayashi M, Ogura M, Takaya A, Endo K, Kita A, Arai H, Kamimura H, Matsuo K, Denda K, Yamashiro S, Yoshioka, Kizaki J, Masaru M, Noda Y.
A multisite observational real-world study on the effectiveness of repetitive transcranial magnetic stimulation therapy for patients with treatment-resistant depression in Japan.
Psychiatry Research. 2024 342(6):116263 DOI:10.1016/j.psychres.2024.116263

14. Shigematsu J, Hako S, Toyokuni C, Kambara K, Tanabe S, Machino A, Takebayashi M, Ogata A.
Moderating effect of self-compassion on the association of automatic thoughts and rumination with burnout among nursing students.
Current Psychology. 2024. <https://doi.org/10.1007/s12144-024-07062-6>.

15. Arai N, Sugiura Y, Nakajima S, Wada M, Moriyama S, Mimura Y, Niinomi K, Takayama K, Maeda R, Kitada S, Fagarasan S, Tajima M, Boku S, Takebayashi M, Kato J, Kitago M, Kitagawa Y, Takahashi T, Shimizu H, Uchida H, Suematsu M, Mimura M, Noda Y. Prediction of Postoperative Delirium by Blood Metabolome Analysis. *J Psychiatr Res*. 2025 Mar 21;184:500-514. doi: 10.1016/j.jpsychires.2025.03.028. Online ahead of print.

● Data Science/Omics Analysis Research and Support Division

27) Immunogenome Structure Laboratory

1. Sacki K, Pan R, Lee E, Kurotaki D, Ozato K: IRF8 defines the epigenetic landscape in postnatal microglia, thereby directing their transcriptome programs.
Nat Immunol 25(10):1928-1942, 2024

2. Yamasaki T, Nishiyama A, Kurogi N, Nishimura K, Nishida S, Kurotaki D, Ban T, Ramilowski JA, Ozato K, Toyoda A, Tamura T: Physical and functional interaction among *Irf8* enhancers during dendritic cell differentiation.

28) Disease Modeling Field

1. Katoh H, Kimura R, Sekizuka T, Matsuoka K, Hosogi M, Kitai Y, Akahori Y, Kato F, Kataoka M, Kobayashi H, Nagata N, Suzuki T, Ohkawa Y, Oki S, Takeda M: Structural and molecular properties of mumps virus inclusion bodies. *Sci Adv* 10:eadr0359, 2024
2. Miyamoto T, Kuboyama K, Honda M, Ohkawa Y, Oki S, Sawamoto K: High spatial resolution gene expression profiling and characterization of neuroblasts migrating in the peri-injured cortex using photoisolation chemistry. *Front Neurosci* 18:1504047, 2025
3. Nobusada T, Wai C, Agrawal S, Severin J, Abugessaisa I, Hasegawa A, Chau C, Ide S, Koido M, Kondo A, Masuya H, Oki S, Tagami M, Takada T, Terao C, Thalhath N, Walker S, Yasuzawa K, Shin JW, de Hoon MJL, Carninci P, Kawaji H, Kasukawa T: Update of the FANTOM web resource: enhancement for studying noncoding genomes. *Nucleic Acids Res* 53:D419-D424, 2024
4. Nakamura Y, ..., Oki S, ..., Saitoh S: Biallelic null variants in PNPLA8 cause microcephaly by reducing the number of basal radial glia. *Brain* 147:3949-3967, 2024
5. Zou Z, Ohta T, Oki S: ChIP-Atlas 3.0: a data-mining suite to explore chromosome architecture together with large-scale regulome data. *Nucleic Acids Res* 52:W45-W53, 2024
6. Cui M, Yamano K, Yamamoto K, Yamamoto-Imoto H, Minami S, Yamamoto T, Matsui S, Kaminishi T, Shima T, Ogura M, Tsuchiya M, Nishino K, T B, Kato H, Ogawa H, Oki S, Okada Y, Isaka Y, Kosako H, Matsuda N, Yoshimori T, Nakamura S: HKDC1, a target of TFEB, is essential to maintain both mitochondrial and lysosomal homeostasis, preventing cellular senescence. *Proc Natl Acad Sci USA*: 121:e2306454120, 2024