

The Research Outputs of the fiscal year of 2022 (2022.1~2023.3)

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. Guo X, Tan S, Wang T, Sun R, Li S, Tian P, Li M, Wang Y, Zhang Y, Yan Y, Dong Z, Yan L, Yue X, Wu Z, Li C, Yamagata K, Gao L, Ma C, Li T, Liang X: NAD⁺ salvage governs mitochondrial metabolism invigorating NK cell anti-immunity. *Hepatology* (in press)
2. Mizutani H, Sato Y, Yamazaki M, Yoshizawa T, Ando Y, Ueda M, Yamagata K: SIRT7 deficiency protects against A β 42-induced apoptosis through the regulation of NOX4-derived reactive oxygen species production in SH-SY5Y cells. *Int. J. Mol. Sci* 23: 9027. 2022
3. Sakaguchi M, Okagawa S, Okubo Y, Otsuka Y, Fukuda K, Igata M, Kondo T, Sato Y, Yoshizawa T, Fukuda T, Yamagata K, Cai W, Tseng YH, Sakaguchi N, Kahn CR, Araki E: Phosphatase protector alpha4 (α 4) is involved in adipocyte maintenance and mitochondrial homeostasis through regulation of insulin signaling. *Nature Communications* 13: 6092, 2022
4. Mizumoto T, Yoshizawa T, Sato Y, Ito T, Tsuyama T, Satoh A, Araki S, Tsujita K, Tamura M, Oike Y, Yamagata K: SIRT7 deficiency protects against aging-associated glucose intolerance and extends lifespan in male mice. *Cells* 11: 3609, 2022
5. Yoshizawa T, Sato Y, Sobuz S, Mizumoto T, Tsuyama T, Karim Md, Miyata K, Tasaki M, Yamazaki M, Kariba Y, Araki N, Araki E, Kajimura S, Oike Y, Braun T, Bober E, Auwerx J, Yamagata K: SIRT7 suppresses energy expenditure and thermogenesis by regulating brown adipose tissue functions in mice. *Nature Communications* 13: 7439, 2022

2) Department of Molecular Genetics

1. Horiguchi H, Kadomatsu T, Yumoto S, Masuda T, Miyata K, Yamamura S, Sato M, Morinaga J, Ohtsuki S, Baba H, Moroishi T, Oike Y: Tumor cell-derived ANGPTL2 promotes β -catenin-driven intestinal tumorigenesis. **Oncogene** 41: 4028-4041, 2022
2. Zhao W, Morinaga J, Ukawa S, Endo M, Yamada H, Kawamura T, Wakai K, Tsushita K, Ando M, Suzuki K, Oike Y, Tamakoshi A: Plasma angiopoietin-like protein 2 levels and mortality risk among younger-old Japanese people: a population-based case-cohort study. **J Gerontol A Biol Sci Med Sci** 77: 1150-1158, 2022
3. Funasaki S, Mehanna S, Wenjuan Ma, Nishizawa H, Kamikubo Y, Sugiyama H, Ikeda S, Motoshima T, Hasumi H, Linehan M W, Schmidt S L, Ricketts C, Suda T, Oike Y, Kamba T, Baba M. Targeting chemoresistance in Xp11.2 translocation renal cell carcinoma using a novel polyamide-chlorambucil conjugate. **Cancer Sci** 113: 2352-2367, 2022
4. Cui G, Shimba A, Jin J, Ogawa T, Muramoto Y, Miyachi H, Abe S, Asahi T, Taniichi S, Dijkstra J M, Iwamoto Y, Kryukov K, Zhu Y, Takami D, Hara T, Kitano S, Xu Y, Morita H, Zhang M, Zreka L, Miyata K, Kanaya T, Okumura S, Ito T, Hatano E, Takahashi Y, Watarai H, Oike Y, Imanishi T, Ohno H, Ohteki T, Minato N, Kubo M, Holländer G A, Ueno H, Noda T, Shiroguchi K, Ikuta K: A Circulating Subset of iNKT Cells Mediates Antitumor and Antiviral Immunity. **Sci Immunol** 7: eabj8760, 2022
5. Yoshizawa T, Sato Y, Sobuz U.S, Mizumoto T, Tsuyama T, Karim Md.F, Miyata K, Tasaki M, Yamazaki M, Kaiba Y, Araki N, Araki E, Kajimura S, Oike Y, Braun T, Bober E, Auwerx J, Yamagata K: SIRT7 suppresses energy expenditure and thermogenesis by regulating brown adipose tissue functions in mice. **Nat Commun** 13: 7439, 2022
6. Mizumoto T, Yoshizawa T, Sato Y, Ito T, Tsuyama T, Satoh A, Araki S, Tsujita K, Tamura M, Oike Y, Yamagata K: SIRT7 deficiency extends lifespan in male mice

with an increase of fibroblast growth factor 21. **Cells** 11: 3609, 2022

7. Okadome Y, Morinaga J, Yamanouchi Y, Matsunaga E, Fukami H, Kadomatsu T, Horiguchi H, Sato M, Sugizaki T, Hayata M, Sakaguchi T, Hirayama R, Ishimura T, Kuwabara T, Usuku K, Yamamoto T, Mukoyama M, Suzuki R, Fukui T, Oike Y: Increased numbers of pre-operative circulating monocytes predict risk of developing cardiac surgery-associated acute kidney injury in conditions requiring cardio pulmonary bypass. **Clin Exp Nephrol** doi: 10.1007/s10157-022-02313-x, Online ahead of print.

3) Department of Metabolic Medicine

1. Yoshizawa T, Sato Y, Sobuz SU, Mizumoto T, Tsuyama T, Karim MF, Miyata K, Tasaki M, Yamazaki M, Kariba Y, Araki N, Araki E, Kajimura S, Oike Y, Braun T, Bober E, Auwerx J, Yamagata K. SIRT7 suppresses energy expenditure and thermogenesis by regulating brown adipose tissue functions in mice. **Nature Communications** 13(1):7439, 2022.
2. Araki H, Matsumura T, Furukawa N, Araki E. Updates of incretin-related drugs for the treatment of type 2 diabetes. **Journal of Diabetes Investigation**. 2022. In press.
3. Sakaguchi M, Okagawa S, Okubo Y, Fukuda K, Igata M, Kondo T, Sato Y, Yoshizawa T, Fukuda T, Yamagata K, Cai W, Tseng YH, Sakaguchi N, Kahn CR, Araki E. Phosphatase Protector Alpha4 ($\alpha 4$) is involved in Adipocyte Maintenance and Mitochondrial Homeostasis through Regulation of Insulin Signaling. **Nature Communications** 13(1):6092, 2022.
4. Araki E, Harashima S, Nishida T, Nakamura J: Efficacy and safety of once-weekly semaglutide in Japanese individuals with type 2 diabetes in the SUSTAIN 1, 2, 5 and 9 trials: Post-hoc analysis. **Journal of Diabetes Investigation** 13(12):1971-1980, 2022.
5. Araki E, Sakaguchi M, Fukuda K, Kondo T: Potential of a glucagon-like peptide-1 receptor/glucose-dependent insulinotropic polypeptide receptor/glucagon receptor

- triagonist for the treatment of obesity and type 2 diabetes. *Journal of Diabetes Investigation* 13(12):1958-1960, 2022.
6. Saishouji F, Maeda S, Hamada H, Kimura N, Tamanoi A, Nishida S, Sakaguchi M, Igata M, Yokoo K, Kawakami F, Araki E, Kondo T. Ectopic ACTH-producing neuroendocrine tumor occurring with large recurrent metastatic pheochromocytoma: a case report. *BMC Endocrine Disorders* 22(1):184, 2022.
 7. Matsumura T, Makabe T, Ueda S, Fujimoto Y, Sadahiro K, Tsuruyama S, Ookubo Y, Kondo T, Araki E. Clinical Benefit of Switching from Low-Dose to High-Dose Empagliflozin in Patients with Type 2 Diabetes. *Diabetes Therapy* 13(9):1621-1634, 2022.
 8. Horikawa C, Tsuda K, Oshida Y, Satoh J, Hayashino Y, Tajima N, Nishimura R, Sone H, JDCP Study Group (Araki E. et al.). Dietary intake and physical activity in Japanese patients with type 2 diabetes: the Japan Diabetes Complication and its Prevention prospective study (JDCP study 8). *Diabetology International* 13(2):344-357, 2022.
 9. Naito H, Sueta D, Hanatani S, Ikeda H, Hirosue A, Senokuchi T, Araki E, Tsujita K, Nakayama H, Kasaoka S. Factors Affecting Human Damage in Heavy Rains and Typhoon Disasters. *The Tohoku Journal of Experimental Medicine* 256(2):175-185, 2022.
 10. Ogawa W, Araki E, Ishigaki Y, Hirota Y, Maegawa H, Yamauchi T, Yorifuji T, Katagiri H. New classification and diagnostic criteria for insulin resistance syndrome. *Endocrine Journal* 69(2):107-113, 2022.
 11. Ogawa W, Araki E, Ishigaki Y, Hirota Y, Maegawa H, Yamauchi T, Yorifuji T, Katagiri H. New classification and diagnostic criteria for insulin resistance syndrome. *Diabetology Intl* 13:337-343, 2022.
 12. Ikeda T, Ishihara A, Mitsumasu S, Yamanouchi Y, Kanemaru H, Sakakida K,

Morinaga J, Araki E. Questionnaire Survey Regarding Troubles and Concerns Related to Clinical Research Based on the Clinical Trial Act for Clinicians and Academics. *The Kurume Medical Journal* 67(1):17-21, 2022.

13. Araki H, Hino S, Anan K, Kuribayashi K, Etoh K, Seko D, Takase R, Kohrogi K, Hino Y, Ono Y, Araki E, Nakao M. LSD1 defines the fiber type-selective responsiveness to environmental stress in skeletal muscle. *eLife* 12: e84618, 2023.

4) Department of Cardiovascular Medicine

1. Egashira K, Sueta D, Komorita T, Yamamoto E, Usuku H, Tokitsu T, Fujisue K, Nishihara T, Oike F, Takae M, Hanatani S, Takashio S, Ito M, Yamanaga K, Araki S, Soejima H, Kaikita K, Matsushita K, Tsujita K. HFA-PEFF Score: A Prognostic Value in Heart Failure with preserved Left Ventricular Ejection Fraction Patients. *Korean J Intern Med.* 37: 96-108, 2022
2. Egashira K, Sueta D, Kidoh M, Tomiguchi M, Oda S, Usuku H, Hidaka K, Goto-Yamaguchi L, Sueta A, Komorita T, Oike F, Fujisue K, Yamamoto E, Hanatani S, Takahsio S, Araki S, Matsushita K, Yamamoto Y, Hirai T, Tsujita K. Cardiac computed tomography-derived myocardial tissue characterization after anthracycline treatment. *ESC Heart Fail.* 9: 1792-1800, 2022
3. Fujisue K, Yamamoto E, Sueta D, Takae M, Nishihara T, Komorita T, Usuku H, Yamanaga K, Ito M, Hoshiyama T, Kanazawa H, Takashio S, Arima Y, Araki S, Soejima H, Kaikita K, Matsushita K, Tsujita K. Increased soluble programmed cell death-ligand 1 is associated with acute coronary syndrome. *Int J Cardiol.* 349: 1-6, 2022
4. Hoshiyama T, Sumi H, Kaneko S, Kawahara Y, Ito M, Kanazawa H, Takashio S, Yamamoto E, Matsushita K, Tsujita K. Placement of catheters without magnetic sensors in the coronary sinus without fluoroscopic guidance: Feasibility and safety evaluation. *J Arrhythm.* 38: 736-742, 2022
5. Ishii M, Marume K, Nakai M, Ogata S, Kaichi R, Ikebe S, Mori T, Komaki S, Kusaka

- H, Toida R, Kurogi K, Ogawa H, Iwanaga Y, Miyamoto Y, Yamamoto N, Tsujita K. Risk Prediction Score for Cancer Development in Patients with Acute Coronary Syndrome. *Circ J.* (in press), 2022
6. Ishii M, Tsujita K, Okamoto H, Koto S, Nishi T, Nakai M, Sumita Y, Iwanaga Y, Azuma N, Matoba S, Hirata KI, Hikichi Y, Yokoi H, Ikari Y, Uemura S. Resources for cardiovascular healthcare associated with 30-day mortality in acute myocardial infarction with cardiogenic shock. *Eur Heart J Open.* 2: oeab047, 2022
 7. Ishii M, Kuramitsu S, Yamanaga K, Matsuo H, Horie K, Takashima H, Terai H, Kikuta Y, Ishihara T, Saigusa T, Sakamoto T, Suematsu N, Shiono Y, Asano T, Masamura K, Doijiri T, Toyota F, Ogita M, Kurita T, Matsuo A, Harada K, Yaginuma K, Kanemura N, Sonoda S, Yokoi H, Tanaka N, Tsujita K; J- CONFIRM Registry Investigators. Association of Guideline-Directed Medical Therapy Adherence with Outcomes After Fractional Flow Reserve-Based Deferral of Revascularization. *Eur Heart Cardiovasc Pharmacother.* 3; 8: 600-608, 2022
 8. Ishii M, Kawai T, Tsujita K, Igarashi A, Suzuki M, Deguchi H, Fernandez J. Cost-Effectiveness of Vonoprazan Compared with Proton Pump Inhibitors in Patients Taking Low-Dose Aspirin for Secondary Prevention of Cardiovascular Events in Japan. *Circ J.* (in press), 2022
 9. Kuyama N, Kaikita K, Ishii M, Mitsuse T, Nakanishi N, Fujisue K, Otsuka Y, Hanatani S, Sueta D, Takashio S, Araki S, Yamamoto E, Matsushita K, Tsujita K. Increased thrombogenicity is associated with revascularization outcomes in patients with chronic limb-threatening ischemia. *J Vasc Surg.* 76: 513-522, 2022
 10. Matsushita K, Kojima S, Hirakawa K, Tabata N, Ito M, Yamanaga K, Fujisue K, Hoshiyama T, Hanatani S, Sueta D, Kanazawa H, Takashio S, Arima Y, Araki S, Usuku H, Suzuki S, Yamamoto E, Nakamura T, Soejima H, Kaikita K, Tsujita K. Differential effects of overweight/obesity depending on the severity of heart failure complicating acute myocardial infarction in Japan. *Prog Cardiovasc Dis.* (in press), 2022

11. Morioka M, Takashio S, Nakashima N, Nishi M, Fujiyama A, Hirakawa K, Hanatani S, Usuku H, Yamamoto E, Kidoh M, Oda S, Matsushita K, Ueda M, Tsujita K. Correlation Between Cardiac Images, Biomarkers, and Amyloid Load in Wild-Type Transthyretin Amyloid Cardiomyopathy. *J Am Heart Assoc.* 11: e024717, 2022
12. Nakashima N, Takashio S, Morioka M, Nishi M, Yamada T, Hirakawa K, Ishii M, Tabata N, Yamanaga K, Fujisue K, Sueta D, Kanazawa H, Hoshiyama T, Hanatani S, Araki S, Usuku H, Yamamoto E, Ueda M, Matsushita K, Tsujita K. A simple staging system using biomarkers for wild-type transthyretin amyloid cardiomyopathy in Japan. *ESC Heart Fail.* 9: 1731-1739, 2022
13. Nishi T, Ishii M, Tsujita K, Okamoto H, Koto S, Nakai M, Sumita Y, Iwanaga Y, Matoba S, Kobayashi Y, Hirata K, Hikichi Y, Yokoi H, Ikari Y, Uemura S. Outcomes of VA-ECMO plus IABP versus VA-ECMO Alone for Treatment of Acute Myocardial Infarction Complicated by Cardiogenic Shock: Insight from the JROAD-DPC Registry. *J Am Heart Assoc.* 11: e023713, 2022
14. Oike F, Usuku H, Yamamoto E, Marume K, Takashio S, Ishii M, Tabata N, Fujisue K, Yamanaga K, Sueta D, Hanatani S, Arima Y, Araki S, Oda S, Kawano H, Soejima H, Matsushita K, Ueda M, Fukui T, Tsujita. Utility of Left Atrial and Ventricular Strain for Diagnosis of Transthyretin Amyloid Cardiomyopathy in Aortic Stenosis. *ESC Heart Fail.* 9: 1976-1986, 2022
15. Shirahama Y, Tabata N, Sakamoto K, Sato R, Yamanaga K, Fujisue K, Sueta D, Araki S, Takashio S, Arima Y, Hokimoto S, Sato K, Sakamoto T, Nakao K, Shimomura H, Matsumura T, Tayama S, Fujimoto K, Oshima S, Nakamura S, Tsunoda R, Hirose T, Kikuta K, Sakaino N, Yamamoto N, Kajiwara I, Suzuki S, Yamamoto E, Kaikita K, Matsushita K, Tsujita K; Kumamoto Intervention Conference Study (KICS) Investigators. Validation of the obesity paradox by body mass index and waist circumference in patients undergoing percutaneous coronary intervention. *Int J Obes(Lond).* 46: 1840-1848, 2022

16. Soejima H, Ogawa H, Morimoto T, Okada S, Matsumoto C, Nakayama M, Masuda I, Jinnouchi H, Waki M, Saito Y. Kidney function deterioration is dependent on blood pressure levels: 11.2year follow-up in diabetic patients. *Heart Vessels*.37: 1873-1881, 2022
17. Sueta D, Yamamoto E, Usuku H, Suzuki S, Nakamura T, Matsui K, Akasaka T, Shiosakai K, Sugimoto K, Tsujita K; ESES-LVH Study Investigators. Rationale and Design of the Efficacy and Safety of Esaxerenone in Hypertensive Patients with Left Ventricular Hypertrophy (ESES-LVH) Study - Protocol for a Multicenter, Open-Label, Exploratory Interventional Study. *Circ Rep*. 4: 99-104, 2022
18. Takashio S, Tokitsu T, Matsukawa M, Sakaino N, Fujimoto K, Sakamoto T, Noda K, Tsunoda R, Misumi I, Hirai N, Doi H, Koide S, Mizuno Y, Hirose T, Kurokawa H, Kajiwara I, Ohba K, Miyamoto S, Araki S, Yamamoto E, Matsushita K, Ueda M, Tsujita K; Kumamoto Cardiac Amyloid Survey Investigators. Incidence, clinical characteristics, and diagnostic approach in transthyretin amyloid cardiomyopathy: The Kumamoto Cardiac Amyloidosis Survey. *J Cardiol*. 80: 49-55, 2022
19. Usuku H, Takashio S, Yamamoto E, Yamada T, Egashira K, Morioka M, Nishi M, Komorita T, Oike F, Tabata N, Ishii M, Yamanaga K, Fujisue K, Sueta D, Arima Y, Araki S, Oda S, Misumi Y, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Prognostic value of right ventricular global longitudinal strain in transthyretin amyloid cardiomyopathy. *J Cardiol*. 80: 56-63, 2022
20. Usuku H, Yamamoto E, Sueta D, Noguchi M, Fujisaki T, Egashira K, Morioka M, Komorita T, Oike F, Fujisue K, Hanatani S, Arima Y, Takashio S, Oda S, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Time-dependent change of relative apical longitudinal strain index in patients with wild-type transthyretin amyloid cardiomyopathy. *Int J Cardiol Heart Vasc*. 43: 101146
21. Yamamoto E, Sueta D, Tsujita K. Renal denervation in resistant hypertension: A review of clinical trials and future perspectives. *Cardiovasc Interv Ther*. 37: 450-457, 2022

22. Ishida T, Arima Y, Mizuno Y, Harada E, Yamashita T, Sueta D, Sakamoto K, Suzuki S, Kaikita K, Yamada Y, Shimomura H, Oniki K, Saruwatari J, Hokimoto S, Yasue H, Tsujita K. East Asian variant aldehyde dehydrogenase type 2 genotype exacerbates ischemia/reperfusion injury with ST-elevation myocardial infarction in men: possible sex differences. *Heart Vessels*.37: 184-193, 2022
23. Kurogi K, Ishii M, Ikebe S, Kaichi R, Mori T, Komaki S, Yamamoto N, Yamanaga K, Arima Y, Yamamoto E, Kaikita K, Matsushita K, Tsujita K. Optical coherence tomography-versus intravascular ultrasound-guided stent expansion in calcified lesions. *Cardiovasc Interv Ther*. 37: 312-323, 2022
24. Kurogi K, Ishii M, Sakamoto K, Tsujita K. Observing an Aorto-Ostial Lesion using TELESCOPE in Optical Coherence Tomography-Guided Percutaneous Coronary Intervention. *EuroIntervention* (in press), 2022
25. Nishi M, Takashio S, Morioka M, Fujiyama A, Nakashima N, Hirakawa K, Hanatani S, Usuku H, Yamamoto E, Kidoh M, Oda S, Gushima R, Matsushita K, Fukushima S, Ueda M, Tsujita K. Extracardiac Biopsy Sensitivity in Transthyretin Amyloidosis Cardiomyopathy Patients with Positive ^{99m}Tc-Labeled Pyrophosphate Scintigraphy Findings. *Circ J*. 86: 1113-1120, 2022
26. Sakamoto K, Sato R, Tabata N, Ishii M, Yamashita T, Nagamatsu S, Motozato K, Yamanaga K, Hokimoto S, Sueta D, Araki S, Fujisue K, Arima Y, Takashio S, Fujimoto K, Shimomura H, Tsunoda R, Hirose T, Sato K, Kikuta K, Sakaino N, Nakamura S, Yamamoto N, Matsumura T, Kajiwara I, Tayama S, Sakamoto T, Nakao K, Oshima S, Yamamoto E, Kaikita K, Tsujita K; Kumamoto Intervention Conference Study (KICS) Investigators. Temporal trends in coronary intervention strategies and the impact on one-year clinical events: data from a Japanese multi-center real-world cohort study. *Cardiovasc Interv Ther*. 37: 66-77, 2022
27. Shirakawa T, Fujisue K, Nakamura S, Yamamoto N, Oshima S, Matsumura T, Tsunoda R, Hirai N, Koide S, Tayama S, Kikuta K, Hirose T, Maruyama H, Fujimoto

K, Kajiwara I, Sakamoto T, Nakao K, Sakaino N, Nagayoshi Y, Hokamaki J, Shimomura H, Sakamoto K, Yamamoto E, Izumiya Y, Kaikita K, Hokimoto S, Ogawa H, Tsujita K; INVITATION study investigators. Dose-Dependent Inhibitory Effect of Rosuvastatin in Japanese Patients with Acute Myocardial Infarction on Serum Concentration of Matrix Metalloproteinases-INVITATION Trial. *J Atheroscler Thromb.* 29: 229-241, 2022

28. Yamashita T, Arima Y, Hoshiyama T, Tabata N, Sueta D, Kawahara Y, Ito M, Kanazawa H, Ishii M, Yamanaga K, Hanatani S, Takashio S, Araki S, Suzuki S, Yamamoto E, Kaikita K, Oniki K, Saruwatari J, Matsushita K, Tsujita K. Effect of the *ALDH2* Variant on the Prevalence of Atrial Fibrillation in Habitual Drinkers. *JACC:Asia.*2: 62-70, 2022

29. Ahmed K, Arima Y, Tabata N, Ishii M, Sato R, Yamashita T, Yamanaga K, Takizawa H, Hokimoto S, Sueta D, Araki S, Fujisue K, Takashio S, Fujimoto K, Shimomura H, Tsunoda R, Hirose T, Sato K, Kikuta K, Sakaino N, Nakamura S, Yamamoto N, Matsumura T, Kajiwara I, Tayama S, Sakamoto T, Nakao K, Oshima S, Yamamoto E, Sakamoto K, Kaikita K, Matsushita K, Tsujita K. Impact of cerebrovascular comorbidity on prognosis in Japanese patients undergoing PCI: 1-year data from Japanese multicenter registry (KICS). *Heart Vessels.* 37: 911-918, 2022

(review)

1. Hirakawa K, Yamamoto E, Takashio S, Hanatani S, Araki S, Suzuki S, Kaikita K, Matsushita K, Ogo T, Tsujita K. Balloon pulmonary angioplasty in chronic thromboembolic pulmonary hypertension. *Cardiovasc Interv Ther.* 37: 60-65, 2022

2. Yamamoto E, Sueta D, Tsujita K. Renal denervation in resistant hypertension: a review of clinical trials and future perspectives. *Cardiovasc Interv Ther.* 37: 450-457, 2022

5) Department of Cell Pathology

1. Yagita K, Noguchi H, Koyama S, Hamasaki H, Komori T, Aishima S, Kosaka T, Ueda M, Komohara Y, Watanabe A, Sasagasako N, Ninomiya T, Oda Y, Honda

H.Chronological Changes in the Expression Pattern of Hippocampal Prion Proteins During Disease Progression in Sporadic Creutzfeldt-Jakob Disease MM1 Subtype. *J Neuropathol Exp Neurol.* 81:900-909, 2022

2. Yamakawa M, Nakane S, Ihara E, Tawara N, Ikeda H, Igarashi Y, Komohara Y, Takamatsu K, Ikeda T, Tomita Y, Murai S, Ando Y, Mukaino A, Ogawa Y, Ueda M. A novel murine model of autoimmune dysautonomia by $\alpha 3$ nicotinic acetylcholine receptor immunization. *Front Neurosci.* 16:1006923, 2022.
3. Kanemaru A, Shinriki S, Kai M, Tsurekawa K, Ozeki K, Uchino S, Suenaga N, Yonemaru K, Miyake S, Masuda T, Kariya R, Okada S, Takeshita H, Seki Y, Yano H, Komohara Y, Yoshida R, Nakayama H, Li JD, Saito H, Jono H. Potential use of EGFR-targeted molecular therapies for tumor suppressor CYLD-negative and poor prognosis oral squamous cell carcinoma with chemoresistance. *Cancer Cell Int.* 22:358, 2022
4. Morinaga T, Iwatsuki M, Yamashita K, Matsumoto C, Harada K, Kurashige J, Iwagami S, Baba Y, Yoshida N, Komohara Y, Baba H. Evaluation of HLA-E Expression Combined with Natural Killer Cell Status as a Prognostic Factor for Advanced Gastric Cancer. *Ann Surg Oncol.* 29:4951-4960, 2022
5. Kawaguchi S, Kawahara K, Fujiwara Y, Ohnishi K, Pan C, Yano H, Hirose A, Nagata M, Hirayama M, Sakata J, Nakashima H, Arita H, Yamana K, Gohara S, Nagao Y, Maeshiro M, Iwamoto A, Hirayama M, Yoshida R, Komohara Y, Nakayama H. Naringenin potentiates anti-tumor immunity against oral cancer by inducing lymph node CD169-positive macrophage activation and cytotoxic T cell infiltration. *Cancer Immunol Immunother.* 71:2127-2139, 2022
6. Saito Y, Fujiwara Y, Shinchi Y, Mito R, Miura Y, Yamaguchi T, Ikeda K, Urakami S, Nakashima Y, Sakagami T, Suzuki M, Tabata Y, Komohara Y. Classification of PD-L1 expression in various cancers and macrophages based on immunohistocytological analysis. *Cancer Sci.* 113:3255-3266, 2022

7. Matsubara E, Komohara Y, Esumi S, Shinchi Y, Ishizuka S, Mito R, Pan C, Yano H, Kobayashi D, Fujiwara Y, Ikeda K, Sakagami T, Suzuki M. SPP1 Derived from Macrophages Is Associated with a Worse Clinical Course and Chemo-Resistance in Lung Adenocarcinoma. *Cancers (Basel)*. 14:4374, 2022.
8. Yamane T, Kanamori Y, Sawayama H, Yano H, Nita A, Ohta Y, Hinokuma H, Maeda A, Iwai A, Matsumoto T, Shimoda M, Niimura M, Usuki S, Yasuda-Yoshihara N, Niwa M, Baba Y, Ishimoto T, Komohara Y, Sawa T, Hirayama T, Baba H, Moroishi T. Iron accelerates *Fusobacterium nucleatum*-induced CCL8 expression in macrophages and is associated with colorectal cancer progression. *JCI Insight*. e156802, 2022.
9. Li L, Irie T, Yoshii D, Komohara Y, Fujiwara Y, Esumi S, Kadohisa M, Honda M, Suzu S, Matsuura T, Kohashi K, Oda Y, Hibi T. M-CSFR expression in the embryonal component of hepatoblastoma and cell-to-cell interaction between macrophages and hepatoblastoma. *Med Mol Morphol*. 55:236-247, 2022
10. Yano H, Fujiwara Y, Hasita H, Pan C, Kai K, Niino D, Ohsawa K, Higashi M, Nosaka K, Okuno Y, Tamaru JI, Mukasa A, Matsuoka M, Komohara Y. Blocking cholesterol efflux mechanism is a potential target for anti-lymphoma therapy. *Cancer Sci*. 113:2129-2143, 2022
11. Irie T, Yoshii D, Komohara Y, Fujiwara Y, Kadohisa M, Honda M, Suzu S, Matsuura T, Kohashi K, Oda Y, Hibi T. IL-34 in hepatoblastoma cells potentially promote tumor progression via autocrine and paracrine mechanisms. *Cancer Med*. 11:1441-1453, 2022
12. Tsukamoto H, Komohara Y, Tomita Y, Miura Y, Motoshima T, Imamura K, Kimura T, Ikeda T, Fujiwara Y, Yano H, Kamba T, Sakagami T, Oshiumi H. Aging-associated and CD4 T-cell-dependent ectopic CXCL13 activation predisposes to anti-PD-1 therapy-induced adverse events. *Proc Natl Acad Sci U S A*. 119:e2205378119, 2022.

13. Yonemitsu K, Pan C, Fujiwara Y, Miyasato Y, Shiota T, Yano H, Hosaka S, Tamada K, Yamamoto Y, Komohara Y. GM-CSF derived from the inflammatory microenvironment potentially enhanced PD-L1 expression on tumor-associated macrophages in human breast cancer. *Sci Rep.* 12:12007, 2022.
14. Okadome K, Baba Y, Yasuda-Yoshihara N, Nomoto D, Yagi T, Toihata T, Ogawa K, Sawayama H, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Watanabe M, Komohara Y, Baba H. PD-L1 and PD-L2 expression status in relation to chemotherapy in primary and metastatic esophageal squamous cell carcinoma. *Cancer Sci.* 113:399-410, 2022
15. Pan C, Fujiwara Y, Horlad H, Iriki T, Shiraishi D, Komohara Y. Cyclic sulfur compounds targeting macrophage polarization into M2/protumor phenotype and their anti-tumor effects. *Cancer Immunol Immunother.* 71:1331-1343, 2022.
16. Nomoto D, Baba Y, Liu Y, Tsutsuki H, Okadome K, Harada K, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Watanabe M, Moroishi T, Komohara Y, Sawa T, Baba H. *Fusobacterium nucleatum* promotes esophageal squamous cell carcinoma progression via the NOD1/RIPK2/NF- κ B pathway. *Cancer Lett.* 530:59-67, 2022.
17. Shinchi Y, Ishizuka S, Komohara Y, Matsubara E, Mito R, Pan C, Yoshii D, Yonemitsu K, Fujiwara Y, Ikeda K, Tamada K, Sakagami T, Suzuki M. The expression of PD-1 ligand 1 on macrophages and its clinical impacts and mechanisms in lung adenocarcinoma. *Cancer Immunol Immunother.* 29:1-17, 2022.
18. Oka K, Fujioka S, Kawamura Y, Komohara Y, Chujo T, Sekiguchi K, Yamamura Y, Oiwa Y, Omamiuda-Ishikawa N, Komaki S, Sutoh Y, Sakurai S, Tomizawa K, Bono H, Shimizu A, Araki K, Yamamoto T, Yamada Y, Oshiumi H, Miura K. Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats. *Commun Biol.* 30:287, 2022.
19. Harada M, Iida Y, Kotani H, Minami T, Komohara Y, Eto M, Yoshikawa K, Uemura

- H. T-cell responses and combined immunotherapy against human carbonic anhydrase 9-expressing mouse renal cell carcinoma. *Cancer Immunol Immunother.* 71:339-352, 2022.
20. Yoshii D, Shimata K, Yokouchi Y, Komohara Y, Suda H, Honda M, Yamamura K, Hibi T, Inomata Y. SOX9 contributes to the progression of ductular reaction for the protection from chronic liver injury. *Hum Cell.* 35:721-734, 2022.
21. Nomoto D, Baba Y, Okadome K, Yagi T, Kalikawe R, Kiyozumi Y, Harada K, Eto K, Hiyoshi Y, Nagai Y, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Komohara Y, Watanabe M, Baba H. Prognostic impact of PD-1 on tumor infiltrating lymphocytes in 433 resected esophageal cancers. *Ann Thorac Surg.* 113:286-294, 2022.
22. Yano H, Fujiwara Y, Komohara Y. Cholesterol metabolism and lipid droplet vacuoles; a potential target for the therapy of aggressive lymphoma. *J Clin Exp Hematop.* 2022
23. Nakagaki Y, Kai K, Komohara Y, Takezaki T, Kuroda J, Shinojima N, Shimomura M, Kawakami F, Mikami Y, Mukasa A. Gliosarcoma with Systemic Metastasis Showing Favorable Response to Ifosfamide, Carboplatin, and Etoposide Chemotherapy: An Autopsy Case Report. *NMC Case Rep J.* 9:263-268, 2022.
24. Uchihara T, Komohara Y, Yamashita K, Arima K, Uemura S, Hanada N, Baba H. Chronic Appendicitis Caused by a Perforating Fish Bone: Case Report and Brief Literature Review. *In Vivo.* 36:1982-1985, 2022.
25. Matsumura K, Yamamura K, Oda E, Akahoshi S, Ishiko T, Miyata T, Miyamoto H, Motohara T, Sasao A, Komohara Y, Kawano H, Beppu T. Successful Treatment of Intrahepatic Cholangiocarcinoma With Liver/Lung Metastasis and Peritoneal Dissemination After Liver Resection. *Anticancer Res.* 42:3209-3215, 2022.
26. Yamashita K, Komohara Y, Uchihara T, Arima K, Uemura S, Hanada N, Baba H. A

rare case of perforation of a colorectal tumor by a fish bone. *Clin J Gastroenterol.* 15:598-602, 2022.

27. Matsumura K, Yamamura K, Miyamoto H, Hara Y, Oda E, Akahoshi S, Yoshida K, Yuki H, Motohara T, Sakamoto K, Komohara Y, Beppu T. Highly Advanced Colorectal Liver Metastases Successfully Treated With Fluorouracil Plus Leucovorin Monotherapy and Microwave Ablation. *Anticancer Res.* 42:1645-1651, 2022
28. Arima K, Komohara Y, Uchihara T, Yamashita K, Uemura S, Hanada N, Baba H. A Case of Mesenteric Desmoid Tumor Causing Bowel Obstruction After Laparoscopic Surgery. *Anticancer Res* 42:381-384, 2022.

6) Department of Medical Cell Biology

1. Igata T, Tanaka H, Etoh K, Hong S, Tani N, Koga T, Nakao M: Loss of the transcription repressor ZHX3 induces senescence-associated gene expression and mitochondrial-nucleolar activation. *PLoS One* 17: e0262488, 2022
2. Matsumori H, Watanabe K, Tachiwana H, Fujita T, Ito Y, Tokunaga M, Sakata-Sogawa K, Osakada H, Haraguchi T, Awatsu A, Ochiai H, Sakata Y, Ochiai K, Toki T, Ito E, Goldberg IG, Tokunaga K, Nakao M, Saitoh N: Ribosomal protein L5 facilitates rDNA bundling and nucleolar assembly. *Life Sci. Alliance* 5: e202101045, 2022
3. Thamrongwarangoon U, Detarya M, Seubwai W, Saengboonee C, Hino S, Koga T, Nakao M, Wongkham S: Lactic acidosis promotes aggressive features of cholangiocarcinoma cells via upregulating ALDH1A3 expression through EGFR axis. *Life Sci.* 302: 120648, 2022
4. Hino Y, Nagaoka K, Oki S, Etoh K, Hino S, Nakao M: Mitochondrial stress induces AREG expression and epigenomic remodeling through c-JUN and YAP-mediated enhancer activation. *Nucleic Acids Res.* 50: 9765-9779, 2022
5. Thamrongwarangoon U, Kuribayashi K, Araki H, Hino Y, Koga T, Seubwai W,

Wongkham S, Nakao M, Hino S: Lactic acidosis induces metabolic and phenotypic reprogramming in cholangiocarcinoma cells via the upregulation of THBS1. *Cancer Sci.* (in press)

6. Araki H, Hino S, Anan K, Kuribayashi K, Etoh K, Seko D, Takase R, Kohrogi K, Hino Y, Ono Y, Araki E, Nakao M: LSD1 defines the fiber type-selective responsiveness to environmental stress in skeletal muscle. *Elife* 12:e84618, 2023

7) Laboratory of Developmental Cardiology

1. Yuge Y, Nishiyama K, Arima Y, Hanada Y, Oguri-Nakamura E, Hanada S, Ishii T, Wakayama T, Hasegawa U, Tsujita K, Yokokawa R, Miura T, Itoh T, Tsujita K, Mochizuki N & Fukuhara S: Mechanical loading of intraluminal pressure mediates wound angiogenesis by regulating the TOCA family of F-BAR proteins. *Nature Communications* 13, 2595, 2022
2. Nishiyama C, Saito Y, Sakaguchi A, Kaneko M, Kiyonari H, Xu Y, Arima Y, Uosaki H, Kimura W: Prolonged Myocardial Regenerative Capacity in Neonatal Opossum. *Circulation* 146: 125-139, 2022

● **Division of Cancer and Stem Cell Research**

8) Department of Gastroenterological Surgery

1. Miyoshi J, Zhu Z, Luo A, Toden S, Zhou X, Izumi D, Kanda M, Takayama T, Parker IM, Wang M, Gao F, Zaidi AH, Baba H, Kodera Y, Cui Y, Wang X, Liu Z, Goel A: A microRNA-based liquid biopsy signature for the early detection of esophageal squamous cell carcinoma: a retrospective, prospective and multicenter study. *Mol Cancer* 21:44, 2022
2. Roy S, Kanda M, Nomura S, Zhu Z, Toiyama Y, Taketomi A, Goldenring J, Baba H, Kodera Y, Goel A: Diagnostic efficacy of circular RNAs as noninvasive, liquid biopsy biomarkers for early detection of gastric cancer. *Mol Cancer* 21:42, 2022
3. Arima K, Zhong R, Ugai T, Zhao M, Haruki K, Akimoto N, Lau MC, Okadome K, Mehta RS, Vayrynen JP, Kishikawa J, Twombly TS, Shi S, Fujiyoshi K, Kosumi K,

Ogata Y, Baba H, Wang F, Wu K, Song M, Zhang X, Fuchs CS, Sears CL, Willett WC, Giovannucci EL, Meyerhardt JA, Garrett WS, Huttenhower C, Chan AT, Nowak JA, Giannakis M, Ogino S: Western-style diet, pks island-carrying *Escherichia coli*, and colorectal cancer: Analyses from two large prospective cohort studies. *Gastroenterology* 163:862-874, 2022

4. Qian T, Fujiwara N, Koneru B, Ono A, Kubota N, Jajoriya AK, Tung MG, Crouchet E, Song WM, Marquez CA, Panda G, Hoshida A, Raman I, Li QZ, Lewis C, Yopp A, Rich NE, Singal AG, Nakagawa S, Goossens N, Higashi T, Koh AP, Bian CB, Hoshida H, Tabrizian P, Gunasekaran G, Florman S, Schwarz ME, Hiotis SP, Nakahara T, Aikata H, Murakami E, Beppu T, Baba H, Rew W, Bhatia S, Kobayashi M, Kumada H, Fobar AJ, Parikh ND, Marrero JA, Rwema SH, Nair V, Patel M, Kim-Schulze S, Corey K, O'Leary JG, Klintmalm GB, Thomas DL, Dibas M, Rodriguez G, Zhang B, Friedman SL, Baumert TF, Fuchs BC, Chayama K, Zhu S, Chung RT, Hoshida Y: Molecular signature predictive of long-term liver fibrosis progression to inform antifibrotic drug development. *Gastroenterology* 162:1210-1225, 2022
5. Fujiwara N, Kubota N, Crouchet E, Koneru B, Marquez CA, Jajoriya AK, Panda G, Qian T, Zhu S, Goossens N, Wang X, Liang S, Zhong Z, Lewis S, Taouli B, Schwartz ME, Fiel MI, Singal AG, Marrero JA, Fobar AJ, Parikh ND, Raman I, Li QZ, Taguri M, Ono A, Aikata H, Nakahara T, Nakagawa H, Matsushita Y, Tateishi R, Koike K, Kobayashi M, Higashi T, Nakagawa S, Yamashita YI, Beppu T, Baba H, Kumada H, Chayama K, Baumert TF, Hoshida Y: Molecular signatures of long-term hepatocellular carcinoma risk in nonalcoholic fatty liver disease. *Sci Transl Med* 14:eabo4474, 2022
6. Bertsimas D, Margonis GA, Sujichantararat S, Boerner T, Ma Y, Wang J, Kamphues C, Sasaki K, Tang S, Gagniere J, Dupre A, Loes IM, Wagner D, Stasinou G, Macher-Beer A, Burkhart R, Morioka D, Imai K, Ardiles V, O'Connor JM, Pawlik TM, Poultsides G, Seeliger H, Beyer K, Kaczirek K, Kornprat P, Aucejo FN, de Santibanes E, Baba H, Endo I, Lonning PE, Kreis ME, Weiss MJ, Wolfgang CL, D'Angelica M: Using artificial intelligence to find the optimal margin width in hepatectomy for colorectal cancer liver metastases. *JAMA surgery* 157:e221819, 2022

7. Okuno K, Tokunaga M, Kinugasa Y, Baba H, Kodera Y, Goel A: A transcriptomic liquid biopsy assay for predicting resistance to neoadjuvant therapy in esophageal squamous cell carcinoma. *Ann Surg* 276:101-110, 2022
8. Yoshida N, Eto K, Kurashige J, Izumi D, Sawayama H, Horinouchi T, Iwatsuki M, Baba Y, Miyamoto Y, Baba H: Comprehensive analysis of multiple primary cancers in patients with esophageal squamous cell carcinoma undergoing esophagectomy. *Ann Surg* 276:305-311, 2022
9. Sezaki M, Hayashi Y, Nakato G, Wang Y, Nakata S, Biswas S, Morishima T, Fakruddin M, Moon J, Ahn S, Kim P, Miyamoto Y, Baba H, Fukuda S, Takizawa H: Hematopoietic stem and progenitor cells integrate microbial signals to promote post-inflammation gut tissue repair. *EMBO J* 41:e110712, 2022
10. Olthof PB, Buettner S, Andreatos N, Wang J, Loes IM, Wagner D, Sasaki K, Macher-Beer A, Kamphues C, Pozios I, Seeliger H, Morioka D, Imai K, Kaczirek K, Pawlik TM, Poultides G, Burkhart R, Endo I, Baba H, Kornprat P, Aucejo FN, Lonning PE, Beyer K, Weiss MJ, Wolfgang CL, Kreis ME, Margonis GA: KRAS alterations in colorectal liver metastases: shifting to exon, codon, and point mutations. *Br J Surg* 109:804-807, 2022
11. Liu Y, Baba Y, Ishimoto T, Gu X, Zhang J, Nomoto D, Okadome K, Baba H, Qiu P: Gut microbiome in gastrointestinal cancer: a friend or foe? *Int J Biol Sci* 18:4101-4117, 2022
12. Kobayashi K, Suyama K, Katsuya H, Izawa N, Uenosono Y, Hu Q, Kusumoto T, Otsu H, Orita H, Kawanaka H, Shibao K, Koga S, Shimokawa M, Makiyama A, Saeki H, Oki E, Baba H, Mori M, group Ks: A phase II multicenter trial assessing the efficacy and safety of first-line S-1 + ramucirumab in elderly patients with advanced/recurrent gastric cancer: KSCC1701. *Eur J Cancer* 166:279-286, 2022
13. Wada Y, Shimada M, Morine Y, Ikemoto T, Saito Y, Baba H, Mori M, Goel A: A

transcriptomic signature that predicts cancer recurrence after hepatectomy in patients with colorectal liver metastases. *Eur J Cancer* 163:66-76, 2022

14. Nomoto D, Baba Y, Liu Y, Tsutsuki H, Okadome K, Harada K, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Watanabe M, Moroishi T, Komohara Y, Sawa T, Baba H: *Fusobacterium nucleatum* promotes esophageal squamous cell carcinoma progression via the NOD1/RIPK2/NF-kappaB pathway. *Cancer Lett* 530:59-67, 2022
15. Yamane T, Kanamori Y, Sawayama H, Yano H, Nita A, Ohta Y, Hinokuma H, Maeda A, Iwai A, Matsumoto T, Shimoda M, Niimura M, Usuki S, Yasuda-Yoshihara N, Niwa M, Baba Y, Ishimoto T, Komohara Y, Sawa T, Hirayama T, Baba H, Moroishi T: Iron accelerates *Fusobacterium nucleatum*-induced CCL8 expression in macrophages and is associated with colorectal cancer progression. *JCI Insight* 7, 2022
16. Lan C, Kitano Y, Yamashita YI, Yamao T, Kajiyama K, Yoshizumi T, Fukuzawa K, Sugimachi K, Ikeda Y, Takamori H, Miyanari N, Hirota M, Baba H: Cancer-associated fibroblast senescence and its relation with tumour-infiltrating lymphocytes and PD-L1 expressions in intrahepatic cholangiocarcinoma. *Br J Cancer* 126:219-227, 2022
17. Wada Y, Shimada M, Morine Y, Ikemoto T, Saito Y, Baba H, Mori M, Goel A: A blood-based noninvasive miRNA signature for predicting survival outcomes in patients with intrahepatic cholangiocarcinoma. *Br J Cancer* 126:1196-1204, 2022
18. Horiguchi H, Kadomatsu T, Yumoto S, Masuda T, Miyata K, Yamamura S, Sato M, Morinaga J, Ohtsuki S, Baba H, Moroishi T, Oike Y: Tumor cell-derived ANGPTL2 promotes beta-catenin-driven intestinal tumorigenesis. *Oncogene* 41:4028-4041, 2022
19. Fu L, Yonemura A, Yasuda-Yoshihara N, Umemoto T, Zhang J, Yasuda T, Uchihara T, Akiyama T, Kitamura F, Yamashita K, Okamoto Y, Bu L, Wei F, Hu X, Liu Y, Ajani

- JA, Tan P, Baba H, Ishimoto T: Intracellular MUC20 variant 2 maintains mitochondrial calcium homeostasis and enhances drug resistance in gastric cancer. *Gastric Cancer* 25:542-557, 2022
20. Iwatsuki M, Orita H, Kobayashi K, Hidaka S, Arigami T, Kusumoto T, Satake H, Oki E, Tsutsumi S, Tobimatsu K, Shimokawa M, Saeki H, Makiyama A, Baba H, Mori M: Phase II study of S-1 and oxaliplatin as neoadjuvant chemotherapy for locally advanced adenocarcinoma of the gastric or esophagogastric junction: KSCC1601. *Gastric Cancer* 25:180-187, 2022
21. Matsumoto C, Iwatsuki M, Iwagami S, Morinaga T, Yamashita K, Nakamura K, Eto K, Kurashige J, Baba Y, Miyamoto Y, Yoshida N, Komohara Y, Baba H: Prophylactic laparoscopic total gastrectomy for gastric adenocarcinoma and proximal polyposis of the stomach (GAPPS): the first report in Asia. *Gastric Cancer* 25:473-478, 2022
22. Yamaguchi K, Boku N, Muro K, Yoshida K, Baba H, Tanaka S, Akamatsu A, Sano T: Real-world safety and effectiveness of nivolumab in Japanese patients with unresectable advanced or recurrent gastric/gastroesophageal junction cancer that has progressed after chemotherapy: a postmarketing surveillance study. *Gastric Cancer* 25:245-253, 2022
23. Bu L, Yonemura A, Yasuda-Yoshihara N, Uchihara T, Ismagulov G, Takasugi S, Yasuda T, Okamoto Y, Kitamura F, Akiyama T, Arima K, Itoyama R, Zhang J, Fu L, Hu X, Wei F, Arima Y, Moroishi T, Nishiyama K, Sheng G, Mukunoki T, Otani J, Baba H, Ishimoto T: Tumor microenvironmental 15-PGDH depletion promotes fibrotic tumor formation and angiogenesis in pancreatic cancer. *Cancer Sci* 113:3579-3592, 2022
24. Okadome K, Baba Y, Yasuda-Yoshihara N, Nomoto D, Yagi T, Toihata T, Ogawa K, Sawayama H, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Watanabe M, Komohara Y, Baba H: PD-L1 and PD-L2 expression status in relation to chemotherapy in primary and metastatic esophageal squamous cell carcinoma. *Cancer Sci* 113:399-410, 2022

25. Yusa T, Yamashita YI, Okabe H, Nakao Y, Itoyama R, Kitano Y, Kaida T, Miyata T, Mima K, Imai K, Hayashi H, Baba H: Survival impact of immune cells infiltrating peritumoral area of hepatocellular carcinoma. *Cancer Sci* 113:4048-4058, 2022
26. Shimizu D, Taniue K, Matsui Y, Haeno H, Araki H, Miura F, Fukunaga M, Shiraishi K, Miyamoto Y, Tsukamoto S, Komine A, Kobayashi Y, Kitagawa A, Yoshikawa Y, Sato K, Saito T, Ito S, Masuda T, Niida A, Suzuki M, Baba H, Ito T, Akimitsu N, Kodera Y, Mimori K: Pan-cancer methylome analysis for cancer diagnosis and classification of cancer cell of origin. *Cancer Gene Ther* 29:428-436, 2022
27. Daitoku N, Miyamoto Y, Hiyoshi Y, Tokunaga R, Sakamoto Y, Sawayama H, Ishimoto T, Baba Y, Yoshida N, Baba H: Preoperative skeletal muscle status is associated with tumor-infiltrating lymphocytes and prognosis in patients with colorectal cancer. *Ann Gastroenterol Surg* 6:658-666, 2022
28. Eto K, Yoshida N, Iwatsuki M, Iwagami S, Nakamura K, Morita K, Ikeshima S, Horino K, Shimada S, Baba H: Clinical impact of perirenal thickness on short- and long-term outcomes of gastric cancer after curative surgery. *Ann Gastroenterol Surg* 6:496-504, 2022
29. Horino T, Tokunaga R, Miyamoto Y, Hiyoshi Y, Akiyama T, Daitoku N, Sakamoto Y, Yoshida N, Baba H: The advanced lung cancer inflammation index is a novel independent prognosticator in colorectal cancer patients after curative resection. *Ann Gastroenterol Surg* 6:83-91, 2022
30. Miyata T, Yamashita YI, Arima K, Higashi T, Hayashi H, Imai K, Nitta H, Chikamoto A, Beppu T, Baba H: Alteration of prognostic efficacy of albumin-bilirubin grade and Child-Pugh score according to liver fibrosis in hepatocellular carcinoma patients with Child-Pugh A following hepatectomy. *Ann Gastroenterol Surg* 6:127-134, 2022
31. Ogawa K, Miyamoto Y, Harada K, Eto K, Sawayama H, Iwagami S, Iwatsuki M, Baba Y, Yoshida N, Baba H: Evaluation of clinical outcomes with propensity-score

- matching for colorectal cancer presenting as an oncologic emergency. *Ann Gastroenterol Surg* 6:523-530, 2022
32. Sawayama H, Miyamoto Y, Yoshida N, Baba H: Essential updates 2020/2021: Colorectal diseases (benign)-current topics in the surgical and medical treatment of benign colorectal diseases. *Ann Gastroenterol Surg* 6:321-335, 2022
 33. Yamamura K, Yamashita YI, Yamao T, Kitano Y, Arima K, Miyata T, Higashi T, Hayashi H, Beppu T, Baba H: Clinical impact of atrophic changes in remnant pancreas on the development of nonalcoholic fatty liver disease after pancreaticoduodenectomy. *Ann Gastroenterol Surg* 6:555-561, 2022
 34. Yoshida K, Yasufuku I, Terashima M, Young Rha S, Moon Bae J, Li G, Katai H, Watanabe M, Seto Y, Hoon Noh S, Kwang Yang H, Ji J, Baba H, Kitagawa Y, Morita S, Nishiyama M, Kodera Y, Convo-Gc-1 Study Group FoACO: International retrospective cohort study of conversion therapy for stage IV gastric cancer 1 (CONVO-GC-1). *Ann Gastroenterol Surg* 6:227-240, 2022
 35. Nomoto D, Baba Y, Okadome K, Yagi T, Kalikawe R, Kiyozumi Y, Harada K, Eto K, Hiyoshi Y, Nagai Y, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Komohara Y, Watanabe M, Baba H: Prognostic impact of PD-1 on tumor-infiltrating lymphocytes in 433 resected esophageal cancers. *Ann Thorac Surg* 113:286-294, 2022
 36. Matsumura K, Hayashi H, Uemura N, Ogata Y, Zhao L, Sato H, Shiraishi Y, Kuroki H, Kitamura F, Kaida T, Higashi T, Nakagawa S, Mima K, Imai K, Yamashita YI, Baba H: Thrombospondin-1 overexpression stimulates loss of Smad4 and accelerates malignant behavior via TGF-beta signal activation in pancreatic ductal adenocarcinoma. *Transl Oncol* 26:101533, 2022
 37. Sadahiro S, Sakamoto K, Tsuchiya T, Takahashi T, Ohge H, Sato T, Kondo K, Ogata Y, Baba H, Itabashi M, Ikeda M, Hamada M, Maeda K, Masuko H, Takahashi K, Sakamoto J, Kusano M, Hyodo I, Taguri M, Morita S: Prospective observational

study of the efficacy of oral uracil and tegafur plus leucovorin for stage II colon cancer with risk factors for recurrence using propensity score matching (JFMC46-1201). *BMC Cancer* 22:170, 2022

38. Kawata A, Imai K, Tamura Y, Kaida T, Mima K, Nakagawa S, Hayashi H, Yamashita Y, Ikeda O, Baba H: Gastrointestinal: Superior mesenteric vein aneurysm treated using interventional radiology. *J Gastroenterol Hepatol* 37:1209, 2022
39. Horino T, Tokunaga R, Baba H: Collateral circulation from inferior mesenteric artery. *Surgery* 172:e21-e22, 2022
40. Ono S, Adachi T, Ohtsuka T, Kimura R, Nishihara K, Watanabe Y, Nagano H, Tokumitsu Y, Nanashima A, Imamura N, Baba H, Chikamoto A, Inomata M, Hirashita T, Furukawa M, Idichi T, Shinchi H, Maruyama Y, Nakamura M, Eguchi S: Predictive factors for early recurrence after pancreaticoduodenectomy in patients with resectable pancreatic head cancer: A multicenter retrospective study. *Surgery* 172:1782-1790, 2022
41. Sasaki K, Margonis GA, Moro A, Wang J, Wagner D, Gagniere J, Shin JK, D'Silva M, Sahara K, Miyata T, Kusakabe J, Beyer K, Dupre A, Kamphues C, Imai K, Baba H, Endo I, Taura K, Cho JY, Aucejo F, Kornprat P, Kreis ME, Kim JM, Burkhart R, David Kwon CH, Pawlik TM: Nontumor related risk score: A new tool to improve prediction of prognosis after hepatectomy for colorectal liver metastases. *Surgery* 171:1580-1587, 2022
42. Lan C, Yamashita YI, Hayashi H, Nakagawa S, Imai K, Mima K, Kaida T, Matsumoto T, Maruno M, Liu Z, Wu X, Wei F, Baba H: High expression of bloom syndrome helicase is a key factor for poor prognosis and advanced malignancy in patients with pancreatic cancer: A retrospective study. *Ann Surg Oncol* 29:3551-3564, 2022
43. Miyata T, Hayashi H, Baba H: ASO author reflections: Is histologic liver inflammation a predictor in patients with hepatocellular carcinoma after hepatectomy? *Ann Surg Oncol* 29:903-904, 2022

44. Miyata T, Hayashi H, Yamashita YI, Matsumura K, Higashi T, Imai K, Nitta H, Chikamoto A, Beppu T, Baba H: The impact of histologic liver inflammation on oncology and the prognosis of patients undergoing hepatectomy for hepatocellular carcinoma. *Ann Surg Oncol* 29:893-902, 2022
45. Morinaga T, Iwatsuki M, Yamashita K, Matsumoto C, Harada K, Kurashige J, Iwagami S, Baba Y, Yoshida N, Komohara Y, Baba H: Evaluation of HLA-E expression combined with natural killer cell status as a prognostic factor for advanced gastric cancer. *Ann Surg Oncol* 29:4951-4960, 2022
46. Yoshida N, Eto K, Baba H: ASO author reflections: Development of useful predictive markers for postoperative morbidity aiming to improve short-term and long-term outcomes after esophageal cancer surgery. *Ann Surg Oncol* 29:614-615, 2022
47. Yoshida N, Eto K, Baba H: ASO author reflections: Insufficient preoperative smoking cessation may deteriorate postoperative prognosis for esophageal cancer. *Ann Surg Oncol* 29:8181-8182, 2022
48. Yoshida N, Eto K, Horinouchi T, Harada K, Sawayama H, Ogawa K, Nagai Y, Iwatsuki M, Iwagami S, Ishimoto T, Baba Y, Miyamoto Y, Baba H: Preoperative smoking cessation and prognosis after curative esophagectomy for esophageal cancer: A cross-sectional study. *Ann Surg Oncol* 29:8172-8180, 2022
49. Yoshida N, Horinouchi T, Toihata T, Harada K, Eto K, Sawayama H, Iwatsuki M, Nagai Y, Ishimoto T, Baba Y, Miyamoto Y, Baba H: Clinical significance of pretreatment red blood cell distribution width as a predictive marker for postoperative morbidity after esophagectomy for esophageal cancer: A retrospective study. *Ann Surg Oncol* 29:606-613, 2022
50. Daitoku N, Miyamoto Y, Hiyoshi Y, Tokunaga R, Sakamoto Y, Sawayama H, Ishimoto T, Baba Y, Yoshida N, Baba H: Activin A promotes cell proliferation, invasion and migration and predicts poor prognosis in patients with colorectal cancer.

Oncol Rep 47, 2022

51. Harada K, Yamashita K, Iwatsuki M, Baba H, Ajani JA: Intraperitoneal therapy for gastric cancer peritoneal carcinomatosis. *Expert Rev Clin Pharmacol* 15:43-49, 2022
52. Nakamura K, Eto K, Iwagami S, Ogawa K, Sawayama H, Ishimoto T, Iwatsuki M, Baba Y, Miyamoto Y, Yoshida N, Baba H: Clinicopathological characteristics and prognosis of poorly cohesive cell subtype of gastric cancer. *Int J Clin Oncol* 27:512-519, 2022
53. Yamane T, Sawayama H, Yoshida N, Morinaga T, Akiyama T, Eto K, Harada K, Ogawa K, Iwatsuki M, Iwagami S, Baba Y, Miyamoto Y, Baba H: Preoperative transferrin level is a novel indicator of short- and long-term outcomes after esophageal cancer surgery. *Int J Clin Oncol* 27:131-140, 2022
54. Kitano Y, Pietrasz D, Fernandez-Sevilla E, Golse N, Vibert E, Sa Cunha A, Azoulay D, Cherqui D, Baba H, Adam R, Allard MA: Subjective difficulty scale in liver transplantation: A prospective observational study. *Transpl Int* 35:10308, 2022
55. Kojima T, Hara H, Tsuji A, Yasui H, Muro K, Satoh T, Ogata T, Ishihara R, Goto M, Baba H, Nishina T, Han S, Sakata T, Yatsuzuka N, Doi T, Kato K: First-line pembrolizumab + chemotherapy in Japanese patients with advanced/metastatic esophageal cancer from KEYNOTE-590. *Esophagus* 19:683-692, 2022
56. Murakami K, Yoshida N, Taniyama Y, Takahashi K, Toyozumi T, Uno T, Kamei T, Baba H, Matsubara H: Maximum standardized uptake value change rate before and after neoadjuvant chemotherapy can predict early recurrence in patients with locally advanced esophageal cancer: a multi-institutional cohort study of 220 patients in Japan. *Esophagus* 19:205-213, 2022
57. Kumamoto S, Fukuyama S, Nagano S, Yasuda K, Kitamura Y, Iwatsuki M, Baba H, Ihara T, Nakanishi Y, Nakashima Y: Fabrication of Three-Dimensionally Deformable Metal Structures Using Precision Electroforming. *Micromachines* 13, 2022

58. Morito A, Kosumi K, Kubota T, Yumoto S, Matsumoto T, Mima K, Inoue M, Mizumoto T, Miyanari N, Baba H: Investigation of risk factors for postoperative seroma/hematoma after TAPP. *Surg Endosc* 36:4741-4747, 2022
59. Uemura N, Hayashi H, Baba H: Statin as a therapeutic agent in gastroenterological cancer. *World J Gastrointest Oncol* 14:110-123, 2022
60. Eto K, Yoshida N, Iwatsuki M, Iwagami S, Yamashita K, Nakamura K, Harada K, Sawayama H, Ishimoto T, Baba Y, Miyamoto Y, Baba H: Impact of type of gastrectomy on death from pneumonia in elderly patients with gastric cancer over the long term. *World J Surg* 46:425-432, 2022
61. Imai K, Miyamoto Y, Tamura Y, Hayashi H, Ikeda O, Yamashita YI, Baba H: Simultaneous portal vein embolization and colorectal resection in a hybrid interventional radiology/operating suite for synchronous colorectal liver metastases. *J Gastrointest Surg* 26:1307-1310, 2022
62. Kitano Y, Yamashita YI, Matsumoto T, Kinoshita S, Itoyama R, Kaida T, Hayashi H, Imai K, Chikamoto A, Baba H: Survival impact of perioperative red blood cell transfusion during pancreatectomy in patients with pancreatic ductal adenocarcinoma: A propensity score matching analysis. *Pancreas* 51:200-204, 2022
63. Kitano Y, Hayashi H, Matsumoto T, Nakao Y, Kaida T, Mima K, Imai K, Yamashita YI, Baba H: The efficacy of anatomic resection for hepatocellular carcinoma within Milan criteria: A retrospective single-institution case-matched study. *Eur J Surg Oncol* 48:2008-2013, 2022
64. Amini N, Andreatos N, Margonis GA, Buettner S, Wang J, Galjart B, Wagner D, Sasaki K, Angelou A, Sun J, Kamphues C, Beer A, Morioka D, Loes IM, Antoniou E, Imai K, Pikoulis E, He J, Kaczirek K, Poultsides G, Verhoef C, Lonning PE, Endo I, Baba H, Kornprat P, F NA, Kreis ME, Christopher WL, Weiss MJ, Safar B, Burkhart RA: Mutant KRAS as a prognostic biomarker after hepatectomy for rectal

cancer metastases: Does the primary disease site matter? *J Hepatobiliary Pancreat Sci* 29:417-427, 2022

65. Homma Y, Endo I, Matsuyama R, Sho M, Mizuno S, Seyama Y, Hirano S, Aono T, Kitami C, Morita Y, Takeda Y, Yoshida K, Tani M, Kaiho T, Yamamoto Y, Aoki H, Ogawa M, Niguma T, Mataka Y, Kawasaki H, Baba H, Yokomizo H, Rikiyama T, Yamaue H, Yamamoto M: Outcomes of lung metastasis from pancreatic cancer: A nationwide multicenter analysis. *J Hepatobiliary Pancreat Sci* 29:552-561, 2022
66. Satoi S, Takahara N, Fujii T, Isayama H, Yamada S, Tsuji Y, Miyato H, Yamaguchi H, Yamamoto T, Hashimoto D, Yamaki S, Nakai Y, Saito K, Baba H, Watanabe T, Ishii S, Hayashi M, Kurimoto K, Shimada H, Kitayama J: Synopsis of a clinical practice guideline for pancreatic ductal adenocarcinoma with peritoneal dissemination in Japan; Japan Peritoneal Malignancy Study Group. *J Hepatobiliary Pancreat Sci* 29:600-608, 2022
67. Horinouchi T, Yoshida N, Harada K, Eto K, Sawayama H, Iwatsuki M, Iwagami S, Baba Y, Miyamoto Y, Baba H: A retrospective study of preoperative malnutrition based on the Controlling Nutritional Status score as an associated marker for short-term outcomes after open and minimally invasive esophagectomy for esophageal cancer. *Langenbecks Arch Surg* 407:3367-3375, 2022
68. Matsumura M, Hasegawa K, Oba M, Yamaguchi K, Uetake H, Yoshino T, Morita S, Takahashi K, Unno M, Shimada Y, Muro K, Matsushashi N, Mori M, Baba H, Shimada M, Mise Y, Kawaguchi Y, Kagimura T, Ishigure K, Saiura A, Sugihara K, Kokudo N: A randomized controlled trial of surgery and postoperative modified FOLFOX6 versus surgery and perioperative modified FOLFOX6 plus cetuximab in patients with KRAS wild-type resectable colorectal liver metastases: EXPERT study. *Langenbecks Arch Surg* 407:1345-1356, 2022
69. Miyata T, Matsumoto T, Nakao Y, Higashi T, Imai K, Hayashi H, Nitta H, Chikamoto A, Beppu T, Yamashita YI, Baba H: Major postoperative complications are associated with early recurrence of hepatocellular carcinoma following hepatectomy.

Langenbecks Arch Surg 407:2373-2380, 2022

70. Yamane T, Yoshida N, Horinouchi T, Morinaga T, Eto K, Harada K, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Baba H: Minimally invasive esophagectomy may contribute to low incidence of postoperative surgical site infection in patients with poor glycemic control. *Langenbecks Arch Surg* 407:579-585, 2022
71. Adachi Y, Tokunaga R, Matsumoto K, Nakao Y, Itoyama R, Kuramoto K, Karashima R, Nitta H, Tomiyasu S, Baba H, Takamori H: What are the factors predictive of postoperative complications in patients with colorectal cancer undergoing stenting as a bridge to surgery? *J Surg Oncol* 125:982-990, 2022
72. Mima K, Imai K, Kaida T, Matsumoto T, Nakagawa S, Sawayama H, Hayashi H, Yamashita YI, Baba H: Impairment of perioperative activities of daily living is associated with poor prognosis following hepatectomy for hepatocellular carcinoma. *J Surg Oncol* 126:995-1002, 2022
73. Hara Y, Baba Y, Toihata T, Harada K, Ogawa K, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Baba H: Immune-related adverse events and prognosis in patients with upper gastrointestinal cancer treated with nivolumab. *J Gastrointest Oncol* 13:2779-2788, 2022
74. Masuda T, Takamori H, Ogawa K, Shimizu K, Karashima R, Nitta H, Matsumoto K, Okino T, Baba H: C-reactive protein level on postoperative day 3 as a predictor of anastomotic leakage after elective right-sided colectomy. *Surg Today* 52:337-343, 2022
75. Matsumoto T, Kitano Y, Imai K, Kinoshita S, Sato H, Shiraishi Y, Mima K, Hayashi H, Yamashita YI, Baba H: Clinical significance of preoperative inflammation-based score for the prognosis of patients with hepatocellular carcinoma who underwent hepatectomy. *Surg Today* 52:1008-1015, 2022

76. Yamashita YI, Yamao T, Nakao Y, Miyata T, Ikegami Y, Yamane S, Ito T, Furukawa T, Cho J, Wu F, Fujie Y, Arima M, Aishima S, Ijima H, Baba H: Efficacy of a newly developed bioabsorbable pancreatic clip for distal pancreatectomy in swine. *Surg Today* 52:1109-1114, 2022
77. Arima K, Komohara Y, Uchihara T, Yamashita K, Uemura S, Hanada N, Baba H: A case of mesenteric desmoid tumor causing bowel obstruction after laparoscopic surgery. *Anticancer Res* 42:381-384, 2022
78. Yusa T, Yamashita YI, Nitta H, Nakao Y, Itoyama R, Kitano Y, Kaida T, Miyata T, Mima K, Imai K, Hayashi H, Baba H: Efficacy of ring drape and unused sterile instruments for incisional SSI after hepatectomy. *Anticancer Res* 42:1007-1012, 2022
79. Mitsuura C, Miyamoto Y, Ogawa K, Sawayama H, Toihata T, Harada K, Eto K, Iwatsuki M, Iwagami S, Baba Y, Yoshida N, Baba H: Successful management of anal squamous cell carcinoma with liver and ovary metastases: A case report. *In Vivo* 36:3023-3028, 2022
80. Uchihara T, Komohara Y, Yamashita K, Arima K, Uemura S, Hanada N, Baba H: Chronic appendicitis caused by a perforating fish bone: Case report and brief literature review. *In Vivo* 36:1982-1985, 2022
81. Baba Y, Nakagawa S, Toihata T, Harada K, Iwatsuki M, Hayashi H, Miyamoto Y, Yoshida N, Baba H: Pan-immune-inflammation value and prognosis in patients with esophageal cancer. *Annals of Surgery Open* 3:e113, 2022
82. Yoshida N, Horinouchi T, Eto K, Harada K, Sawayama H, Imamura Y, Iwatsuki M, Ishimoto T, Baba Y, Miyamoto Y, Watanabe M, Baba H: Prognostic value of pretreatment red blood cell distribution width in patients with esophageal cancer who underwent esophagectomy: A retrospective study. *Annals of Surgery Open* 3, 2022
83. Yoshida N, Sasaki K, Kanetaka K, Kimura Y, Shibata T, Ikenoue M, Nakashima Y,

- Sadanaga N, Eto K, Tsuruda Y, Kobayashi S, Nakanoko T, Suzuki K, Takeno S, Yamamoto M, Morita M, Toh Y, Baba H: High pretreatment mean corpuscular volume can predict worse prognosis in patients with esophageal squamous cell carcinoma who have undergone curative esophagectomy. *Annals of Surgery Open* 3:e165, 2022
84. Yamashita K, Komohara Y, Uchihara T, Arima K, Uemura S, Hanada N, Baba H: A rare case of perforation of a colorectal tumor by a fish bone. *Clin J Gastroenterol* 15:598-602, 2022
85. Yumoto S, Doi K, Higashi T, Shimao Y, Ueda M, Ishihara A, Adachi Y, Ishiodori H, Honda S, Baba H: Intra-abdominal bleeding caused by amyloid transthyretin amyloidosis in the gastrointestinal tract: a case report. *Clin J Gastroenterol* 15:140-145, 2022
86. Yumoto S, Nakagawa S, Hayashi H, Ogawa D, Shiraishi Y, Sato H, Matsumoto T, Imai K, Yamashita YI, Baba H: Multimodal therapy with aggressive hepatectomy, everolimus, and octreotide for metastatic pancreatic neuroendocrine neoplasm enables 10-year survival. *Clin J Gastroenterol* 15:1136-1144, 2022
87. Maeda Y, Miyamoto Y, Hiyoshi Y, Eto K, Iwatsuki M, Iwagami S, Baba Y, Yoshida N, Baba H: Surgical removal of giant pelvic liposarcoma after preoperative transcatheter arterial embolization. *Int Cancer Conf J* 11:275-279, 2022
88. Masuda T, Takamori H, Kato M, Mitsuura C, Shiraishi Y, Itoyama R, Shimizu K, Karashima R, Nitta H, Baba H: Safety assessment of dextrin hydrogel adhesion barrier (AdSpray®) for elective laparoscopic cholecystectomy. *Laparoscopic, Endoscopic and Robotic Surgery* 5:61-65, 2022
89. Hara Y, Nakamura K, Iwagami S, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Yoshida N, Baba H: A case of clinical stage I gastric cancer with a schwannoma on the left supraclavicular fossa suspected as Virchow's node metastasis. *Surg Case Rep* 8:95, 2022

90. Horino T, Miyata T, Inoue M, Ono K, Ono A, Tagayasu Y, Nomoto D, Mizumoto T, Kubota T, Miyanari N, Baba H: Shanghai fever, a fatal enteric illness, in an adult patient with neutropenia caused by treatment-related myelodysplastic syndrome: a case report. *Surg Case Rep* 8:69, 2022
91. Sawayama H, Miyamoto Y, Ogawa K, Ohuchi M, Hisano Y, Kato M, Tubakihara H, Yoshida N, Baba H: Pathologic complete response after laparoscopic surgery following treatment with nivolumab and ipilimumab for anticancer drug-resistant MSI-high descending colon cancer: a case report and literature review. *Surg Case Rep* 8:223, 2022
92. Tagayasu Y, Miyamoto Y, Sawayama H, Ogawa K, Kato R, Yoshida N, Mukasa A, Baba H: Rectal cancer diagnosed after resection of isolated brain metastasis. *Surg Case Rep* 8:52, 2022
93. Nakao Y, Hayashi H, Yamashita YI, Takashi O, Matsumura K, Uemura N, Kitamura F, Itoyama R, Yusa T, Taki K, Miyata T, Higashi T, Nakagawa S, Okabe H, Imai K, Baba H: Risk factors for lymph node metastasis in patients with pancreatic neuroendocrine neoplasms. *World J Clin Oncol* 13:520-528, 2022
94. Kosumi K, Mima K, Kanemitsu K, Tajiri T, Takematsu T, Sakamoto Y, Inoue M, Miyamoto Y, Mizumoto T, Kubota T, Miyanari N, Baba H: Self-expanding metal stent placement and pathological alterations among obstructive colorectal cancer cases. *World J Gastrointest Endosc* 14:704-717, 2022
95. Kaida T, Hayashi H, Sato H, Kinoshita S, Matsumoto T, Shiraishi Y, Kitano Y, Higashi T, Imai K, Yamashita YI, Baba H: Assessment for the minimal invasiveness of laparoscopic liver resection by interleukin-6 and thrombospondin-1. *World J Hepatol* 14:234-243, 2022
96. Miyamoto Y, Ogawa K, Ohuchi M, Tokunaga R, Baba H: Emerging evidence of immunotherapy for colorectal cancer. *Ann Gastroenterol Surg*, 2022 Nov 08. doi:

10.1002/ags3.12633. Online ahead of print.

97. Miyamoto Y, Akiyama T, Kato R, Sawayama H, Ogawa K, Yoshida N, Baba H: Prognostic significance of systemic inflammation indices by KRAS Status in patients with metastatic colorectal cancer. *Dis Colon Rectum*, 2022 Feb 21. doi: 10.1097/DCR.0000000000002392. Online ahead of print.
98. Wei F, Uchihara T, Yonemura A, Yasuda-Yoshihara N, Yasuda T, Semba T, Fukuda M, Akiyama T, Kitamura F, Bu L, Hu X, Fu L, Zhang J, Kariya R, Yamasaki J, Aihara K, Yamashita K, Nagano O, Okada S, Baba H, Ishimoto T: A novel tdTomato transgenic mouse model to visualize FAP-positive cancer-associated fibroblasts. *FEBS J*, 2022 Dec 24. doi: 10.1111/febs.16712. Online ahead of print.
99. Hirao H, Okabe H, Masuda T, Ogawa D, Uemura N, Kuroda D, Taki K, Tomiyasu S, Hirota M, Hibi T, Baba H, Sugita H: Intestinal fluid CT level could predict pathological small bowel ischemia in small bowel obstruction. *Indian J Surg*, 2022 Aug 02. doi: 10.1007/s12262-022-03437-w. Online ahead of print.
100. Zhao Y, Peng F, Wang C, Murano T, Baba H, Ikematsu H, Li W, Goel A: A DNA methylation-based epigenetic signature for the identification of lymph node metastasis in T1 colorectal cancer. *Ann Surg* 277:655-663, 2023
101. Akiyama T, Yasuda T, Uchihara T, Yasuda-Yoshihara N, Tan BJY, Yonemura A, Semba T, Yamasaki J, Komohara Y, Ohnishi K, Wei F, Fu L, Zhang J, Kitamura F, Yamashita K, Eto K, Iwagami S, Tsukamoto H, Umemoto T, Masuda M, Nagano O, Satou Y, Saya H, Tan P, Baba H, Ishimoto T: Stromal reprogramming through dual PDGFR α /beta blockade boosts the efficacy of anti-PD-1 immunotherapy in fibrotic tumors. *Cancer Res* 83:753-770, 2023
102. Liu Z, Hayashi H, Matsumura K, Ogata Y, Sato H, Shiraishi Y, Uemura N, Miyata T, Higashi T, Nakagawa S, Mima K, Imai K, Baba H: Hyperglycaemia induces metabolic reprogramming into a glycolytic phenotype and promotes epithelial-mesenchymal transitions via YAP/TAZ-Hedgehog signalling axis in pancreatic

cancer. *Br J Cancer* 128:844-856, 2023

103. Kosumi K, Baba Y, Yamamura K, Nomoto D, Okadome K, Yagi T, Toihata T, Kiyozumi Y, Harada K, Eto K, Sawayama H, Ishimoto T, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Watanabe M, Baba H: Intratumour *Fusobacterium nucleatum* and immune response to oesophageal cancer. *Br J Cancer* 128:1155-1165, 2023
104. Zhang J, Fu L, Yasuda-Yoshihara N, Yonemura A, Wei F, Bu L, Hu X, Akiyama T, Kitamura F, Yasuda T, Semba T, Uchihara T, Itoyama R, Yamashita K, Eto K, Iwagami S, Yashiro M, Komohara Y, Baba H, Ishimoto T: IL-1 β derived from mixed-polarized macrophages activates fibroblasts and synergistically forms a cancer-promoting microenvironment. *Gastric Cancer* 26:187-202, 2023
105. Liu Z, Hayashi H, Matsumura K, Uemura N, Shiraishi Y, Sato H, Baba H: Biological and clinical impacts of glucose metabolism in pancreatic ductal adenocarcinoma. *Cancers (Basel)* 15, 2023
106. Yoshida N, Eto K, Matsumoto T, Kosumi K, Imamura Y, Iwatsuki M, Baba Y, Miyamoto Y, Watanabe M, Baba H: Omental flap wrapping around the esophagogastric anastomosis and association with anastomotic leak in esophagectomy for esophageal cancer: A propensity score-matching analysis. *J Am Coll Surg* 236:189-197, 2023
107. Yasuda T, Baba H, Ishimoto T: Cellular senescence in the tumor microenvironment and context-specific cancer treatment strategies. *FEBS J* 290:1290-1302, 2023
108. Mima K, Nakagawa S, Miyata T, Yamashita YI, Baba H: Frailty and surgical outcomes in gastrointestinal cancer: Integration of geriatric assessment and prehabilitation into surgical practice for vulnerable patients. *Ann Gastroenterol Surg* 7:27-41, 2023
109. Mima K, Hayashi H, Yumoto S, Matsumoto T, Tsukamoto M, Miyata T, Nakagawa

- S, Nitta H, Baba H: Disability in perioperative activities of daily living is associated with worse survival outcomes following hepatic resection in patients with intrahepatic cholangiocarcinoma. *Hepatol Res* 53:135-144, 2023
110. Harada K, Matsumoto C, Toihata T, Kosumi K, Iwatsuki M, Baba Y, Ohuchi M, Eto K, Ogawa K, Sawayama H, Iwagami S, Miyamoto Y, Yoshida N, Baba H: C-Reactive protein levels after esophagectomy are associated with increased surgical complications and poor prognosis in esophageal squamous cell carcinoma patients. *Ann Surg Oncol* 30:1554-1563, 2023
111. Ikenaga N, Miyasaka Y, Ohtsuka T, Nakata K, Adachi T, Eguchi S, Nishihara K, Inomata M, Kurahara H, Hisaka T, Baba H, Nagano H, Ueki T, Noshiro H, Tokunaga S, Ishigami K, Nakamura M, Kyushu Study Group of Treatment for Pancreatobiliary C: A prospective multicenter phase II trial of neoadjuvant chemotherapy with gemcitabine plus nab-paclitaxel for borderline resectable pancreatic cancer with arterial involvement. *Ann Surg Oncol* 30:193-202, 2023
112. Morinaga T, Iwatsuki M, Yamashita K, Yasuda-Yoshihara N, Yamane T, Matsumoto C, Harada K, Eto K, Kurashige J, Ishimoto T, Baba Y, Miyamoto Y, Yoshida N, Baba H: Dynamic alteration in HLA-E expression and soluble HLA-E via Interaction with natural killer cells in gastric cancer. *Ann Surg Oncol* 30:1240-1252, 2023
113. Shindo Y, Nagano H, Kanai M, Kobayashi S, Wada H, Sakai D, Eguchi H, Baba H, Kamachi H, Takayama T, Ueno M, Takahashi M, Nakagami Y, Yoshimura K, Hatano E, Ioka T: Clinical outcomes of second-line chemotherapy after gemcitabine and cisplatin plus S-1 treatment for patients with advanced biliary tract cancer in the KHBO1401-3A study. *Oncol Rep* 49(2):41, 2023
114. Horino T, Tokunaga R, Miyamoto Y, Hiyoshi Y, Akiyama T, Daitoku N, Sakamoto Y, Yoshida N, Baba H: The impact of the advanced lung cancer inflammation index on the outcomes of patients with metastatic colorectal cancer who receive chemotherapy. *Int J Clin Oncol* 28:400-408, 2023

- 115.Horinouchi T, Yoshida N, Toihata T, Harada K, Eto K, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Baba H: Postoperative respiratory morbidity can adversely affect prognosis in thoracoscopic esophagectomy for esophageal cancer: a retrospective study. *Surg Endosc* 37:2104-2111, 2023
- 116.Ioka T, Kanai M, Kobayashi S, Sakai D, Eguchi H, Baba H, Seo S, Taketomi A, Takayama T, Yamaue H, Takahashi M, Sho M, Kamei K, Fujimoto J, Toyoda M, Shimizu J, Goto T, Shindo Y, Yoshimura K, Hatano E, Nagano H, Kansai Hepatobiliary Oncology G: Randomized phase III study of gemcitabine, cisplatin plus S-1 versus gemcitabine, cisplatin for advanced biliary tract cancer (KHBO1401-MITSUBA). *J Hepatobiliary Pancreat Sci* 30:102-110, 2023
- 117.Kanaka S, Matsuda A, Yamada T, Miyamoto Y, Yokoyama Y, Matsumoto S, Sonoda H, Ohta R, Shinji S, Sekiguchi K, Baba H, Yoshida H: Segmental or right hemicolectomy? The optimal surgical procedure for transverse colon cancer: a propensity score-matched, multicenter, retrospective study. *Int J Colorectal Dis* 38:58, 2023
- 118.Miyata T, Sugi K, Horino T, Ono A, Tagayasu Y, Nomoto D, Inoue M, Mizumoto T, Kubota T, Yanagida E, Murayama T, Miyanari N, Baba H: Conversion surgery after atezolizumab plus bevacizumab for primary and peritoneal metastasis after hepatocellular carcinoma rupture. *Anticancer Res* 43:943-947, 2023
- 119.Tubakihara H, Sawayama H, Komohara Y, Miyamoto Y, Ogawa K, Ohuchi M, Yoshida N, Baba H: A case of familial adenomatous polyposis with protein-losing enteropathy treated by laparoscopic total colorectal resection: A literature review. *Asian J Endosc Surg* 16:77-81, 2023
- 120.Stachler MD, Bao C, Tourdot RW, Brunette GJ, Stewart C, Sun L, Baba H, Watanabe M, Agoston A, Jajoo K, Davison JM, Nason K, Getz G, Wang KK, Imamura Y, Odze R, Bass AJ, Zhang C-Z: Origins of cancer genome complexity revealed by haplotype-resolved genomic analysis of evolution of Barrett's esophagus to esophageal adenocarcinoma. *bioRxiv:2021.2003.2026.437288*, 2023

121. Ichida A, Kokudo T, Shimada S, Hatano E, Kubo S, Kato Y, Ishikawa Y, Mori A, Baba H, Matsuyama Y, Endo I, Yamaue H, Yamamoto M, Kokudo N, Hasegawa K: Liver resection for hepatocellular carcinoma with tumor thrombus in the inferior vena cava or right atrium: A large-scale multicenter survey conducted in Japan. *Ann Surg*, 2023 Jan 2. doi: 10.1097/SLA.0000000000005789. Online ahead of print.
122. Saito Y, Fujiwara Y, Miyamoto Y, Ohnishi K, Nakashima Y, Tabata Y, Baba H, Komohara Y: CD169(+) sinus macrophages in regional lymph nodes do not predict mismatch-repair status of patients with colorectal cancer. *Cancer Med*, 2023 Feb 27. doi: 10.1002/cam4.5747. Online ahead of print.
123. Morito A, Harada K, Iwatsuki M, Maeda Y, Mitsuura C, Toihata T, Kosumi K, Eto K, Iwagami S, Baba Y, Miyamoto Y, Yoshida N, Baba H: Frailty assessed by the clinical frailty scale is associated with prognosis after esophagectomy. *Ann Surg Oncol*, 2023 Mar 7. doi: 10.1245/s10434-023-13313-w. Online ahead of print.
124. Maehara Y, Oki E, Ota M, Harimoto N, Ando K, Nakanishi R, Kawazoe T, Fujimoto Y, Nonaka K, Kitao H, Iimori M, Makino K, Takechi T, Sagara T, Miyadera K, Matsuoka K, Tsukihara H, Kataoka Y, Wakasa T, Ochiwa H, Kamahori Y, Tokunaga E, Saeki H, Yoshizumi T, Kakeji Y, Shirabe K, Baba H, Shimada M: Lineage of drug discovery research on fluorinated pyrimidines: chronicle of the achievements accomplished by Professor Setsuro Fujii. *Int J Clin Oncol*, 2023 Mar 24. doi: 10.1007/s10147-023-02326-w. Online ahead of print.
125. Tomita M, Okabe H, Masuda T, Ono A, Kuroda D, Kuroki H, Hirota M, Hibi T, Baba H, Sugita H: A case of accessory hepatic duct entering cystic duct successfully treated by laparoscopic cholecystectomy for cholecystolithiasis. *Asian J Endosc Surg*, 2023 Mar 21. doi: 10.1111/ases.13175. Online ahead of print.
126. Yoshida N, Eto K, Baba Y, Hiyoshi Y, Watanabe M, Kurashige J, Iwagami S, Sakamoto Y, Miyamoto Y, Baba H: Short-term outcomes after esophagectomy for esophageal cancer patients with a history of gastrectomy. *Hepato-Gastroenterol*, in press.

9) Department of Cell Signaling and Metabolic Medicine

1. Yamane, T., Kanamori, Y., Sawayama, H., Yano, H., Nita, A., Ohta, Y., Hinokuma, H., Maeda, A., Iwai, A., Matsumoto, T., Shimoda, M., Niimura, M., Usuki, S., Yasuda-Yoshihara, N., Niwa, M., Baba, Y., Ishimoto, T., Komohara, Y., Sawa, T., Hirayama, T., Baba, H., and Moroishi, T.

Iron accelerates *Fusobacterium nucleatum*-induced CCL8 expression in macrophages and is associated with colorectal cancer progression.

JCI insight 7, e156802 (2022).

2. Bu, L., Yonemura, A., Yasuda-Yoshihara, N., Uchihara, T., Ismagulov, G., Takasugi, S., Yasuda, T., Okamoto, Y., Kitamura, F., Akiyama, T., Arima, K., Itoyama, R., Zhang, J., Fu, L., Hu, X., Wei, F., Arima, Y., Moroishi, T., Nishiyama, K., Sheng, G., Mukunoki, T., Otani, J., Baba, H., and Ishimoto, T.

Tumor microenvironmental 15-PGDH depletion promotes fibrotic tumor formation and angiogenesis in pancreatic cancer.

Cancer Sci. 113, 3579-3592 (2022).

3. Horiguchi, H., Kadomatsu, T., Yumoto, S., Masuda, T., Miyata, K., Yamamura, S., Sato, M., Morinaga, J., Ohtsuki, S., Baba, H., Moroishi, T., and Oike, Y.

Tumor cell-derived ANGPTL2 promotes β -catenin-driven intestinal tumorigenesis.

Oncogene 41, 4028-4041 (2022).

4. Shinchi, H., Komaki, F., Yuki, M., Ohara, H., Hayakawa, N., Wakao, M., Cottam, H.B., Hayashi, T., Carson, D.A., Moroishi, T., and Suda, Y.

Glyco-Nanoadjuvants: Impact of Linker Length for Conjugating a Synthetic Small-Molecule TLR7 Ligand to Glyco-Nanoparticles on Immunostimulatory Effects.

ACS Chem. Biol. 17, 957-968 (2022).

5. Nomoto, D., Baba, Y., Liu, Y., Tsutsuki, H., Okadome, K., Harada, K., Ishimoto, T., Iwatsuki, M., Iwagami, S., Miyamoto, Y., Yoshida, N., Watanabe, M., Moroishi, T., Komohara, Y., Sawa, T., Baba, H.

Fusobacterium nucleatum promotes esophageal squamous cell carcinoma

progression via the NOD1/RIPK2/NF-kappaB pathway.

Cancer Lett. 530, 59-67 (2022).

6. Yu, L., Zhou, D., Zhang, G., Ren, Z., Luo, X., Liu, P., Plouffe, S.W., Meng, Z., Moroishi, T., Li, Y., Zhang, Y., Brown, J.H., Liu, S., and Guan, K.L.
Co-occurrence of BAP1 and SF3B1 mutations in uveal melanoma induces cellular senescence.
Mol. Oncol. 16, 607-629 (2022).

10) Department of Stem Cell Stress

(# and * indicate co-first and corresponding author, respectively)

1. Liu X, Sato N, Yabushita T, Tamura M, Asada S, Fujino T, Fukushima T, Yonezawa T, Tanaka Y, Fukuyama T, Tsuchiya A, Shikata S, Iwamura H, Saito M, Kinouchi C, Komatsu K, Yamasaki S, Shibata T, Sasaki AT, Schibler J, Wunderlich M, O'Brien E, Mizukawa B, Mulloy JC, Sugiura Y, Takizawa H, Shibata T, Miyake K, Kitamura T, Goyama S*. IMPDH inhibition activates TLR-VCAM1 pathway and suppresses the development of MLL-fusion leukemia. *EMBO Mol Med*, 2022 Dec 1;e15631.
2. Sezaki M#, Hayashi Y#, Nakato G, Wang Y, Nakata S, Biswas S, Morishima T, Fakruddin M, Moon J, Ahn S, Kim P, Miyamoto Y, Baba H, Fukuda S, Takizawa H*. Hematopoietic stem and progenitor cells integrate microbial signals to promote post-inflammation gut tissue repair. *EMBO J.*, 2022 Oct 18;e110712.
3. Takihara Y., Higaki T., Yokomizo T., Umemoto T., Ariyoshi K., Hashimoto M., Sezaki M., Takizawa H., Inoue T., Suda T., Mizuno H. Bone marrow imaging reveals the migration dynamics of neonatal hematopoietic stem cells. *Commun Biol.*, 2022 Aug 2;5(1):776.
4. Fujita S, Morikawa T, Tamaki S, Sezaki M, Takizawa H, Okamoto S, Kataoka K, Takubo K. Quantitative analysis of sympathetic and nociceptive innervation across bone marrow regions in mice. *Exp. Hematol.*, 2022 August–September;112-113: 44-59.e6

5. Kovtonyuk LV, Caiado F, Garcia-Martin S, Manz EM, Helbling PM, Takizawa H, Boettcher S, Al-Shahrour F, Nombela-Arrieta C, Slack E, Manz MG*. IL-1 mediates microbiome-induced inflammaging of hematopoietic stem cells in mice. *Blood*, 2022 Jan 6;139(1):44-58.
6. Mende N, Bastos HP, Santoro A, Mahbubani KT, Ciaurro V, Calderbank EF, Quiroga Londoño M, Sham K, Mantica G, Morishima T, Mitchell E, Lidonnici MR, Meier-Abt F, Hayler D, Jardine L, Curd A, Haniffa M, Ferrari G, Takizawa H, Wilson NK, Göttgens B, Saeb-Parsy K, Frontini M, Laurenti E. Unique molecular and functional features of extramedullary hematopoietic stem and progenitor cell reservoirs in humans. *Blood*, 2022 Jun 9;139(23):3387-3401.
7. Tanaka Y, Takeda R, Fukushima T, Mikami K, Tsuchiya S, Tamura M, Adachi K, Umemoto T, Asada S, Watanabe N, Morishita S, Imai M, Nagata M, Araki M, Takizawa H, Fukuyama T, Lamagna C, Masuda ES, Ito R, Goyama S, Komatsu N, Takaku T, Kitamura T*. Eliminating chronic myeloid leukemia stem cells by IRAK1/4 inhibitors. *Nat Commun.*, 2022 Jan 12;13(1):271.
8. Ahmed K, Arima Y, Tabata N, Ishii M, Sato R, Yamashita T, Yamanaga K, Takizawa H, Hokimoto S, Sueta D, Araki S, Fujisue K, Takashio S, Fujimoto K, Shimomura H, Tsunoda R, Hirose T, Sato K, Kikuta K, Sakaino N, Nakamura S, Yamamoto N, Matsumura T, Kajiwara I, Tayama S, Sakamoto T, Nakao K, Oshima S, Yamamoto E, Sakamoto K, Kaikita K, Matsushita K, Tsujita K. Impact of cerebrovascular comorbidity on prognosis in Japanese patients undergoing PCI: 1-year data from Japanese multicenter registry (KICS). *Heart Vessels.*, 2022 Jan 11.

Review (# and * indicate co-first and corresponding author, respectively)

1. Ho NP, Takizawa H*. Inflammation regulates haematopoietic stem cells and their niche. *Int. J. Mol. Sci.*, 2022 Jan 20;23(3):1125.
- 11) Department of Gastroenterology and Hepatology
1. Inoue T, Funatsu Y, Ohnishi M, Isogawa M, Kawashima K, Tanaka M, Moriya K, Kawaratani H, Momoda R, Iio E, Nakagawa H, Suzuki Y, Matsuura K, Fujiwara K,

- Nakajima A, Yoshiji H, Nakayama J, Tanaka Y (Corresponding) :
Bile acid dysmetabolism in the gut-microbiota-liver axis under hepatitis C virus infection. **Liver Int.**42(1)124-134,2022
2. Abounouh K, Kayesh MEH, Altawalah H, Kitab B, Murakami S, Ogawa S, Tanaka Y, Dehbi H, Pineau P, Kohara M, Benjelloun S, Tsukiyama-Kohara K, Ezzikouri S :
Blocking neddylation elicits antiviral effect against hepatitis B virus replication.
Mol Biol Rep.49(1)403-412,2022
 3. Kayesh M-E-H, Hashem M-A, Sanada T, Kitab B, Rashid M-H-O, Akter L, Ezzikouri S, Murakami S, Ogawa S, Tanaka Y, Kohara M and Tsukiyama-Kohara K :
Characterization of innate immune response to hepatitis B virus genotype F acute infection in tree shrew (*Tupaia belangeri*) model.
Front Virol. 2:92683,2022. doi: 10.3389/fviro.2022.926831.
 4. Suzuki T, Inoue T, Matsuura K, Kusumoto S, Hagiwara S, Ogawa S, Yagi S, Kaneko A, Fujiwara K, Watanabe T, Aoyagi K, Urata Y, Tamori A, Kataoka H, Tanaka Y (Corresponding) :
Clinical usefulness of a novel high-sensitivity hepatitis B core-related antigen assay to determine the initiation of treatment for HBV reactivation.
J Gastroenterol.57(7)486-494,2022
 5. Matsui T, Hamada-Tsutsumi S, Naito Y, Nojima M, Iio E, Tamori A, Kubo S, Ide T, Kondo Y, Eguchi Y, Komori A, Morine Y, Shimada M, Utsunomiya T, Shirabe K, Kimura K, Hiasa Y, Chuaypen N, Tangkijvanich P, Ito-Naiki A, Takahashi S, Ochiya T, Tanaka Y (Corresponding) :
Identification of microRNA-96-5p as a postoperative, prognostic microRNA predictor in nonviral hepatocellular carcinoma. **Hepatol Res.**52(1)93-104,2022
 6. Matsuno K, Sonoda T, Tanaka Y (Corresponding) : Ischemic change in gastric mucosa due to gastric wall expansion with air supply: Real-time capture in upper gastrointestinal endoscopy. **Dig Endosc.** e113-e114,2022

7. Nakanishi A, Okumura H, Hashita T, Yamashita A, Nishimura Y, Watanabe C, Kamimura S, Hayashi S, Murakami S, Ito K, Iwao T, Ikeda A, Hirose T, Sunazuka T, Tanaka Y. (Corresponding) and Matsunaga T : Ivermectin Inhibits HBV Entry into the Nucleus by Suppressing KPNA2. **Viruses**.14(11)2468,2022

8. Shao X, Uojima H, Arai T, Ogawa Y, Setsu T, Atsukawa M, Furuichi Y, Arase Y, Horio K, Hidaka H, Nakazawa T, Kako M, Kagawa T, Iwakiri K, Nakajima A, Terai S, Tanaka Y, Koizumi W : The risk of cirrhosis and its complications based on PNPLA3 rs738409 G allele frequency. **Dig Dis**.40(5)625-634,2022

9. Vincent JP, Ndow G, Ogawa S, Ceesay A, Njie R, Sanneh B, Baldeh I, D'Alessandro U, Mendy M, Thursz M, Chemin I, Tanaka Y, Lemoine M, Shimakawa Y : Mac-2 Binding Protein Glycosylation isomer (M2BPGi) to evaluate liver fibrosis and cancer in HBV-infected patients in West Africa. **J Glob Health**.12:04076,2022

10. Kawata K, Atsukawa M, Ohta K, Chida T, Noritake H, Arai T, Iwakiri K, Yasuda S, Toyoda H, Okubo T, Hiraoka A, Watanabe T, Uojima H, Nozaki A, Tani J, Morishita A, Kageyama F, Sasada Y, Nagasawa M, Matsushita M, Oyaizu T, Mikami S, Ikegami T, Abe H, Matsuura K, Tanaka Y, Tsubota A : Mac-2-Binding Protein Glycan Isomer Predicts All Malignancies Post-sustained Virological Response in Chronic Hepatitis C. **Hepatol Commun**. 6(8):1855-1869,2022

11. Hagiwara S, Kusumoto S, Inoue T, Ogawa S, Narita T, Ito A, Ri M, Komatsu H, Suzuki T, Matsuura K, Yagi S, Kaneko A, Aoyagi K, Iida S, Tanaka Y. (Corresponding) : Management of hepatitis B virus (HBV) reactivation in patients with resolved HBV infection based on a highly sensitive HB core-related antigen assay. **Hepatol Res**, 52(9)745-753,2022

12. Tokunaga T, Tateyama M, Tanaka K, Narahara S, Inada H, Kurano S, Hayashi S, Yoshimaru Y, Nagaoka K, Watanabe T, Setoyama H, Tanaka M, Tanaka Y.(Corresponding) : Optimal management of lenvatinib therapy for patients with unresectable hepatocellular carcinoma by balancing the therapeutic effect with the relative dose intensity. **Hepatol Res**.52(1)105-119,2022

13. Yuen M-F, Heo J, Kumada H, Suzuki F, Suzuki Y, Xie Q, Jia J, Karino Y, Hou J, Chayama K, Imamura M, Lao-Tan J-Y, Lim S-G, Tanaka Y, Xie W, Yoon J-H, Duan Z, Kurosaki M, Sung-Park J, Labio M-E, Kumar R, Kweon Y-O, Yim H-J, Tao Y, Cremer J, Elston R, Davies M, Baptiste-Brown S, Han K, Campbell F-M, Paff M, Theodore D : Phase IIa, randomised, double-blind study of GSK3389404 in patients with chronic hepatitis B on stable nucleos(t)ide therapy.
J Hepatol.S0168-8278(22)00351-8,2022
14. Sonneveld M-J, Chiu S-M, Park J-Y, Brakenhoff S-M, Kaewdech A, Seto W-K, Tanaka Y, Carey I, Papatheodoridi M, Bömmel F-V, Berg T, Zoulim F, Ahn S-H, Dalekos G-N, Erler N-S, Siederdisen C-H-Z, Wedemeyer H, Cornberg M, Yuen M-F, Agarwal K, Boonstra A, Buti M, Piratvisuth T, Papatheodoridis G, Chen C-H, Maasoumy B, CREATE study group :
Probability of HBsAg loss after nucleo(s)ide analogue withdrawal depends on HBV genotype and viral antigen levels. **J Hepatol.**76(5)1042-1050,2022
15. Park J, Le AK, Tseng TC, Yeh ML, Jun DW, Trinh H, Wong G LH, Chen CH, Peng CY, Kim SE, Oh H, Kwak MS, Cheung KS, Toyoda H, Hsu YC, Jeong JY, Yoon EL, Ungtrakul T, Zhang J, Xie Q, Ahn SB, Enomoto M, Shim JJ, Cunningham C, Jeong SW, Cho YK, Ogawa E, Huang R, Lee DH, Takahashi H, Tsai PC, Huang CF, Dai CY, Tseng, Yasuda S, Kozuka R, Li J, Wong C, Wong CC, Zhao C, Hoang J, Eguchi Y, Wu C, Tanaka Y, Gane E, Tanwandee T, Cheung R, Yuen MF, Lee HS, Yu ML, Kao JH, Yang HI, Nguyen MH : Progression Rates by Age, Sex, Treatment, and Disease Activity by AASLD and EASL Criteria: Data for Precision Medicine.
Clin Gastroenterol Hepatol.20(4)874-855.e4,2022
16. Shimakawa Y, Ndow G, Cerceau T, Ceesay A, Kaneko A, Hasegawa A, Yamamoto N, Aoyagi K, Vincent J-P, Watanabe T, Baba M, Sanneh B, Baldeh I, Njie R, D'Alessandro U, Mendy M, Chemin I, Thursz N-R, Lemoine M, and Tanaka Y(Corresponding) : Rapid point-of-care test for hepatitis B core-related antigen to diagnose high viral load in resource-limited settings.
Clin Gastroenterol Hepatol. S1542-3565(22)00554-7,2022

17. Atsukawa A, Tsubota A, Kondo C, Koyano K-S, Ishikawa T, Toyoda H, Takaguchi K, Watanabe T, Matsuura K, Ogawa C, Hiraoka A, Okubo H, Tateyama M, Uojima H, Nozaki A, Chuma M, Kato K, Mikami S, Tani J, Morishita A, Kawata K, Tada T, Furuichi Y, Okubo T, Kawano T, Arai T, Naoto Kawabe N, Kawamura N, Ikegami T, Nakamuta M, Shigefuku R, Iwasa M, Tanaka Y, Hatano M, Iwakiri K : Risk factors for portopulmonary hypertension in patients with cirrhosis: a prospective, multicenter study.
Hepatol Int. Dec 7. doi: 10.1007/s12072-022-10456-y. Online ahead of print. 2022
18. Nagura Y, Matsuura K, Iio E, Fujita K, Inoue T, Matsumoto A, Tanaka E, Nishiguchi S, Kang J-H, Matsui T, Enomoto M, Ikeda H, Watanabe T, Okuse C, Tsuge M, Atsukawa M, Tateyama M, Kataoka H, Tanaka Y : Serum miR-192-5p levels predict the efficacy of pegylated interferon therapy for chronic hepatitis B.
PLoS One.17(2)e0263844,2022
19. Atsukawa M, Tsubota A, Kondo C, Toyoda H, Nakamuta M, Takaguchi K, Watanabe T, Hiraoka A, Uojima H, Ishikawa T, Iwasa M, Tada T, Nozaki A, Chuma M, Fukunishi S, Asano T, Ogawa C, Abe H, Kato K, Hotta N, Shima T, Matsuura K, Mikami S, Tachi Y, Fujioka S, Okubo H, Shimada N, Tani J, Morishita A, Hidaka I, Moriya A, Tsuji K, Akahane T, Okubo T, Arai T, Kitamura M, Morita K, Kawata K, Tanaka Y, Kumada T, Iwakiri K; KTK49 Liver Study Group : Time-course changes in liver functional reserve after successful sofosbuvir/velpatasvir treatment in patients with decompensated cirrhosis. **Hepatol Res.**52(3)235-246,2022
20. Nakano M, Yatsushashi H, Bekki S, Takami Y, Tanaka Y, Yoshimaru Y, Honda K, Komorizono Y, Harada M, Shibata M, Sakisaka S, Shakado S, Nagata K, Yoshizumi T, Itoh S, Sohda T, Oeda S, Nakao K, Sasaki R, Yamashita T, Ido A, Mawatari S, Nakamuta M, Aratake Y, Matsumoto S, Maeshiro T, Goto T, Torimura T : Trends in hepatocellular carcinoma incident cases in Japan between 1996 and 2019.
Sci Rep.12(1)1517,2022
21. Hayama K, Atsukawa M, Tsubota A, Kondo C, Iwasa M, Hasegawa H, Takaguchi K,

Tsutsui S, Uojima H, Hidaka H, Okubo H, Suzuki T, Matsuura K, Tada T, Kawabe N, Tani J, Morishita A, Ishikawa T, Arase Y, Furuichi Y, Kato K, Kawata K, Chuma M, Nozaki A, Hiraoka A, Watanabe T, Kagawa T, Toyoda H, Taniai N, Yoshida H, Tanaka Y, Iwakiri K, Ktk Liver Study Group : Clinical outcomes of antithrombin III-based therapy for patients with portal vein thrombosis:

A retrospective, multicenter study **Hepato Res.**53(1) 51-60,2023

22. Matsuno K, Miyamoto H, Kitada H, Yoshimatsu S, Tamura F, Sakurai K, Fukubayashi K, Shono T, Setoyama H, Matsuyama T, Suko S, Narita R, Honda M, Tateyama M, Naoe H, Morinaga J, Tanaka Y, Gushima R : Comparison of endoscopic submucosal resection with ligation and endoscopic submucosal dissection for small rectal neuroendocrine tumors: A multicenter retrospective study.

DEN Open. 3, e163,2023

23. Sugahara G, Yuji Ishida Y, Lee J-J, Li M, Tanaka Y, Eoh H, Higuchi Y, and Saito T : Long-Term Cell Fate and Functional Maintenance of Human Hepatocyte through Stepwise Culture Configuration. **FASEB J.** 37(2) e22750,2023

24. Janssen H-L, Hou J, Asselah T, Chan H-LY, Zoulim F, Tanaka Y, Janczewska E, Nahass R G, Bourgeois S, Buti M, Lampertico P, Lenz O, Verbinnen T, Vandebossche J, Talloen W, Kalmeijer R, Beumont M, Biermer M, Shukla U : A Randomized Phase 2 Study (JADE) of the HBV Capsid Assembly Modulator JNJ-56136379 With or Without a Nucleos(t)ide Analogue in Patients With Chronic Hepatitis B Infection.

Gut. 23 Jan 2023, <http://dx.doi.org/10.1136/gutjnl-2022-328041>

●Division of Nervous System, Sensory, and Locomotive Research

12) Department of Neurology

1. Kinoshita Y, Ikeda T, Miyamura T, Ueda Y, Yoshida Y, Ueda M, Haraoka S, Kushima H, Ishii H. Nodular Pulmonary Amyloidosis Associated with Sjögren's Syndrome. **Intern Med**, 61: 877-881, 2022
2. Takashio S, Yamada T, Nishi M, Morioka M, Nakashima N, Hirakawa K, Hanatani

- S, Usuku H, Yamamoto E, Ueda M, Matsushita K, Kaikita K, Tsujita K. Sex-related differences in the clinical characteristics of wild-type transthyretin amyloidosis cardiomyopathy. *J Cardiol*, 79: 50-57, 2022
3. Naganuma M, Inatomi Y, Yonehara T, Nakajima M, Ueda M. Underdosed direct oral anticoagulants in atrial fibrillation patients reduce stroke severity and improve outcome. *Cerebrovasc Dis*, 51:473-480, 2022
 4. Benson MD, Berk JL, Dispenzieri A, Damy T, Gillmore JD, Hazenberg BP, Lavatelli F, Picken MM, Röcken C, Schönland S, Ueda M, Westermark P. Tissue biopsy for the diagnosis of amyloidosis: experience from some centres. *Amyloid*, 29: 8-13, 2022
 5. Takahashi K, Sasaki D, Yamashita M, Sakaue T, Enomoto D, Morioka H, Uemura S, Okura T, Ikeda S, Kono T, Hiratsuka Y, Saijo A, Yamamura N, Kitazawa S, Yamashita T, Ueda M. Amyloid deposit corresponds to technetium-99mpyrophosphate accumulation in abdominal fat of patients with transthyretin cardiac amyloidosis. *J Nucl Cardiol*, 29: 3126-3136, 2022
 6. Yamakawa M, Nakahara K, Nakanishi T, Nomura T, Ueda M. Miller Fisher Syndrome following vaccination against SARS-CoV-2: a case report. *Intern Med*, 61: 1067-1069, 2022
 7. Tasaki M, Oishi T, Ueda M. EGF-containing fibulin-like extracellular matrix protein 1 (EFEMP1) amyloid deposits in the lower rectum from aged patient with bloody stools. *Pathol Int*, 72: 217-218, 2022
 8. Hayashi H, Oda S, Kidoh M, Nakaura T, Morita K, Nagayama Y, Yoneda T, Takashio S, Misumi Y, Ueda M, Tsujita K, Hirai T. Can myocardial susceptibility quantification be an imaging biomarker for cardiac amyloidosis? *Jpn J Radiol*, 40: 500-507. 2022
 9. Yumoto S, Doi K, Higashi T, Shimaoy Y, Ueda M, Ishihara A, Adachi Y, Ishiodori H, Honda S, Baba H. Intra-abdominal bleeding caused by amyloid transthyretin

amyloidosis in the gastrointestinal tract: a case report. *Clin J Gastroenterol*, 15: 140-145, 2022

10. Takashio S, Tokitsu T, Matsukawa M, Sakaino N, Fujimoto K, Sakamoto T, Noda K, Tsunoda R, Misumi I, Hirai N, Doi H, Koide S, Mizuno Y, Hirose T, Kurokawa H, Kajiwara I, Ohba K, Miyamoto S, Araki S, Yamamoto E, Matsushita K, Ueda M, Tsujita K; Kumamoto Cardiac Amyloid Survey Investigators. Incidence, clinical characteristics, and diagnostic approach in transthyretin amyloid cardiomyopathy: The Kumamoto Cardiac Amyloidosis Survey. *J Cardiol*, 80: 49-55, 2022
11. Moriyama H, Kitakata H, Endo J, Ikura H, Sano M, Tasaki M, Sakai S, Ueda M, Fukuda K. Step-by-step typing for the accurate diagnosis of concurrent light chain and transthyretin cardiac amyloidosis. *ESC Heart Fail*, 9: 1474-1477, 2022
12. Ikura H, Kitakata H, Endo J, Moriyama H, Sano M, Tsujikawa H, Sawano M, Masuda T, Ohki T, Ueda M, Kosaki K, Fukuda K. Three patients of transthyretin amyloidosis in a Japanese family with amyloidogenic transthyretin Thr49Ser (p.Thr69Ser) variant. *Eur J Med Genet*, 65: 104451, 2022
13. Singu T, Nakajima M, Ueda A, Nakahara K, Nomura T, Kojima S, Inoue T, Ueda M. Transient optic neuritis and perineuritis associated with anti-MOG antibody after SARS-CoV-2 mRNA vaccination. *Neuroimmunology Reports*, 2: 100077, 2022
14. Usuku H, Takashio S, Yamamoto E, Yamada T, Egashira K, Morioka M, Nishi M, Komorita T, Oike F, Tabata N, Ishii M, Yamanaga K, Fujisue K, Sueta D, Arima Y, Araki S, Oda S, Misumi Y, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Prognostic value of right ventricular global longitudinal strain in transthyretin amyloid cardiomyopathy. *J Cardiol*, 80: 56-63, 2022
15. Inoue Y, Nakajima M, Inatomi Y, Masuda T, Misumi Y, Nomura T, Uetani H, Hirai T, Ueda M. Reversible periventricular hyperintensity lesions in cerebral amyloid angiopathy (CAA): A case mimicking CAA-related inflammation. *Intern Med*, 61:3581-3584, 2022

16. Oike F, Usuku H, Yamamoto E, Marume K, Takashio S, Ishii M, Tabata N, Fujisue K, Yamanaga K, Sueta D, Hanatani S, Arima Y, Araki S, Oda S, Kawano H, Soejima H, Matsushita K, Ueda M, Fukui T, Tsujita K. Utility of left atrial and ventricular strain for diagnosis of transthyretin amyloid cardiomyopathy in aortic stenosis. *ESC Heart Fail*, 9: 1976-1986, 2022
17. Nakashima N, Takashio S, Morioka M, Nishi M, Yamada T, Hirakawa K, Ishii M, Tabata N, Yamanaga K, Fujisue K, Sueta D, Kanazawa H, Hoshiyama T, Hanatani S, Araki S, Usuku H, Yamamoto E, Ueda M, Matsushita K, Tsujita K. A simple staging system using biomarkers for wild-type transthyretin amyloid cardiomyopathy in Japan. *ESC Heart Fail*, 9: 1731-1739, 2022
18. Takahashi Y, Date H, Oi H, Adachi T, Imanishi N, Kimura E, Takizawa H, Kosugi S, Matsumoto N, Kosaki K, Matsubara Y; IRUD Consortium, Mizusawa H. Six years' accomplishment of the Initiative on Rare and Undiagnosed Diseases: nationwide project in Japan to discover causes, mechanisms, and cures. *J Hum Genet*, 67: 505-513, 2022
19. Kawano Y, Hata H, Takashio S, Tsujita K, Ueda M, Matsuoka M. Daratumumab, lenalidomide and dexamethasone in newly diagnosed systemic light chain amyloidosis patients associated with multiple myeloma. *Br J Haematol*, 198: e38-e41, 2022
20. Tasaki M, Nomura T, Uchiyama K, Misumi Y, Nakahara K, Oyama Y, Uesugi N, Ueda M. Fibrinogen Aalpha-chain amyloidosis associated with a rare frameshift pathogenic variant p. Arg547GlyfsTer21. *Amyloid*, 29: 276-277, 2022
21. Nishi M, Takashio S, Morioka M, Fujiyama A, Nakashima N, Hirakawa K, Hanatani S, Usuku H, Yamamoto E, Kidoh M, Oda S, Gushima R, Matsushita K, Fukushima S, Ueda M, Tsujita K. Extracardiac biopsy sensitivity in transthyretin amyloidosis cardiomyopathy patients with positive 99 mTc-labeled pyrophosphate scintigraphy findings. *Circ J*, 86:1113-1120, 2022

22. Nakajima M, Watari M, Ando Y, Ueda M. Asymptomatic deep venous thrombosis identified on routine screening in patients with hospitalized neurological diseases. *J Clin Neurosci*, 102:13-20, 2022
23. Morioka M, Takashio S, Nakashima N, Nishi M, Fujiyama A, Hirakawa K, Hanatani S, Usuku H, Yamamoto E, Kidoh M, Oda S, Matsushita K, Ueda M, Tsujita K. Correlation between cardiac images, biomarkers, and amyloid load in wild-type transthyretin amyloid cardiomyopathy. *J Am Heart Assoc*, 11:e024717, 2022
24. Tahara N, Honda A, Ueda M, Fukumoto Y. Popeye's sign and transthyretin amyloidosis. *Eur Heart J*, 43:3000, 2022
25. Ueda A, Nakajima M, Misumi Y, Nakahara K, Shinriki S, Tasaki M, Matsui H, Ueda M. Detection of Vascular Notch3 deposits in Unfixed Frozen Skin Biopsy Sample in CADASIL. *Front Neurol*, 3:881528, 2022
26. Sato K, Oda S, Kidoh M, Ishiuchi S, Kamimoto M, Kanaya H, Nomura T, Kuyama N, Ueda M, Tsujita K, Hirai T. Myocarditis in myasthenia gravis: Multiparametric evaluation using cardiac magnetic resonance imaging. *Circ J*, 86:1788, 2022
27. Matsushita H, Misumi Y, Masuda T, Okada M, Inoue F, Ueda M, Ando Y. Urinary transthyretin as a biomarker in ATTRv amyloidosis. *Pathophysiology*, 29: 333-343, 2022
28. Tasaki M, Misumi Y, Nomura T, Kamba T, Ueda M. Detection of semenogelin 1 amyloidosis through immunohistochemical staining with novel antibodies developed based on mass spectrometric peptide mapping analysis. *Amyloid*, 29: 278-280, 2022
29. Iwahashi N, Ikezaki M, Komohara Y, Fujiwara Y, Noguchi T, Nishioka K, Sakai K, Nishio K, Ueda M, Ihara Y, Uchimura K, Ino K, Nishitsuji K. Cytoplasmic p53 aggregates accumulated in p53-mutated cancer correlate with poor prognosis. *PNAS Nexus*, 1:128, 2022

30. Misumi Y, Ando Y, Ueda M. Early transverse tubule involvement in cardiomyocytes in hereditary transthyretin amyloidosis; A possible cause of cardiac events. *Cardiovasc Pathol*, 61:107458, 2022
31. Inoue Y, Tasaki M, Masuda T, Misumi Y, Nomura T, Yukio Ando Y, Ueda M. α -Enolase reduces cerebrovascular A β deposits by protecting A β amyloid formation. *Cell Mol Life Sci*, 79: 462, 2022.
32. Yi K, Nakajima M, Ikeda T, Yoshigai M, Ueda M. Modified Rankin Scale assessment on telephone survey using a simple questionnaire. *J Stroke Cerebrovasc Dis*, 31: 106695, 2022
33. Shimamoto T, Uchino K, Mori A, Nojima K, Iyama J, Misumi Y, Ueda M, Uchino M. Effects of intensive exercise on cognitive dysfunction in patients with pure cerebellar degeneration: a single-arm pilot study. *Ann Rehabil Med*, 46: 263-273, 2022
34. Mizutani H, Sato Y *, Yamazaki M, Yoshizawa T, Ando Y, Ueda M, Yamagata K.* SIRT7 deficiency protects against A β 42-induced apoptosis through the regulation of NOX4-derived reactive oxygen species production in SH-SY5Y cells. *Int J Mol Sci*, 23: 9027, 2022
35. Ando Y, Adams D, Benson MD, Berk J, Planté-Bordeneuve V, Coelho T, Conceição I, Ericzon B, Obici L, Rapezzi C, Sekijima Y, Ueda M, Palladini G, Merlini G. Guidelines and new directions in the therapy and monitoring of ATTRv amyloidosis. *Amyloid*, 29: 143-155, 2022
36. Inoue M, Muta K, Fouad A, Mohammed A, Onodera R, Higashi T, Ueda M, ,Ando Y, Arima H, Jono H, Motoyama K. Potential use of Dendrimer-based TTR-CRISPR pDNA polyplex for ocular amyloidosis. *Biol Pharm Bull*, 45: 1660-1668, 2022
37. Inoue M, Higashi T, Hayashi Y, Onodera R, Fujisawa K, Taharabaru T, Yokoyama R,

- Ouchi K, Misumi Y, Ueda M, Inoue Y, Mizuguchi M, Saito T, Saido T, Ando Y, Arima H, Motoyama K, Jono H. Multifunctional therapeutic cyclodextrin-appended dendrimer complex for treatment of systemic and localized amyloidosis. *ACS Appl Mater Interfaces*, 14: 40599-40611, 2022
38. Kidoh M, Oda S, Takashio S, Hirakawa K, Kawano Y, Shiraishi S, Hayashi H, Nakaura T, Nagayama Y, Funama Y, Ueda M, Tsujita K, Hirai T. Diagnostic performance of CT-derived extracellular volume fraction versus myocardium-to-lumen signal ratio for detecting cardiac amyloidosis. *Radiology*, 2022 (in press)
39. Misumi Y, Tabata Y, Tasaki M, Obayashi K, Yamakawa S, Nomura T, Ueda M. Binding of serum-derived amyloid-associated proteins to amyloid fibrils. *Amyloid*, 2022 (in press)
40. Yagita K, Noguchi H, Koyama S, Hamasaki H, Komori T, Aishima S, Kosaka T, Ueda M, Komohara Y, Watanabe A, Sasagasako N, Ninomiya T, Oda Y, Honda H. Chronological changes in the expression pattern of hippocampal prion proteins during disease progression in sporadic Creutzfeldt-Jakob disease MM1 subtype. *J Neuropathol Exp Neurol*, 81: 900-909, 2022
41. Shinriki S, Hirayama M, Nagamachi A, Yokoyama A, Kawamura T, Kanai A, Kawai H, Iwakiri J, Riu L, Maeshiro M, Tungalag S, Tasaki M, Ueda M, Tomizawa K, Kataoka N, Ideue T, Suzuki Y, Asai K, Tani T, Inaba T, Matsui H. DDX41 coordinates RNA splicing and transcriptional elongation to prevent DNA replication stress in hematopoietic cells. *Leukemia*, 36: 2605-2620, 2022
42. Takahashi K, Morioka H, Sasaki D, Yamamura N, Kitazawa S, Ueda M, Sakaue T, Enomoto D, Uemura S, Okura T, Ikeda S. Two autopsy cases of wild-type transthyretin cardiac amyloidosis who died 10 days after technetium-99mpyrophosphate scintigraphy. *J Nucl Cardiol*, 2022 (in press)
43. Maeda-Ogata S, Tahara N, Tahara A, Bekki M, Honda A, Sugiyama Y, Igata S, Abe T, Sekijima Y, Ueda M, Ando Y, Fukumoto Y. Treatment response to Tafamidis

- quantitatively assessed by serial bone scintigraphy in transthyretin amyloid cardiomyopathy. *J Nucl Cardiol*, 2022 (in press)
44. Nakahara K, Takamatsu K, Kudo N, Ito T, Ueda M. Histopathological features of Gerhardt syndrome in a patient with multiple system atrophy: An autopsy case report. *Cureus*, 14: e30415, 2022
 45. Takeuchi Y, Nomura T, Nakahara K, Ueda M. Autoimmune polyglandular syndrome with refractory gait disturbance. *Intern Med*, 2022 (in press)
 46. Yamakawa M, Nakane S, Ihara E, Tawara N, Ikeda H, Igarashi Y, Komohara Y, Takamatsu K, Ikeda T, Tomita Y, Murai S, Ando Y, Mukaino A, Ogawa Y, Ueda M. A novel murine model of autoimmune dysautonomia by $\alpha 3$ nicotinic AChR immunization. *Front Neurosci*, 16: 1006923, 2022
 47. Usuku H, Yamamo E, Sueta D, Noguchi M, Fujisaki T, Egashira K, Morioka M, Komorita T, Oike F, Fujisue K, Hanatani S, Arima Y, Takashio S, Oda S, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Time-dependent change of relative apical longitudinal strain index in patients with wild-type transthyretin amyloid cardiomyopathy. *Int J Cardiol Heart Vasc*, 43, 101146, 2022
 48. Matsushita H, Sameshima G, Fukunari A, Okada M, Inoue F, Ueda M, Ando Y. Suppression of amyloid fibril formation by UV irradiation. *Journal of Radiation Research and Applied Sciences*, 2022 (in press)
 49. Kuyama N, Takashio S, Nagakura T, Imamura M, Takamatsu K, Takae M, Hirakawa K, Yamanaga K, Hanatani S, Yamamoto E, Matsushita K, MD, Ueda M, Tsujita K. Anti-Kv1.4 antibody positive myocarditis and myositis despite absence of thymoma and anti-acetylcholine receptor antibody. *JACC Case Rep*, 2022 (in press)
 50. Goto M, Tasaki M, Ueda M. Early onset Congo red-positive fibrillary glomerulonephritis associated with glomerular DNAJB9 deposits mimicking renal amyloidosis. *Pathol Int*, 2022 (in press)

51. Takahashi K, Hiratsuka Y, Sasaki D, Sakaue T, Enomoto D, Morioka H, Uemura S, Okura T, Ikeda S, Kono T, Iwamura T, Yamamura N, Kitazawa S, Ueda M. ^{99m}Tc-pyrophosphate scintigraphy can image tracer uptake in skeletal trunk muscles of transthyretin cardiac amyloidosis Brief title: Extracardiac PYP uptake in ATTR-CA. *Clin Nucl Med*, 48:18-24, 2023

(review)

1. Tahara N, Lairez O, Endo J, Okada A, Ueda M, Ishii T, Kitano Y, Lee H, Russo E, Kubo T. ^{99m}Technetium-pyrophosphate scintigraphy: a practical guide for early diagnosis of transthyretin amyloid cardiomyopathy. *ESC Heart Fail*, 9: 251-262, 2022
2. Ueda M. Transthyretin: its function and amyloid formation. *Neurochem Int*. 155: 105313, 2022

13) Department of Molecular Physiology

1. Adnan N, Khandker SS, Haq A, Chaity MA, Khalek A, Nazim AQ, Kaitsuka T, Tomizawa K, Mie M, Kobatake E, Ahmed S, Ali NAA, Khondoker MU, Haque M, Jamiruddin MR. Detection of SARS-CoV-2 by antigen ELISA test is highly swayed by viral load and sample storage condition. *Expert Rev Anti Infect Ther*. 2022 Mar;20(3):473-481. doi: 10.1080/14787210.2021.1976144.
2. Oka K, Fujioka S, Kawamura Y, Komohara Y, Chujo T, Sekiguchi K, Yamamura Y, Oiwa Y, Omamiuda-Ishikawa N, Komaki S, Sutoh Y, Sakurai S, Tomizawa K, Bono H, Shimizu A, Araki K, Yamamoto T, Yamada Y, Oshiumi H, Miura K. Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats. *Commun Biol*. 2022 Mar 30;5(1):287. doi: 10.1038/s42003-022-03241-y.
3. Yakita M, Chujo T, Wei FY, Hirayama M, Kato K, Takahashi N, Naganuma K, Nagata M, Kawahara K, Nakayama H, Tomizawa K. Extracellular *N*⁶-isopentenyladenosine (*i*⁶A) addition induces cotranscriptional *i*⁶A incorporation into ribosomal RNAs.

RNA. 2022 Jul;28(7):1013-1027. doi: 10.1261/rna.079176.122.

4. Monde K, Satou Y, Goto M, Uchiyama Y, Ito J, Kaitsuka T, Terasawa H, Monde N, Yamaga S, Matsusako T, Wei FY, Inoue I, **Tomizawa K**, Ono A, Era T, Sawa T, Maeda Y. Movements of Ancient Human Endogenous Retroviruses Detected in SOX2-Expressing Cells. **J Virol.** 2022 May 11;96(9):e0035622. doi: 10.1128/jvi.00356-22.
5. Matsushita H, Sasaki Y, Yunoki A, Matsuji A, Latt HM, Onishi K, Tomizawa K, Matsui H. Antidepressant-like effect of male mating behavior through oxytocin-induced CREB signaling. **Neurosci Res.** 2022 Aug;181:74-78. doi: 10.1016/j.neures.2022.04.002.
6. Nagayoshi Y, Nishiguchi K, Yamamura R, Chujo T, Oshiumi H, Nagata H, Kaneko H, Yamamoto K, Nakata H, Sakakida K, Kunisawa A, Adachi M, Kakizoe Y, Mizobe T, Kuratsu JI, Shimada S, Nakamori Y, Matsuoka M, Mukoyama M, Wei FY, Tomizawa K. t⁶A and ms²t⁶A Modified Nucleosides in Serum and Urine as Strong Candidate Biomarkers of COVID-19 Infection and Severity. **Biomolecules.** 2022 Sep 3;12(9):1233. doi: 10.3390/biom12091233.
7. Shinriki S, Hirayama M, Nagamachi A, Yokoyama A, Kawamura T, Kanai A, Kawai H, Iwakiri J, Liu R, Maeshiro M, Tungalag S, Tasaki M, Ueda M, Tomizawa K, Kataoka N, Ideue T, Suzuki Y, Asai K, Tani T, Inaba T, Matsui H. DDX41 coordinates RNA splicing and transcriptional elongation to prevent DNA replication stress in hematopoietic cells. **Leukemia.** 2022 Nov;36(11):2605-2620. doi: 10.1038/s41375-022-01708-9.

14) Department of Sensory and Cognitive Physiology

1. Nishimura M, Song W-J: Region-dependent millisecond time-scale sensitivity in spectrotemporal integrations in guinea pig primary auditory cortex. *Neuroscience* 480: 229-245, 2022.
2. Zhou B, Tomioka R, Song W-J: Temporal profiles of neuronal responses to repeated

tone stimuli in the mouse primary auditory cortex. *Hearing Research* (in press).

15) Department of Molecular Brain Science

1. Bundo M, Iwamoto K: A method for detection of somatic LINE-1 insertions at the single-cell level from postmortem human brain. *Methods in Molecular Biology* 2577:147-159, 2023.
2. Yu Z, Ueno K, Funayama R, Sakai M, Nariai N, Kojima K, Kikuchi Y, Li Z, Ono C, Kanatani J, Ono J, Iwamoto K, Hashimoto K, Kinoshita K, Nakayama K, Nagasaki M, Tomita H: Sex-Specific Differences in the Transcriptome of the Human Dorsolateral Prefrontal Cortex in Schizophrenia. *Molecular Neurobiology* 2023, 60(2):1083-1098
3. Du J, Nakachi Y, Fujii A, Fujii S, Bundo M, Iwamoto K: Antipsychotics function as epigenetic age regulators in human neuroblastoma cells. *Schizophrenia (Heidelb)*, 8(1):69, 2022
4. Sugawara H, Bundo M, Kasahara T, Nakachi Y, Ueda J, Kubota-Sakashita M, Iwamoto K, Kato T: Cell-type-specific DNA methylation analysis of the frontal cortices of mutant Polg1 transgenic mice with neuronal accumulation of deleted mitochondrial DNA. *Molecular Brain*, 15:9, 2022

16) Department of Ophthalmology

1. Sugisaki K, Inoue T, Yoshikawa K, Kanamori A, Yamazaki Y, Ishikawa S, Uchida K, Iwase A, Araie M; Advanced Glaucoma Study Members in Japan Glaucoma Society: Factors threatening central visual function of advanced glaucoma patients: a prospective longitudinal observational study. *Ophthalmology* 129: 488-497, 2022.
2. Iraha S, Takihara Y, Urahashi Y, Watanabe T, Nakamura K, Urahashi M, Watanabe-Kitamura F, Nakashima KI, Takahashi E, Kojima S, Tanihara H, Inoue T: Factors associated with outcomes of Baerveldt glaucoma implant for open angle glaucoma, an aging-related eye disease. *Scientific Reports* 12: 1359, 2022.

3. Iraha S, Kondo S, Yamaguchi T, Inoue T: Bilateral corneal perforation caused by neurotrophic keratopathy associated with leprosy: a case report. *BMC Ophthalmology* 22: 42, 2022.
4. Singu T, Nakajima M, Ueda A, Nakahara K, Nomura T, Kojima S, Inoue T, Ueda M: Transient optic neuritis and perineuritis associated with anti-MOG antibody after SARS-CoV-2 mRNA vaccination. *Neuroimmunology Reports* 2: 100077, 2022.
5. Nakamura K, Fujimoto T, Okada M, Maki K, Shimazaki A, Kato M, Inoue T: Tissue reactivity to, and stability of, glaucoma drainage device materials placed under rabbit conjunctiva. *Translational Vision & Science Technology* 11: 9, 2022.
6. Iwasaki, Kojima S, Wajima R, Okazaki T, Yokoyama Y, Inoue T, Higashide T, Miki A, Nakazawa T, Inatani M: Comparing surgical outcomes in neovascular glaucoma between tube and trabeculectomy: a multicenter study. *Ophthalmology Glaucoma* 5: 672-680, 2022.
7. Murakami-Kojima S, Takahashi E, Eguchi-Matsumoto M, Saruwatari J, Nakashima KI, Inoue T: Risk factors for intraocular pressure elevation in a six-month period after ab interno trabeculotomy using a Kahook Dual Blade. *BMC Ophthalmology* 22: 327, 2022.
8. Takihara Y, Higaki T, Yokomizo T, Umemoto T, Ariyoshi K, Hashimoto M, Sezaki M, Takizawa H, Inoue T, Suda T, Mizuno H: Bone marrow imaging reveals the migration dynamics of neonatal hematopoietic stem cells. *Communications Biology* 5: 776, 2022.
9. Nakamura K, Kojima S, Inoue-Mochita M, Tanihara H, Inoue T: Elevated soluble vascular endothelial growth factor receptor levels in aqueous humor from patients with different types of glaucoma. *Experimental Eye Research* 223: 109204, 2022.
10. Murata N, Takahashi E, Saruwatari J, Kojima S, Inoue T: Outcomes and risk factors for ab interno trabeculotomy with a Kahook dual blade. *Graefe's Archive for Clinical*

and Experimental Ophthalmology in press.

11. Asaoka R, Sugisaki K, Inoue T, Yoshikawa K, Kanamori A, Yamazaki Y, Ishikawa S, Uchida K, Iwase A, Araie M; for Advanced Glaucoma Study Members in Japan Glaucoma Society: Identifying central 10° visual subfield associated with future worsening of visual acuity in eyes with advanced glaucoma. *Br J Ophthalmol.* in press.
 12. Funagura N, Fukushima S, Inoue T. Ipilimumab-related uveitis and refractory hypotony with a flat chamber in a trabeculectomized eye with exfoliation glaucoma: A case report. *American Journal of Ophthalmology Case Report* 29:101807, 2023.
 13. Kiuchi Y, Inoue T, Shoji N, Nakamura M, Tanito M; Glaucoma Guideline Preparation Committee, Japan Glaucoma Society. The Japan Glaucoma Society guidelines for glaucoma 5th edition. *Japanese Journal of Ophthalmology* 67:189-254, 2023.
 14. Manako K, Takahashi E, Saruwatari J, Matsumura T, Kojima S, Inoue T. Risk factors for Baerveldt glaucoma drainage implantation for uveitic glaucoma. *Scientific Reports* 13:4473, 2023.
- 17) Department of Orthopaedic Surgery
1. Hata R, Miyamoto K, Abe Y, Sasaki T, Oguma Y, Tajima T, Arai Y, Matsumoto M, Nakamura M, Kanaji A, Miyamoto T: Osteoporosis and sarcopenia are associated with each other and reduced IGF1 levels are a risk for both diseases in the very old elderly. *Bone.* 2023
 2. Furukawa M, Okuyama K, Ninomiya K, Miyamoto T, Yato .: Assessment of the Necessity of Osteoporosis Treatment for Patients with Low Bone Density in Diffuse Idiopathic Skeletal Hyperostosis. *Spine Surg Relat Res.* 6:526-532, 2022
 3. Kodama S, Togami W, Miyamoto T: Psoas Major Skeletal Muscle Mass Is a Predictive Factor for Independent Walking After Living Donor Liver Transplantation. *Transplant Proc.* 54:2285-2294, 2022

4. Watanabe H, Okada H, Hirose J, Omata Y, Matsumoto T, Matsumoto M, Nakamura M, Saito T, Miyamoto T, Tanaka S: Transcription Factor Hematopoietically Expressed Homeobox Protein (Hhex) Negatively Regulates Osteoclast Differentiation by Controlling Cyclin-Dependent Kinase Inhibitors. *JBMR Plus*. 6:e10608, 2022
5. Soma T, Iwasaki R, Sato Y, Kobayashi T, Ito E, Matsumoto T, Kimura A, Homma F, Saiki K, Takahashi Y, Miyamoto K, Matsumoto M, Nakamura M, Morita M, Ishii K, Asoda S, Kawana H, Xingyu Z, Aizawa M, Nakagawa T, Miyamoto T: An ionic silver coating prevents implant-associated infection by anaerobic bacteria in vitro and in vivo in mice. *Sci Rep*. 12:18387, 2022
6. Kaneko Y, Ozawa SI, Sato Y, Kobayashi T, Matsumoto T, Miyamoto K, Kobayashi S, Harato K, Hirono S, Matsumoto M, Nakamura M, Niki Y, Miyamoto T: The Stat3 inhibitor F0648-0027 is a potential therapeutic against rheumatoid arthritis. *Biochem Biophys Res Commun*. 636:133-140, 2022
7. Yin X, Kim K, Suetsugu H, Bang SY, Wen L, Koido M, Ha E, Liu L, Sakamoto Y, Jo S, Leng RX, Otomo N, Kwon YC, Sheng Y, Sugano N, Hwang MY, Li W, Mukai M, Yoon K, Cai M, Ishigaki K, Chung WT, Huang H, Takahashi D, Lee SS, Wang M, Karino K, Shim SC, Zheng X, Miyamura T, Kang YM, Ye D, Nakamura J, Suh CH, Tang Y, Motomura G, Park YB, Ding H, Kuroda T, Choe JY, Li C, Niuro H, Park Y, Shen C, Miyamoto T, Ahn GY, Fei W, Takeuchi T, Shin JM, Li K, Kawaguchi Y, Lee YK, Wang YF, Amano K, Park DJ, Yang W, Tada Y, Lau YL, Yamaji K, Zhu Z, Shimizu M, Atsumi T, Suzuki A, Sumida T, Okada Y, Matsuda K, Matsuo K, Kochi Y; Japanese Research Committee on Idiopathic Osteonecrosis of the Femoral Head; Yamamoto K, Ohmura K, Kim TH, Yang S, Yamamoto T, Kim BJ, Shen N, Ikegawa S, Lee HS, Zhang X, Terao C, Cui Y, Bae SC: Biological insights into systemic lupus erythematosus through an immune cell-specific transcriptome-wide association study. *Ann Rheum Dis*. 81:1273-80, 2022
8. Kimura A, Hirayama A, Matsumoto T, Sato Y, Kobayashi T, Ikeda S, Maruyama M,

- Kaneko M, Shigeta M, Ito E, Soma T, Miyamoto K, Soga T, Tomita M, Oya A, Matsumoto M, Nakamura M, Kanaji A, Miyamoto T: Hao1 Is Not a Pathogenic Factor for Ectopic Ossifications but Functions to Regulate the TCA Cycle In Vivo. *Metabolites*. 12:82, 2022
9. Fukada K, Tachibana K, Kurashina Y, Kaneko Y, Matsumoto T, Miyamoto T, Niki Y, Nakamura M, Onoe H: A novel fabrication process of up-scalable microfiber-shaped tendon-like tissue with high cell density for uniformed macroscale assembly. *Biotechnol Bioeng*. 119:1327-1336, 2022
 10. Soma T, Iwasaki R, Sato Y, Kobayashi T, Ito E, Matsumoto T, Kimura A, Miyamoto K, Matsumoto M, Nakamura M, Morita M, Asoda S, Kawana H, Nakagawa T, Miyamoto T: Osteonecrosis development by tooth extraction in zoledronate treated mice is inhibited by active vitamin D analogues, anti-inflammatory agents or antibiotics. *Sci Rep*. 12:19, 2022
 11. Furukawa M, Okuyama K, Ninomiya K, Yato Y, Miyamoto T, Nakamura M, Matsumoto M. Maximum number of bone cross-linked vertebrae: an index for BMD in diffuse idiopathic skeletal hyperostosis. *J Bone Miner Metab*. 40:308-316, 2022
 12. Suetsugu H, Kim K, Yamamoto T, Bang SY, Sakamoto Y, Shin JM, Sugano N, Kim JS, Mukai M, Lee YK, Ohmura K, Park DJ, Takahashi D, Ahn GY, Karino K, Kwon YC, Miyamura T, Kim J, Nakamura J, Motomura G, Kuroda T, Niïro H, Miyamoto T, Takeuchi T, Ikari K, Amano K, Tada Y, Yamaji K, Shimizu M, Atsumi T, Seki T, Tanaka Y, Kubo T, Hisada R, Yoshioka T, Yamazaki M, Kabata T, Kajino T, Ohta Y, Okawa T, Naito Y, Kaneuji A, Yasunaga Y, Ohzono K, Tomizuka K, Koido M, Matsuda K, Okada Y, Suzuki A, Kim BJ, Kochi Y, Lee HS, Ikegawa S, Bae SC, Terao C: Novel susceptibility loci for steroid-associated osteonecrosis of the femoral head in systemic lupus erythematosus. *Hum Mol Genet*. 31:1082-1095, 2022
- 18) Department of Muscle Development and Regeneration
1. Fujimaki S, Ono Y: Murine models of tenotomy-induced mechanical overloading and tail-suspension-induced mechanical unloading. *Method Mol Biol*: 2023 in press.

2. Hirano K, Tsuchiya M, Shiomi A, Takabayashi S, Suzuki M, Ishikawa Y, Kawano Y, Takabayashi Y, Nishikawa K, Nagao K, Umemoto E, Kitajima Y, Ono Y, Nonomura K, Shintaku H, Mori Y, Umeda M, Hara Y: The mechanosensitive ion channel PIEZO1 promotes satellite cell function in muscle regeneration. *Life Sci Alliance*: 6(2):e202201783, 2022
3. Chen WJ, Lin IH, Lee CW, Yoshioka K, Ono Y, Yan YT, Yen Y, Chen YF: Ribonucleotide reductase M2B in the myofibers modulates stem cell fate in skeletal muscle. *NPJ Regen Med*: 7(1):37, 2022
4. Sakai H, Yuichiro Sawada Y, Tokunaga N, Tanaka K, Nakagawa S, Sakakibara I, Ono Y, Fukada S, Ohkawa Y, Kikugawa T, Saika T, Imai Y: Uhrfl governs proliferation and differentiation of muscle satellite cells. *iScience*: 25(3):103928. 2022
5. Fujimaki S, Matsumoto T, Muramatsu M, Nagahisa H, Horii N, Seko D, Masuda S, Wang X, Asakura Y, Takahashi Y, Miyamoto Y, Usuki S, Yasunaga KI, Kamei Y, Nishinakamura R, Minami T, Fukuda T, Asakura A, Ono Y: The endothelial Dll4–muscular Notch2 axis regulates skeletal muscle mass. *Nature Metabolism*: 4(2):180-189, 2022
6. Tsuchiya Y, Ono Y: An in vitro mechanical damage model of isolated myofibers in a floating culture condition. *Bio Protoc*: 12(1):e4280, 2022

19) Department of Skin Regeneration and Aging

1. Raja E, Changarathil G, Oinam L, Tsunozumi J, Ngo YX, Ishii R, Sasaki T, Imanaka-Yoshida K, Yanagisawa H*, Sada A*: The extracellular matrix fibulin 7 maintains epidermal stem cell heterogeneity during skin aging. *EMBO Rep*. e55478, 2022.

● **Division of Animal Models of Aging Research**

20) Department of Aging and Longevity Researches

1. Yamamura K, Kawamura Y, Oka K and Miura K*. Carcinogenesis resistance in the longest-lived rodent, the naked mole-rat. **Cancer Science**. Online ahead of print,

2022

2. Oka K, Fujioka S, Kawamura Y, Komohara Y, Chujo T, Sekiguchi K, Yamamura Y, Oiwa Y, Omamiuda-Ishikawa N, Komaki S, Sutoh Y, Sakurai S, Tomizawa K, Bono H, Shimizu A, Araki K, Yamamoto T, Yamada Y, Oshiumi H, Miura K*. Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats. **Communications Biology** 5(1):287, 2022
3. Yamada A, Toya H, Tanahashi M, Kurihara M, Mito M, Iwasaki S, Kurosaka S, Takumi T, Fox A, Kawamura Y, Miura K, Nakagawa S*. Species-Specific Formation of Paraspeckles in Intestinal Epithelium Revealed by Characterization of NEAT1 in Naked Mole-rat. **RNA** (8):1128-1143, 2022
4. Miura T*, Oguchi K, Yamaguchi H, Nakamura M, Sato K, Kobayashi K, Kutsukake N, Miura K, Hayashi Y, Hojo M, Maekawa K, Shigenobu S, Kano T and Ishiguro A. Understanding of superorganisms: collective behavior, differentiation and social organization. **Artificial Life and Robotics**. 27(2): 204-212, 2022

21) Division of Developmental Genetics

1. Furuhata R, Imasaka M, Sugimoto M, Yoshinobu K, Araki M, Araki K. LincRNA-p21 exon 1 expression correlates with Cdkn1a expression in vivo. *Genes Cells*. 27: 14-24, 2022
2. Sun Y, Kubota S, Imori M, Hamashima A, Murakami H, Bai J, Morii M, Yokomizo-Nakano T, Osato M, Araki K, Sashida G. The acidic domain of Hmga2 and the domain's linker region are critical for driving self-renewal of hematopoietic stem cell. *Int J Hematol*. 115: 553-562, 2022
3. Okumura K, Saito M, Isogai E, Tokunaga Y, Hasegawa Y, Araki K, Wakabayashi, Y. Functional polymorphism in Pak1-3'UTR alters skin tumor susceptibility by alternative polyadenylation. *J Invest Dermatol*. 142: 2323-2333 e12, 2022
4. Tanno N, Takemoto K, Takada-Horisawa Y, Shimada R, Fujimura S, Tani N, Takeda

- N, Araki K, Ishiguro, K. FBXO47 is essential for preventing the synaptonemal complex from premature disassembly in mouse male meiosis. *iScience* 25: 104008, 2022
5. Oka K, Fujioka S, Kawamura Y, Komohara Y, Chujo T, Sekiguchi K, Yamamura Y, Oiwa Y, Omamiuda-Ishikawa N, Komaki S, Sutoh Y, Sakurai S, Tomizawa K, Bono H, Shimizu A, Araki K, Yamamoto T, Yamada Y, Oshiumi H, Miura K. Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats. *Commun. Biol.* 5: 287, 2022
 6. Sato H, Hatakeyama J, Iwasato T, Araki K, Yamamoto N, Shimamura, K. Thalamocortical axons control the cytoarchitecture of neocortical layers by area-specific supply of VGF. *Elife.* 11: e67549, 2022
 7. Miyazaki S, Funamoto T, Sekimoto T, Kurogi S, Ohta T, Nagai T, Tajima T, Imasaka M, Yoshinobu K, Araki K, Araki M, Choijookhuu N, Hishikawa Y, Chosa, E. EPLINbeta Is Involved in the Assembly of Cadherin-catenin Complexes in Osteoblasts and Affects Bone Formation. *Acta Histochem Cytochem* 55: 99-110, 2022
 8. Sano H, Nakamura A, Yamane M, Niwa H, Nishimura T, Araki K, Takemoto K, Ishiguro K, Aoki H, Kato Y, Kojima, M. The polyol pathway is an evolutionarily conserved system for sensing glucose uptake. *PLoS Biol.* 20: e3001678, 2022
 9. Yamazaki S, Inohara N, Ohmuraya M, Tsuneoka Y, Yagita H, Katagiri T, Nishina T, Mikami T, Funato H, Araki K, Nakano H. Ikbz controls IL-17-triggered gene expression program in intestinal epithelial cells that restricts colonization of SFB and prevents Th17-associated pathologies. *Mucosal Immunol.* 15: 1321-1337, 2022
 10. Yokomizo T, Ideue T, Morino-Koga S, Tham CY, Sato T, Takeda N, Kubota Y, Kurokawa M, Komatsu N, Ogawa M, Araki K, Osato M, Suda T. Independent origins of fetal liver haematopoietic stem and progenitor cells. *Nature.* 609: 779-784, 2022

11. Murai, S, Takakura, K, Sumiyama K, Moriwaki K, Terai K, Komazawa-Sakon S, Seki T, Yamaguchi Y, Mikami T, Araki K, Ohmuraya M, Matsuda M, Nakano H. Generation of transgenic mice expressing a FRET biosensor, SMART, that responds to necroptosis. *Commun. Biol.* 5: 1331, 2022
12. Noda T, Taira A, Shinohara H, Araki, K: The testis-, epididymis-, or seminal vesicle-enriched genes *Aldoat2*, *Serpina16*, *Aoc113*, and *Pate14* are not essential for male fertility in mice. *Exp. Anim.* in press. 2023.
13. Kawano S, Araki K, Bai J, Furukawa I, Tateishi K, Yoshinobu K, Usuki S, Nimmo RA, Kaname T, Yoshihara M, Takahashi S, Sashida G, Araki M: A gain-of-function mutation in micro-RNA-142 is sufficient to cause the development of T-cell leukemia in mice. *Cancer Sci.* in press. 2023.

- **Division of Epidemiological Research**

- 22) Department of Public Health

1. Yada H, Odachi R, Adachi K, Abe H, Yonemoto F, Fujiki T, Fujii M, Katoh T. Validity and reliability of Psychiatric Nurse Self-Efficacy Scales: cross-sectional study. *BMJ Open.* 2(1): e055922. Doi: 10.1136/bmjopen-2021-055922, 2022.
2. Hirata K, Ueda K, Wada K, Ikehara S, Tanigawa K, Kimura T, Ozono K, Iso H, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Nakamura H, Suganuma N, Kusuhara K, Katoh T.
Long-term outcomes of children with neonatal transfer: the Japan Environment and Children's Study.
European Journal of Pediatrics. 181(6):2501-2511. Doi: 10.1007/s00431-022-04450-7, 2022.
3. Cho K, Kobayashi S, Araki A, Miyashita C, Itoh S, Saijo Y, Ito Y, Sengoku K, Baba T, Minakami H, Nakamura Y, Kishi R, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Kurozawa Y, Suganuma N, Kusuhara K, Katoh T.

- Prenatal alcohol exposure and adverse fetal growth restriction: findings from the Japan Environment and Children's Study.
Pediatric Research. 92(1): 291-298. Doi: 10.1038/s41390-021-01595-3, 2022.
4. Nakanishi K, Saijo Y, Yoshioka E, Sato Y, Kato Y, Nagaya K, Takahashi S, Ito Y, Kobayashi S, Miyashita C, Ikeda-Araki A, Kishi R, Kamijima M, Yamazaki S, Ohya Y, Yaegashi N, Hashimoto K, Mori C, Ito C, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Kurozawa Y, Suganuma N, Kusuhara K, Katoh T.
Severity of low pre-pregnancy body mass index and perinatal outcomes: the Japan Environment and Children's Study.
BMC Pregnancy Childbirth. 22(1):121. Doi: 10.1186/s12884-022-04418-3, 2022.
 5. Tatsuta N, Nakai K, Nakayama S, Takeuchi A, Arima T, Yaegashi N, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Kurozawa Y, Suganuma N, Kusuhara K, Katoh T.
Effects of maternal exposure to lead on secondary sex ratio in Japan: The Japan Environment and Children's Study.
Science of The Total Environment. 817:152726. Doi: 10.1016/j.scitotenv.2021, 2022.
 6. Kuraoka S, Oda M, Mitsubuchi H, Nakamura K, Katoh T.
Impaired Height Growth Associated with Vitamin D Deficiency in Young Children from the Japan Environment and Children's Study.
Nutrients. 14(16): 3325-3325. Doi: 10.3390/nu14163325, 2022.
 7. Saijo Y, Yoshioka E, Sato Y, Azuma H, Tanahashi Y, Ito Y, Kobayashi S, Minatoya M, Ait Bamai Y, Yamazaki K, Itoh S, Miyashita C, Ikeda-Araki A, Kishi R, Kamijima M, Yamazaki S, Ohya Y, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Kurozawa Y, Suganuma N, Kusuhara K, Katoh T.
Relations of mold, stove, and fragrance products on childhood wheezing and asthma: A prospective cohort study from the Japan Environment and Children's Study.
Indoor Air. 32(1): e12931. Doi: 10.1111/ina.12931, 2022.
 8. Sato Y, Yoshioka E, Saijo Y, Kato Y, Nagaya K, Takahashi S, Ito Y, Kobayashi S, Ait

Bamai Y, Yamazaki K, Itoh S, Miyashita C, Ikeda-Araki A, Kishi R, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Iso H, Shima M, Nakamura H, Suganuma N, Kusuhara K, Katoh T.

Associated congenital anomalies and syndromes of 248 infants with orofacial clefts born between 2011 and 2014 in the Japan Environment and Children's Study.

Congenital Anomalies. Doi: 10.1111/cga.12496, 2022.

9. Kunori Y, Saijo Y, Yoshioka E, Sato Y, Kanaya T, Nakanishi K, Kato Y, Nagaya K, Takahashi S, Ito Y, Itoh S, Kobayashi S, Miyashita C, Ikeda-Araki A, Kishi R, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Sobue T, Shima M, Nakamura H, Suganuma N, Kusuhara K, Katoh T.

Evaluating association of smoking status during pregnancy with adverse birth outcomes using urinary cotinine concentration: The Japan environment and Children's study (JECS).

Environmental Research. 215:114302. Doi: 10.1016/j.envres.2022.114302, 2022.

10. Fukushige M, Lu X, Satoh M, Oda M, Ohba T, Katoh T.

Association between antinuclear antibody positivity and chemical exposure among pregnant Japanese women: a cross-sectional study based on the Japan Environment and Children's Study.

International Journal of Hygiene and Environmental Health. (In press)

23) Department of Neuropsychiatry

1. Imai T, Ochiai S, Ishimaru T, Daitoku H, Miyagawa Y, Fukuhara R, Boku S, Takebayashi M.

A case report: Clozapine-induced leukopenia and neutropenia after mRNA COVID-19 vaccination. *Neuropsychopharmacol Rep*. 2022 Jun;42(2):238-240.

2. Fukunaga H, Sugawara H, Koyama A, Okamoto K, Fukui T, Ishikawa T, Takebayashi M, Sekiyama K, Hashimoto M.

Relationship between preoperative anxiety and onset of delirium after cardiovascular

surgery in elderly patients: focus on personality and coping process.
Psychogeriatrics. 2022 Jul;22(4):453-459.

3. Yoshiura K, Fukuhara R, Ishikawa T, Tsunoda N, Koyama A, Miyagawa Y, Hidaka Y, Hashimoto M, Ikeda M, Takebayashi M, Shimodozono M.
Brain structural alterations and clinical features of cognitive frailty in Japanese community-dwelling older adults: the Arao study (JPSC-AD).
Sci Rep. 2022 May 17;12(1):8202.
4. Sasaki H, Jono T, Fukuhara R, Honda K, Ishikawa T, Boku S, Takebayashi M.
Late-manifestation of attention-deficit/hyperactivity disorder in older adults: an observational study. BMC Psychiatry. 2022 May 24;22(1):354.
5. Thyreau B, Tatewaki Y, Chen L, Takano Y, Hirabayashi N, Furuta Y, Hata J, Nakaji S, Maeda T, Noguchi-Shinohara M, Mimura M, Nakashima K, Mori T, Takebayashi M, Ninomiya T, Taki Y; Japan Prospective Studies Collaboration for Aging and Dementia (JPSC-AD) Study Group.
Higher-resolution quantification of white matter hypointensities by large-scale transfer learning from 2D images on the JPSC-AD cohort.
Hum Brain Mapp. 2022 May 7.
6. Sugawara H, Koyama A, Maruyama T, Koda Y, Fukunaga H, Ishikawa T, Takebayashi M, Okamoto K, Fukui T, Hashimoto M.
Prospective clinical intervention study of aripiprazole and risperidone in the management of postoperative delirium in elderly patients after cardiovascular surgery.
Psychiatry Clin Neurosci. 2022 Jul 6.
7. Hirata R, Kawashima H, Tsuboi T, Wada K, Takebayashi M, Suwa T.
An Online Survey About Electroconvulsive Therapy in Japan During the COVID-19 Pandemic: Comparison of Early and Recent Stages.
Neuropsychiatr Dis Treat. 2022 Jun 28;18:1277-1285.
8. Okada-Tsuchioka M, Kajitani N, Omori W, Kurashige T, Boku S, Takebayashi M.

Tetraspanin heterogeneity of small extracellular vesicles in human biofluids and brain tissue. *Biochem Biophys Res Commun.* 2022 Oct 30;627:146-151.

9. Hidaka Y, Hashimoto M, Suehiro T, Fukuhara R, Ishikawa T, Tsunoda N, Koyama A, Honda K, Miyagawa Y, Yoshiura K, Boku S, Ishii K, Ikeda M, Takebayashi M. Impact of age on the cerebrospinal fluid spaces: high-convexity and medial subarachnoid spaces decrease with age. *Fluids Barriers CNS.* 2022 Oct 28;19(1):82.
10. Maki K, Ohara T, Hata J, Shibata M, Hirabayashi N, Honda T, Sakata S, Furuta Y, Akiyama M, Yamasaki K, Tatewaki Y, Taki Y, Kitazono T, Mikami T, Maeda T, Ono K, Mimura M, Nakashima K, Iga J, Takebayashi M, Ninomiya T. CKD, Brain Atrophy, and White Matter Lesion Volume: The Japan Prospective Studies Collaboration for Aging and Dementia. *Kidney Med.* 2023 Mar;5(3) 100593 doi:10.1016/j.xkme.2022.100593