

## 2023 年度報告

熊本大学大学院生命科学研究部附属健康長寿代謝制御研究センター

### ○代謝・循環器部門

#### 1) 病態生化学講座

1. Yamazaki M, Hino S, Usuki S, Miyazaki Y, Oda T, Nakao M, Ito T, Yamagata K: YAP/BRD4-controlled ROR1 promotes tumor-initiating cells and hyperproliferation in pancreatic cancer. *EMBO J* e112614, 2023
2. Tsuyama T, Sato Y, Yoshizawa T, Matsuoka T, Yamagata K: Hypoxia causes pancreatic b-cell dysfunction and impairs insulin secretion by activating the transcriptional repressor BHLHE40. *EMBO reports* e56227, 2023
3. 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<sup>+</sup> salvage governs mitochondrial metabolism invigorating NK cell anti-immunity. *Hepatology* 78: 468-485, 2023
4. Yamagata K, Mizumoto T, Yoshizawa T: The emerging role of SIRT7 in glucose and lipid metabolism. *Cells* 13: 48, 2023

#### 2) 分子遺伝学講座

1. Morinaga J, Kashiwabara K, Torigoe D, Okadome Y, Aizawa K, Uemura K, Kurashima A, Matsunaga E, Fukami H, Horiguchi H, Sato M, Sugizaki T, Miyata K, Kadomatsu T, Mukoyama M, Miyauchi K, Hokimoto S, Fukumoto Y, Hiro T, Hibi K, Nakagawa Y, Sakuma I, Ozaki Y, Iwata H, Iimuro S, Daida H, Shimokawa H, Kimura T, Matsuzaki M, Saito Y, Matsuyama Y, Nagai R, Oike Y: Plasma ANGPTL8 levels and risk for secondary cardiovascular events in Japanese patients with stable coronary artery disease receiving statin therapy. *Arterioscler Thromb Vasc Biol* 43: 1549-1559, 2023
2. Kadomatsu T, Hara T, Kurahashi R, Horiguchi H, Morinaga J, Miyata K,

Kurano S, Kanemaru H, Fukushima S, Araki K, Baba M, Linehan M W, Kamba T, Oike Y: ANGPTL2-mediated epigenetic repression of MHC-I in tumor cells accelerates tumor immune evasion. *Mol Oncol* 17:2637-2658, 2023

3. Horiguchi H, Kadomatsu T, Yamashita T, Yumoto S, Terada K, Sato M, Morinaga J, Miyata K, Oike Y: ANGPTL2 promotes immune checkpoint inhibitor-related murine autoimmune myocarditis. *Commun Biol* 6:965, 2023
4. Fukami H, Morinaga J, Nakagami H, Hayashi H, Okadome Y, Matsunaga E, Kadomatsu T, Horiguchi H, Sato M, Sugizaki T, Miyata K, Torigoe D, Mukoyama M, Morishita R, Oike Y: Efficacy and safety in mice of repeated, lifelong administration of an ANGPTL3 vaccine. *npj Vaccines* 8:168, 2023
5. 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* 27:329-339, 2023
6. Terada K, Endo M, Kiyonari H, Takeda H, Oike Y: Loss of Dj2 accompanies pH deviation in lysosomes and lysosome-related organelles. *J Cell Physiol*, 2023 Online ahead of print
7. Horiguchi H, Kadomatsu T, Yamashita T, Yumoto S, Horino T, Sato M, Terada K, Miyata K, Ichigozaki Y, Kimura T, Fukushima S, Moroishi T, Oike Y: Tumor stroma-derived ANGPTL2 potentiates immune checkpoint inhibitor efficacy. *Cancer Gene Ther* doi: 10.1038/s41417-024-00757-9. Online ahead of print, 2024.

### 3) 代謝内科学講座

1. Araki H, Matsumura T, Furukawa N, Araki E. Updates of incretin-related drugs for the treatment of type 2 diabetes. *Journal of Diabetes Investigation*. 14(2):189-192. 2023.
2. Araki H, Hino S, Anan K, Kuribayashi K, Etoh K, Seko D, Takase R, Kohroggi 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.

3. Matsushima-Nagata K, Matsumura T, Kondo Y, Anraku K, Fukuda K, Yamanaka M, Manabe M, Irie T, Araki E, Sugiuchi H. Significance of Circulating Remnant Lipoprotein Cholesterol Levels Measured by Homogeneous Assay in Patients with Type 2 Diabetes. *Biomolecules*. 13(3):468. 2023.
4. Bouchi R, Sugiyama T, Goto A, Ohsugi M, Yoshioka N, Katagiri H, Mita T, Hirota Y, Ikegami H, Matsuhisa M, Araki E, Yokoyama H, Minami M, Yamazaki K, Jinnouchi H, Ikeda H, Fujii H, Nogawa M, Kaneshige M, Miyo K, Ueki K. Impact of COVID-19 pandemic on behavioral changes and glycemic control and a survey of telemedicine in patients with diabetes: A multicenter retrospective observational study. *Journal of Diabetes Investigation*. 14(8):994-1004. 2023.
5. Basile G, Vetere A, Hu J, Ijaduola O, Zhang Y, Liu KC, Eltony AM, De Jesus DF, Fukuda K, Doherty G, Leech CA, Chepurny OG, Holz GG, Yun SH, Andersson O, Choudhary A, Wagner BK, Kulkarni RN. Excess pancreatic elastase alters acinar- $\beta$  cell communication by impairing the mechano-signaling and the PAR2 pathways. *Cell Metab*. 11;35(7):1242-1260.e9. 2023.
6. Murata Y, Haneda M, Miyakawa N, Nishida S, Kajihara N, Maeda S, Ono K, Hanatani S, Igata M, Takaki Y, Motoshima H, Kishikawa H, Araki E. A Case of Autoimmune Polyglandular Syndrome Type 3 Complicated with IgG4-related Disease. *Intern Med*. 2023. In press.
7. Toma T, Miyakawa N, Tateishi M, Todaka M, Kondo T, Fujita M, Otsuka M, Araki E, Tateishi H. An ADAM17 selective inhibitor promotes glucose uptake by activating AMPK. *J Pharmacol Sci*. 154(1):37-46. 2024.

#### 4) 循環器内科学講座

1. Kawahara Y, Kanazawa H, Takashio S, Tsuruta Y, Sumi H, Kiyama T, Kaneko S, Ito M, Hoshiyama T, Hirakawa K, Ishii M, Tabata N, Yamanaga K, Fujisue K, Hanatani S, Sueta D, Arima Y, Araki S, Usuku H, Nakamura T, Yamamoto E, Soejima H, Matsushita K, Kawano H, Tsujita K. Clinical, electrocardiographic, and echocardiographic parameters associated with the development of pacing and implantable cardioverter-defibrillator indication in patients with transthyretin amyloid cardiomyopathy. *Europace*. (in press), 2023
2. Kuyama N, Takashio S, Nagakura T, Imamura M, Takamatsu K, Takae M, Hirakawa K, Yamanaga K, Hanatani S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Anti-Kv1.4 Antibody

Without Myasthenia Gravis: A Rare Cause of Autoimmune Myocarditis and Myositis. *JACC Case Rep.* 9:101734, 2023

3. Sumi H, Hoshiyama T, Morihisa K, Noda K, Kaneko S, Kanazawa H, Ishii M, Fujisue K, Sueta D, Takashio S, Usuku H, Matsushita K, Tsujita K. Effect of Contact Vector Direction on Achieving Cavotricuspid Isthmus Block. *Sci Rep.* 13(1):2579, 2023
  4. Takashio S, Morioka M, Ishii M, Morikawa K, Hirakawa K, Hanatani S, Oike F, Usuku H, Kidoh M, Oda S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Clinical characteristics, outcome, and therapeutic effect of tafamidis in wild-type transthyretin amyloid cardiomyopathy. *ESC Heart Fail.* (in press), 2023
  5. Takashio S, Kato T, Tashima H, Irie H, Komohara Y, Oguni T, Morikawa K, Kuyama N, Tabata N, Hanatani S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Prevalence of cardiac amyloidosis in patients undergoing carpal tunnel release with amyloid deposition. *Circ J.* (in press), 2023
  6. Usuku H, Yamamoto E, Sueta D, Noguchi M, Fujisaki T, Egashira K, Oike F, Fujisue K, Hanatani S, Arima Y, Takashio S, Kawano Y, Oda S, Kawano H, Matsushita K, Ueda M, Matsui H, Matsuoka M, Tsujita K. Prognostic value of right ventricular global longitudinal strain in patients with immunoglobulin light-chain cardiac amyloidosis. *Eur Heart J Open.* (in press), 2023
- 5) 細胞病理学講座
1. Anami T, Ibe Y, Li L, Komohara Y, Hirao H, Harada M, Yano H, Fujiwara Y, Motoshima T, Yatsuda J, Hibi T, Kamba T. Overexpression of SerpinB9 in non-seminomatous germ cell tumors. *Med Mol Morphol.* 2023
  2. Anami T, Pan C, Fujiwara Y, Komohara Y, Yano H, Saito Y, Sugimoto M, Wakita D, Motoshima T, Murakami Y, Yatsuda J, Takahashi N, Suzu S, Asano K, Tamada K, Kamba T. Dysfunction of sinus macrophages in tumor-bearing host induces resistance to immunotherapy. *Cancer Sci.* 2023
  3. Matsubara E, Shinchi Y, Komohara Y, Yano H, Pan C, Fujiwara Y, Ikeda K, Suzuki M. PD-L2 overexpression on tumor-associated macrophages is one of the predictors for better prognosis in lung adenocarcinoma. *Med Mol Morphol.* 56:250-256, 2023
  4. Oguro A, Fujiyama T, Ishihara Y, Kataoka C, Yamamoto M, Eto K, Komohara Y, Imaoka S, Sakuragi T, Tsuji M, Shibata E, Kotake Y, Yamazaki T. Maternal DHA intake in mice increased DHA metabolites in the pup brain and ameliorated MeHg-induced behavioral disorder. *J Lipid Res.* 64:100458, 2023.
  5. Yamada R, Ohnishi K, Pan C, Yano H, Fujiwara Y, Shiota T, Mikami Y, Komohara Y. Expression

of macrophage/dendritic cell-related molecules in lymph node sinus macrophages. *Microbiol Immunol.* 67:490-500, 2023

6. Takashio S, Kato T, Tashima H, Irie H, Komohara Y, Oguni T, Morikawa K, Kuyama N, Tabata N, Hanatani S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Prevalence of Cardiac Amyloidosis in Patients Undergoing Carpal Tunnel Release With Amyloid Deposition. *Circ J.* 87:1047-1055, 2023
7. Panawan O, Silsirivanit A, Chang CH, Putthisen S, Boonnate P, Yokota T, Nishiyama-Ikeda Y, Detarya M, Sawanyawisuth K, Kaewkong W, Muisuk K, Luang S, Vaeteewoottacharn K, Kariya R, Yano H, Komohara Y, Ohta K, Okada S, Wongkham S, Araki N. Establishment and characterization of a novel cancer stem-like cell of cholangiocarcinoma. *Cancer Sci.* 114:3230-3246, 2023
8. Miura Y, Motoshima T, Anami T, Yano H, Mito R, Pan C, Urakami S, Kinowaki K, Tsukamoto H, Kurahashi R, Murakami Y, Yatsuda J, Fujiwara Y, Kamba T, Komohara Y. Predictive value of CXCL10 for the occurrence of immune-related adverse events in patient with renal cell carcinoma. *Microbiol Immunol.* 67:345-354, 2023
9. Baba Y, Hara Y, Toihata T, Kosumi K, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Komohara Y, Baba H. Relationship between gut microbiome *Fusobacterium nucleatum* and LINE-1 methylation level in esophageal cancer. *Esophagus.* 20:704-712, 2023
10. Adawy A, Li L, Hirao H, Irie T, Yoshii D, Yano H, Fujiwara Y, Esumi S, Honda M, Suzu S, Komohara Y, Hibi T. Potential involvement of IL-32 in cell-to-cell communication between macrophages and hepatoblastoma. *Pediatr Surg Int.* 39:275, 2023.
11. Tatetsu H, Watanabe M, Liu J, Tokunaga K, Iwanaga E, Komohara Y, Thrash E, Bassal MA, Matsuoka M, Tenen DG, Chai L. Dissecting the cell of origin of aberrant SALL4 expression in myelodysplastic syndrome. *Clin Transl Med.* 13:e1327, 2023.
12. Saito Y, Fujiwara Y, Miyamoto Y, Ohnishi K, Nakashima Y, Tabata Y, Baba H, Komohara Y. CD169<sup>+</sup> sinus macrophages in regional lymph nodes do not predict mismatch-repair status of patients with colorectal cancer. *Cancer Med.* 10199-10211, 2023
13. Furuta Y, Gushima R, Naoe H, Honda M, Tsuruta Y, Nagaoka K, Watanabe T, Tateyama M,

Fujimoto N, Hirata S, Miyagawa E, Sakata K, Mizuhashi Y, Iwakura M, Murai M, Matsuoka M, Komohara Y, Tanaka Y. Possible Association of Mutations in the MEFV Gene with the Intestinal Phenotype of Behçet's Disease and Refractoriness to Treatment. *J Clin Med.* 12:3131, 2023.

14. Mito R, Iriki T, Fujiwara Y, Pan C, Ikeda T, Nohara T, Suzuki M, Sakagami T, Komohara Y. Onionin A inhibits small-cell lung cancer proliferation through suppressing STAT3 activation induced by macrophages-derived IL-6 and cell-cell interaction with tumor-associated macrophage. *Hum Cell.* 36:1068-1080, 2023.
15. 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 $\alpha/\beta$  blockade boosts the efficacy of anti-PD-1 immunotherapy in fibrotic tumors. *Cancer Res.* 83:753-770, 2023.
16. 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 $\beta$  derived from mixed-polarized macrophages activates fibroblasts and synergistically forms a cancer-promoting microenvironment. *Gastric Cancer.* 26:187-202, 2023.
17. Nakamura E, Maekawa K, Saito Y, Matsumoto T, Ogawa M, Komohara Y, Asada Y, Yamashita A. Altered choline level in atherosclerotic lesions: Upregulation of choline transporter-like protein 1 in human coronary unstable plaque. *PLoS One.* 18:e0281730, 2023.
18. Matsuzaki H, Komohara Y, Yano H, Fujiwara Y, Kai K, Yamada R, Yoshii D, Uekawa K, Shinojima N, Mikami Y, Mukasa A. Macrophage colony stimulating factor potentially induces recruitment and maturation of macrophages in recurrent pituitary neuroendocrine tumors. *Microbiol Immunol.* 67:90-98, 2023.
19. Ohno Y, Toshino M, Mohammed AFA, Fujiwara Y, Komohara Y, Onodera R, Higashi T, Motoyama K. Mannose-methyl- $\beta$ -cyclodextrin suppresses tumor growth by targeting both colon cancer cells and tumor-associated macrophages. *Carbohydr Polym.* 305:120551, 2023.
20. Matsubara E, Yano H, Pan C, Komohara Y, Fujiwara Y, Zhao S, Shinchi Y, Kurotaki D, Suzuki M. The Significance of SPP1 in Lung Cancers and Its Impact as a Marker for Protumor Tumor-

Associated Macrophages. *Cancers (Basel)*. 15:2250, 2023.

21. Komohara Y, Kurotaki D, Tsukamoto H, Miyasato Y, Yano H, Pan C, Yamamoto Y, Fujiwara Y. Involvement of protumor macrophages in breast cancer progression and characterization of macrophage phenotypes. *Cancer Sci*. 2023
22. Honda M, Kadohisa M, Yoshii D, Komohara Y, Hibi T. Intravital imaging of immune responses in intestinal inflammation. *Inflamm Regen*. 43:9, 2023.
23. Shinojima N, Ozono K, Yamamoto H, Abe S, Sasaki R, Tomita Y, Kai A, Mori R, Yamamoto T, Uekawa K, Matsui H, Nosaka K, Matsuzaki H, Komohara Y, Mikami Y, Mukasa A. Lynch syndrome-associated chordoma with high tumor mutational burden and significant response to immune checkpoint inhibitors. *Brain Tumor Pathol*. 40:185-190, 2023.
24. Fukase H, Honda M, Miyamoto H, Nakashima M, Gushima R, Naoe H, Yamada R, Komohara Y, Tanaka Y. Narrow-band imaging with magnification for the diagnosis of colorectal adenoma in a patient with Cronkhite-Canada syndrome. *DEN Open*. 4:e257, 2023.
25. Yamada R, Miyata-Takata T, Tanaka R, Komohara Y, Takata K. Myeloid sarcoma incidentally found in lymph nodes dissected for advanced gastric cancer. *J Clin Exp Hematop*. 63:139-142, 2023.
26. Miura Y, Motoshima T, Anami T, Takemura K, Kinowaki K, Oka S, Urakami S, Kamba T, Komohara Y. A Case Report of Aggressive Fumarate Hydrase-deficient Renal Cell Carcinoma With Loss of HLA Antigens. *Cancer Diagn Progn*. 3:522-527, 2023.
27. 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
28. Yamamura K, Beppu T, Kinoshita K, Matsumura K, Oda E, Nagayama Y, Motohara T, Miyamoto H, Matsumura F, Yamada R, Komohara Y, Okabe H, Miyata T, Isiko T. A Laparoscopically Treated Case of Peritoneal Dissemination Mimicking Liver Metastases from Distal Cholangiocarcinoma Four Years After the Initial Pancreaticoduodenectomy. *Anticancer Res*. 43:1863-1867, 2023.

## 6) 細胞医学分野

1. Kuwayama N, Kujirai T, Kishi Y, Hirano R, Echigoya K, Fang L, Watanabe S, Nakao M, Suzuki Y, Ishiguro K, Kurumizaka H, and Gotoh Y. HMGA2 directly mediates chromatin condensation in association with neuronal fate regulation. *Nature Commun.* 14: 6420, 2023.
2. Ikeda R, Noshiro D, Morishita H, Takada S, Kagaeyama S, Fujioka Y, Funakoshi T, Komatsu-Hirota S, Arai R, Ryzhii E, Abe M, Koga T, Nakao M, Sakimura K, Horii A, Waguri S, Ichimura Y, Noda N, and Komatsu M. Phosphorylation of phase-separated p62 bodies by ULK1 activates a redox-independent stress response. *EMBO J.* e113349, 2023.
3. Etoh K, and Nakao M. A web-based integrative transcriptome analysis, RNAseqChef, uncovers cell/tissue type-dependent action of sulforaphane. *J. Biol. Chem.* 299: 104810, 2023.
4. Yamazaki M, Hino S, Usuki S, Miyazaki Y, Oda T, Nakao M, Ito T, and Yamagata K. YAP/BRD4-controlled ROR1 promotes tumor-initiating cells and hyperproliferation in pancreatic cancer. *EMBO J.* e112614, 2023.
5. Hino S, Sato T, and Nakao M. Chromatin immunoprecipitation sequencing (ChIP-seq) for detecting histone modifications and modifiers. *Methods Mol. Biol.* (In book: Epigenomics), *Springer*, 2577: 55-64, 2023.

## 7) 心臓発生研究室

1. Wenjuan Ma, Shah Adil Ishtiyah Ahmad, Michihiro Hashimoto, Ahad Khalilnezhad, Miho Kataoka, Yuichiro Arima, Yosuke Tanaka, Shigeru Yanagi, Terumasa Umemoto, Toshio Suda. MITOL deficiency triggers hematopoietic stem cell apoptosis via ER stress response. *The EMBO Journal* 43(3) 339-361, 2024
2. Wenjuan Ma, Yuichiro Arima, Terumasa Umemoto, Tomomasa Yokomizo, Yuqing Xu, Kenichi Miharada, Yosuke Tanaka, Toshio Suda. Metabolic regulation in erythroid differentiation by systemic ketogenesis in fasted mice. *Experimental hematology* 129:104124, 2024
3. Kaoru Mizukami, Hiroki Higashiyama, Yuichiro Arima, Koji Ando, Norihiro Okada, Katsumi Kose, Shigehito Yamada, Jun K Takeuchi, Kazuko Koshiba-Takeuchi, Shigetomo Fukuhara, Sachiko Miyagawa-Tomita, Hiroki Kurihara. Coronary artery established through amniote evolution. *eLife* 12:e83005, 2023
4. Kush Ketan Patel, Cynthia Venkatesan, Habiba Abdelhalim, Saman Zeeshan, Yuichiro Arima, Suvi Linna-Kuosmanen, Zeeshan Ahmed. Genomic approaches to identify and investigate genes



associated with atrial fibrillation and heart failure susceptibility. *Human genomics* 17(1) 47-47, 2023

8) 腎臓内科学講座

1. Deng QY, Kakizoe Y, Iwata Y, Nakagawa T, Miyasato Y, Nakagawa M, Nishiguchi K, Nagayoshi Y, Adachi M, Narita Y, Izumi Y, Kuwabara T, Tsuda Y, Mukoyama M: The serine protease plasmin plays detrimental roles in epithelial sodium channel activation and podocyte injury in Dahl salt-sensitive rats. *Hypertens Res* 46 (1): 50-62, 2023.
2. Makino Y, Hikita H, Kato S, Sugiyama M, Shigekawa M, Sakamoto T, Sasaki Y, Murai K, Sakane S, Kodama T, Sakamori R, Kobayashi S, Eguchi H, Takemura N, Kokudo N, Yokoi H, Mukoyama M, Tatsumi T, Takehara T: STAT3 is activated by CTGF-mediated tumor-stroma cross talk to promote HCC progression. *Cell Mol Gastroenterol Hepatol* 15 (1): 99-119, 2023.
3. Imasawa T, Saito C, Kai H, Iseki K, Kazama JJ, Shibagaki Y, Sugiyama H, Nagata D, Narita I, Nishino T, Hasegawa H, Honda H, Maruyama S, Miyazaki M, Mukoyama M, Yasuda H, Wada T, Ishikawa Y, Tsunoda R, Nagai K, Okubo R, Kondo M, Hoshino J, Yamagata K: Long-term effectiveness of a primary care practice facilitation program for chronic kidney disease management: an extended follow-up of a cluster-randomized FROM-J study. *Nephrol Dial Transplant* 38 (1): 158-166, 2023.
4. Izumi Y, Date R, Mizumoto T, Nakagawa T, Kakizoe Y, Adachi M, Kuwabara T, Mukoyama M: A case of chyluria with nephrotic-range proteinuria caused by lymphatic malformation, leading to a diagnosis of Klippel-Trenaunay syndrome. *CEN Case Rep* 12 (2): 205-209, 2023.
5. Yokoi H, Toda N, Mukoyama M: Generation of conditional KO mice of CCN2 and its function in the kidney. *Methods Mol Biol* 2582: 391-409, 2023.
6. Shibata S, Kobayashi K, Tanaka M, Asayama K, Yamamoto E, Nakagami H, Hoshide S, Kishi T, Matsumoto C, Mogi M, Morimoto S, Yamamoto K, Mukoyama M, Kario K, Node K, Rakugi H: COVID-19 pandemic and hypertension: an updated report from the Japanese Society of Hypertension project team on COVID-19. *Hypertens Res* 46 (3): 589-600, 2023.
7. Matsumoto C, Shibata S, Kishi T, Morimoto S, Mogi M, Yamamoto K, Kobayashi K, Tanaka M, Asayama K, Yamamoto E, Nakagami H, Hoshide S, Mukoyama M, Kario K, Node K, Rakugi H: Long COVID and hypertension-related disorders: a report from the Japanese Society of Hypertension Project Team on COVID-19. *Hypertens Res* 46 (3): 601-619, 2023.
8. 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 cardiopulmonary bypass. *Clin Exp Nephrol* 27 (4): 329-339, 2023.
9. Miyasato Y, Hanna RM, Moringa J, Mukoyama M, Kalantar-Zadeh K: Prognostic nutritional index as a predictor of mortality in 101,616 patients undergoing hemodialysis. *Nutrients* 15 (2):

311, 2023.

10. Nishio H, Ishii A, Yamada H, Mori KP, Kato Y, Ohno S, Handa T, Sugioka S, Ishimura T, Ikushima A, Inoue Y, Minamino N, Mukoyama M, Yanagita M, Yokoi H: Sacubitril/valsartan ameliorates renal tubulointerstitial injury through increasing renal plasma flow in a mouse model of type 2 diabetes with aldosterone excess. *Nephrol Dial Transplant* **38** (11): 2517-2527, 2023.
11. Miyasato Y, Hanna RM, Miyagi, Narasaki, Kimura, Moringa J, Mukoyama M, Kalantar-Zadeh K: Associations of interdialytic weight gain in the long intervals with mortality and residual kidney function decline. *Hemodial Int* **27** (3): 326-338, 2023.
12. Fujimoto D, Kuwabara T, Mukoyama M: Need to continue or discontinue RAS inhibitors as CKD stage advances? Any alternative? *Hypertens Res* **46** (8): 2048-2050, 2023.
13. Yoshii R, Kajiwarra K, Uemura N, Matsushita K, Nakamura T, Tomita M, Mukoyama M: Successful treatment with rituximab and plasmapheresis of renal involvement of eosinophilic granulomatosis with polyangiitis. *Renal Replacement Therapy* **9** (1): 9, 2023.
14. Morinaga J, Kashiwabara K, Torigoe D, Okadome Y, Aizawa K, Uemura K, Kurashima A, Matsunaga E, Fukami H, Horiguchi H, Sato M, Sugizaki T, Miyata K, Kadomatsu T, Mukoyama M, Miyauchi K, Hokimoto S, Fukumoto Y, Hiro T, Hibi K, Nakagawa Y, Sakuma I, Ozaki Y, Iwata H, Imuro S, Daida H, Shimokawa H, Kimura T, Matsuzaki M, Saito Y, Matsuyama Y, Nagai R, Oike Y: Plasma ANGPTL8 levels and risk for secondary cardiovascular events in Japanese patients with stable coronary artery disease receiving statin therapy. *Arterioscler Thromb Vasc Biol* **43** (8): 1549-1559, 2023.
15. Hou H, Horikawa M, Narita Y, Jono H, Kakizoe Y, Izumi Y, Kuwabara T, Mukoyama M, Saito H: Suppression of indoxyl sulfate accumulation reduces renal fibrosis in sulfotransferase 1a1-deficient mice. *Int J Mol Sci* **24** (14): 11329, 2023.
16. Miyasato Y, Mukoyama M: More delicate blood pressure management in patients with chronic kidney disease: Is lower not the better? *Hypertens Res* **46** (12): 2757-2758, 2023.
17. Fukami H, Morinaga J, Nakagami H, Hayashi H, Okadome Y, Matsunaga E, Kadomatsu T, Horiguchi H, Sato M, Sugizaki T, Miyata K, Torigoe D, Mukoyama M, Morishita R, Oike Y: Efficacy and safety in mice of repeated, lifelong administration of an ANGPTL3 vaccine. *NPJ Vaccines* **8** (1): 168, 2023.
18. Iwata Y, Deng QY, Kakizoe Y, Nakagawa T, Miyasato Y, Nakagawa M, Nishiguchi K, Nagayoshi Y, Narita Y, Izumi Y, Kuwabara T, Adachi M, Mukoyama M: A serine protease inhibitor, camostat mesilate, suppresses urinary plasmin activity and alleviates hypertension and podocyte injury in Dahl salt-sensitive rats. *Int J Mol Sci* **24** (21): 15743, 2023.
19. Miyasato Y, Moringa J, Inoue H, Nakayama Y, Adachi M, Izumi Y, Kakizoe Y, Mizumoto T, Nakagawa T, Fujimoto D, Ono M, Oda A, Kuwabara T, Mukoyama M: Association between prognostic nutritional index and peritoneal dialysis discontinuation: a retrospective cohort study.

*Renal Replacement Therapy* 9 (1): 58, 2023.

20. Mukoyama M, Kuwabara T: Pre-dialysis blood pressure and cardiovascular mortality in Japan: Need for much stricter control? *Hypertens Res*: published online, Dec. 7, 2023; doi: 10.1038/s41440-023-01523-4.
21. Yoshii R, Kajiwaru K, Uemura N, Matsushita K, Nakamura T, Tomita M, Mukoyama M: The successful treatment of microscopic polyangiitis associated with non-tuberculous mycobacterial-pulmonary disease. *CEN Case Rep*: published online, Dec.9, 2023; doi: 10.1007/s13730-023-00839-x.
22. Ono M, Izumi Y, Maruyama K, Yasuoka Y, Hiramatsu A, Aramburu J, Lopez-Rodriguez C, Nonoguchi H, Kakizoe Y, Adachi M, Kuwabara T, Mukoyama M: Characterization of gene expression in the kidney of renal tubular cell-specific NFAT5 knockout mice. *Am J Physiol Renal Physiol*: published online, Dec. 28, 2023; doi: 10.1152/ajprenal.00233.2023.
23. Yasuoka Y, Izumi Y, Fukuyama T, Oshima T, Yamazaki T, Uematsu T, Kobayashi N, Nanami M, Shimada Y, Nagaba Y, Mukoyama M, Sands JM, Takahashi N, Kawahara K, Nonoguchi H: Tubular endogenous erythropoietin protects renal function against ischemic reperfusion injury. *Int J Mol Sci* 25 (2): 1223, 2024.
24. Kurasawa S, Kato S, Ozeki T, Akiyama S, Ishimoto T, Mizuno M, Tsuboi N, Kato N, Kosugi T, Maruyama S; J-MARINE collaborators: Rationale and design of the Japanese Biomarkers in Nephrotic Syndrome (J-MARINE) study. *Clin Exp Nephrol*: published online, Jan. 25, 2024; doi: 10.1007/s10157-023-02449-4.

○がん・幹細胞研究部門

9) 消化器外科学講座

1. Imai K, Baba H: Initially unresectable colorectal liver metastases: the best therapeutic regimens. *Lancet Oncol* 24:711-713, 2023
2. Bao C, Tourdot RW, Brunette GJ, Stewart C, Sun L, Baba H, Watanabe M, Agoston AT, Jajoo K, Davison JM, Nason KS, Getz G, Wang KK, Imamura Y, Odze R, Bass AJ, Stachler MD, Zhang CZ: Genomic signatures of past and present chromosomal instability in Barrett's esophagus and early esophageal adenocarcinoma. *Nat Commun* 14:6203, 2023
3. Mima K, Baba H: Outcomes of patients with frailty and metastatic cancer admitted to the intensive care unit. *Lancet Healthy Longev* 4:e655-e656, 2023
4. 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 PDGFRalpha/beta blockade boosts the efficacy of anti-PD-1 immunotherapy in fibrotic tumors. *Cancer Res* 83:753-770, 2023
5. 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* 278:e549-e555, 2023
  6. 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
  7. 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
  8. 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
  9. Hu X, Yasuda T, Yasuda-Yosihara N, Yonemura A, Umemoto T, Nakachi Y, Yamashita K, Semba T, Arima K, Uchihara T, Nishimura A, Bu L, Fu L, Wei F, Zhang J, Tong Y, Wang H, Iwamoto K, Fukuda T, Nakagawa H, Taniguchi K, Miyamoto Y, Baba H, Ishimoto T: Downregulation of 15-PGDH enhances MASH-HCC development via fatty acid-induced T-cell exhaustion. *JHEP reports* 5:100892, 2023
  10. Kitamura F, Semba T, Yasuda-Yoshihara N, Yamada K, Nishimura A, Yamasaki J, Nagano O, Yasuda T, Yonemura A, Tong Y, Wang H, Akiyama T, Matsumura K, Uemura N, Itoyama R, Bu L, Fu L, Hu X, Wei F, Mima K, Imai K, Hayashi H, Yamashita YI, Miyamoto Y, Baba H, Ishimoto T: Cancer-associated fibroblasts reuse cancer-derived lactate to maintain a fibrotic and immunosuppressive microenvironment in pancreatic cancer. *JCI Insight* 8:e163022, 2023
  11. 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-1beta derived from mixed-polarized macrophages activates fibroblasts and synergistically forms a cancer-promoting microenvironment. *Gastric Cancer* 26:187-202, 2023
12. Shiraishi K, Nakaura T, Uetani H, Nagayama Y, Kidoh M, Kobayashi N, Morita K, Yamahita Y, Tanaka Y, Baba H, Hirai T: Deep learning-based reconstruction and 3D hybrid profile order technique for MRCP at 3T: evaluation of image quality and acquisition time. *Eur Radiol* 33:7585-7594, 2023
  13. 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* 290:2604-2615, 2023
  14. Yasuda T, Baba H, Ishimoto T: Cellular senescence in the tumor microenvironment and context-specific cancer treatment strategies. *FEBS J* 290:1290-1302, 2023
  15. Uemura N, Hayashi H, Liu Z, Matsumura K, Ogata Y, Yasuda N, Sato H, Shiraishi Y, Miyata T, Nakagawa S, Mima K, Nitta H, Baba H: Statins exert anti-growth effects by suppressing YAP/TAZ expressions via JNK signal activation and eliminate the immune suppression by downregulating PD-L1 expression in pancreatic cancer. *Am J Cancer Res* 13:2041-2054, 2023
  16. 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* 15:498, 2023
  17. 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
  18. 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
  19. 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* 49:41, 2023
20. 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* 12:10199-10211, 2023
  21. Miyamoto Y, Akiyama T, Kato R, Sawayama H, Ogawa K, Yoshida N, Baba H: Prognostic significance of systemic inflammation indices by K-ras status in patients with metastatic colorectal cancer. *Dis Colon Rectum* 66:e809-e817, 2023
  22. 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
  23. 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
  24. Kitano Y, Inoue Y, Takeda T, Oba A, Ono Y, Sato T, Ito H, Ozaka M, Sasaki T, Sasahira N, Baba H, Takahashi Y: Clinical efficacy of neoadjuvant chemotherapy with Gemcitabine plus S-1 for resectable pancreatic ductal adenocarcinoma compared with upfront surgery. *Ann Surg Oncol* 30:5093-5102, 2023
  25. 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
  26. 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* 30:3725-3732, 2023

27. Akiyama T, Miyamoto Y, Matsuda A, Tokunaga R, Ogawa K, Iwatsuki M, Iwagami S, Baba Y, Yoshida N, Sonoda H, Yamada T, Yoshida H, Baba H: The colon inflammatory index score can predict the survival outcome after resection of colorectal cancer: a retrospective multicentre study. *J Cancer Res Clin Oncol* 149:7887-7894, 2023
28. Kobayashi S, Wada H, Sakai D, Baba H, Kanai M, Kamachi H, Takayama T, Ueno M, Takahashi M, Sho M, Yoshimura K, Hatano E, Nagano H, Ioka T: Impact of tumor shrinkage pattern with biweekly triplet gemcitabine+cisplatin+S-1 regimen for biliary tract cancers: Implications for neoadjuvant therapy from the data of KHBO1401 (KHBO1401-1A study). *Oncology*:1-10, 2023
29. Maeda Y, Eto K, Yoshida N, Iwatsuki M, Iwagami S, Ogawa K, Sawayama H, Baba Y, Miyamoto Y, Baba H: The 5-factor modified frailty index is a novel predictive marker of death from other diseases after curative gastrectomy for gastric cancer. *Geriatr Gerontol Int* 23:750-756, 2023
30. 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
31. Kato R, Miyamoto Y, Ouchi M, Ogawa K, Yoshida N, Baba H: The Geriatric Nutritional Risk Index is a prognostic marker in patients with metastatic colorectal cancer. *Int J Clin Oncol* 28:893-900, 2023
32. Kayashima H, Itoh S, Shimokawa M, Hayashi H, Takamori H, Fukuzawa K, Ninomiya M, Araki K, Yamashita YI, Sugimachi K, Uchiyama H, Morine Y, Utsunomiya T, Uwagawa T, Maeda T, Baba H, Yoshizumi T: Effect of duration of adjuvant chemotherapy with S-1 (6 versus 12 months) for resected pancreatic cancer: the multicenter clinical randomized phase II postoperative adjuvant chemotherapy S-1 (PACS-1) trial. *Int J Clin Oncol* 28:1520-1529, 2023
33. 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* 28:613-624, 2023

34. Okui J, Shigeta K, Kato Y, Mizuno S, Sugiura K, Seo Y, Nakadai J, Baba H, Kikuchi H, Hirata A, Makino A, Kondo T, Matsui S, Seishima R, Okabayashi K, Obara H, Sato Y, Kitagawa Y: Delayed-onset organ/space surgical site infection worsens prognosis in high-risk stage II and III colorectal cancer. *J Gastrointest Surg* 27:2515-2525, 2023
35. 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
36. Lan C, Yamashita YI, Tsukamoto M, Hayashi H, Nakagawa S, Liu Z, Wu X, Imai K, Mima K, Kaida T, Baba H: The prognostic role of serine racemase in patients with pancreatic cancer: A new marker in cancer metabolism. *Pancreas* 52:e101-e109, 2023
37. 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 hemi-colectomy? The optimal surgical procedure for transverse colon cancer: a propensity score-matched, multicenter, retrospective study. *Int J Colorectal Dis* 38:58, 2023
38. Iwatsuki M, Matsumoto C, Mimori K, Baba H: The comprehensive review of gastric adenocarcinoma and proximal polyposis of the stomach (GAPPS) from diagnosis and treatment. *Ann Gastroenterol Surg* 7:725-732, 2023
39. Kobayashi H, Kotake K, Kawasaki M, Kanemitsu Y, Kinugasa Y, Ueno H, Maeda K, Suto T, Itabashi M, Funahashi K, Ozawa H, Koyama F, Noura S, Ishida H, Ohue M, Kiyomatsu T, Ishihara S, Koda K, Baba H, Kawada K, Hashiguchi Y, Goi T, Toiyama Y, Tomita N, Sunami E, Akagi Y, Watanabe J, Hakamada K, Nakayama G, Sugihara K, Ajioka Y: A proposed new Japanese classification of synchronous peritoneal metastases from colorectal cancer: A multi-institutional, prospective, observational study conducted by the Japanese Society for Cancer of the Colon and Rectum. *Ann Gastroenterol Surg* 7:765-771, 2023
40. 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



41. Miyamoto Y, Ogawa K, Ohuchi M, Tokunaga R, Baba H: Emerging evidence of immunotherapy for colorectal cancer. *Ann Gastroenterol Surg* 7:216-224, 2023
42. Nakamura I, Hatano E, Baba H, Kamei K, Wada H, Shimizu J, Kanai M, Yoshimura K, Nagano H, Ioka T: Impact of conversion surgery after chemotherapy in patients with initially unresectable and recurrent biliary tract cancer. *Ann Gastroenterol Surg* 7:1009-1020, 2023
43. Baba Y, Hara Y, Toihata T, Kosumi K, Iwatsuki M, Iwagami S, Miyamoto Y, Yoshida N, Komohara Y, Baba H: Relationship between gut microbiome *Fusobacterium nucleatum* and LINE-1 methylation level in esophageal cancer. *Esophagus* 20:704-712, 2023
44. Yoshida N, Eto K, Horinouchi T, Shiraishi S, Kanemitsu K, Ofuchi T, Tajiri T, Adachi Y, Horino T, Morito A, Mitsuura C, Maeda Y, Hara Y, Matsumoto C, Baba H: Prognostic value of (18)F-fluorodeoxyglucose uptake in the bone marrow on pretreatment positron emission tomography/computed tomography in patients with esophageal cancer who underwent esophagectomy. *Esophagus* 20:660-668, 2023
45. Kawata A, Miyamoto Y, Fukubayashi K, Horio T, Miyamoto H, Ogawa K, Ouchi M, Tanaka Y, Baba H: Conversion surgery after Encorafenib plus Cetuximab for chemorefractory BRAF V600E-mutated colorectal cancer with para-aortic lymph node metastases. *In Vivo* 37:1797-1801, 2023
46. Maeda Y, Iwatsuki M, Mitsuura C, Morito A, Ohuchi M, Kosumi K, Eto K, Ogawa K, Baba Y, Iwagami S, Miyamoto Y, Yoshida N, Baba H: Textbook outcome contributes to long-term prognosis in elderly colorectal cancer patients. *Langenbecks Arch Surg* 408:245, 2023
47. Morito A, Iwatsuki M, Maeda Y, Mitsuura C, Hara Y, Matsumoto C, Toihata T, Kosumi K, Eto K, Baba Y, Iwagami S, Miyamoto Y, Yoshida N, Baba H: Textbook outcome contributes to long-term prognosis in older adults with gastric cancer. *Langenbecks Arch Surg* 408:324, 2023
48. Ogawa K, Shiraishi Y, Karashima R, Nitta H, Masuda T, Matsumoto K, Sawayama H, Miyamoto Y, Baba H, Takamori H: Prolonged door-to-antibiotics time is associated with high hospital mortality in patients with perforated colorectal peritonitis. *Langenbecks Arch Surg* 408:220, 2023
49. Arima K, Uemura N, Tsuneyoshi K, Fujita H, Kuroki H, Uemura S, Hanada N, Baba H,

Komohara Y: Microsatellite instability-high signet ring cell carcinoma of the colon treated with immunotherapy: Report of a Case. *Anticancer Res* 43:4729-4733, 2023

50. 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
51. 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* 16:546-549, 2023
52. 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
53. Ijima H, Fukuda Y, Uehara MK, Shafiq M, Wu FQ, Cho JY, Sakai Y, Miyata T, Yamao T, Nakao Y, Kuroda Y, Motomura T, Yamashita YI, Baba H: Decellularized mouse liver as a small-scale scaffold for the creation of a miniaturized human liver. *J Chem Eng Jpn* 56, 2023
54. Horino T, Miyamoto Y, Ohuchi M, Ogawa K, Yoshida N, Ishiko T, Kakinaka C, Sasaki R, Ohba T, Baba H: Repeated intestinal perforations in vascular Ehlers-Danlos syndrome: a case report of a novel mutation in the COL3A1 gene. *Surg Case Rep* 9:78, 2023
55. Omachi K, Imai K, Nakao Y, Nakamura H, Kaida T, Shiraishi Y, Itoyama R, Nitta H, Hayashi H, Asato T, Mikami Y, Baba H: A surgical resection of hepatic granuloma mimicking intrahepatic cholangiocarcinoma: a case report. *Int Cancer Conf J* 12:195-199, 2023
56. 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* 85:596-601, 2023
57. 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

58. Fujiwara N, Kubota N, Zhu S, Nakagawa S, Baba H, Hoshida Y: Disseminative recurrence signature for hepatocellular carcinoma from nonalcoholic fatty liver disease. *Gastro Hep Advances* 2:681-683, 2023
59. Wu X, Iwatsuki M, Takaki M, Saito T, Hayashi T, Kondo M, Sakai Y, Gotohda N, Tanaka E, Nishida T, Baba H: FBXW7 regulates the sensitivity of imatinib in gastrointestinal stromal tumors by targeting MCL1. *Gastric Cancer*, 2023 Dec 24. doi: 10.1007/s10120-023-01454-6. Online ahead of print.
60. Lou M, Iwatsuki M, Wu X, Zhang W, Matsumoto C, Baba H: ASO Author Reflections: The significance of IL-8 expression in cancer-associated fibroblast of gastric cancer. *Ann Surg Oncol*, 2023 Dec 12. doi: 10.1245/s10434-023-14660-4. Online ahead of print.
61. Lou M, Iwatsuki M, Wu X, Zhang W, Matsumoto C, Baba H: Cancer-associated fibroblast-derived IL-8 upregulates PD-L1 expression in gastric cancer through the NF-kappaB pathway. *Ann Surg Oncol*, 2023 Nov 25. doi: 10.1245/s10434-023-14586-x. Online ahead of print.
62. Takematsu T, Mima K, Hayashi H, Kitano Y, Nakagawa S, Hiyoshi Y, Okabe H, Imai K, Miyamoto Y, Baba H: RAS mutation status in combination with the JSHBPS nomogram may be useful for preoperative identification of colorectal liver metastases with high risk of recurrence and mortality after hepatectomy. *J Hepatobiliary Pancreat Sci*, 2023 Oct 27. doi: 10.1002/jhbp.1389. Online ahead of print.
63. Morito A, Eto K, Iwatsuki M, Toihata T, Kosumi K, Iwagami S, Baba Y, Miyamoto Y, Yoshida N, Baba H: Clinical impact of very early recurrence after conversion surgery for stage IV gastric cancer. *Ann Gastroenterol Surg*, Sep 14. doi: org/10.1002/ags3.12738. Online ahead of print.
64. Yonemura A, Semba T, Zhang J, Fan Y, Yasuda-Yoshihara N, Wang H, Uchihara T, Yasuda T, Nishimura A, Fu L, Hu X, Wei F, Kitamura F, Akiyama T, Yamashita K, Eto K, Iwagami S, Iwatsuki M, Miyamoto Y, Matsusaki K, Yamasaki J, Nagano O, Saya H, Song S, Tan P, Baba H, Ajani JA, Ishimoto T: Mesothelial cells with mesenchymal features enhance peritoneal dissemination by forming a protumorigenic microenvironment. *Cell Rep* 43:113613, 2024
65. Baba Y, Yasuda N, Bundo M, Nakachi Y, Ueda J, Ishimoto T, Iwatsuki M, Miyamoto Y, Yoshida

- N, Oshiumi H, Iwamoto K, Baba H: LINE-1 hypomethylation, increased retrotransposition and tumor-specific insertion in upper gastrointestinal cancer. *Cancer Sci* 115:247-256, 2024
66. Mima K, Hayashi H, Adachi Y, Tajiri T, Ofuchi T, Kanemitsu K, Ogawa D, Yumoto S, Matsumoto T, Itoyama R, Kitano Y, Nakagawa S, Okabe H, Baba H: Patient vulnerability is associated with poor prognosis following upfront hepatectomy for colorectal liver metastasis. *Int J Clin Oncol* 29:47-54, 2024
67. Kitano Y, Ono Y, Kobayashi K, Oba A, Sato T, Ito H, Inoue Y, Shinozaki E, Yamaguchi K, Saiura A, Baba H, Takahashi Y: Neoadjuvant chemotherapy for borderline resectable colorectal cancer liver metastases: a single-institution retrospective study. *HPB* 26:282-290, 2024
68. Mima K, Hayashi H, Maruno M, Yumoto S, Matsumoto T, Tsukamoto M, Miyata T, Nakagawa S, Nitta H, Imai K, Baba H: Perioperative disabilities in activities of daily living are associated with worse prognosis after hepatectomy for colorectal liver metastasis. *HPB* 26:203-211, 2024
69. Horino T, Tokunaga R, Miyamoto Y, Akiyama T, Daitoku N, Sakamoto Y, Ohuchi M, Ogawa K, Yoshida N, Baba H: Extracellular water to total body water ratio, a novel predictor of recurrence in patients with colorectal cancer. *Ann Gastroenterol Surg* 8:98-106, 2024
70. Li L, Kanemitsu K, Ohnishi K, Yamada R, Yano H, Fujiwara Y, Miyamoto Y, Mikami Y, Hibi T, Baba H, Komohara Y: CXCL10 expression in human colorectal cancer tissue and its correlation with serum levels of CXCL10. *Cancer Genomics Proteomics* 21:54-64, 2024
71. Ogawa D, Miyata T, Yumoto S, Shiraishi Y, Matsumoto T, Takematsu T, Tsukamoto M, Nakagawa S, Mima K, Nitta H, Hayashi H, Baba H: Prognostic value of preoperative geriatric nutritional risk index in intrahepatic cholangiocarcinoma after hepatectomy: a single-center retrospective cohort study. *Langenbecks Arch Surg* 409:47, 2024
72. Kato M, Sawayama H, Komohara Y, Hisano Y, Nakamura H, Ohuchi M, Ogawa K, Miyamoto Y, Yoshida N, Baba H: Complete pathologic response after laparoscopic hepatectomy following treatment with nivolumab and ipilimumab for anticancer drug-resistant MSI-high colon cancer liver metastasis consisting of poorly differentiated adenocarcinoma with squamous differentiation: A case report. *Clin J Gastroenterol* 17:57-64, 2024
73. Horinouchi T, Yoshida N, Shiraishi S, Hara Y, Matsumoto C, Toihata T, Kosumi K, Harada K,

Eto K, Ogawa K, Sawayama H, Iwatsuki M, Baba Y, Miyamoto Y, Baba H: Relationship between the severity of emphysematous change in the lung and morbidity after esophagectomy for esophageal cancer: A retrospective study on a novel strategy for risk prediction. *Thorac Cancer* 15:15-22, 2024

74. Qin XY, Shirakami Y, Honda M, Yeh SH, Numata K, Lai YY, Li CL, Wei F, Xu Y, Imai K, Takai K, Chuma M, Komatsu N, Furutani Y, Gailhouste L, Aikata H, Chayama K, Enomoto M, Tateishi R, Kawaguchi K, Yamashita T, Kaneko S, Nagaoka K, Tanaka M, Sasaki Y, Tanaka Y, Baba H, Miura K, Ochi S, Masaki T, Kojima S, Matsuura T, Shimizu M, Chen P, Moriwaki H, Suzuki H: Serum MYCN as a predictive biomarker of prognosis and therapeutic response in the prevention of hepatocellular carcinoma recurrence. *Int J Cancer*, in press

10) 分子薬理学講座

1. Hinokuma, H., Kanamori, Y., Ikeda, K., Hao, L., Maruno, M., Yamane, T., Maeda, A., Nita, A., Shimoda, M., Niimura, M., Takeshima, Y., Li, S., Suzuki, M., and Moroishi, T.: Distinct functions between ferrous and ferric iron in lung cancer cell growth. *Cancer Sci.* 114: 4355-4364, 2023

11) 幹細胞ストレス学講座

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

1. Koga Y, Kajitani N, Miyako K, **Takizawa H**, Boku S, Takebayashi M, TCF7L2: A potential key regulator of antidepressant effects on hippocampal astrocytes in depression model mice. *J Psychiatr Res.*, 2024 Jan 6:170:375-386. doi: 10.1016/j.jpsychires.2024.01.007.
2. Miyako K, Kajitani N, Koga Y, **Takizawa H**, Boku S, Takebayashi M. Identification of the antidepressant effect of electroconvulsive stimulation-related genes in hippocampal astrocyte. *J Psychiatr Res.*, 2024 Jan 4:170:318-327. doi: 10.1016/j.jpsychires.2024.01.004.
3. Morishima T, Takahashi K, Chin D, Tokunaga K, Arima Y, Matsuoka M, Suda T, **Takizawa H\***. Phospholipid metabolic adaptation promotes survival of IDH2 mutant AML cells. *Cancer Sci.*, 2024 Jan;115(1):197-210. doi: 10.1111/cas.15994. Epub 2023
4. Wang Y, Morishima T, Sezaki M, Sato R, Nakato G, Fukuda S, Kobiyama K, Ishii KJ, Li Y, **Takizawa H\***. Akkermansia muciniphila induces slow extramedullary hematopoiesis via cooperative IL-1R/TLR signals. *EMBO Rep.*, 2023 Dec 6;24(12):e57485. doi: 10.15252/embr.202357485. Epub 2023 Oct 23.

5. Zhang YW, Velasco-Hernandez T, Mess J, Lalioti ME, Romero-Mulero MC, Obier N, Karantzelis N, Rettkowski J, Schönberger K, Karabacz N, Jäcklein K, Morishima T, Trincado JL, Romecin P, Martinez-Moreno A, **Takizawa H**, Shoumariyeh K, Renders S, Zeiser R, Pahl HL, Béliveau F, Hébert J, Lehnertz B, Sauvageau G, Menendez P, Cabezas-Wallscheid N. GPRC5C Drives Branched-Chain Amino Acid Metabolism in Leukemogenesis *Blood Adv.*, 2023 Aug 28;bloodadvances. 2023010460. doi: 10.1182/bloodadvances.2023010460.
  6. Yamamoto T, Tsunedomi R, Nakajima M, Suzuki N, Yoshida S, Tomochika S, Xu M, Nakagami Y, Matsui H, Tokumitsu Y, Shindo Y, Watanabe Y, Iida M, Takeda S, Hazama S, Tanabe T, Ioka T, Hoshii Y, Kiyota A, **Takizawa H**, Kawakami Y, Ueno T, Nagano H\*. IL-6 Levels Correlate with Prognosis and Immunosuppressive Stromal Cells in Patients with Colorectal Cancer. *Ann Surg Oncol.*, 2023 Aug;30(8):5267-5277. doi: 10.1245/s10434-023-13527-y.
  7. Flahou C, Morishima T, Higashi N, Hayashi Y, Xu H, Wang B, Zhang C, Ninomiya A, Qiu W-Y, Yuzuriha A, Suzuki D, Nakamura S, Manz M, Kaneko S, Hotta A, **Takizawa H**, Eto K\*, Sugimoto N\*. Humanized mouse models with endogenously developed human natural killer cells for *in vivo* immunogenicity testing of HLA class I-edited iPSC-derived cells. *Biochem Biophys Res.*, 2023 Jun 25;662:76-83. doi: 10.1016/j.bbrc.2023.04.067.
  8. Yokomizo-Nakano T, Hamashima A, Kubota S, Bai J, Sorin S, Sun Y, Kikuchi K, Morii M, Iimori M, Kanai A, Iwama A, Huang G, Kurotaki D, **Takizawa H**, Matsui H, Sashida G. Exposure to microbial products followed by loss of Tet2 promotes myelodysplastic syndrome via remodeling HSCs. *J Exp Med.*, 2023 Jul 3;220(7):e20220962. doi: 10.1084/jem.20220962. Epub 2023 Apr 18.
  9. 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.*, 2023 Jan 11;15(1):e15631. doi: 10.15252/emmm.202115631.
- 12) 消化器内科学講座
1. Hayama K, Atsukawa M, Tsubota A, Kondo C, Iwasa M, Hasegawa H, Takaguchi K, Tsutsui A, 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; KTK49 Liver Study Group: Clinical outcomes of antithrombin III-based therapy for patients with portal vein thrombosis: A retrospective, multicenter study.

*Hepatol Res.* 53: 51-60, 2023.

2. 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

3. Janssen HLA, Hou J, Asselah T, Chan HLY, Zoulim F, Tanaka Y, Janczewska E, Nahass RG, Bourgeois S, Buti M, Lampertico P, Lenz O, Verbinnen T, Vandenbossche 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.* 72: 1385-1398, 2023

4. Sugahara G, Ishida Y, Lee JJ, Li M, Tanaka Y, Eoh H, Higuchi Y, Saito T: Long-Term Cell Fate and Functional Maintenance of Human Hepatocyte through Stepwise Culture Configuration.

*FASEB J.* 37: e22750, 2023

5. Mizuochi T, Iwama I, Inui A, Ito Y, Takaki Y, Mushiake S, Tokuhara D, Ishige T, Ito K, Murakami J, Hishiki H, Mikami H, Bessho K, Kato K, Yasuda R, Yamashita Y, Tanaka Y, Tajiri H: Real-world efficacy and safety of glecaprevir/pibrentasvir in Japanese adolescents with chronic hepatitis C: a prospective multicenter study.

*J Gastroenterol.* 58: 405-412, 2023

6. Wong D K-H, Inoue T, Mak L-Y 1, Hui R W-H, Fung J, Cheung K-S, Seto W-K, Tanaka Y, Yuen M-F: A longitudinal study to detect hepatitis B surface and core-related antigens in chronic hepatitis B patients with hepatitis B surface antigen seroclearance using highly sensitive assays.

*J Clin Virol.* 160: 105375, 2023

7. Suzuki T, Matsuura K, Urakabe K, Okumura F, Kawamura H, Sobue S, Matoya S, Miyaki T, Kimura Y, Kato D, Kusakabe A, Tanaka Y, Ozasa A, Nagura Y, Fujiwara K, Nojiri S, Hagiwara

S, Kusumoto S, Inoue T, Tanaka Y, Kataoka H: Outcome of nucleos(t)ide analog cessation in patients with treatment for prevention of or against hepatitis B virus reactivation.

*Hepatol Res.* 53: 289-300, 2023

8. Huang DQ, Tran A, Yeh ML, Yasuda S, Tsai PC, Huang CF, Dai CY, Ogawa E, Ishigami M, Ito T, Kozuka R, Enomoto M, Suzuki T, Yoshimaru Y, Preda CM, Marin RI, Sandra I, Tran S, Quek SX, Khine HHTW, Itokawa N, Atsukawa M, Uojima H, Watanabe T, Takahashi H, Inoue K, Maeda M, Hoang JK, Trinh L, Barnett S, Cheung R, Lim SG, Trinh HN, Chuang WL, Tanaka Y, Toyoda H, Yu ML, Nguyen MH: Antiviral therapy substantially reduces hepatocellular carcinoma risk in chronic Hepatitis B patients in the indeterminate phase.

*Hepatology* 78: 1558-1568, 2023

9. Takamatsu Y, Hayashi S, Kumamoto H, Imoto S, Tanaka Y, Mitsuya H, Higashi-Kuwata N: A novel anti-HBV agent, E-CFCP, restores Hepatitis B virus (HBV)-induced senescence-associated cellular marker perturbation in human hepatocytes.

*Virus Res.* 329: 199094, 2023

10. Chida T, Ishida Y, Morioka S, Sugahara G, Han C, Lam B, Yamasaki C, Sugahara R, Li M, Tanaka Y, Liang TJ, Tateno C, Saito T: Persistent hepatic IFN system activation in HBV-HDV infection determines viral replication dynamics and therapeutic response.

*JCI Insight.* 8: e162404, 2023

11. Kumamoto H, Higashi-Kuwata N, Hayashi S, Das D, Bulut H, Tokuda R, Imoto S, Onitsuka K, Honda Y, Odanaka Y, Shimbara-Matsubayashi S, Haraguchi K, Tanaka Y, Mitsuya H: Synthesis of novel entecavir analogues having 4'-cyano-6"-fluoromethylenecyclopentene skeletons as an aglycone moiety as highly potent and long-acting anti-hepatitis B virus agent.

*RSC Adv.* 13: 15999-16011, 2023

12. Furuta Y, Gushima R, Naoe H, Honda M, Tsuruta Y, Nagaoka K, Watanabe T, Tateyama M, Fujimoto N, Hirata S, Miyagawa E, Sakata K, Mizuhashi Y, Iwakura M, Murai M, Matsuoka M, Komohara Y, Tanaka Y. Possible Association of Mutations in the MEFV Gene with the Intestinal Phenotype of Behçet's Disease and Refractoriness to Treatment.

*J Clin Med.* 12: 3131, 2023

13. Yoshinari M, Hijioka S, Nagashio Y, Maruki Y, Ohba A, Kawasaki Y, Takeshita K, Morizane C, Tanaka Y, Okusaka T: Comparison of the hybrid and partial stent-in-stent method for endoscopic three-segment drainage for unresectable malignant hilar biliary obstruction.



*Endosc Int Open. 11:* E276-E283, 2023

14. Matoya S, Suzuki T, Matsuura K, Suzuki Y, Okumura F, Nagura Y, Sobue S, Kuroyanagi K, Kusakabe A, Koguchi H, Hasegawa I, Miyaki T, Tanaka Y, Kondo H, Kimura Y, Ozasa A, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Kataoka H; Sakurayama Liver Study Group (SLSG): The neutrophil-to-lymphocyte ratio at the start of the second course during atezolizumab plus bevacizumab therapy predicts therapeutic efficacy in patients with advanced hepatocellular carcinoma: A multicenter analysis.

*Hepatol Res. 53:* 511-521, 2023

15. Fujimoto N, Nagaoka K, Tatsuno I, Oishi H, Tomita M, Hasegawa T, Tanaka Y, Matsumoto T: Wavelength dependence of ultraviolet light inactivation for SARS-CoV-2 omicron variants.

*Sci Rep. 13:* 9706, 2023

16. Kitagawa K, Kim KS, Iwamoto M, Hayashi S, Park H, Nishiyama T, Nakamura N, Fujita Y, Nakaoka S, Aihara K, Perelson AS, Allweiss L, Dandri M, Watashi K, Tanaka Y, Iwami S. Multiscale modeling of HBV infection integrating intra- and intercellular viral propagation for analyzing extracellular viral markers.

*bioRxiv.* 06.06.543822, 2023

17. Kawakami Y, Ishihara R, Matsuno K, Waki K, Shichijo S, Yoshii S, Kanekata T, Yamamoto S, Takeuchi Y, Higashino K, Uedo N, Michida T, Tanaka Y: Multiple foci of dilated vessels as a new predictor of metachronous esophageal cancer.

*Dig Endosc.* 2023 in press

18. Chuaypen N, Jinato T, Avihingsanon A, Nookaew I, Tanaka Y, Tangkijvanich P: Long-term benefit of DAAs on gut dysbiosis and microbial translocation in HCV-infected patients with and without HIV coinfection.

*Sci Rep. 13:* 14413, 2023

19. Chau A, Yeh ML, Tsai PC, Huang DQ, Kim SE, Trinh H, Yoon EL, Oh H, Jeong JY, Ahn SB, An J, Tseng CH, Hsu YC, Jeong SW, Cho YK, Shim JJ, Kim HS, Ito T, Marciano S, Kawashima K, Suzuki T, Watanabe T, Nozaki A, Ishikawa T, Inoue K, Eguchi Y, Uojima H, Abe H, Takahashi H, Chuma M, Ishigami M, Hoang JK, Maeda M, Huang CF, Gadano A, Dai CY, Huang JF, Tanaka Y, Chuang WL, Lim SG, Cheung R, Yu ML, Jun DW, Nguyen MH: Sex Differences in

Treatment Response to Nucleos(t)ide Therapy in Chronic Hepatitis B: A Multicenter Longitudinal Study.

*Clin Gastroenterol Hepatol.* 2023 in press

20. Suzuki T, Matsuura K, Watanabe T, Matsui T, Ogawa S, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Kataoka H, Tanaka Y: Kinetics of HBcrAg and HBsAg using highly sensitive iTACT assays in chronic hepatitis B patients with HBsAg seroclearance.

*J Med Virol.* 95: e29109, 2023

21. Kugiyama N, Hashigo S, Nagaoka K, Watanabe T, Ushijima S, Uramoto Y, Yoshinari M, Morinaga J, Gushima R, Tateyama M, Tanaka M, Naoe H, Sugawara Y, Hibi T, Tanaka Y: Clinical usefulness of inside stents in anastomotic biliary strictures after liver transplantation.

*DEN Open.* 4: e305, 2023

22. Inoue T, Watanabe T, Tanaka Y: Hepatitis B core-related antigen: A novel and promising surrogate biomarker to guide anti-hepatitis B virus therapy.

*Clin Mol Hepatol.* 29: 851-868, 2023

23. Wong YJ, Tran S, Huang CF, Hsu YC, Preda C, Toyoda H, Liu J, Jun DW, Landis C, Huang DQ, Gila A, Negoita L, Yasuda S, Tseng CH, Tsai PC, Uojima H, Nozaki A, Chuma M, Atsukawa M, Ishigami M, Itokawa N, Iio E, Lam CP, Watanabe T, Asai A, Yokohama K, Abe H, Enomoto M, Kawada N, Tamori A, Lee DH, Jun MJ, Do S, Vo DKH, Liu L, Li J, Ji F, Wang W, Li Y, Wang X, Guo F, Xu Q, Jing L, Ye Q, Pan H, Zhang J, Wen X, Wang Q, Ren H, Cai D, Shang J, Liu J, Lu C, Zang W, Li J, Niu J, Zhang M, Wu C, Huang R, Maeda M, Nakanishi A, Yeh ML, Chuang WL, Huang JF, Dai C, Ishikawa T, Takaguchi K, Senoh T, Trinh HN, Takahashi H, Eguchi Y, Quek SXZ, Haga H, Ogawa E, Wong G, Buti M, Fukunishi S, Ueno Y, Yuen MF, Tanaka Y, Lim SG, Cheung R, Yu ML, Nguyen MH: Real-world treatment outcome with protease inhibitor direct-acting antiviral in advanced hepatitis C cirrhosis: a REAL-C study.

*Hepatol Int.* 17: 1150-1161, 2023

24. Shiraishi K, Nakaura T, Uetani H, Nagayama Y, Kidoh M, Kobayashi N, Morita K, Yamahita Y, Tanaka Y, Baba H, Hirai T: Deep learning-based reconstruction and 3D hybrid profile order technique for MRCP at 3T: evaluation of image quality and acquisition time.

*Eur Radiol.* 33: 7585-7594, 2023

25. Yoshimaru Y, Nagaoka K, Tanaka K, Narahara S, Inada H, Kurano S, Tokunaga T, Iio E, Watanabe T, Setoyama H, Tateyama M, Yoshida K, Tsunoda T, Nakamura Y, Tanaka M, Sasaki Y, Tanaka Y: Randomized phase I/II study of vascular endothelial growth factor receptor peptide vaccines for patients with hepatocellular carcinoma.  
*Hepatol Res.* 2023 in press
26. Setoyama H, Nishida N, Nagashima S, Ko K, Yamazoe T, Tanaka Y, Mizokami M, Tanaka J, Kanto T: Dried blood spot-based host genome analysis technique targeting pathological associations with hepatitis B: Development and clinical application in the Cambodian population.  
*Hepatol Res.* 53: 1147-1155, 2023
27. Suzuki T, Matsuura K, Suzuki Y, Okumura F, Nagura Y, Sobue S, Matoya S, Miyaki T, Kimura Y, Kusakabe A, Narahara S, Tokunaga T, Nagaoka K, Kuroyanagi K, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Kataoka H, Tanaka Y: Serum CXCL10 levels at the start of the second course of atezolizumab plus bevacizumab therapy predict therapeutic efficacy in patients with advanced BCLC stage C hepatocellular carcinoma: A multicenter analysis.  
*Cancer Med.* 13: e6876, 2023
28. Waki K, Matsuno K, Miyamoto H, Gushima R, Takeda H, Orita Y, Tanaka Y. Pharyngeal endoscopic submucosal dissection for a pyriform sinus lesion extending beyond the arytenoid to the vocal folds.  
*Endoscopy.* 55(S 01): E242-E243, 2023
29. Huang DQ, Hoang JK, Kamal R, Tsai PC, Toyoda H, Yeh ML, Yasuda S, Leong J, Maeda M, Huang CF, Won Jun D, Ishigami M, Tanaka Y, Uojima H, Ogawa E, Abe H, Hsu YC, Tseng CH, Alsudaney M, Yang JD, Yoshimaru Y, Suzuki T, Liu JK, Landis C, Dai CY, Huang JF, Chuang WL, Schwartz M, Dan YY, Esquivel C, Bonham A, Yu ML, Nguyen MH: Antiviral Therapy Utilization and 10-Year Outcomes in Resected Hepatitis B Virus- and Hepatitis C Virus-Related Hepatocellular Carcinoma.  
*J Clin Oncol.* 2024 in press
30. Sonneveld MJ, Chiu SM, Park JY, Brakenhoff SM, Kaewdech A, Seto WK, Tanaka Y, Carey I, Papatheodoridi M, Colombatto P, van Bömmel F, Janssen HL, Berg T, Zoulim F, Ahn SH, Dalekos GN, Erler NS, Brunetto M, Wedemeyer H, Cornberg M, Yuen MF, Agarwal K, Boonstra A, Buti M, Piratvisuth T, Papatheodoridis G, Chen CH, Maasoumy B; CREATE Study Group: HBV DNA and HBsAg Levels at 24 Weeks Off-Treatment Predict Clinical Relapse and HBsAg Loss in HBeAg-Negative Patients Who Discontinued Antiviral Therapy.

*Gastroenterology*. 166: 168-177, 2024

31. Ogawa E, Jun DW, Toyoda H, Hsu YC, Yoon EL, Ahn SB, Yeh ML, Do S, Trinh HN, Takahashi H, Enomoto M, Kawada N, Yasuda S, Tseng CH, Kawashima K, Lee HA, Inoue K, Haga H, Do AT, Maeda M, Hoang JH, Cheung R, Ueno Y, Eguchi Y, Furusyo N, Yu ML, Tanaka Y, Nguyen MH: Increased spine bone density in patients with chronic hepatitis B switched to tenofovir alafenamide: A prospective, multinational study.

*Aliment Pharmacol Ther*. 59: 239-248, 2024

32. Suzuki T, Matsuura K, Nagura Y, Kawamura H, Fujiwara K, Ogawa S, Nagaoka K, Iio E, Watanabe T, Kataoka H, Tanaka Y: Serum angiopoietin-2 levels predict the development of hepatocellular carcinoma following hepatitis C virus eradication using direct-acting antiviral agents.

*Oncology*. 2024 in press

33. Park JE, Nguyen VH, Tsai PC, Toyoda H, Leong J, Guy JE, Yeh ML, Huang CF, Yasuda S, Abe H, Hsu YC, Tseng CH, Liu J, Chen YL, Lin PY, Jun DW, Yoshimaru Y, Ogawa E, Ishigami M, Enomoto M, Tamori A, Uojima H, Wang XZ, Xu Q, Takahashi H, Eguchi Y, Inoue K, Huang DQ, Zhao WJ, Chuang WL, Dai CY, Huang JF, Barnett S, Maeda M, Cheung R, Landis C, Tanaka Y, Roberts LR, Schwartz ME, Kumada T, Yu ML, Nguyen MH: Racial and ethnic disparities in untreated patients with hepatitis C virus-related hepatocellular carcinoma but not in those with sustained virologic response.

*Aliment Pharmacol Ther*. 2024 in press

34. Toyoda H, Tada T, Uojima H, Nozaki A, Chuma M, Takaguchi K, Hiraoka A, Abe H, Itobayashi E, Matsuura K, Atsukawa M, Watanabe T, Shimada N, Nakamuta M, Kojima M, Tsuji K, Mikami S, Ishikawa T, Yasuda S, Tsutsui A, Arai T, Kumada T, Tanaka Y, Tanaka J, Chayama K: Comparison of six hepatocellular carcinoma prediction models in Japanese patients after sustained virologic response undergoing rigorous surveillance for hepatocellular carcinoma.

*J Gastroenterol Hepatol*. 2024 in press

35. Nagura Y, Suzuki T, Matsuura K, Ogawa S, Kawamura H, Kuno K, Fujiwara K, Nojiri S, Nagaoka K, Iio E, Watanabe T, Kataoka H, Tanaka Y: Serum inducible protein 10 kDa/C-X-C motif chemokine 10 levels predict regression of M2BPGi-based liver fibrosis after hepatitis C virus eradication by direct-acting antiviral agents.

*Hepatol Res*. 2024 in press

36. Nagaoka K, Bai X, Liu D, Cao K, Mulla J, Ji C, Chen H, Nisar MA, Bay A, Mueller W, Hildebrand G, Gao JS, Lu S, Setoyama H, Tanaka Y, Wands JR, Huang CK: Elevated 2-oxoglutarate antagonizes DNA damage responses in cholangiocarcinoma chemotherapy through regulating aspartate beta-hydroxylase.  
*Cancer Lett.* 2024 in press
37. Watanabe T, Hayashi S, Zhaoyu Y, Inada H, Nagaoka K, Tateyama M, Tanaka Y: A novel, small anti-HBV compound reduces HBsAg and HBV-DNA by destabilizing HBV-RNA.  
*J Gastroenterol.* 2024 in press
38. Cooke GS, Flower B, Cunningham E, Marshall AD, Lazarus JV, Palayew A, Jia J, Aggarwal R, Mahtab MA, Tanaka Y, Jeong SH, Poovorawan K, Waked I, Hiebert L, Khue PM, Grebely J, Payawal DA, Sanchez-Avila AF, Mbendi C, Muljono DH, Lesi O, Desalegn H, Hamid S, Araujo A, Cheinquer H, Onyekwere CA, Malyuta R, Ivanchuk I, Thomas DL, Pimenov N, Chulanov V, Dirac MA, Han H, Ward JW: Progress towards elimination of viral hepatitis: a Lancet Gastroenterology & Hepatology Commission update  
*The Lancet Gastroenterology & Hepatology 2024 Published Online February 14, 2024*
39. Qin XY, Shirakami Y, Honda M, Yeh SH, Numata K, Lai YY, Li CL, Wei F, Xu Y, Imai K, Takai K, Chuma M, Komatsu N, Furutani Y, Gailhouste L, Aikata H, Chayama K, Enomoto M, Tateishi R, Kawaguchi K, Yamashita T, Kaneko S, Nagaoka K, Tanaka M, Sasaki Y, Tanaka Y, Baba H, Miura K, Ochi S, Masaki T, Kojima S, Matsuura T, Shimizu M, Chen PJ, Moriwaki H, Suzuki H: Serum MYCN as a predictive biomarker of prognosis and therapeutic response in the prevention of hepatocellular carcinoma recurrence.  
*Int J Cancer.* 2024 in press

○がん・幹細胞研究部門

13) 脳神経内科学講座

1. 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. <sup>99m</sup>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
2. 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*, 306: e220542, 2023

3. Goto M, Tasaki M, Ueda M. Early onset Congo red-positive fibrillary glomerulonephritis associated with glomerular DNAJB9 deposits mimicking renal amyloidosis. *Pathol Int*, 73: 106-108, 2023
4. 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*, 30: 67-73, 2023
5. 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*, 30: 403-404, 2023
6. Hirai T, Abe O, Nakamura M, Inui S, Uetani H, Ueda M, Azuma M. Brain structural changes in patients with chronic methylmercury poisoning in Minamata. *Brain Res*, 1805: 148278, 2023
7. 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*, 9: 101734, 2023
8. Murakami Y, Wei F, Kawamura Y, Horiguchi H, Kadomatsu T, Miyata K, Miura K, Oike Y, Ando Y, Ueda M, Tomizawa K, Chujo T. NSUN3-mediated mitochondrial tRNA 5-formylcytidine modification is essential for embryonic development and respiratory complexes in mice. *Commun Biol*, 6: 307, 2023
9. Nagayama Y, Iwashita K, Maruyama N, Uetani H, Goto M, Sakabe D, Emoto T, Nakato K, Shigematsu S, Kato Y, Takada S, Kidoh M, Oda S, Nakaura T, Hatemura M, Ueda M, Mukasa A, Hirai T. Deep learning-based reconstruction can improve the image quality of low radiation dose head CT. *Eur Radiol*, 33: 3253-3265, 2023
10. Kidoh M, Oda S, Takashio S, Kawano Y, Hayashi H, Emoto T, Shigematsu S, Yoshimura F, Nakaura T, Nagayama Y, Matsuoka M, Ueda M, Tsujita K, Hirai T. Cardiac MRI-derived extracellular volume fraction versus myocardium-to-lumen R1 ratio on post-contrast T1 mapping for detecting cardiac amyloidosis. *Radiol Cardiothorac Imaging*, 5: e220327, 2023

11. Tahara S, Kohyama M, Nakamitsu A, Sugiyama Y, Tazaki T, Taogoshi H, Komo T, Yamaguchi T, Ueda M, Ishikawa A, Takahashi S, Sasaki M. Surgical strategies for localized colorectal amyloidosis. *Surg Case Rep*, 9:66, 2023
12. Usuku H, Yamamoto E, Sueta D, Noguchi M, Fujisaki T, Egashira K, Oike F, Fujisue K, Hanatani S, Arima Y, Takashio S, Kawano Y, Oda S, Kawano H, Matsushita K, Ueda M, Matsui H, Matsuoka M, Tsujita K. Prognostic value of right ventricular global longitudinal strain in patients with immunoglobulin light-chain cardiac amyloidosis. *Eur Heart J Open*, 3: oead048, 2023
13. 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-99m pyrophosphate scintigraphy. *J Nucl Cardiol*, 30: 2215-2221, 2023
14. Takeuchi Y, Nomura T, Nakahara K, Ueda M. Autoimmune polyglandular syndrome with refractory gait disturbance. *Intern Med*, 62: 2133-2137, 2023
15. 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*, 15: 1-6, 2023
16. Naiki H, Yamaguchi A, Sekijima Y, Ueda M, Ohashi K, Hatakeyama K, Ikeda Y, Hoshii Y, Shintani-Domoto Y, Miyagawa-Hayashino A, Tsujikawa H, Endo J, Arai T, Ando Y. Steep increase in the number of transthyretin-positive cardiac biopsy cases in Japan: evidence obtained by the nation-wide pathology consultation for the typing diagnosis of amyloidosis. *Amyloid*, 30: 321-326, 2023
17. Yamashita S, Nagatoshi A, Takeuchi Y, Nishino I, Ueda M. Myopathic changes caused by protein aggregates in adult-onset spinal muscular atrophy. *Neuropathology*, 43: 408-412, 2023
18. Takashio S, Morioka M, Ishii M, Morikawa K, Hirakawa K, Hanatani S, Oike F, Usuku H, Kidoh M, Oda S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Clinical characteristics, outcome, and therapeutic effect of tafamidis in wild-type transthyretin amyloid cardiomyopathy. *ESC Heart Fail*, 10: 2319-2329, 2023

19. Takashio S, Kato T, Tashima H, Irie H, Komohara Y, Oguni T, Morikawa K, Kuyama N, Tabata N, Hanatani S, Yamamoto E, Matsushita K, Ueda M, Tsujita K. Prevalence of cardiac amyloidosis in patients undergoing carpal tunnel release with amyloid deposition. *Circ J*, 87: 1047-1055, 2023
20. Nomura T, Fujiki F, Ueda M. Popeye's sign in hereditary transthyretin amyloidosis. *JAMA Neurol*, 80: 998-999, 2023
21. Usuku H, Yamamoto E, Imamura K, Fujisaki T, Egashira K, Komorita T, Oike F, Ishii M, Fujisue K, Hanatani S, Sueta D, Arima Y, Takashio S, Oda S, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Usefulness of automatic assessment of longitudinal strain to diagnose transthyretin amyloid cardiomyopathy. *Int J Cardiol Heart Vasc*, 47: 101227, 2023
22. Kido J, Egami K, Misumi Y, Sugawara K, Tsuchida N, Matsumoto N, Ueda M, Nakamura K. X-linked intellectual disability related to a novel variant of KLHL15. *Hum Genome Var*, 10:21, 2023
23. Yamashita S, Tawara N, Hara K, Ueda M. Gender differences in clinical features at the initial examination of late-onset amyotrophic lateral sclerosis. *J Neurol Sci*, 451: 120697, 2023
24. Namitome S, Uchida K, Shindo S, Yoshimura S, Sakai N, Yamagami H, Toyoda K, Matsumaru Y, Matsumoto Y, Kimura K, Ishikura R, Inoue M, Beppu M, Sakakibara F, Shirakawa M, Ueda M, Morimoro T, for the RESCUE-Japan LIMIT Investigators. Number of passes of endovascular therapy for stroke with a large ischemic core: Secondary analysis of RESCUE-Japan LIMIT. *Stroke*, 54: 1985-1992, 2023
25. Kutsuzawa N, Takiguchi H, Ikoma H, Kumaki N, Nagai T, Ueda M, Ono Y, Horio Y, Niimi K, Hayama N, Ito Y, Oguma T, Asano K. Nodular pulmonary amyloidosis preceding gastric mucosa-associated lymphoid tissue lymphoma, initially suspected to be lung cancer. *Tokai J Exp Clin Med*, 48: 91-94, 2023
26. Ticao S, Aldinc E, Polydefkis M, Adams D, Coelho T, Ueda M, Hale C, Vest J, Nioi P, Patisiran Global OLE study group. Treatment response and neurofilament light chain levels with long-term patisiran in hereditary transthyretin-mediated amyloidosis with polyneuropathy: 24 months results of an open-label extension study. *Amyloid*, 2023 (in press)
27. Hayashi H, Oda S, Kidoh M, Yamaguchi S, Yoshimura F, Takashio S, Usuku H, Nagayama Y,



- Nakaura T, Ueda M, Tsujita K, Hirai T. Myocardial extracellular volume quantification in cardiac amyloidosis: Comparison with cardiac computed tomography and magnetic resonance imaging. *Eur Radiol*, 2023 (in press)
28. Ohe M, Tahara N, Ueda M, Fukumoto Y. P-wave characteristics and atrium voltage mapping in cardiac amyloidosis with paroxysmal atrial fibrillation. *Eur Heart J Case Rep*, 7: yta319, 2023
  29. Takahashi K, Hiratsuka Y, Iwamura T, Sasaki D, Yamamura N, Kitazawa S, Ueda M, Morioka H, Okura T, Enomoto D, Uemura S, Kono T, Sakaue T, Ikeda S. Technetium-99m-pyrophosphate imaging-based computed tomography-guided core-needle biopsy of internal oblique muscle in wild-type transthyretin cardiac amyloidosis. *Amyloid*, 2023 (in press)
  30. Noda Y, Kido J, Misumi M, Sugawara K, Itai T, Miyatake S, Matsumoto N, Ueda M, Nakamura K. A case of PURA syndrome with severe developmental delay harboring c.175C>T variant. *Clin Case Rep*, 11: e7779, 2023
  31. Matsuo K, Nakaura T, Morita K, Uetani H, Nagayama Y, Kidoh M, Hokamura M, Yamashita Y, Shinoda K, Ueda M, Mukasa A, Hirai T. Feasibility study of super-resolution deep learning-based reconstruction using k-space properties in brain diffusion weighted images. *Neuroradiology*, 65: 1619-1629, 2023
  32. Ikenoshita S, Matsuo K, Yabuki Y, Kawakubo K, Asamitsu S, Hori K, Usuki S, Hirose Y, Bando T, Araki K, Ueda M, Sugiyama H, Shioda N. A cyclic pyrrole-imidazole polyamide reduces pathogenic RNA in CAG/CTG triplet repeat neurological disease models. *J Clin Invest*, 133: e164792, 2023
  33. Takahashi K, Iwamura T, Hiratsuka Y, Sasaki D, Yamamura N, Ueda M, Morioka H, Yoshino M, Enomoto D, Uemura S, Okura T, Sakaue T, Ikeda S. A Gluteus Medius Muscle Biopsy to Confirm Amyloid Transthyretin Deposition in Wild-type Transthyretin Cardiac Amyloidosis: A Report of Two Cases. *Intern Med*, 2023 (in press)
  34. Shindo S, Uchida K, Yoshimura S, Sakai N, Yamagami H, Toyoda K, Matsumaru Y, Matsumoto Y, Kimura K, Ishikura R, Inoue M, Sakakibara F, Nakajima M, Ueda M, Morimoto T. Intravenous alteplase before endovascular therapy for acute large vessel occlusion with large ischemic core: subanalysis of a randomized clinical trial. *J Neurointerv Surg*, 2023 (in press)
  35. Maeda K, Sugimoto K, Tasaki M, Taniwaki T, Arima T, Shibata Y, Tateyama M, Karasugi T,

- Sueyoshi T, Masuda T, Uehara Y, Tokunaga T, Hisanaga S, Yugami M, Yonemitsu R, Ideo K, Matsushita K, Fukuma Y, Uragami M, Kawakami J, Yoshimura N, Takata K, Shimada M, Tanimura S, Matsunaga H, Kai Y, Takata S, Kubo R, Tajiri R, Homma F, Tian X, Ueda M, Nakamura T, Miyamoto T. Transthyretin amyloid deposition in ligamentum flavum (LF) is significantly correlated with LF and epidural fat hypertrophy in patients with lumbar spinal stenosis. *Sci Rep*, 13: 20019, 2023
36. Takahashi K, Iwamura T, Hiratsuka Y, Sasaki D, Yamamura N, Ueda M, Yoshino M, Enomoto D, Morioka H, Uemura S, Okura T, Sakaue T, Ikeda S. Iatrogenic intramuscular hematoma of the oblique muscles as a complication of technetium-99m-labeled pyrophosphate imaging-based computed tomography-guided core-needle biopsy in a patient with wild-type transthyretin cardiac amyloidosis. *Radiol Case Rep*, 19; 330-340, 2023
37. Masuda T, Misumi Y, Nomura T, Yamakawa S, Tasaki M, Obayashi K, Ando Y, Ueda M. Correlation between a commercial electrophysiological test of sudomotor function and intraepidermal nerve fiber density in hereditary transthyretin amyloidosis. *Muscle Nerve*, 69: 99-102, 2024
38. Ueda M, Misumi Y, Nomura T, Tasaki M, Yamakawa S, Obayashi K, Yamashita T, Ando Y. Disease-modifying drugs extend survival in hereditary transthyretin amyloid polyneuropathy. *Ann Neurol*, 2023 (in press)
39. Yamaguchi A, Tasaki M, Ueda M, Ando Y, Naiki H. Epidemiological study of the subtype frequency of systemic amyloidosis listed in the Annual of the Pathological Autopsy Cases in Japan. *Pathol Int*, 2023 (in press)
40. Nishizawa RH, Kawano H, Yoshimuta T, Eguchi C, Kojima S, Minami T, Sato D, Eguchi M, Okano S, Ikeda S, Ueda M, Maemura K. Effects of tafamidis on the left ventricular and left atrial strain in patients with wild-type transthyretin cardiac amyloidosis. *Eur Heart J Cardiovasc Imaging*, 2023 (in press)
41. Watanabe T, Takihara Y, Jono H, Fujimoto T, Tasaki M, Isoguchi A, Urahashi Y, Shimoda T, Takahashi E, Ando Y, Ueno S, Ueda M, Inoue T. Silencing of ocular transthyretin, a gene responsible for hereditary transthyretin amyloidosis, by intravitreal injection of an siRNA conjugate into rabbit eyes. *Biochem Biophys Res Commun*, 694:149397, 2024

42. Harada S, Azuma T, Misumi Y, Hayashi H, Matsubara S, Nakahara K, Miyatake S, Matsumoto N, Ueda M. Novel genotype and phenotype of VPS13D-related disorders with parkinsonism *Intern Med*, 2024 (in press)
43. Nomura T, Misumi Y, Tasaki M, Obayashi K, Yamashita T, Ando Y, Ueda M. Origin of transthyretin in cerebral amyloid angiopathy. *JAMA Neurol*, 2024 (in press)
44. Hokamura M, Uetani H, Nakaura T, Matsuo K, Morita K, Nagayama Y, Kidoh M, Yamashita Y, Ueda M, Mukasa A, Hirai T. Exploring the impact of super-resolution deep learning on MR angiography image quality. *Neuroradiology*, 2024 (in press)
45. Ouchi K, Isono K, Ohya Y, Shiraki N, Tasaki M, Inomata Y, Ueda M, Era T, Kume S, Ando Y, Jono H. Characterization of heterozygous ATTR Tyr114Cys amyloidosis-specific induced pluripotent stem cells. *Heliyon*, 2024 (in press)
46. Ando Y, Waddington-Cruz M, Sekijima Y, Koike H, Ueda M, Konishi H, Ishii T, Coelho T. Optimal practices for the management of hereditary transthyretin amyloidosis: real-world experience from Japan, Brazil, and Portugal. *Orphanet J Rare Dis*, 18:323, 2023
47. Brito D, Albrecht FC, de Arenaza DP, Bart N, Better N, Carvajal-Juarez I, Conceição I, Damy T, Dorbala S, Fidalgo J-C, Garcia-Pavia P, Ge J, Gillmore JD, Grzybowski J, Obici L, Piñero D, Rapezzi C, Ueda M, Pinto FJ. World Heart Federation Consensus on Transthyretin Amyloidosis Cardiomyopathy (ATTR-CM). *Glob Heart*, 18: 59, 2023

#### 14) 分子生理学講座

1. Ahmad, R.N.R., Zhang, L.T., Morita, R., Tani, H., Wu, Y., Chujo, T., Ogawa, A., Harada, R., Shigeta, Y., Tomizawa, K., and Wei FY. Pathological mutations promote proteolysis of mitochondrial tRNA-specific 2-thiouridylase 1 (MTU1) via mitochondrial caseinolytic peptidase (CLPP). *Nucleic Acids Res.* 2023 Dec 19: gkad1197.
2. Kaneko, H., Kaitsuka, T., and Tomizawa, K. Artificial induction of circadian rhythm by combining exogenous BMAL1 expression and polycomb repressive complex 2 inhibition in human induced pluripotent stem cells. *Cell Mol Life Sci.* 80(8), 200, 2023.
3. Kawamura, Y., Oka, K., Semba, T., Takamori, M., Sugiura, Y., Yamasaki, R., Suzuki, Y., Chujo, T., Nagase, M., Oiwa, Y., Fujioka, S., Homma, S., Yamamura, Y., Miyawaki, S., Narita, M.,

Fukuda, T., Sakai, Y., Ishimoto, T., Tomizawa, K., Suematsu, M., Yamamoto, T., Bono, H., Okano, H., and Miura K. Cellular senescence induction leads to progressive cell death via the INK4a-RB pathway in naked mole-rats. *EMBO J.*, e111133, 2023.

4. Miwa, T., Katsuno, T., Wei, F.-Y., and Tomizawa, K. Mitochondrial alterations in the cochlea of Cdk5rap1-knockout mice with age-related hearing loss. *FEBS Open Bio.* 13(7), 1365-1374, 2023.
5. Murakami, Y., Wei, F.-Y., Kawamura, Y., Horiguchi, H., Kadomatsu, T., Miyata, K., Miura, K., Oike, Y., Ando, Y., Ueda, M., Tomizawa, K., and Chujo, T. NSUN3-mediated mitochondrial tRNA 5-formylcytidine modification is essential for embryonic development and respiratory complexes in mice. *Commun. Biol.* 6(1), 307, 2023.
6. Huang, R., Yamamoto, T., Nakata, E., Ozaki, T., Kurozumi, K., Wie, F.-Y., Tomizawa, K., and Fujimura, A. CDKAL1 drives the maintenance of cancer stem-like cells by assembling the eIF4F translation initiation complex. *Adv. Sci.*, e2206542, 2023.

#### 15) 知覚生理学講座

1. Takemoto M, Kato S, Kobayashi K, Song W-J: Dissection of insular cortex layer 5 reveals two sublayers with opposing modulatory roles in appetitive drinking behavior. *iScience* 26: 106985, 2023
2. Tomioka R, Takemoto M, Song W-J: Neurochemical properties for defining subdivisions of the medial geniculate body. *Hearing Research* 431: 108724, 2023
3. Zhou B, Tomioka R, Song W-J: Temporal profiles of neuronal responses to repeated tone stimuli in the mouse primary auditory cortex. *Hearing Research* 430: 108710, 2023

#### 16) 分子脳科学講座

1. Du J, Nakachi Y, Murata Y, Kiyota E, Kato T, Bundo M, Iwamoto K: Exploration of cell-type-specific somatic mutations in schizophrenia and the impact of maternal immune activation on the somatic mutation profile in the brain. *Psychiatry and Clinical Neurosciences*, in press
2. Baba Y, Yasuda N, Bundo M, Nakachi Y, Ueda J, Ishimoto T, Iwatsuki M, Miyamoto Y, Yoshida N, Oshiumi H, Iwamoto K, Baba H: LINE-1 hypomethylation, increased retrotransposition and tumor-specific insertion in upper gastrointestinal cancer. *Cancer Science* 00:1-10, 2023

3. Sugawara H, Date A, Fuke S, Nakachi Y, Kato T, Narita M, Bundo M, Iwamoto K: Quantification of cytosine modifications in the aged mouse brain. *Neuropsychopharmacology Reports*, 00:1–6, 2023
  4. Fujii S, Murata Y, Imamura Y, Nakachi Y, Bundo M, Kubota-Sakashita M, Kato T, Iwamoto K. Sex-dependent behavioral alterations in a poly(I:C)-induced maternal immune activation mouse model without segment filamentous bacteria. *Neuroscience Letters*, 814:137467, 2023
  5. Kajitani N, Okada-Tsuchioka M, Inoue A, Miyano K, Masuda T, Boku S, Iwamoto K, Ohtsuki S, Uezono Y, Aoki J, Takebayashi M: G protein-biased LPAR1 agonism of prototypic antidepressants: Implication in the identification of novel therapeutic target for depression *Neuropsychopharmacology*, in press
  6. Hu X, Yasuda T, Yasuda-Yosihara N, Yonemura A, Umemoto T, Nakachi Y, Yamashita K, Semba T, Arima K, Uchihara T, Nishimura K, Bu L, Fu L, Wei F, Zhang J, Tong Y, Wang H, Iwamoto K, Fukuda T, Nakagawa H, Taniguchi K, Miyamoto Y, Baba H, Ishimoto T: Downregulation of 15-PGDH enhances MASH-HCC development via fatty acid-induced T-cell exhaustion. *JHEP Reports*, 5:100892, 2023
  7. Watanabe R, Nakachi Y, Matsubara H, Ueda J, Ishii T, Ukai W, Hashimoto E, Kasai K, Simizu S, Kato T, Bundo M, Iwamoto K: Identification of epigenetically active L1 promoters in the human brain and their relationship with psychiatric disorders. *Neuroscience Research*, 195: 37-51, 2023
  8. 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* 60:1083-1098, 2023
  9. Inoue H, Hirasaki M, Kogashiwa Y, Nakachi Y, Kuba K, Ebihara Y, Nakahira M, Yasuda M, Okuda A, Sugasawa M: Identification of novel oncogenes in oral cancer among elderly nonsmokers. *Clinical and Experimental Dental Research* 9: 711-720, 2023
- 17) 眼科学講座
1. Murata N, Takahashi E, Saruwatari J, Kojima S, Inoue T: Outcomes and risk factors for ab interno trabeculotomy with a Kahook dual blade. *Graefes Arch Clin Exp Ophthalmol* 261: 503-511,

2023.

2. 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* 108: 71-77, 2023.
3. 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. *Am J Ophthalmol Case Rep* 29: 101807, 2023.
4. 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. *Jpn J Ophthalmol* 67: 189-254, 2023.
5. Manako K, Takahashi E, Saruwatari J, Matsumura T, Kojima S, Inoue T: Risk factors for Baerveldt glaucoma drainage implantation for uveitic glaucoma. *Sci Rep* 13: 4473, 2023.
6. Fujimoto T, Inoue-Mochita M, Inoue T: A ROCK inhibitor suppresses the transforming growth factor-beta-2-induced endothelial–mesenchymal transition in Schlemm’s canal endothelial cells. *Sci Rep* 13: 9655, 2023.
7. Inatani M, Orii Y, Iwasaki K, Arimura S, Sunagawa H, Shiokawa M, Inoue K, Sakono T, Sakono T, Kuwamura R, Yoshida A, Oi J, Kuwayama Y, Kano K, Kido N, Matsuyama A, Ozaki M, Abe H, Inoue C, Nakagawa S, Musashi K, Kanamori A, Lee J, Otani S, Aoki R, Tanabe H, Nakakura S, Suzuki K, Sagara T, Saito Y, Sameshima M, Urahashi M, Watanabe-Kitamura F, Inoue T, Kagaya F, Murai Y, Mori S, Ueda K, Kurimoto T, Yamada-Nakanishi Y, Nakamura M, Yamashita T, Ishiyama S, Manabe S, Takaki K, Hayashi K, Ishida A, Tsutsui A, Manabe K, Tanito M: Randomized Multicenter Clinical Trial Comparing 0.1% Brimonidine/0.5% Timolol Versus 1% Dorzolamide/0.5% Timolol as Adjuncts to Prostaglandin Analogues: Aibeta Crossover Study. *Adv Ther* 40: 4074-4092, 2023.
8. Sakata R, Araie M, Yoshitomi T; for lower normal pressure glaucoma study members in Japan Glaucoma Society: Factors associated with visual field or structure progression occurring first in a prospective study on patients with untreated open-angle glaucoma with normal intraocular pressure. *Eye*, in press.

9. Obaru C, Kimura T, Yamamura M, Kuriyama H, Kashiwada-Nakamura K, Mizuhashi S, Matsumura T, Watanabe T, Inoue T, Fukushima S: A case of melanoma complicated with uveitis induced by two types of BRAF/MEK inhibitors and nivolumab treatment. *J Dermatol*, in press
  10. Irie A, Nakashima KI, Inoue T, Kojima S, Takihara Y, Takahashi E: Trabeculotomy using the Kahook Dual Blade for exfoliation glaucoma and primary open-angle glaucoma: Comparison of outcomes according to incision range. *J Glaucoma*, in press.
  11. Watanabe T, Takihara Y, Jono H, Fujimoto T, Tasaki M, Isoguchi A, Urahashi Y, Shimoda T, Takahashi E, Ando Y, Ueno S, Ueda M, Inoue T: Silencing of ocular transthyretin, a responsible gene for hereditary transthyretin amyloidosis, by intravitreal injection of siRNA into rabbit eyes. *Biochem Biophys Res Commun*, in press.
  12. Asaoka R, Sugisaki K, Inoue T, Yoshikawa K, Kanamori A, Yamazaki Y, Ishikawa S, Uchida K, Iwase A, Araie M: Predicting the extent of damage in the Humphrey Field Analyzer 24-2 visual fields using 10-2 test results in patients with advanced glaucoma. *Transl Vis Sci Technol*, in press.
- 18) 整形外科学講座
1. Watanabe K, Lu X, Masuda S, Miyamoto T, Katoh T: Relationship between physical activity and locomotive syndrome among young and middle-aged Japanese workers. *J Occup Health:uia001*, 2024
  2. Okamoto N, Nakamura E, Masuda T, Hisanaga S, Miyamoto T: Lateral Laxity in Flexion Influences Patient-Reported Outcome After Total Knee Arthroplasty. *Indian J Orthop* 58:24-29, 2023
  3. Arima T, Sugimoto K, Taniwaki T, Maeda K, Shibata Y, Tateyama M, Karasugi T, Tokunaga T, Sueyoshi T, Hisanaga S, Masuda T, Uehara Y, Yugami M, Matsushita K, Yonemitsu R, Kawakami J, Yoshimura N, Tanimura S, Kato H, Ito N, Inoue K, Bando K, Nakamura T, Miyamoto T: Cartilage tissues regulate systemic aging via ectonucleotide pyrophosphatase/phosphodiesterase 1 in mice. *J Biol Chem* 300:105512, 2023
  4. Yoshimura N, Kariya R, Shimada M, Tateyama M, Matsunaga H, Shibata Y, Tanimura S, Takata K, Arima T, Kawakami J, Maeda K, Fukuma Y, Uragami M, Ideo K, Sugimoto K, Yonemitsu R, Matsushita K, Hisanaga S, Yugami M, Uehara Y, Masuda T, Nakamura T, Tokunaga T, Karasugi

- T, Sueyoshi T, Sato H, Iwakura Y, Araki K, Kobayashi E, Okada S, Miyamoto T: The IL-17-IL-17RA axis is required to promote osteosarcoma progression in mice. *Sci Rep* 13:2157, 2023
5. Uragami M, Matsushita K, Shibata Y, Takata S, Karasugi T, Sueyoshi T, Masuda T, Nakamura T, Tokunaga T, Hisanaga S, Yugami M, Sugimoto K, Yonemitsu R, Ideo K, Fukuma Y, Takata K, Arima T, Kawakami J, Maeda K, Yoshimura N, Matsunaga H, Kai Y, Tanimura S, Shimada M, Tateyama M, Miyamoto K, Kubo R, Tajiri R, Tian X, Homma F, Morinaga J, Yamanouchi Y, Takebayashi M, Kajitani N, Uehara Y; Kumamoto Stop Osteoporotic Hip Fractures (K-STOP) Group; Miyamoto T: A machine learning-based scoring system and ten factors associated with hip fracture occurrence in the elderly. *Bone* 176:116865, 2023
  6. Iga T, Kobayashi H, Kusumoto D, Sanosaka T, Fujita N, Tai-Nagara I, Ando T, Takahashi T, Matsuo K, Hozumi K, Ito K, Ema M, Miyamoto T, Matsumoto M, Nakamura M, Okano H, Shibata S, Kohyama J, Kim KK, Takubo K, Kubota Y: Spatial heterogeneity of bone marrow endothelial cells unveils a distinct subtype in the epiphysis. *Nat Cell Biol* 25:1415-1425, 2023
  7. Igarashi H, Nishizawa S, Miyamoto T, Hikita A, Hoshi K: Involvement of Impaired Angiogenesis and Myelosuppression in Antiresorptive-agent Related Osteonecrosis of the Jaw Mouse Model. *Tokai J Exp Clin Med* 48:22-31, 2023
  8. Koike Y, Takahata M, Nakajima M, Otomo N, Suetsugu H, Liu X, Endo T, Imagama S, Kobayashi K, Kaito T, Kato S, Kawaguchi Y, Kanayama M, Sakai H, Tsuji T, Miyamoto T, Inose H, Yoshii T, Kashii M, Nakashima H, Ando K, Taniguchi Y, Takeuchi K, Ito S, Tomizuka K, Hikino K, Iwasaki Y, Kamatani Y, Maeda S, Nakajima H, Mori K, Seichi A, Fujibayashi S, Kanchiku T, Watanabe K, Tanaka T, Kida K, Kobayashi S, Takahashi M, Yamada K, Takuwa H, Lu HF, Niida S, Ozaki K, Momozawa Y; Genetic Study Group of Investigation Committee on Ossification of the Spinal Ligaments; Yamazaki M, Okawa A, Matsumoto M, Iwasaki N, Terao C, Ikegawa S: Genetic insights into ossification of the posterior longitudinal ligament of the spine. *Elife* 12:e86514, 2023
  9. Fukuma Y, Tokunaga T, Tanimura S, Yoshimoto Y, Mashimo T, Kaneko T, Tian X, Ideo K, Yonemitsu R, Matsushita K, Sugimoto K, Yugami M, Hisanaga S, Nakamura T, Uehara Y, Masuda T, Shukunami C, Karasugi T, Miyamoto T: Potential function of Scx<sup>+</sup>/Sox9<sup>+</sup> cells as progenitor cells in rotator cuff tear repair in rats. *Biochem Biophys Res Commun* 676: 84-90, 2023



10. Maeda K, Sugimoto K, Tasaki M, Taniwaki T, Arima T, Shibata Y, Tateyama M, Karasugi T, Sueyoshi T, Masuda T, Uehara Y, Tokunaga T, Hisanaga S, Yugami M, Yonemitsu R, Ideo K, Matsushita K, Fukuma Y, Uragami M, Kawakami J, Yoshimura N, Takata K, Shimada M, Tanimura S, Matsunaga H, Kai Y, Takata S, Kubo R, Tajiri R, Homma F, Tian X, Ueda M, Nakamura T, Miyamoto T: Transthyretin amyloid deposition in ligamentum flavum (LF) is significantly correlated with LF and epidural fat hypertrophy in patients with lumbar spinal stenosis. *Sci Rep* 13:20019, 2023
11. Kawakami J, Hisanaga S, Yoshimoto Y, Mashimo T, Kaneko T, Yoshimura N, Shimada M, Tateyama M, Matsunaga H, Shibata Y, Tanimura S, Takata K, Arima T, Maeda K, Fukuma Y, Uragami M, Ideo K, Sugimoto K, Yonemitsu R, Matsushita K, Yugami M, Uehara Y, Nakamura T, Tokunaga T, Karasugi T, Sueyoshi T, Shukunami C, Okamoto N, Masuda T, Miyamoto T: Remnant tissue enhances early postoperative biomechanical strength and infiltration of Scleraxis-positive cells within the grafted tendon in a rat anterior cruciate ligament reconstruction model. *PLoS One* 18:e0293944, 2023
12. Shiraishi K, Nakaura T, Uetani H, Nagayama Y, Kidoh M, Kobayashi N, Morita K, Yamahita Y, Miyamoto T, Hirai T: Combination Use of Compressed Sensing and Deep Learning for Shoulder Magnetic Resonance Imaging With Various Sequences. *J Comput Assist Tomogr* 47:277-283, 2023
13. Kushima Y, Sato Y, Kobayashi T, Fukuma Y, Matsumoto M, Nakamura M, Iwamoto T, Miyamoto T: TNF $\alpha$ -dependent mTOR activity is required for tenotomy-induced ectopic ossification in mice. *J Bone Miner Metab* 41:583-591, 2023
14. Ito E, Sato Y, Kobayashi T, Soma T, Matsumoto T, Kimura A, Miyamoto K, Matsumoto H, Matsumoto M, Nakamura M, Sato K, Miyamoto T: Low energy availability reduces bone mass and gonadal function in male mice. *J Bone Miner Metab* 41:182-192, 2023
15. 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* 166:116570, 2023
16. Nakagawa M, Nakaura T, Yoshida N, Azuma M, Uetani H, Nagayama Y, Kidoh M, Miyamoto T, Yamashita Y, Hirai T: Performance of Machine Learning Methods Based on Multi-Sequence Textural Parameters Using Magnetic Resonance Imaging and Clinical Information to Differentiate

Malignant and Benign Soft Tissue Tumors.

*Acad Radiol* 30:83-92, 2023

17. Tamura T, Tokunaga T, Karasugi T, Miyamoto T, Kikukawa K: The remaining teres minor and subscapularis may contribute to preventing superior migration of the humeral head and progression of osteoarthritic change in rotator cuff tears. *JSES Int* 7:561-567, 2023
18. Tokunaga T, Karasugi T, Tanimura S, Miyamoto T: Association of Severe Histological Degeneration of the Torn Supraspinatus Tendon and Retear After Arthroscopic Repair of Full-Thickness Rotator Cuff Tears Using the Suture Bridge Technique. *Am J Sports Med* 51:2411-2421, 2023
- 19) 筋発生再生分野
  1. Ortuste Quiroga HP, Fujimaki S, **Ono Y**. Pax7 reporter mouse models: a pocket guide for satellite cell research. *Eur J Transl Myol.* 2023 Dec 18;33(4).
  2. Tanimoto A, Yamaguchi Y, Kadowaki T, Sakai E, Oyakawa S, **Ono Y**, Yoshida N, Tsukuba T. Rab44 negatively regulates myoblast differentiation by controlling fusogenic protein transport and mTORC1 signaling. *J Cell Biochem.* 2023 Aug 11. Online ahead of print. doi: 10.1002/jcb.30457.
  3. Oyakawa S, Yamaguchi Y, Kadowaki T, Sakai E, Noguromi M, Tanimoto A, **Ono Y**, Murata H, Tsukuba T, Tsukuba. Rab44 deficiency accelerates recovery from muscle damages by regulating mTORC1 signaling and transport of fusogenic regulator. *J Cell Physiol.* 2023 Aug 10. Online ahead of print. doi: 10.1002/jcp.31082.
  4. Fujita R, Mizuno S, Sadahiro T, Hayashi T, Sugasawa T, Sugiyama F, **Ono Y**, Takahashi S, Ieda M. Generation of a MyoD knock-in reporter mouse line to study muscle stem cell dynamics and heterogeneity. *iScience.* 2023 May 19;26(5): 106592.
  5. Fujimaki S, **Ono Y**. Murine models of tenotomy-induced mechanical overloading and tail-suspension-induced mechanical unloading. *Methods Mol Biol.* 2023 Mar 30; 2640:207-215.
  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.* 2023 Jan 25;12:e84618.

20) 中枢性代謝制御学講座

1. Abe, T., Toda, C. Hyperglycemic Clamp and Hypoglycemic Clamp in Conscious Mice. *J. Vis. Exp.* (2023), e65581, doi:10.3791/65581 (2024).

○老化モデル研究部門

21) 老化・健康長寿学講座

1. Yamakawa M\*, Miura K (co-last author), and Kutsukake N. Helping syndrome is partially confirmed in the eusocial naked mole-rat. *Animal Behavior*. in press
2. Kawamura Y\*, Oka K, Semba T, Takamori M, Sugiura Y, Yamasaki R, Suzuki Y, Chujo T, Nagase M, Oiwa Y, Fujioka S, Homma S, Yamamura Y, Miyawaki S, Narita M, Fukuda T, Sakai Y, Ishimoto T, Tomizawa K, Suematsu M, Yamamoto T, Bono H, Okano H, Miura K\*. Cellular senescence induction leads to progressive cell death via the INK4a-RB pathway in naked mole-rats. *The EMBO Journal* 42(16):e111133, 2023

22) 生命資源研究・支援センター 疾患モデル分野

1. 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* 72: 314-323, 2023.
2. Kawano S, Arak, K, Bai J, Furukawa ., 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* 114: 2821-2834, 2023.
3. Kadomatsu T, Hara C, Kurahashi R, Horiguchi H, Morinaga J, Miyata K, Kurano S, Kanemaru H, Fukushima S, Araki K, Baba M, Linehan WM, Kamba T, Oike, Y: ANGPTL2-mediated epigenetic repression of MHC-I in tumor cells accelerates tumor immune evasion. *Mol. Oncol.*17: 2637-2658, 2023.
4. Nagai T, Sekimoto T, Kurogi S, Ohta T, Miyazaki S, Yamaguchi Y, Tajima T, Chosa E, Imasaka M, Yoshinobu K, Araki K, Araki M, Choijookhuu N, Sato K, Hishikawa Y, Funamoto, T: *Tmem161a* regulates bone formation and bone strength through the P38 MAPK pathway. *Sci. Rep.* 13: 14639, 2023.
5. Hiyoshi N, Enomoto T, Uefune F, Kato Y, Wu Y, Araki K, Sakano D, Shiraki N, Kume, S: A

specific plasma amino acid profile in the Insulin2(Q104del) Kuma mice at the diabetic state and reversal from hyperglycemia. *Biochem Biophys Res Commun* 679: 58-65, 2023.

6. Ikenoshita S, Matsuo K, Yabuki Y, Kawakubo K, Asamitsu S, Hori K, Usuki S, Hirose Y, Bando T, Araki K, Ueda M, Sugiyama H, Shioda, N: A cyclic pyrrole-imidazole polyamide reduces pathogenic RNA in CAG/CTG triplet repeat neurological disease models. *J Clin Invest.* 133: e164792, 2023.
7. Tsuchiya Y, Seki T, Kobayashi K, Komazawa-Sakon S, Shichino S, Nishina T, Fukuhara K, Ikejima K, Nagai H, Igarashi Y, Ueha S, Oikawa A, Tsurusaki S, Yamazaki S, Nishiyama C, Mikami T, Yagita H, Okumura K, Kido T, Miyajima A, Matsushima K, Imasaka M, Araki K, Imamura T, Ohmuraya M, Tanaka M, Nakano, H: Fibroblast growth factor 18 stimulates the proliferation of hepatic stellate cells, thereby inducing liver fibrosis. *Nat Commun.* 14: 6304, 2023.
8. Shimada R, Kato Y, Takeda N, Fujimura S, Yasunaga KI, Usuki S, Niwa H, Araki K., Ishiguro KI: STRA8-RB interaction is required for timely entry of meiosis in mouse female germ cells. *Nat Commun* 14: 6443, 2023.
9. Yoshimura N, Kariya R, Shimada M, Tateyama M, Matsunaga H, Shibata Y, Tanimura S, Takat, K, Arima T, Kawakami J, Maeda K, Fukuma Y, Uragami M, Ideo K, Sugimoto K, Yonemitsu R, Matsushita K, Hisanaga S, Yugami M, Uehara Y, Masuda T, Nakamura T, Tokunaga T, Karasugi T, Sueyoshi T, Sato H, Iwakura Y, Araki K, Kobayashi E, Okada S, Miyamoto T: The IL-17-IL-17RA axis is required to promote osteosarcoma progression in mice. *Sci Rep.* 13: 21572, 2023.
10. Yoshimoto R, Nakayama Y, Nomura I, Yamamoto I, Nakagawa Y, Tanaka S, Kurihara M, Suzuki Y, Kobayashi T, Kozuka-Hata H, Oyama M, Mito M, Iwasaki S, Yamazaki T, Hirose T, Araki K, Nakagawa S: 4.5SH RNA counteracts deleterious exonization of SINE B1 in mice. *Mol Cell* 83: 4479-4493 e6, 2023.
11. Zhu X, Joo Y, Bossi S, McDevitt R, Xie A, Wang Y, Xue Y, Su S, Lee SK, Sah N, Zhang S, Ye R, Pinto A, Zhan, Y, Araki K, Araki M, Morales M, Mattson M, van Praag H, Wang W: Tdrd3-null mice show post-transcriptional and behavioral impairments associated with neurogenesis and synaptic plasticity. *Prog Neurobiol.* 233: 102568, 2024.
12. Noda T, Shinohara H, Kobayashi S, Taira A, Oura S, Duritahala, Tokuyasu M, Araki K, Ikawa,

M: Multiple genes in the Pate5-13 genomic region contribute to ADAM3 processing. *Biol Reprod.* in press. 2024.

13. Okumura K, Morinaga T, Saito M, Tokunaga Y, Otoyama K, Tanaka S, Isogai E, Kawazu M, Togashi Y, Araki K, Wakabayashi Y: Deletion of Pak1 in CD11c positive cells confers resistance to mouse skin carcinogenesis. *J Invest Dermatol.* in press. 2024

○疫学研究部門

23) 公衆衛生学講座

1. Fukushima 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. *Int J Hyg Environ Health.* 248:114094. doi:10.1016/j.ijheh.2022.114094, 2023.
2. Futakawa K, Matsumura K, Tsuchida A, Konishi M, Sasaki H, Mezawa H, Yamamoto-Hanada K, Inadera H, Hasegawa T, Kamijima M, Yamazaki S, Ohya T, Kishi R, Yaegashi N, Hashimoto K, Mori C, Ito S, Yamagata Z, Nakayama T, Sobue T, Shima M, Nakamura H, Suganuma N, Kusuhara K, Katoh T.  
Longitudinal study of the relationship between number of prior miscarriages or stillbirths and changes in quality of life of pregnant women: the Japan Environment and Children's Study (JECS). *BMC Pregnancy Childbirth.* 23(1):297. doi: 10.1186/s12884-023-05578-6, 2023.
3. Kato T, Fujii M, Kanatani K, Niwa F, Hirabayashi K, Nakayama T, Itakura S, 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.  
Paternal involvement in infant care and developmental milestone outcomes at age 3 years: the Japan Environment and Children's Study (JECS).  
*Pediatric Research.* doi: 10.1038/s41390-023-02723-x. *Online ahead of print*, 2023.
4. Kikuchi K, Michikawa T, Morokuma S, Hamada N, Suetsugu Y, Ikeda S, Nakahara K, Kato K, Ochiai M, Shibata E, Tsuji M, Shimono M, Kawamoto T, Ohga S, Kusuhara K, 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, Katoh T.  
Sleep quality and temperament in association with autism spectrum disorder among infants in Japan. *Commun Med.* 3(1):82. doi: 10.1038/s43856-023-00314-9, 2023.

5. Lu X, Masuda S, Horlad H, Katoh T.  
Safety and adverse effects of the coronavirus disease 2019 vaccine among the general Japanese adult population. *Vaccine*. 7;41(35):5090-5096. doi: 10.1016/j.vaccine.2023.04.053, 2023.
  6. Lu X, Hojo S, Mizukoshi A, Katoh T.  
Prevalence and correlation of multiple chemical sensitivity and electromagnetic hypersensitivity with age, sex, and depression in the Japanese population: a retrospective study. *BMC Public Health*. 21; 23(1):1205. doi: 10.1186/s12889-023-16152-2, 2023.
  7. Nakano K, Kuraoka S, Oda M, Ohba T, Mitsubuchi H, Nakamura K, Katoh T, The Japan Environment and Children's Study Jecs Group. Relationship between the Mediterranean Diet Score in Pregnancy and the Incidence of Asthma at 4 Years of Age: The Japan Environment and Children's Study. *Nutrients*. 15(7):1772. doi: 10.3390/nu15071772, 2023.
  8. Nakamura M, Ohba T, Sasaki R, Saito F, Yamaguchi M, Motohara T, Mabe H, Lu X, Katabuchi H, Kondoh E. Advantages and limitations of estrogen replacement therapy on hypogonadal survivors of childhood cancer. *Int J Clin Oncol*. 30. doi:10.1007/s10147-023-02405-y, 2023.
  9. Tsuchiya M, Tsuchiya S, Momma H, Ikeda R, Suzuki J, Nagatomi R, Yaegashi N, Arima T, Igarashi K, Kamijima M, Yamazaki S, Ohya Y, Kishi R, Hashimoto K, Mori C, Ito S, Yamagata Z, Inadera H, Nakayama T, Sobue T, Shima M, Nakamura H, Suganuma N, Kusuhara K, Katoh T. Impact of Habitual Yogurt Intake in Mother-Child Dyads on Incidence of Childhood Otitis Media: The Japan Environment and Children's Study (JECS) *Probiotics Antimicrob*. doi: 10.1007/s12602-023-10086-2, 2023.
  10. Yamamoto-Hanada K, Pak K, Saito-Abe M, Sato M, Miyaji Y, Mezawa H, Nishizato M, Yang LM, Kumasaka N, Nomura I, Ohya Y, 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, Katoh T. Prenatal antibiotic use, caesarean delivery and offspring's foodprotein-induced enterocolitis syndrome: A National Birth Cohort (JECS). *Clin Exp Allergy*. 53(4):479-483. doi: 10.1111/cea.14286, 2023.
- 24) 神経精神医学講座
1. Yuuki S, Hashimoto M, Koyama A, Matsushita M, Ishikawa T, Fukuhara R, Honda K, Miyagawa Y, Ikeda M, Takebayashi M. Comparison of caregiver burden between dementia with Lewy bodies and Alzheimer's disease. *Psychogeriatrics* : the official journal of the *Japanese*

*Psychogeriatric Society.* 2023 Jul;23(4):682-689.

2. Hirabayashi N, Honda T, Hata J, Furuta Y, Shibata M, Ohara T, Tatewaki Y, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Iga J, Takebayashi M, Ninomiya T. Association Between Frequency of Social Contact and Brain Atrophy in Community-Dwelling Older People Without Dementia: The JPSC-AD Study. *Nuerology.* 2023 Sep 12;101(11):e1108-e1117.
3. Ichiki T, Koyama A, Imai M, Nishi Y, Abe Y, Fukunaga R, Murakami R, Nagaoka M, Takebayashi M, Fujise N. The trajectory of non-depressed suicidal ideation in community-dwelling older people in a rural area in Japan: A prospective longitudinal study with a 3-year follow-up. *Psychogeriatrics.* 2023 Sep;23(5):831-837.
4. Abe H, Okada-Tsuchioka M, Kajitani N, Omori W, Itagaki K, Shibasaki C, Boku S, Matsuhisa T, Takebayashi M.  
Serum levels of high mobility group box-1 protein (HMGB1) and soluble receptors of advanced glycation end-products (RAGE) in depressed patients treated with electroconvulsive therapy. *Neuropsychopharmacology Reports.* 2023 Sep;43(3):359-364.
5. Bun S, Suzuki K, Niimura H, Shikimoto R, Kida H, Shibata M, Honda T, Ohara T, Hata J, Nakaji S, Maeda T, Ono K, Nakashima K, Iga J, Takebayashi M, Ninomiya T, Mimura M; JPSC-AD Study Group. Gender and age influence the association between gait speed and mild cognitive impairment in community-dwelling Japanese older adults: from the Japan Prospective Studies Collaboration for Ageing and Dementia (JPSC-AD). *Psychogeriatrics.* 2023 Nov;23(6):918-929.
6. Urugami M, Matsushita K, Shibata Y, Takata S, Karasugi T, Sueyoshi T, Masuda T, Nakamura T, Tokunaga T, Hisanaga S, Yugami M, Sugimoto K, Yonemitsu R, Ideo K, Fukuma Y, Takata K, Arima T, Kawakami J, Maeda K, Yoshimura N, Matsunaga H, Kai Y, Tanimura S, Shimada M, Tateyama M, Miyamoto K, Kubo R, Tajiri R, Tian X, Homma F, Morinaga J, Yamanouchi Y, Takebayashi M, Kajitani N, Uehara Y; Kumamoto Stop Osteoporotic Hip Fractures (K-STOP) Group; Miyamoto T. A machine learning-based scoring system and ten factors associated with hip fracture occurrence in the elderly. *Bone.* 2023 Nov;176:116865.
7. Tachibana A, Iga J, Tatewaki Y, Thyreau B, Chen H, Ozaki T, Yoshida T, Yoshino Y, Shimizu H, Mori T, Furuta Y, Shibata M, Ohara T, Hata J, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Takebayashi M, Ninomiya T, Ueno S. Late-Life High Blood Pressure and Enlarged

Perivascular Spaces in the Putaminal Regions of Community-Dwelling Japanese Older Persons.  
*Journal of Geriatric Psychiatry and Neurology*. 2024 Jan;37(1):61-72.

8. Miyako K, Kajitani N, Koga Y, Takizawa H, Boku S, Takebayashi M.  
Identification of the antidepressant effect of electroconvulsive stimulation-related genes in hippocampal astrocyte.  
J Psychiatr Res. 2024 Jan 4;170:318-327. doi: 10.1016/j.jpsychires.2024.01.004. **Online ahead of print**. PMID: 38194849
9. Koga Y, Kajitani N, Miyako K, Takizawa H, Boku S, Takebayashi M.  
TCF7L2: A potential key regulator of antidepressant effects on hippocampal astrocytes in depression model mice.  
*J Psychiatr Res*. 2024 Jan 6;170:375-386. doi: 10.1016/j.jpsychires.2024.01.007. Online ahead of print.
10. Kajitani N, Okada-Tsuchioka M, Inoue A, Miyano K, Masuda T, Boku S, Iwamoto K, Ohtsuki S, Uezono Y, Aoki J, Takebayashi M.  
G protein-biased LPAR1 agonism of prototypic antidepressants: Implication in the identification of novel therapeutic target for depression.  
*Neuropsychopharmacology*. 2024 Feb;49(3):561-572. doi: 10.1038/s41386-023-01727-9
11. Miyako K, Kajitani N, Koga Y, Takizawa H, Boku S, Takebayashi M.  
Identification of the antidepressant effect of electroconvulsive stimulation-related genes in hippocampal astrocyte.  
J Psychiatr Res. 2024 Jan 4;170:318-327. doi: 10.1016/j.jpsychires.2024.01.004. **Online ahead of print**. PMID: 38194849
12. Koga Y, Kajitani N, Miyako K, Takizawa H, Boku S, Takebayashi M.  
TCF7L2: A potential key regulator of antidepressant effects on hippocampal astrocytes in depression model mice.  
J Psychiatr Res. 2024 Jan 6;170:375-386. doi: 10.1016/j.jpsychires.2024.01.007. **Online ahead of print**.
13. Tachibana A, Iga J, Tatewaki Y, Thyreau B, Chen H, Ozaki T, Yoshida T, Yoshino Y, Shimizu H, Mori T, Furuta Y, Shibata M, Ohara T, Hata J, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Takebayashi M, Ninomiya T, Ueno S.



Late-Life High Blood Pressure and Enlarged Perivascular Spaces in the Putaminal Regions of Community-Dwelling Japanese Older Persons.

*Journal of Geriatric Psychiatry and Neurology*. 2024 Jan;37(1):61-72.

14. Kajitani N, Okada-Tsuchioka M, Inoue A, Miyano K, Masuda T, Boku S, Iwamoto K, Ohtsuki S, Uezono Y, Aoki J, Takebayashi M.  
G protein-biased LPAR1 agonism of prototypic antidepressants: Implication in the identification of novel therapeutic target for depression.  
*Neuropsychopharmacology*. 2024 Feb;49(3):561-572. doi: 10.1038/s41386-023-01727-9
15. Ohara T, Tatebe H, Hata J, Honda T, Shibata M, Matsuura S, Mikami T, Maeda T, Ono K, Mimura M, Nakashima K, Iga J, Takebayashi M, Tokuda T, Ninomiya T.  
Plasma biomarkers for predicting the development of dementia in a community-dwelling older Japanese population.  
*Psychiatry and Clinical Neurosciences* (in press)
16. Takasaki A, Hashimoto M, Fukuhara R, Sakuta S, Koyama A, Ishikawa T, Boku S, Ikeda M, Takebayashi M.  
Gesture imitation performance in community-dwelling older people: assessment of a gesture imitation task in the screening and diagnosis of mild cognitive impairment and dementia.  
*Psychogeriatrics* 24(2) 404-414 2024
17. Tachibana A, Iga J, Ozaki T, Yoshida T, Yoshino Y, Shimizu H, Mori T, Furuta Y, Shibata M, Ohara T, Hata J, Taki Y, Nakaji S, Maeda T, Ono K, Mimura M, Nakashima K, Takebayashi M, Ninomiya T, Ueno S.  
Serum high-sensitivity C-reactive protein and dementia in a community-dwelling Japanese older population: the Japan Prospective Studies Collaboration for Aging and Dementia (JPSC-AD)  
*Scientific Reports* (in press)
18. Takeshi Sakayori MD, PhD <sup>1\*</sup>; Ken Wada MD, PhD <sup>2\*</sup>; Minoru Takebayashi MD, PhD <sup>3\*</sup>; Satoshi Ueda MD, PhD <sup>4\*</sup>; Akihiko Machino MD, PhD <sup>5\*</sup>; Atsushi Yoshimura MD, PhD <sup>6\*</sup>; Enami Sawayama MD, PhD <sup>7\*</sup>; Fumi Maruyama MD <sup>8\*</sup>; Haruka Tanabe MD,

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○データサイエンス・オミクス解析研究・支援部門

25) 免疫ゲノム構造学研究室

1. Kubara K, Yamazaki K, Miyazaki T, Kondo K, Kurotaki D, Tamura T, Suzuki Y: Lymph node macrophages drive innate immune responses to enhance the anti-tumor efficacy of mRNA vaccines. *Mol Ther*, 2024 in press
2. Matsubara E, Yano H, Pan C, Komohara Y, Fujiwara Y, Zhao S, Shinchi Y, Kurotaki D, Suzuki M: The Significance of SPP1 in Lung Cancers and Its Impact as a Marker for Protumor Tumor-Associated Macrophages. *Cancers* 15: 2250, 2023
3. Yokomizo-Nakano T, Hamashima A, Kubota S, Bai J, Sorin S, Sun Y, Kikuchi K, Iimori M, Morii M, Kanai A, Iwama A, Huang G, Kurotaki D, Takizawa H, Matsui H, Sashida G: Exposure to microbial products followed by loss of Tet2 promotes myelodysplastic syndrome via remodeling HSCs. *J Exp Med* 220: e20220962, 2023
4. Ikeda N, Kubota H, Suzuki R, Morita M, Yoshimura A, Osada Y, Kishida K, Kitamura D, Iwata A, Yotsumoto S, Kurotaki D, Nishimura K, Nishiyama A, Tamura T, Kamatani T, Tsunoda T, Murakawa M, Asahina Y, Hayashi Y, Harada H, Harada Y, Yokota A, Hirai H, Seki T, Kuwahara M, Yamashita M, Shichino S, Tanaka M, Asano K: The early neutrophil-committed progenitors aberrantly differentiate into immunoregulatory monocytes during emergency myelopoiesis. *Cell Rep* 42: 112165, 2023
5. Komohara Y, Kurotaki D, Tsukamoto H, Miyasato Y, Yano H, Pan C, Yamamoto Y, Fujiwara Y: Involvement of protumor macrophages in breast cancer progression and characterization of macrophage phenotypes. *Cancer Sci* 114: 2220-2229, 2023
6. Ito M, Fujii N, Kohara S, Hori S, Tanaka M, Wittwer C, Kikuchi K, Iijima T, Kakimoto Y, Hirabayashi K, Kurotaki D, Jessen HJ, Saiardi A, Nagata E: Inositol pyrophosphate profiling

reveals regulatory roles of IP6K2-dependent enhanced IP7 metabolism in the enteric nervous system. *J Biol Chem* 299: 102928, 2023

7. Yamazaki K, Kubara K, Suzuki Y, Hihara T, Kurotaki D, Tamura T, Ito M, Tsukahara K: Multivalent mannose-conjugated siRNA causes robust gene silencing in pancreatic macrophages in vivo. *Eur J Pharm Biopharm* 183: 61-73, 2023