

## The Research Outputs of the fiscal year of 2020 (2020.1~2021.2)

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

### ● Division of Metabolic and Cardiovascular Research

#### 1) Department of Medical Biochemistry

1. Yamamura S, Izumiya Y, Araki S, Nakamura T, Kimura Y, Hanatani S, Yamada T, Ishida T, Yamamoto M, Onoue Y, Arima Y, Yamamoto E, Sunagawa Y, Yoshizawa T, Nakagata N, Bober E, Braun T, Sakamoto K, Kaikita K, Morimoto T, Yamagata K, Tsujita K: Cardiomyocyte Sirt (Sirt7)7 ameliorates stress-induced cardiac hypertrophy by interacting with and deacetylating GATA4. *Hypertension* 75: 98-108, 2020
2. Kariba Y, Yoshizawa T, Sato Y, Tsuyama T, Araki E, Yamagata K: Brown adipocyte-derived miR-132-3p suppress hepatic Srebf1 expression and thereby attenuate expression of lipogenic genes. *Biochem Biophys Res Commun*. 530: 500-507, 2020
3. Sato Y, Rahman MM, Haneda M, Tsuyama T, Mizumoto T, Yoshizawa T, Kitamura T, Gonzalez FJ, Yamamura K, Yamagata K: HNF1a controls glucagon secretion in pancreatic a-cells through modulation of SGLT1. *BBA – Mol Basis Dis* 1866: 165898, 2020
4. Morita Y, Senokuchi T, Yamada S, Wada T, Furusho T, Matsumura T, Ishii N, Murakami-Nishida S, Nisida S, Motoshima H, Komohara Y, Yamagata K, Araki E: Impact of tissue macrophage proliferation on peripheral and systemic insulin resistance in obese mice with diabetes. *BMJ Open Diabetes Research & Care* (in press)
5. Arima Y, Nakagawa Y, Takeo T, Ishida T, Yamada T, Hino S, Nakao M, Hanada S, Umemoto T, Suda T, Sakuma T, Yamamoto T, Watanabe T, Nagaoka K, Tanaka Y, Kawamura Y.K, Tonami K, Kurihara H, Sato Y, Yamagata K, Nakamura T, Araki S, Yamamoto E, Izumiya Y, Sakamoto K, Kaikita K, Matsushita K, Nishiyama K, Nakagata N, Tsujita K: Murine neonatal ketogenesis preserves mitochondrial

energetics by preventing protein hyperacetylation. **Nature Metabolism** (in press)

6. Kimura Y, Izumiya Y, Araki S, Yamamura S, Hanatani S, Onoue Y, Ishida T, Arima Y, Nakamura T, Yamamoto E, Senokuchi T, Yoshizawa T, Sata M, Kim-Mitsuyama S, Nakagata N, Bober E, Braun T, Kaikita K, Yamagata K, Tsujita K: Sirt7 deficiency attenuates neointimal formation following vascular injury by modulating vascular smooth muscle cells proliferation. **Circulation Journal** (in press)

## 2) Department of Molecular Genetics

1. Osumi H, Horiguchi H, Kadomatsu T, Tashiro K, Morinaga J, Takahashi T, Ikeda K, Ito T, Suzuki M, Endo M & Oike Y: Tumor cell-derived ANGPTL2 establishes a preference for glycolytic metabolism in lung cancer cells. **Cancer Science** 00:1–13, 2020
2. Hirata T, Arai Y, Yuasa S, Abe Y, Takayama M, Sasaki T, Kunitomi A, Inagaki H, Endo M, Morinaga J, Yoshimura K, Adachi T, Oike Y, Takebayashi T, Okano H & Hirose N: Associations of Cardiovascular Biomarkers and Plasma Albumin with Exceptional Survival to the Highest Ages. **Nature Communications** 11:3820, 2020
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4. Fukami H, Morinaga J, Miyata K, Okadome Y, Nishiguchi Y, Iwata Y, Kanki T, Nakagawa T, Izumi Y, Kakizoe Y, Kuwabara T, Horiguchi H, Sato M, Kadomatsu T, Miyata K, Tajiri T, Oike Y & Mukoyama M: Circulating Angiopoietin-like protein 2 levels and arterial stiffness in patients receiving maintenance hemodialysis: a cross-sectional study *Atherosclerosis*. **Atherosclerosis** 315:18-23, 2020
5. Wei S, Isagawa T, Eguchi M, Sato D, Tsukano H, Miyata K, Oike Y, Takeda N, Ikeda S, Kawano H & Maemura K: Febuxostat, a xanthine oxidase inhibitor, decreased macrophage matrix metalloproteinases expression in hypoxia. **Biomedicines** 8(11): E470, 2020

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  7. Horiguchi H, Kadomatsu T, Miyata K, Terada K, Sato M, Torigoe D, Morinaga J, Toshiro Moroishi & Oike Y: Stroma-derived ANGPTL2 establishes an anti-tumor microenvironment during intestinal tumorigenesis. **Oncogene** 40: 55-67, 2021
- 3) Department of Metabolic Medicine
1. Komorita T, Fujisue K, Sueta D, Sakamoto K, Yamamoto E, Hashimoto Y, Sakamoto T, Tsunoda R, Uesugi H, Suzuki R, Naito H, Hanzawa K, Araki E, Nakayama H, Kasaoka S, Hokimoto S, Fukui T, Tsujita K: Clinical Features of Patients with Acute Aortic Dissection After an Earthquake ~ Experience from The Kumamoto Earthquake 2016~. **Am J Hypertens** 33(3):261-268, 2020
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  4. Mathieu C, Rudofsky G, Phillip M, Araki E, Lind M, Arya N, Thorén F, Scheerer MF, Iqbal N, Dandona P: Long-term efficacy and safety of dapagliflozin in patients with inadequately controlled type 1 diabetes (the DEPICT-2 study): 52-week results from a randomized controlled trial. **Diab, Obesity & Metab** 22(9). 1516-1526. 2020.
  5. Kawashima J, Araki E, Naruse M, Kurihara I, Takahashi K, Tamura K, Kobayashi H, Okamura S, Miyauchi S, Yamamoto K, Izawa S, Suzuki T, Tanabe A: Baseline

Plasma Aldosterone Level and Renin Activity Allowing Omission of Confirmatory Testing in Primary Aldosteronism. **J Clin Endocrinol & Metab**105(5), 2020

6. Haneda M, Noda M, Origasa H, Noto H, Yabe D, Fujita Y, Goto A, Kondo T, Araki E: Correction to: Japanese Clinical Practice Guideline for Diabetes 2016. **Diabetology Intl** 11(2)163, 2020
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13. Morita Y, Senokuchi T, Yamada S, Wada T, Furusho T, Matsumura T, Ishii N, Nishida S, Nishida S, Motoshima H, Komohara Y, Yamagata K, Araki E. Impact of

tissue macrophage proliferation on peripheral and systemic insulin resistance in obese mice with diabetes. **BMJ Open Diabetes Res Care.** 8(1): e001578. 2020.

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  15. Teramoto K, Tsurekawa Y, Suico MA, Kaseda S, Omachi K, Yokota T, Kamura M, Piruzyan M, Kondo T, Shuto T, Araki E, Kai H. Mild electrical stimulation with heat shock attenuates renal pathology in adriamycin-induced nephrotic syndrome mouse model. **Sci Rep.** 10(1):18719. 2020.
  16. Phillip M, Mathieu C, Lind M, Araki E, di Bartolo P, Bergenstal R, Heller S, Hansen L, Scheerer MF, Thoren F, Arya N, Xu J, Iqbal N, Dandona P; DEPICT-1 and DEPICT-2 Investigators. Long-Term Efficacy and Safety of Dapagliflozin in Patients with Inadequately Controlled Type 1 Diabetes: Pooled 52-Week Outcomes from the DEPICT-1 and -2 Studies. **Diabetes Obes Metab** 2020. In press.
- 4) Department of Cardiovascular Medicine
1. Shirakawa T, Fujisue K, Nakamura S, Yamamoto N, Oshima S, Matsumura T, Tsunoda R, Hirai N, Koide S, Tayama S, Kikuta K, Hirose T, Maruyama H, Fujimoto K, Kajiwara I, Sakamoto T, Nakao K, Sakaino N, Nagayoshi Y, Hokamaki J, Shimomura H, Sakamoto K, Yamamoto E, Izumiya Y, Kaikita K, Hokimoto S, Ogawa H, Tsujita K; INVITATION study investigators: Dose-Dependent Inhibitory Effect of Rosuvastatin in Japanese Patients with Acute Myocardial Infarction on Serum Concentration of Matrix Metalloproteinases-INVITATION Trial. **J Atheroscler Thromb.** (in press), 2021
  2. Kidoh M, Oda S, Nakato K, Sakabe D, Kanazawa H, Takashio S, Nakaura T, Nagayama Y, Sasao A, Hatemura M, Funama Y, Kaikita K, Tsujita K, Ikeda O, Azuma M, Hirai T: Assessment of Cardiac Implantable Electric Device Lead Perforation Using a Metal Artifact Reduction Algorithm in Cardiac Computed Tomography. **Eur J Radiol** (in press), 2021

3. Sakamoto K, Sato R, Tabata N, Ishii M, Yamashita T, Nagamatsu S, Motozato K, Yamanaga K, Hokimoto S, Sueta D, Araki S, Fujisue K, Arima Y, Takashio S, Fujimoto K, Shimomura H, Tsunoda R, Hirose T, Sato K, Kikuta K, Sakaino N, Nakamura S, Yamamoto N, Matsumura T, Kajiwara I, Tayama S, Sakamoto T, Nakao K, Oshima S, Yamamoto E, Kaikita K, Tsujita K; Kumamoto Intervention Conference Study (KICS) Investigators: Temporal trends in coronary intervention strategies and the impact on one-year clinical events: data from a Japanese multi-center real-world cohort study. ***Cardiovasc Interv Ther.*** (in press), 2021
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5. Kuyama N, Hamatani Y, Okada A, Irie Y, Nakai M, Takahama H, Yanagi Y, Jo Y, Kanzaki H, Yasuda S, Tsujita K, Izumi C: Comparison of Clinical Characteristics, Natural History and Predictors of Disease Progression in Patients with Degenerative Mitral Stenosis versus Rheumatic Mitral Stenosis. ***Am J Cardiol.*** (in press), 2021
6. Kimura T, Akahori H, Asakura M, Nakao K, Ozaki Y, Kimura K, Ako J, Noguchi T, Suwa S, Fujimoto K, Nakama Y, Morita T, Shimizu W, Saito Y, Hirohata A, Morita Y, Inoue T, Okamura A, Mano T, Wake M, Tanabe K, Shibata Y, Owa M, Tsujita K, Funayama H, Kokubu N, Kozuma K, Uemura S, Toubara T, Saku K, Oshima S, Nishimura K, Miyamoto Y, Ogawa H, Ishihara M; J-MINUET Investigators: Impact of Age on Gender Difference in Long-term Outcome of Patients with Acute Myocardial Infarction (From J-MINUET). ***Am J Cardiol.*** (in press), 2020
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  10. Oda S, Kidoh M, Morita K, Takashio S, Tsujita K: Histogram features of Fabry disease with pseudonormalization in native T1 mapping. **Eur Heart J Cardiovasc Imaging**. (in press), 2020
  11. Nakanishi N, Kaikita K, Ishii M, Kuyama N, Tabata N, Ito M, Yamanaga K, Fujisue K, Hoshiyama T, Kanazawa H, Hanatani S, Sueta D, Takashio S, Arima Y, Araki S, Usuku H, Nakamura T, Suzuki S, Yamamoto E, Soejima H, Matsushita K, Tsujita K: Development and assessment of total thrombus-formation analysis system-based bleeding risk model in patients undergoing percutaneous coronary intervention. **Int J Cardiol**. (in press), 2020
  12. Hoshiyama T, Ashikaga K, Tsujita K, Shibata Y: Efficacy of cryo-ablation during atrioventricular nodal reentrant tachycardia. **Heart Vessels**. (in press), 2020
  13. Tabata N, Weber M, Sugiura A, Öztürk C, Tsujita K, Nickenig G, Sinning JM: Impact of Cancer History on Clinical Outcome in Patients undergoing Transcatheter Edge-to-Edge Mitral Repair. **Clin Res Cardiol** (in press), 2020
  14. Usuku H, Yamamoto E, Nishi M, Komorita T, Takae M, Nishihara T, Oike F, Ishii M, Fujisue K, Sueta D, Araki S, Takashio S, Oda S, Misumi Y, Ueda M, Nakamura T, Kawano H, Soejima H, Sakamoto K, Kaikita K, Ando Y, Matsui H, Tsujita K: Temporal Change of Longitudinal strain after domino liver transplantation with liver grafts explanted from patients with hereditary amyloidogenic transthyretin amyloidosis. **Circ Rep** (in press), 2020
  15. Fujisue K, Yamanaga K, Nagamatsu S, Shimomura H, Yamashita T, Nakao K, Nakamura S, Ishihara M, Matsui K, Sakaino N, Miyazaki T, Yamamoto N, Koide S,

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