

## The Research Outputs of the fiscal year of 2021 (2021.1~2022.1)

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. Akter F, Tsuyama T, Yoshizawa T, Sobuz SU, Yamagata K: SIRT7 regulates lipogenesis in adipocytes through deacetylation of PPAR $\gamma$ 2. **J Diabetes Investig.** 12:1765-1774, 2021
2. Daikuzono H, Yamazaki M, Sato Y, Takahashi T, Yamagata K: Development of a DELFIA method to detect oncofetal antigen ROR1-positive exosomes. **Biochem Biophys Res Commun.** 12:578:170-176, 2021
3. 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 YK, 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. **Nat Metab.** 3:196-210, 2021

#### 2) Department of Molecular Genetics

1. 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(1): 55-67, 2021
2. Fukuda S, Kita S, Miyashita K, Iioka M, Murai J, Nakamura T, Nishizawa H, Fujishima Y, Morinaga J, Oike Y, Maeda N & Shimomura I: Identification and clinical associations of 3 forms of circulating T-cadherin in human serum. **J Clin Endocr Metab** 106(5): 1333-1344, 2021
3. Jang Y, Heo J Y, Lee M J, Zhu J, Seo C, Go D H, Yoon S K, Date Y, Oike Y, Sohn J-W, Shong M & Kweon G R: Angiopoietin-Like Growth Factor Involved in Leptin Signaling in the Hypothalamus. **Int J Mol Sci** 22(7): 3443, 2021

4. Ito N, Riyadh M A, Ahmad S A I, Hattori S, Kanemura Y, Kiyonari H, Abe T, Furuta Y, Shinmyo Y, Kaneko N, Hirota Y, Lupo G, Hatakeyama J, Abdulhaleem M F A, Anam M B, Yamaguchi M, Takeo T, Takebayashi H, Takebayashi M, Oike Y, Nakagata N, Shimamura K, Holtzman M J, Takahashi Y, Guillemot F, Miyakawa T, Sawamoto K & Ohta K: Dysfunction of the proteoglycan Tsukushi causes hydrocephalus through altered neurogenesis in the subventricular zone in mice. **Sci Transl Med** 13(587): e7896, 2021
5. Sato M, Kadomatsu T, Miyata K, Warren J, Tian Z, Zhu S, Horiguchi H, Makaju A, Bakhtina A, Morinaga J, Sugizaki T, Hirashima K, Yoshinobu K, Imasaka M, Araki M, Komohara Y, Wakayama T, Nakagawa S, Franklin S, Node K, Araki K & Oike Y: The lncRNA Caren antagonizes heart failure by inactivating DNA damage response and activating mitochondrial biogenesis. **Nat Commun** 12(1): 2529,2021
6. Tanaka C, Kurose S, Morinaga J, Takao N, Miyauchi T, Tsutsumi H, Shiojima I, Oike Y & Kimura Y: Serum angiopoietin-like protein 2 and NT-pro BNP levels and their associated factors in patients with chronic heart failure participating in a phase III cardiac rehabilitation program. **Int Heart J** 62(5): 980-987, 2021
7. Takeshita Y, Motohara T, Kadomatsu T, Doi T, Obayashi K, Oike Y, Katabuchi H & Endo M: Angiopoietin-like protein 2 decreases peritoneal metastasis of ovarian cancer cells by suppressing anoikis resistance. **Biochem Bioph Res Commun** 561:26-32, 2021
8. Okadome Y, Morinaga J, Fukami H, Hori K, Ito T, Sato M, Miyata K, Kuwabara T, Mukoyama M, Suzuki R, Tsunoda R & Oike Y: Hyperglycemia and Thrombocytopenia – Combinatorially Increase the Risk in Patients With Acute Myocardial Infarction Undergoing Veno-Arterial Extracorporeal Membrane Oxygenation - **Circ Rep** 3(12): 707-715, 2021
9. Fukami H, Morinaga J, Nakagami H, Hayashi H, Okadome Y, Matsunaga E, Kadomatsu T, Horiguchi H, Sato M, Sugizaki T, Kuwabara T, Miyata K, Mukoyama M, Morishita R & Oike Y: Vaccine targeting ANGPTL3 ameliorates dyslipidemia

and associated diseases in mouse models of obese dyslipidemia and familial hypercholesterolemia. **Cell Rep Med** 2(11): 100446, 2021

10. Zhao W, Morinaga J, Ukawa S, Endo M, Yamada H, Kawamura T, Wakai K, Tsushita K, Ando M, Suzuki K, Oike Y & Tamakoshi A: Plasma angiopoietin-like protein 2 levels and mortality risk among younger-old Japanese people: a population-based case-cohort study. **J Gerontol A Biol Sci Med Sci**, 2021 [Online ahead of print]

### 3) Department of Metabolic Medicine

1. Araki E, Tanaka A, Inagaki N, Ito H, Ueki K, Murohara T, Imai K, Sata M, Sugiyama T, Ishii H, Yamane S, Kadowaki T, Komuro I, Node K: Diagnosis, prevention, and treatment of cardiovascular diseases in people with type 2 diabetes and prediabetes: a consensus statement jointly from the Japanese Circulation Society and the Japan Diabetes Society. **Diabetology Intl** 12(1):1-51, 2021
2. Ueki K, Tanizawa Y, Nakamura J, Yamada Y, Inagaki N, Watada H, Shimomura I, Nishimura R, Miyoshi H, Abiko A, Katagiri H, Hayashi M, Shimada A, Naruse K, Fujimoto S, Fujiwara M, Shikata K, Okada Y, Araki E, Yamazaki T, Kadowaki T: J-BRAND Registry Group. Long-term safety and efficacy of alogliptin, a DPP-4 inhibitor, in patients with type 2 diabetes: a 3-year prospective, controlled, observational study. **BMJ Open Diab Res & Care** 9(1): e001787. 2021
3. 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: 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. **Diab, Obesity & Metab.** 23(2): 549-560, 2021
4. Yamashita S, Okazaki M, Okada T, Masuda D, Yokote K, Arai H, Araki E, Ishibashi S: Distinct Differences in Lipoprotein Particle Number Evaluation between GP-HPLC and NMR: Analysis in Dyslipidemic Patients Administered a Selective PPAR $\alpha$  Modulator, Pemafibrate. **J Atheroscler Thromb** 28(9):974-996. 2021
5. Araki E, Mathieu C, Shiraiwa T, Maeda H, Ikeda H, Thoren F, Arya N, Asano M, Iqbal N: Long-term (52-week) efficacy and safety of dapagliflozin as adjunct to insulin therapy in Japanese patients with type 1 diabetes: Subgroup analysis of the DEPICT-2 study. **Diabetes Obes Metab** 23(7):1496-1504. 2021

6. Tateishi R, Matsumura T, Okanoue T, Shima T, Uchino K, Fujiwara N, Senokuchi T, Kon K, Sasako T, Taniai M, Kawaguchi T, Inoue H, Watada H, Kubota N, Shimano H, Kaneko S, Hashimoto E, Watanabe S, Shiota G, Ueki K, Kashiwabara K, Matsuyama Y, Tanaka H, Kasuga M, Araki E, Koike K: LUCID study investigators. Hepatocellular Carcinoma Development in Diabetic Patients: A Nationwide Survey in Japan. **J Gastroenterol** 56(3):261-273, 2021
  
7. Yokote K, Yamashita S, Arai H, Araki E, Matsushita M, Nojima T, Suganami H, Ishibashi S: Effects of pemafibrate on glucose metabolism markers and liver function tests in patients with hypertriglyceridemia: a pooled analysis of six phase 2 and phase 3 randomized double-blind placebo-controlled clinical trials. **Cardiovasc Diabetol.** 20(1):96. 2021
  
8. Kondo T, Miyakawa N, Kitano S, Watanabe T, Goto R, Suico MA, Sato M, Takaki Y, Sakaguchi M, Igata M, Kawashima J, Motoshima H, Matsumura T, Kai H, Araki E: Activation of heat shock response improves biomarkers of NAFLD in patients with metabolic diseases. **Endocr Connect.** 10(5):521-533. 2021
  
9. Araki E, Mathieu C, Shiraiwa T, Maeda H, Ikeda H, Thoren F, Arya N, Asano M, Iqbal N: Long-term (52-week) efficacy and safety of dapagliflozin as adjunct to insulin therapy in Japanese patients with type 1 diabetes: Subgroup analysis of the DEPICT-2 study. **Diabetes Obes Metab** 23(7):1496-1504. 2021
  
10. Matsushima-Nagata K, Sugiuchi H, Anraku K, Takao T, Kondo Y, Ishitsuka Y, Irikura M, Irie T, Matsumura T, Araki E, Sumida M, Katayama Y, Kayahara N: A homogeneous assay to determine high-density lipoprotein subclass cholesterol in serum. **Anal Biochem** 613:114019. 2021
  
11. Nishikawa T, Kinoshita H, Ono K, Hashimoto S, Kobayashi Y, Nakamura T, Yoshinaga T, Ohkubo Y, Harada M, Toyonaga T, Takahashi T, Araki E: Clinical profiles of hyperglycemic crises: A single-center retrospective study from Japan. **J Diabetes Investig** 12(8):1359-1366, 2021
  
12. Kondo T, Kitano S, Miyakawa N, Watanabe T, Goto R, Sato M, Hanatani S, Sakaguchi M, Igata M, Kawashima J, Motoshima H, Matsumura T, Araki E: The

Amount of Residual Incretin Regulates the Pancreatic  $\beta$ -cell Function and Glucose Homeostasis. *Intern Med.* 60(9):1433-1442. 2021

13. Araki E, Terauchi Y, Watada H, Deenadayalan S, Christiansen E, Horio H, Kadowaki T: Efficacy and safety of oral semaglutide in Japanese patients with type 2 diabetes: A post hoc subgroup analysis of the PIONEER 1, 3, 4 and 8 trials. *Diabetes Obes Metab* 23(12):2785-2794. 2021
14. Ogawa W, Araki E, Ishigaki Y, Hirota Y, Maegawa H, Yamauchi T, Yorifuji T, Katagiri H: New classification and diagnostic criteria for insulin resistance syndrome. *Endocrine Journal*, 2021, in press.
15. Ogawa W, Araki E, Ishigaki Y, Hirota Y, Maegawa H, Yamauchi T, Yorifuji T, Katagiri H: New classification and diagnostic criteria for insulin resistance syndrome. *Diabetol Int*, 2021, in press.

#### 4) Department of Cardiovascular Medicine

##### (I. Original Articles)

1. Ogasawara K, Shiraishi S, Tsuda N, Sakamoto F, Oda S, Takashio S, Tsujita K, Hirai T. Usefulness of quantitative  $^{99m}\text{Tc}$ -pyrophosphate SPECT/CT for predicting the prognosis of patients with wild-type transthyretin cardiac amyloidosis. *Jpn J Radiol.* (in press), 2022
2. Takashio S, Yamada T, Nishi M, Morioka M, Fujiyama A, Nakashima N, Hirakawa K, Hanatani S, Usuku H, Yamamoto E, Ueda M, Matsushita K, Tsujita K. Sex-related differences in the clinical characteristics of wild-type transthyretin amyloidosis cardiomyopathy. *J Cardiol.* 79(1):50-57. 2022
3. Yamanaka F, Tsujita K, Saito S. Periodontal Disease as a Potential Risk Factor of Cardiovascular Disease. *Circ J.* (in press), 2021
4. Fujisue K, Yamamoto E, Sueta D, Takae M, Nishihara T, Komorita T, Usuku H, Yamanaga K, Ito M, Hoshiyama T, Kanazawa H, Takashio S, Arima Y, Araki S, Soejima H, Kaikita K, Matsushita K, Tsujita K. Increased soluble programmed cell death-ligand 1 is associated with acute coronary syndrome. *Int J Cardiol.* (in press), 2021

5. Nagayoshi Y, Yufu T, Miyamoto S, Yumoto S, Hashiyama M, Kai Y, Kawano H, Tsujita K. Clinical Features of Patients with Heart Failure After the 2016 Kumamoto Earthquakes. ***Disaster Med Public Health Prep.*** (in press), 2021
6. Konishi M, Kojima S, Uchiyama K, Yokota N, Tokutake E, Wakasa Y, Hiramitsu S, Waki M, Jinnouchi H, Kakuda H, Hayashi T, Kawai N, Sugawara M, Mori H, Tsujita K, Matsui K, Hisatome I, Ohya Y, Kimura K, Saito Y, Ogawa H. Febuxostat for Cerebral and Cardiorenovascular Events Prevention Study (FREED) investigators. Effect of febuxostat on clinical outcomes in patients with hyperuricemia and cardiovascular disease. ***Int J Cardiol.*** (in press), 2021
7. Hayashi H, Oda S, Kidoh M, Nakaura T, Morita K, Nagayama Y, Yoneda T, Takashio S, Misumi Y, Ueda M, Tsujita K, Hirai T. Can myocardial susceptibility quantification be an imaging biomarker for cardiac amyloidosis? ***Jpn J Radiol.*** (in press), 2021
8. Yamashita T, Arima Y, Hoshiyama T, Tabata N, Sueta D, Kawahara Y, MDA, Ito M, Kanazawa H, Ishii M, Yamanaga K, Hanatani S, Takashio S, Araki S, Suzuki S, Yamamoto E, Kaikita K, Oniki K, Saruwatari J, Matsushita K, Tsujita K. Effect of the ALDH2 Variant on the Prevalence of Atrial Fibrillation in Habitual Drinkers. ***JACC:Asia*** (in press), 2021
9. Izumi C, Miyake M, Fujita T, Koyama T, Tanaka H, Ando K, Komiya T, Izumo M, Kawai H, Eishi K, Yoshida K, Kimura T, Nawada R, Sakamoto T, Shibata Y, Fukui T, Minatoya K, Tsujita K, Sakata Y, Takegami M, Kimura T, Sugio K, Takita A, Nishimura K, Furukawa Y. BPV-AF Registry Group. Antithrombotic Therapy for Patients With Atrial Fibrillation and Bioprosthetic Valves - Real-World Data From the Multicenter, Prospective, Observational BPV-AF Registry. ***Circ J.*** (in press), 2021
10. Kojima S, Uchiyama K, Yokota N, Tokutake E, Wakasa Y, Hiramitsu S, Waki M, Jinnouchi H, Kakuda H, Hayashi T, Kawai N, Sugawara M, Mori H, Tsujita K, Matsui K, Hisatome I, Ohya Y, Kimura K, Saito Y, Ogawa H. Febuxostat for Cerebral and Cardiorenovascular Events Prevention Study (FREED) investigators. Optimal uric

- acid levels by febuxostat treatment and cerebral, cardiorenovascular risks: post hoc analysis of a randomised controlled trial. **Rheumatology** (Oxford). (in press), 2021
11. Fujisue K, Yamamoto E, Sueta D, Arima Y, Hirakawa K, Tabata N, Ishii M, Ito M, Yamanaga K, Hanatani S, Hoshiyama T, Kanazawa H, Takashio S, Araki S, Usuku H, Nakamura T, Soejima H, Kaikita K, Kawano H, Matsushita K, Tsujita K. A Randomized, Double-Blind Comparison Study of Royal Jelly to Augment Vascular Endothelial Function in Healthy Volunteers. **J Atheroscler Thromb.** (in press), 2021
  12. Egashira K, Sueta D, Komorita T, Yamamoto E, Usuku H, Tokitsu T, Fujisue K, Nishihara T, Oike F, Takae M, Hanatani S, Takashio S, Ito M, Yamanaga K, Araki S, Soejima H, Kaikita K, Matsushita K, Tsujita K. HFA-PEFF Score: A Prognostic Value in Heart Failure with preserved Left Ventricular Ejection Fraction Patients. **Korean J Intern Med.** (in Press), 2021
  13. Ishida T, Arima Y, Mizuno Y, Harada E, Yamashita T, Sueta D, Sakamoto K, Suzuki S, Kaikita K, Yamada Y, Shimomura H, Oniki K, Saruwatari J, Hokimoto S, Yasue H, Tsujita K. East Asian variant aldehyde dehydrogenase type 2 genotype exacerbates ischemia/reperfusion injury with ST-elevation myocardial infarction in men: possible sex differences. **Heart Vessels.** (in press), 2021
  14. Akasaka F, Sueta D, Ishii M, Maki Y, Hirakawa K, Tabata N, Ito M, Yamanaga K, Fujisue K, Hoshiyama T, Hanatani S, Kanazawa H, Takashio S, Arima Y, Araki S, Usuku H, Nakamura T, Suzuki S, Yamamoto E, Soejima H, Kaikita K, Matsushita K, Matsuoka M, Usuku K, Tsujita K. Validation of the Khorana venous thromboembolism risk score in Japanese cancer patients. **JACC: Asia** (in press), 2021
  15. Kurogi K, Ishii M, Ikebe S, Kaichi R, Mori T, Komaki S, Yamamoto N, Yamanaga K, Arima Y, Yamamoto E, Kaikita K, Matsushita K, Tsujita K. Optical coherence tomography-versus intravascular ultrasound-guided stent expansion in calcified lesions. **Cardiovasc Interv Ther.** (in press), 2021
  16. Ishii M, Marume K, Nakai M, Ogata S, Kaichi R, Ikebe S, Mori T, Komaki S, Kusaka H, Toida R, Kurogi K, Ogawa H, Iwanaga Y, Miyamoto Y, Yamamoto N, Tsujita K.

- Risk Prediction Score for Cancer Development in Patients With Acute Coronary Syndrome. *Circ J* (in press), 2021
17. Watanabe Y, Fujita T, Doi H, Tobaru T, Takanashi S, Kinoshita Y, Okawa Y, Fuku Y, Komiya T, Tsujita K, Fukui T, Shimokawa T, Kozuma K. Prospective multicenter registry of hybrid coronary artery revascularization combined with non-saphenous vein graft surgical bypass and percutaneous coronary intervention using everolimus eluting metallic stents (PRIDE-METAL study). *Cardiovasc Interv Ther.* (in press), 2021
  18. Kidoh M, Oda S, Nakaura T, Nagayama Y, Funama Y, Takashio S, Kaikita K, Tsujita K, Hirai T. Myocardial Tissue Characterization by Combining Extracellular Volume Fraction and T2 Mapping. *JACC Cardiovasc Imaging.* (in press), 2021
  19. 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
  20. 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
  21. Kawano Y, Sasano T, Arima Y, Kushima S, Tsujita K, Matsuoka M, Hata H. A novel PDK1 inhibitor, JX06, inhibits glycolysis and induces apoptosis in multiple myeloma cells. *Biochem Biophys Res Commun.* 587:153-159, 2021



22. Oda S, Morita K, Kidoh M, Nagayama Y, Nakaura T, Shirahama Y, Tsurusaki Y, Matsushita K, Tsujita K, Hirai T. Three-Dimensional Modified Dixon ECG-Gated Cardiac Magnetic Resonance Imaging in Arrhythmogenic Right Ventricular Cardiomyopathy/Dysplasia. ***Circ Cardiovasc Imaging***. 14(10):e012745, 2021
23. Oike F, Usuku H, Yamamoto E, Yamada T, Egashira K, Morioka M, Nishi M, Komorita T, Hirakawa K, Tabata N, Yamanaga K, Fujisue K, Hanatani S, Sueta D, Arima Y, Araki S, Takashio S, Oda S, Misumi Y, Kawano H, Matsushita K, Ueda M, Matsui H, Tsujita K. Prognostic Value of Left Atrial Strain in Patients with Wild-type Transthyretin Amyloid Cardiomyopathy. ***ECS Heart Fail***. 8(6):5316-5326, 2021
24. Maki Y, Sueta D, Ishii M, Yamanouchi Y, Fujisue K, Yamanaga K, Nakamura T, Tabata N, Arima Y, Araki S, Yamamoto E, Kaikita K, Chikamoto A, Matsushita K, Matsuoka M, Usuku K, Tsujita K. Associations of cardiovascular risk factors with survival outcomes in a cancer registration: Findings from the KUMAMON registry. ***Medicine (Baltimore)***. 100(47):e27921. 2021
25. 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 Cell Proliferation. ***Circ J***. 85(12):2232-2240, 2021
26. Kurogi K, Ishii M, Sakamoto K, Tsujita K. Observing an Aorto-Ostial Lesion using TELESCOPE in Optical Coherence Tomography-Guided Percutaneous Coronary Intervention. ***EuroIntervention*** (in press), 2020
27. Ishii M, Seki T, Kaikita K, Sakamoto K, Nakai M, Sumita Y, Nishimura K, Miyamoto Y, Noguchi T, Yasuda S, Kanaoka K, Terasaki S, Saito Y, Tsutsui H, Komuro I, Ogawa H, Tsujita K, Kawakami K; on the behalf of the JROAD Investigators. Association of short-term exposure to air pollution with myocardial infarction with and without obstructive coronary artery disease. ***Eur J Prev Cardiol***. 28(13):1435-1444, 2021

28. Seya D, Xu Y, Mukunoki T, Tsujita K, Nakagawa O, Arima Y. Sample Preparation for Computed Tomography-based Three-dimensional Visualization of Murine Hind-limb Vessels. **J Vis Exp.** 176:e63009, 2021
29. Kanazawa H, Kaikita K, Ito M, Kawahara Y, Hoshiyama T, Kanemaru Y, Kiyama T, Iwashita S, Tabata N, Yamanaga K, Fujisue K, Sueta D, Takashio S, Arima Y, Araki S, Usuku H, Nakamura T, Izumiya Y, Sakamoto K, Suzuki S, Yamamoto E, Soejima H, Matsushita K, Tsujita K. Improvement of Vascular Endothelial Function Reflects Non-Recurrence after Catheter Ablation for Atrial Fibrillation. **J Am Heart Assoc.** 10(17):e021551, 2021
30. Hanatani S, Izumiya Y, Yamamoto M, Araki S, Fujisue K, Arima Y, Takashio S, Yamamoto E, Kaikita K, Matsushita K, Tsujita K. A simple method of sarcopenia detection can predict adverse cardiovascular events in patients with abdominal obesity. **Int J Obes.** 45(10):2214-2220, 2021
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32. Hashimoto Y, Ozaki Y, Kan S, Nakao K, Kimura K, Ako J, Noguchi T, Suwa S, Fujimoto K, Dai K, 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, Tobaru T, Saku K, Oshima S, Yasuda S, Tefvik F Ismail, Muramatsu T, Izawa H, Takahashi H, Nishimura K, Miyamoto Y, Ogawa H, Ishihara M on behalf of J-MINUET Investigators. Impact of Chronic Kidney Disease on In-Hospital and 3-Year Clinical Outcomes in Patients With Acute Myocardial Infarction Treated by Contemporary Percutaneous Coronary Intervention and Optimal Medical Therapy - Insights From the J-MINUET Study - **Circ J** 85(10):1710-1718, 2021
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- oxygenation in patients with acute heart failure. **ESC Heart Fail.** 8(4):3354-3359, 2021
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35. Yamamoto M, Hanatani S, Araki S, Izumiya Y, Yamada T, Nakanishi N, Ishida T, Yamamura S, Kimura Y, Arima Y, Nakamura T, Takashio S, Yamamoto E, Sakamoto K, Kaikita K, Matsushita K, Morimoto S, Ito T, Tsujita K. HE4 Predicts Progressive Fibrosis and Cardiovascular Events in Patients With Dilated Cardiomyopathy. **J Am Heart Assoc.** 10(15):e021069, 2021
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37. Egashira K, Sueta D, Tomiguchi M, Kidoh M, Oda S, Usuku H, Hidaka K, Goto-Yamaguchi L, Sueta A, Komorita T, Takae M, Oike F, Fujisue K, Yamamoto E, Hanatani S, Takashio S, Arima Y, Araki S, Kaikita K, Matsushita K, Yamamoto Y, Hirai T, Tsujita K. Cardiac computed tomography-derived extracellular volume fraction in late anthracycline-induced cardiotoxicity. **Int J Cardiol Heart Vasc.** 34: 100797. 2021
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