

## The Research Outputs of the fiscal year of 2025

### 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. Fukuda K, Haneda M, Kubota N, Araki E, Yamagata K: Age-related glucose intolerance is associated with impaired insulin secretion in community-dwelling Japanese adults: The Kumamoto Koshi Study. *Biomedicines* 13:380, 2025
2. Kibria MG, Yoshizawa T, Zhang T, Ono K, Mizumoto T, Sato Y, Sawa T, Yamagata K: SIRT7 is a lysine deacylase with a preference for depropionylation and demyristoylation. *Int. J. Mol. Sci.* 26: 3153, 2025.
3. Wu L, Guo W, Wang H, Yang Y, Zhang H, He L, Chen J, He K, Wang X, Kang P, Chen J, Jiang L, Guo S, Chang Y, Jian Z, Li S, Sato Y, Yamagata K, Gao T, Li C: SIRT7 facilitates ferroptosis resistance of melanocytes via activating the SMAD3-ATF3-GPX4 signaling pathway in vitiligo. *J. Adv Res.*: S2090-1232 (in press)
4. Tanimura S, Tokunaga T, Kawakami J, Xiao T, Goshogawa H, Tsuyama T, Karasugi T, Yamagata K, Miyamoto T: Enthesis-related progenitors recruited from the subacromial bursa contribute to rotator cuff healing in rat. *Journal of Shoulder and Elbow Surgery* S1058-2746 (in press)

##### 2) Department of Molecular Genetics

1. Yumoto S, Horiguchi H, Miyata K, Kadomatsu T, Tian Z, Sato M, Araki K, Iwatsuki M, Oike Y: Context-dependent roles of ANGPTL2-mediated inflammaging in tissue homeostasis, pathological tissue remodeling, and longevity. *Aging Cell* 25: e70370, 2026
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- K, Oike Y: Long-term intake of Tamogi-take mushroom (*Pleurotus cornucopiae*) mitigates age-related cardiovascular dysfunction and extends healthy life expectancy. *npj Aging* 11: 1, 2025
4. Yamamura S, Horiguchi H, Kadomatsu T, Miyata K, Torigoe D, Suzuki T, Sato M, Araki K, Suzuki A, Fukushima S, Oike Y: Aging-associated mitochondrial decline accelerates skin aging and obesity. *J Invest Dermatol* 145: 2464-2473, 2025
  5. Horiguchi H, Kadomatsu T, Oike Y: The two faces of Angiopoietin-like protein 2 in cancer. *Cancer Sci* 116: 592-599, 2025
  6. Fukami H, Oike Y: ANGPTL3: a breakthrough target in treatment for dyslipidemia and atherosclerosis. *J Atheroscler Thromb* 32: 1071-1078, 2025
  7. Horino T, Horiguchi H, Yumoto S, Kadomatsu T, Ohuchi M, Ogawa K, Hiyoshi Y, Miyamoto Y, Iwatsuki M, Oike Y: Angiopoietin-like protein 2 expression is associated with host wasting-related poor prognosis in colorectal cancer. *J Surg Res* 310: 239-248, 2025
  8. Nishizawa H, Funasaki S, Ma W, Kubota Y, Watanabe K, Arima Y, Kuroda S, Ito T, Furuya M, Motoshima T, Nishiyama A, Mehanna S, Satou Y, Hasumi H, Ikuya R, Makiyama K, Tamura T, Oike Y, Tanaka Y, Suda T, Schmidt S L, Linehan M W, Baba M, Kamba T: HIF1 $\alpha$  plays a crucial role in the development of TFE3-rearranged renal cell carcinoma by orchestrating a metabolic shift toward fatty acid synthesis. *Genes Cells* 30: e13195, 2025
  9. Asrani K, Amaral A, Woo J, Abadchi N S, Vidotto T, Imada E, Skaist A, Feng K, Liu B H, Kasbe M, Satou Y, Baba M, Oike Y, Outeda P, Watnick T, Rosenberg Z A, Schmidt L, Linehan M W, Argani P, Lotan L T: SFPQ-TFE3 reciprocally regulates mTORC1 and induces lineage plasticity in a mouse model of renal tumorigenesis. *Nat Commun* 16: 8822, 2025

### 3) Department of Metabolic Medicine

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3. Kondo T, Senokuchi T, Morinaga J, Miyashita A, Yano M, Takeda H, Nishida K, Kubota N. The benefits and accuracy of real-time continuous glucose monitoring in children and adolescents with type 1 diabetes attending a summer camp. *J Diabetes Investig.* 16(1):154-162. 2025.
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5. Kadowaki Y, Aoyama T, Hada Y, Aihara M, Sawada M, Sekine R, Itoh H, Kadowaki T, Kubota N, Yamauchi T. Effects of rapid weight loss on the body composition and pathophysiological mechanisms involved in obesity. *Endocr J.* 72(3):307-317, 2025.
6. Hamano S, Sawada M, Kubota N. Reply to the Letters by Louie and Pereira et al. *Diabetes Obes. Metab.* 27:1622-1625, 2025.
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10. Kajihara N, Senokuchi T, Maeda S, Hanatani S, Ono K, Igata M, Kubota N. A Case Report of Graves' Disease Diagnosed during an Evaluation of an Abnormal Opacity on a Chest X-ray with a Review of The Pertinent Literature. *Intern Med.* 2025 *In Press*

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#### 4) Department of Cardiovascular Medicine

1. Fujiyama A, Arima Y, Inoue R, Kuyama N, Yamamoto M, Hirakawa K, Ishii M, Hanatani S, Matsuzawa Y, Yamamoto E, Izumiya Y, Komatsu M, Kamikubo Y, Tsujita K. Profiling Initial Thrombin Generation in Cardiovascular Disease using a High Sensitivity Coagulation Assay. *Thromb Haemost.* (in Press), 2025
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  8. Shirahama Y, Usuku H, Yamamoto E, Yoshinouchi T, Higashi R, Nozuhara A, Oike F, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Arima Y, Kawano H, Izumiya Y, Tanaka Y, Tsujita K. Apical Longitudinal Strain: A Key Prognostic Echocardiographic Marker in Patients Undergoing TAVI. *Int J Cardiol Heart Vasc.* 19:62:101844, 2025
  9. Tokai T, Ishii M, Otsuka Y, Ikebe S, Nakamura T, Tsujita K, Akashi N, Fujita H, Nakano Y, Matoba T, Kohro T, Oba Y, Kabutoya T, Kario K, Imai Y, Kiyosue A, Mizuno Y, Nochioka K, Nakayama M, Iwai T, Miyamoto Y, Sato H, Sato H, Nagai R, CLIDAS research group. Proton Pump Inhibitor Use, Gastrointestinal Bleeding Reduction, and Long-Term Prognosis After Percutaneous Coronary Intervention. *Am J Cardiol.* 1:252:8-87, 2025
  10. Usuku H, Yamamoto E, Miyazaki K, Higashi R, Nozuhara A, Oike F, Kuyama N, Tabata N, Ishii M, Hanatani S, Hoshiyama T, Kanazawa H, Sueta D, Arima Y, Oda S, Kawano H, Matsuzawa Y, Izumiya Y, Ueda M, Tanaka Y, Tsujita K. Clinical significance of the estimation of pulmonary-right ventricular uncoupling in patients with transthyretin amyloid cardiomyopathy. *Eur Heart J Imaging Methods Pract.* 3(1): qyae113, 2025
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## ● Data Science/Omics Analysis Research and Support Division

### 26) Immunogenome Structure Laboratory

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