

The Research Outputs of the fiscal year of 2024

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. Yamagata K, Mizumoto T, Yoshizawa T: The emerging role of SIRT7 in glucose and lipid metabolism. *Cells* 13: 48, 2024
2. Yamagata K, Tsuyama T, Sato Y: Roles of β -cell hypoxia in the pathogenesis of type 2 diabetes. *Int. J. Mol. Sci.* 25: 4186, 2024
3. 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* (in press)

2) Department of Molecular Genetics

1. Sato M, Kadomatsu T, Morinaga J, Kinoshita Y, Torigoe D, Horiguchi H, Ohtsuki S, Yamamura S, Kusaba R, Yamaguchi T, Yoshioka G, Araki K, Wakayama T, Miyata K, Node K, Oike Y: HINT1 suppression protects against age-related cardiac dysfunction by enhancing mitochondrial biogenesis. *Mol Metab*, 2025 in press
2. Sato M, Torigoe D, Kinoshita Y, Cyuman M, Toda C, Sato M, Ikeda K, Kadomatsu T, Horiguchi H, Morinaga J, Fukami H, Sugizaki T, Miyata K, Kusaba R, Okadome Y, Matsunaga E, Node 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
3. Horiguchi H, Kadomatsu T, Oike Y: The two faces of Angiopoietin-like protein 2 in cancer. *Cancer Sci*, 2024 Online ahead of print
4. 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* 31: 933–940, 2024

5. Horino T, Horiguchi H, Yumoto Y, Kadomatsu T, Hara Y, Yagi T, Baba Y, Miyamoto Y, Baba H, Oike: Angiopoietin-like protein 2 expression in tumor cells supports tumor-associated macrophage-induced tumor progression in esophageal cancer.
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7. Yamashita T, Horiguchi H, Kadomatsu T, Sato M, Moroishi T, Oike Y: Immunotherapy-induced reprogramming of cancer-associated fibroblasts can promote tumor progression.
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8. Terada K, Endo M, Kiyonari H, Takeda H, Oike Y: Loss of Dj2 accompanies pH deviation in lysosomes and lysosome-related organelles.
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9. Tang J, Funasaki S, Nishizawa H, Kuroda S, Motoshima T, Wu C, Mawas S A, Satou Y, Arima Y, Hasumi H, Jikuya R, Makiyama K, Oike Y, Tanaka Y, Baba M, Kamba T: ARID2 deficiency enhances tumor progression via ERBB3 signaling in TFE3-rearranged renal cell carcinoma. *Curr Issues Mol Biol* 46: 13675–13695, 2024

3) Department of Metabolic Medicine

1. Sasako T, Suzuki K, Odawara S, Suwanai H, Akuta N, Kubota N, Ueki K, Kadowaki T, Yamauchi T. Corticosteroid-triggered acute skeletal muscle loss in lipodystrophy: A case report.
J. Diabetes Investig. 15:782-785, 2024.
2. Hasegawa S, Nangaku M, Takenaka Y, Kitayama C, Li Q, Saipidin M, Hong YA, Shang J, Hirabayashi Y, Kubota N, Kadowaki T, Inagi R. Organelle communication maintains mitochondrial and endosomal homeostasis during podocyte lipotoxicity.
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3. Sakurai Y, Kubota N*, Takamoto I, Wada N, Aihara M, Hayashi T, Kubota T, Hiraike Y, Sasako T, Nakao H, Aiba A, Chikaoka Y, Kawamura T, Kadowaki T, Yamauchi T*. Overexpression of

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4. Tanemura N, Kubota T, Kubota N, Chiba T. Relationship between body adiposity parameters and insulin resistance: a preliminary study of surrogate markers in Japan.
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14. Hamano S, Sawada M, Kubota N*. Reply to the Letters by Louie and Pereira et al.
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4) Department of Cardiovascular Medicine

1. Usuku H, Yamamoto E, Miyazaki H, 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):qyae, 2025
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5) Department of Cell Pathology

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6) Department of Nephrology

1. Ikushima A, Ishimura T, ...Yokoi H: Deletion of p38 MAPK in macrophages ameliorates peritoneal fibrosis and inflammation in peritoneal dialysis. *Sci Rep* 14: 21220, 2024.
2. Toda N, Komiya T,Yokoi H: Daily change of peritoneal ultrafiltration volume in patients with hybrid dialysis. *Ther Apher Dial* 29: 89-95, 2025
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● Division of Cancer and Stem Cell Research

7) Department of Gastroenterological Surgery

1. 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
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