

Curriculum Vitae

Dongryeol Ryu

Associate professor
Gwangju Institute of Science and Technology (GIST), Korea



- Educational Background & Professional Experience**

2023-	GIST, Korea, Associate professor
2019-2023	SKKU, Korea, Assistant professor
2017-2019	PNU, Korea, Assistant professor
2010-2017	EPFL, Switzerland, Senior Scientist and Postdoc fellow
2006-2010	SKKU, Korea, PhD in Molecular Cell Biology

- Research Interests**

Aging, Energy metabolism, Skeletal muscle, Liver, Mitochondria and their associated diseases

- Publications**

1. J. Lee, H. Lee, E. J. Jin, D. Ryu* and G. H. Kim*: 3D bioprinting using a new photo-crosslinking method for muscle tissue restoration. *NPJ Regen Med.* (2023) doi: 10.1038/s41536-023-00292-5
2. H. Hwangbo, H. Lee, E. J. Jin, Y. Jo, J. Son, H. M. Woo, D. Ryu* and G. H. Kim*: Photosynthetic Cyanobacteria can Clearly Induce Efficient Muscle Tissue Regeneration of Bioprinted Cell-Constructs. *Advanced Functional Materials* (2022) doi:10.1002/adfm.202209157
3. J. Kim, Y. Jo, D. H. Cho and D. Ryu: L-threonine promotes healthspan by expediting ferritin-dependent ferroptosis inhibition in *C. elegans*. *Nat Commun* (2022). doi: 10.1038/s41467-022-34265-x
4. B. E. Kang, A. Park, H. Yang, Y. Jo, T. G. Oh, S. M. Jeong, Y. Ji, H. L. Kim, H. N. Kim, J. Auwerx, S. Nam, C. Y. Park and D. Ryu: Machine learning-derived gut microbiome signature predicts fatty liver disease in the presence of insulin resistance. *Sci Rep*, (2022) doi:10.1038/s41598-022-26102-4
5. Y. Jo, M.K. Yeo, T. Dao, J. Kwon, H.S. Yi, D. Ryu, Machine learning-featured Secretogranin V is a circulating diagnostic biomarker for pancreatic adenocarcinomas associated with adipopenia. *Front. Oncol* (2022) doi: 10.3389/fonc.2022.942774