Jin LIU
Assistant Professor
Chinese Medicine - Teaching and Research Division
Email: liujin@hkbu.edu.hk

Chinese Name
劉進

Employment
Assistant Professor
Chinese Medicine - Teaching and Research Division
Hong Kong Baptist University
Hong Kong
1 Sept 2021 → present

Research outputs
The Role of Sclerostin in Lipid and Glucose Metabolism Disorders
Jiang, H., Li, D., Han, Y., Li, N., Tao, X., Liu, J., Zhang, Z., Yu, Y., Wang, L., Yu, S., Zhang, N., Xiao, H., Yang, X., Zhang, Y., Zhang, G. & Zhang, B-T., Sept 2023, In: Biochemical Pharmacology. 215, 115694.

Knockdown of skeletal muscle-related micrornas positively affects bone mass and microstructure in mice
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Targeted inhibition of mitochondrial dysfunction via tetrahedral framework nucleic acid attenuates osteoarthritis progression
Xue, S., Zhang, C., Zhong, C., Li, N., Li, Z., Liu, J. & Ding, C., 4 May 2023, p. 399-400. 2 p.

A transgenic reporter mouse line reveals exosome mediated muscle-bone crosstalk
Li, N., Ma, S., Li, P., Li, D., Zhong, C., Li, Z., Zhang, H., Zhang, Z., Lu, J., Zhang, B., Lu, A., Zhang, G. & Liu, J., May 2023
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Design, Synthesis and Evaluation of Novel Exosome Inhibitors
Zhang, H., Zuo, Y., Li, Z., Li, N., Zhong, C., Zhang, B., Lu, A., Lu, J., Zhang, G. & Liu, J., May 2023.

Elevated 11β-hsd1 in osteoblast impaired glucose uptake and osteogenesis to exacerbate high-fat diet-induced obesity and bone loss
Zhong, C., Li, N., Wang, S., Li, D., Li, Z., ZHANG, H., Xue, S., Lu, A., Ren, F., Liu, J. & Zhang, G., May 2023, p. 262-263. 2 p.

Macrophagic Sclerostin Loop2-ApoER2 Interaction Required by Sclerostin for Suppressing Inflammatory Responses (Abstract)
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Sclerostin loop3-LRP4 Interaction Required by Sclerostin for Lipid and Glucose Metabolism Impairment in Adipocyte
Jiang, H., Li, D., Wang, L., Zhang, N., Yu, S., Zhang, H., Liu, J., Ma, D., Lu, A., Sheng, H., Zhang, B. & Zhang, G., May 2023, In: Metabolism: Clinical and Experimental. 142, Supplement, 1 p., 155432.

Sclerostin Loop3 Participates in Whole-body Lipid and Glucose Metabolism Impairment Effects of Sclerostin (Abstract)
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The roles of hepatokine and osteokine in liver-bone crosstalk: Advance in basic and clinical aspects
LI, Z., Wen, X., LI, N., ZHONG, C., Chen, L., Zhang, F., ZHANG, G., Lu, A. & LIU, J., 6 Apr 2023, In: Frontiers in Endocrinology. 14, 1149233.

Targeted inhibition of osteoclastogenesis reveals the pathogenesis and therapeutics of bone loss under sympathetic neurostress
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Targeting loop3 of sclerostin preserves its cardiovascular protective action and promotes bone formation
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Drug discovery of sclerostin inhibitors
Yu, S., Li, D., Zhang, N., Ni, S., Sun, M., Wang, L., Xiao, H., Liu, D., Liu, J., Yu, Y., Zhang, Z., Yeung, S. T. Y., Zhang, S., Lu, A., Zhang, Z., Zhang, B. & Zhang, G., May 2022, In: Acta Pharmaceutica Sinica B. 12, 5, p. 2150-2170 21 p.

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Li, F., Wu, X., Fu, X., Liu, J., Song, W., Xiao, G. G., Lu, A. & Zhang, G., Jan 2022, In: International Journal of Biological Sciences. 18, 3, p. 1238-1253 16 p.

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Zhang, G. & Liu, J., 5 Oct 2021, In: Cell Metabolism. 33, 10, p. 1903-1905 3 p.

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Liu, J., Wu, X., Lu, J., Huang, G., Dang, L., Zhang, H., Zhong, C., Zhang, Z., Li, D., Li, F., Liang, C., Yu, Y., Zhang, B. T., Chen, L., Lu, A. & Zhang, G., Apr 2021, In: Nature Aging. 1, 4, p. 368–384 17 p.

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Sclerostin loop3: a potential target for developing a next generation sclerostin inhibitor for bone anabolic therapy with low cardiovascular concern (Abstract)
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Grants

Projects

Blocking exosome release from atrophic skeletal muscle to strengthen bone: a novel therapeutic strategy for muscle atrophy-associated bone loss?
LIU, J.
1/01/24 → 30/06/26

Understanding the mechanical loading-independent communication from skeletal muscle to bone: the role of muscle-derived exosomal miR-206 in regulating bone formation during muscle atrophy
LIU, J.
1/01/17 → 31/12/19

Unraveling a novel mechanism of bone-cartilage crosstalk: the osteoclast-derived exosomal microRNAs promote cartilage degradation, osteochondral angiogenesis and innervation in early osteoarthritis
LIU, J.
1/01/20 → 30/06/22