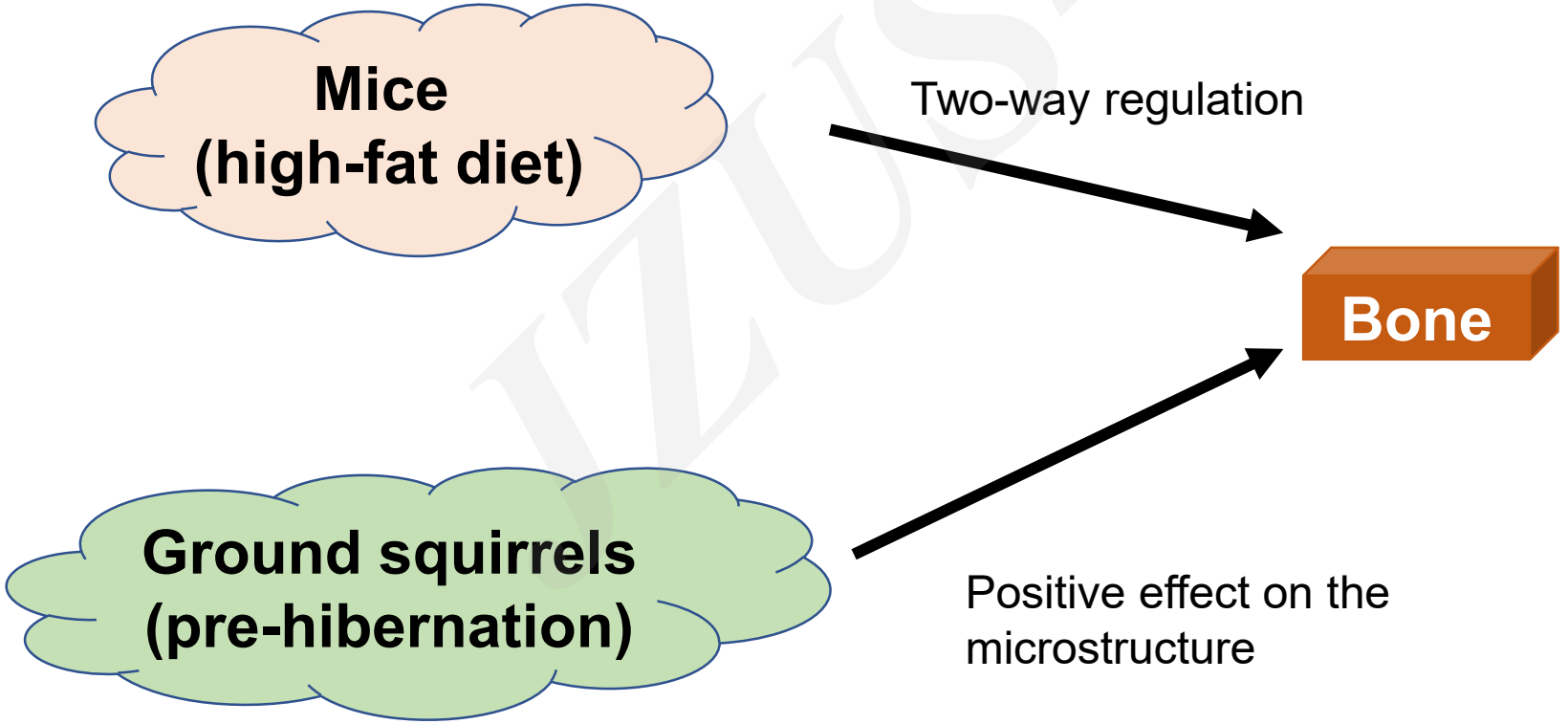
***Cite this as***: Xuli GAO, Shenyang SHEN, Qiaohua NIU, Weilan MIAO, Yuting HAN, Ziwei HAO, Ning AN, Yingyu YANG, Yu ZHANG, Han ZHANG, Kenneth B. STOREY, Hui CHANG. Differential bone metabolism and protein expression in mice fed a high-fat diet versus Daurian ground squirrels following natural pre-hibernation fattening[J]. Journal of Zhejiang University Science B, 2022, 23(12): 1042-1056. http://doi.org/10.1631/jzus.B2100798

# Differential bone metabolism and protein expression in mice fed a high-fat diet versus Daurian ground squirrels following natural pre-hibernation fattening

**Key words:** **High-fat diet, Pre-hibernation fattening, Bone formation, Bone loss, Wnt signaling**

# *Research Summary*

**This article compared the effects on bone metabolism and morphology of pathological obesity induced by excessive fat intake in a non-hibernator (mice) versus healthy obesity due to pre-hibernation fattening in a hibernator (ground squirrels).**




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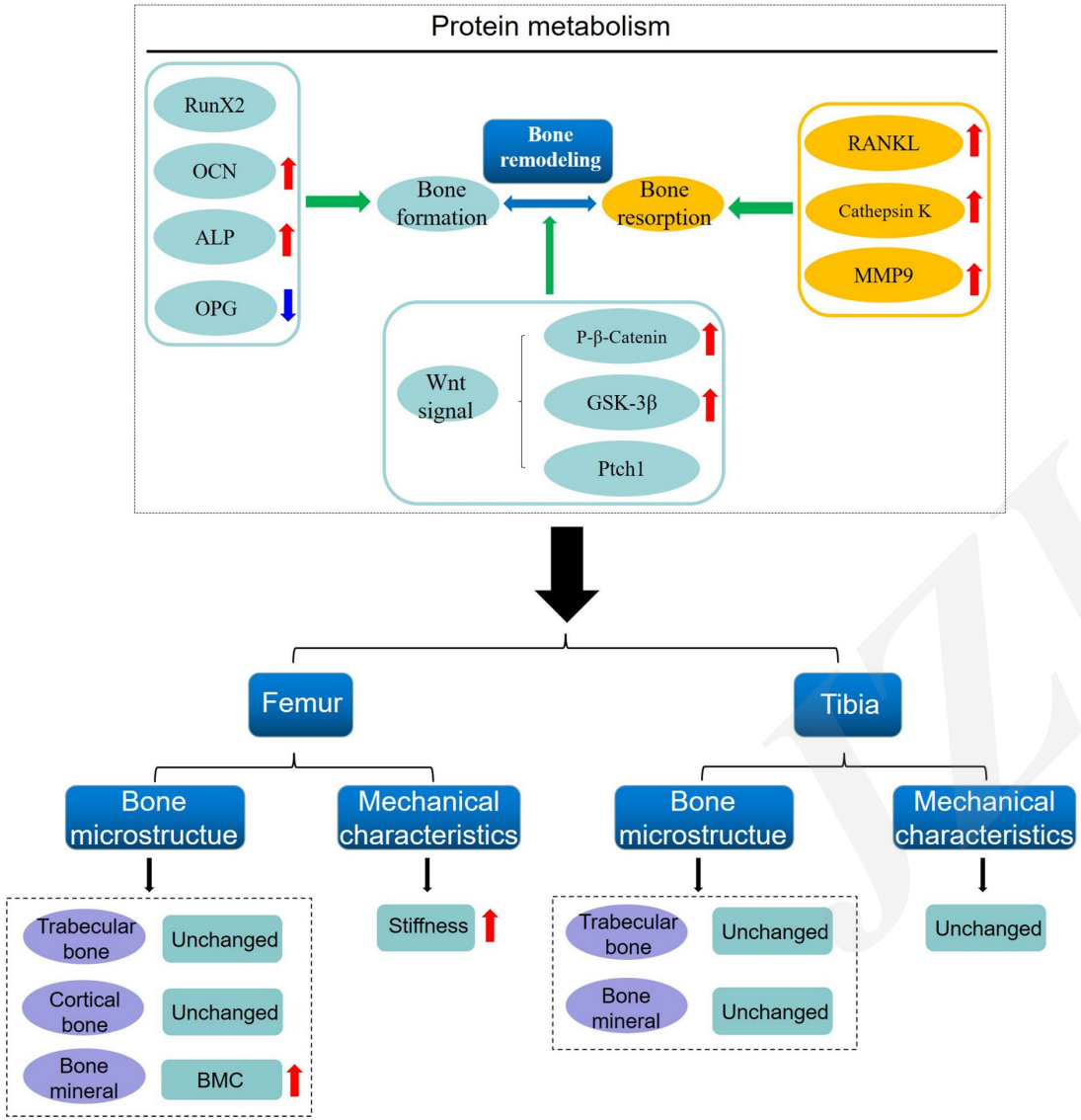
# *Innovation points*

- **Comparison** **of two obesity models in bone metabolism.**
- **Brief description** **of the bone metabolism between the high-fat diet fattening and pre-hibernation fattening animals**
- **Emphasis** **of the protective effect of pre-hibernation fattening on bone**

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# Graphical summary

A. CON vs. OB Mice




B. SA vs. PRE Ground squirrels

