Cite this as: De-xing HU, Xian-bao LIU, Wen-chao SONG, Jian-an WANG, 2016. Roles of SIRT3 in heart failure: from bench to bedside. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology).* **17**(11):821-830. http://dx.doi.org/10.1631/jzus.B1600253

Roles of SIRT3 in heart failure: from bench to bedside

Key words: SIRT3, Heart failure, Hypertrophy, Ischemia reperfusion

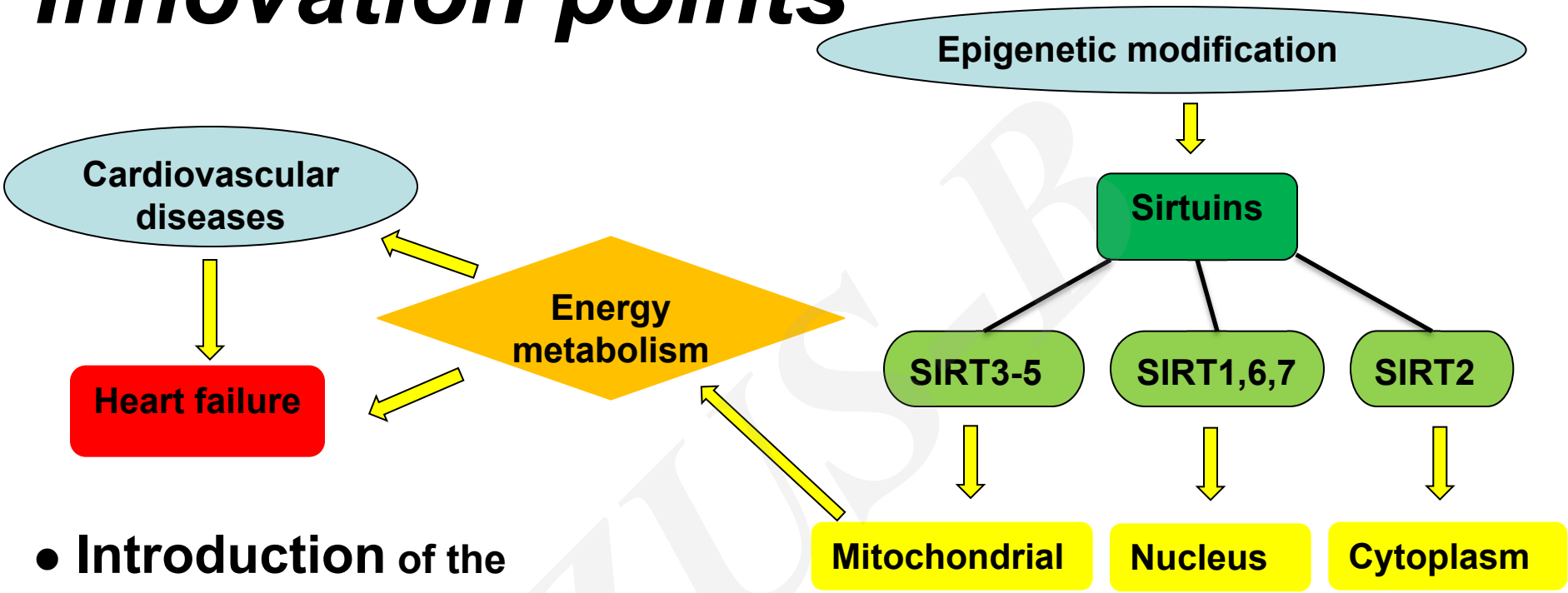
Research Summary

This review mainly focus on the roles of SIRT3 in heart failure and its application in the prevention of cardiac hypertrophy and ischemia reperfusion:

- **Epidemiology and pathophysiology of HF**
- **Characteristics and functions of SIRT3**
- **Ameliorating cardiac hypertrophy**
- **Attenuating ischemia and/or reperfusion induced injury**
- **Application perspectives**

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Innovation points



- **Introduction** of the pathophysiology of HF, and the structure, localization and functions of SIRT3

- **Summary** of the researches about the roles of SIRT3 in heart failure induced by hypertrophy and ischemia-reperfusion.

- **Emphasis** of the clinical application of SIRT3 agonists for heart failure associated diseases.

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Figure 4