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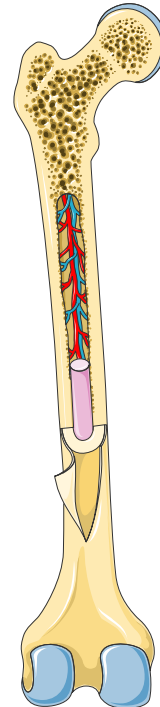
# **Circular RNAs: typical biomarkers for bone-related diseases**

**Keywords:** Circular RNAs, Bone-related diseases, CeRNA, MicroRNAs

# ***Research Summary***

**This review mainly focus on the properties and functions of circRNAs, and highlight the regulatory mechanism of circRNAs in bone-related diseases, including:**

- **osteoporosis**
- **osteosarcoma**
- **multiple myeloma**
- **intervertebral disc degeneration**
- **rheumatoid arthritis**



# *Innovation points*

- **Introduction** of the characteristics and functions of circRNAs
- **Highlight** the regulatory mechanism of circRNA-microRNA-mRNA network in bone-related diseases
- **Find** evidence for the potential clinical value of circRNAs as biomarkers

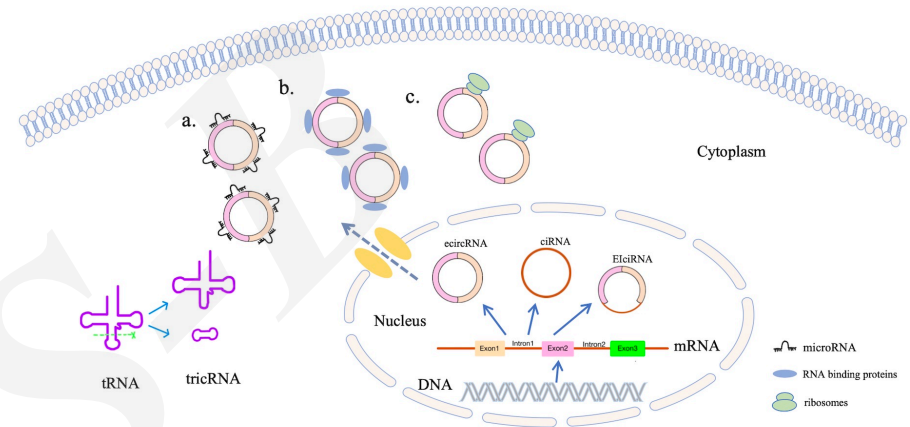
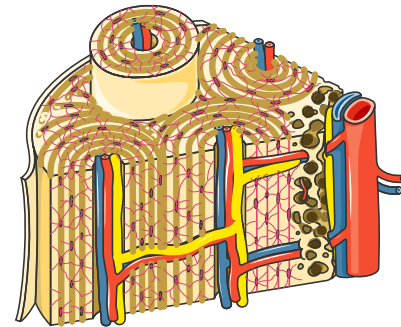


Figure 2



# ***Innovation points***

**A series of comprehensive tables were generated to summarize the signaling pathways about circRNAs are involved in bone-related diseases**

**Table 1 | CircRNAs involved in osteoarthritis.**

**Table 2 | CircRNAs involved in osteoporosis.**

**Table 3 | CircRNAs involved in osteosarcoma.**

**Table 4 | CircRNAs involved in multiple myeloma.**

**Table 5 | CircRNAs involved in intervertebral disc degeneration.**

**Table 6 | CircRNAs involved in rheumatoid arthritis.**