

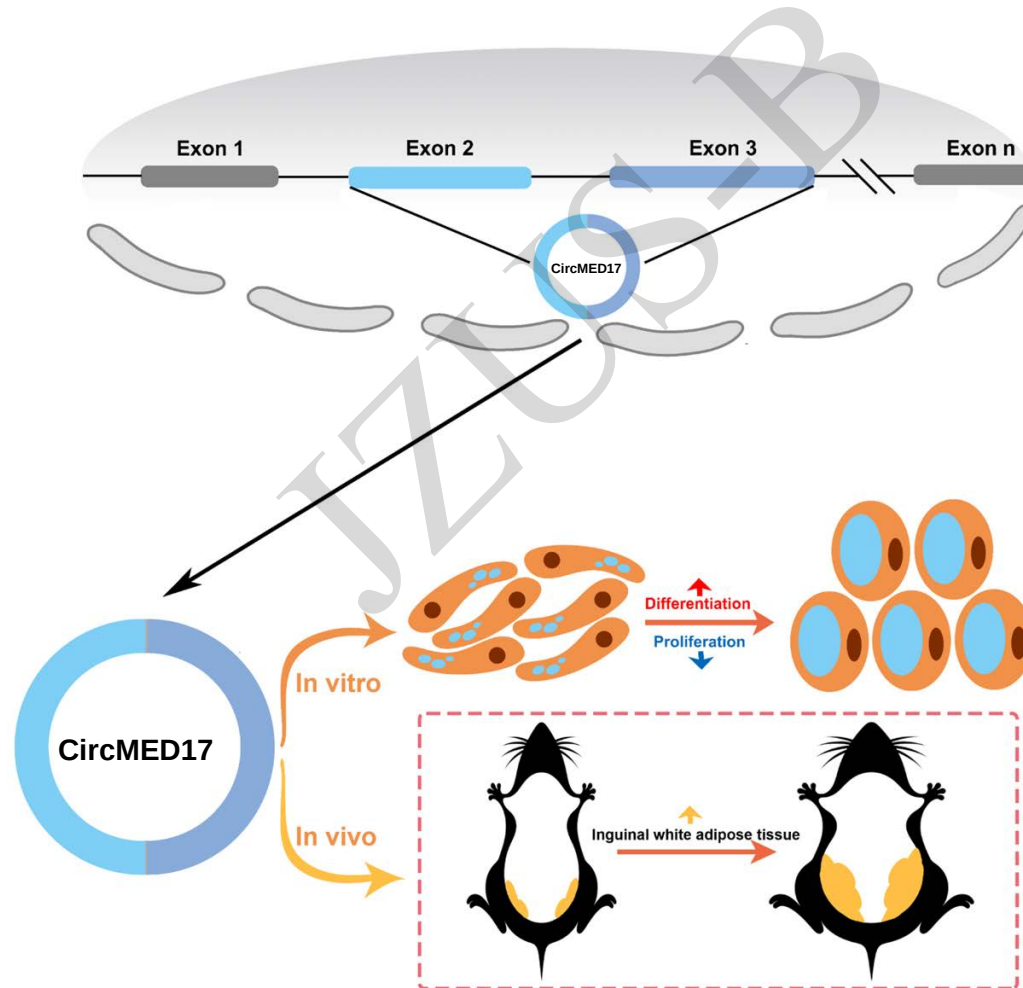
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CircMED17 regulates bovine adipogenesis and fat deposition via mediating the proliferation and differentiation of bovine adipocytes

Key words: Circular RNA (circRNA); Cattle; Adipogenesis; Beef quality; Post-transcriptional regulation

Research Summary

CircMED17 promotes adipogenic differentiation in bovine primary adipocytes by targeting miR-146b and binding to the GATA2 protein.



Innovation points

- **circMED17 was first identified as a circular RNA in bovine adipose tissue.**
- **The expression of circMED17 was profiled across bovine tissues and during primary adipocyte differentiation.**
- **CircMED17 suppresses proliferation and apoptosis but promotes differentiation of bovine primary adipocytes.**
- **Mechanistically, circMED17 exerts its regulatory effects by targeting miR-146b and binding to the GATA2 protein.**