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3 Columns: Review

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5 Roles of the canonical myomiRs miR-1, -133 and -206 in cell development and 1 disease 2

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7 Keith Mitchelson, Wen-Yan Qin

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9 Abstract

10 MicroRNAs are small non-coding RNAs that participate in different biological processes,

11 providing subtle combinational regulation of cellular pathways, often by regulating components

12 of signalling pathways. Aberrant expression of miRNAs is an important factor in the

13 development and progression of disease. The canonical myomiRs (miR-1, -133 and -206) are

14 central to the development and health of mammalian skeletal and cardiac muscles, but new

15 findings show they have regulatory roles in the development of other mammalian non-muscle

16 tissues, including nerve, brain structures, adipose and some specialised immunological cells.

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