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PERSPECTIVES

**MOLECULAR BIOLOGY:
A New RNA Dimension to Genome Control**

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MicroRNAs (miRNAs) and small interfering RNAs (siRNAs) are 21- to 25-nucleotide RNA molecules that influence their much bigger relatives, the messenger RNAs (mRNAs). Over the past few years, these small RNA species have captivated the study of gene regulation and modified our notions about how gene expression is controlled. A recent clutch of papers describe for the first time a class of small RNA cousins that are distinct from miRNAs and siRNAs ([1-6](#)). They promise to yield fascinating new insights into genome control.

<http://www.sciencemag.org/cgi/content/short/313/5785/305>