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Expression profiles of miRNAs in *Gossypium raimondii*

Key words: Cotton, miRNA, Expression profiles, qRT-PCR, *Gossypium raimondii*

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Research Objectives

Investigate the tissue-specific expression patterns of 16 miRNAs in *Gossypium raimondii* using Real-Time qRT-PCR (Real-Time Quantitative Reverse Transcription PCR)



Major Results

- Eight miRNAs , including miR-159, miR-162, miR-164, miR-172, miR-390, miR-395, miR-397 and miR-398, exhibited exclusively high expression levels in flower buds.
- The expression level of miR-164 was relatively high in shoots beside flower buds
- Certain miRNAs such as miR-166 and miR-160 were extremely highly expressed in all of the four tissues tested compared with other miRNAs investigated



