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Authors: Abozar Ghorbani, Keramatollah Izadpanah, Jonathan R. Peters, Ralf G. Dietzgen, Neena Mitter



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Detection and profiling of circular RNAs in uninfected and maize Iranian mosaic virus-infected maize

Abozar Ghorbani^{a,b*}, Keramatollah Izadpanah^a, Jonathan R. Peters^b, Ralf G. Dietzgen^b and Neena Mitter^b

^a Plant Virology Research Center, College of Agriculture, Shiraz University, Shiraz, Iran

^b Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, St. Lucia 4072, QLD, Australia

***Corresponding author:** Abozar Ghorbani

E-mail address: abozar.ghorbani@shirazu.ac.ir

Telephone number: +987132286154

Highlights

- Characterization of circRNAs in maize.
- Identification and profiling of circRNAs in maize in response to MIMV infection.
- Prediction of miRNA targets of circRNAs and regulation of the transcription of parental genes by circRNAs.

Abstract

Circular RNAs (circRNAs) are covalently closed non-coding RNAs that are usually derived from exonic regions of genes, but can also arise from intronic and intergenic regions. Studies of circRNAs in humans, animals and several plant species have shown an altered population of circRNAs in response to abiotic and biotic stress. Recently it was shown that circRNAs also occur in maize, but it is unknown if maize circRNAs are responsive to stress. Maize

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