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Transcriptome sequencing studies of miracle tree-Murungai

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Moringaoleifera is a medicinal tree of high value and almost every part of the plant is used by humans to address different ailments such as diabetes, inflammation *etc.* It is also viewed as a superfood since it is highly abundant in minerals (like Iron and Calcium) and Vitamins. Besides, this tree grows easily even in drought conditions. For all these reasons, we decided to perform RNA sequencing of this tree and compared the expression of transcripts in five tissues – leaves, stem, flowers, seeds and roots. We utilized the DNA sequencing data reported by a group in China to carry out detailed assembly. We followed the presence of key enzymes that are involved in the synthesis of secondary metabolites and vitamins and few metal transporters using bioinformatics and PCR studies. Such findings can be now considered for experiments such as transgenics and large-scale production of such gene products.

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