

## **Evaluation of bioactive compounds in leaves of *Moringa concanensis* accessions**

Raviraja Shetty. G<sup>1</sup>, Anitha T M<sup>1</sup> and P. E. Rajasekharan<sup>2</sup>

<sup>1</sup> College of Horticulture, Mudigere, University of Agricultural & Horticultural Sciences, Shivamogga, India

<sup>2</sup> ICAR-Indian Institute of Horticultural Research, Bangalore, India

Email : rrshetty2059@gmail.com

*Moringa concanensis* Nimmo is a medicinal tree belonging to the family Moringaceae. It occurs in tropical dry forest from south eastern Pakistan to the southern tip of India. Leaves, flowers and seeds are used for curing various ailments in humans. Leaves are used to reduce cholesterol and body weight, to increase fertility in women, to reduce fatigue, for constipation and to treat jaundice. Even though its medicinal properties has been known, there is not much work has been done on the quantitative determination of bioactive compounds in this species. In this study bioactive compound in different accessions of *M. concanensis* was analysed. Results revealed that ascorbic acid, total carotenoids, total polyphenol, chlorophyll a, b and total chlorophyll content was highest in accession MC-16 (442.30 mg/100g), MC-19 (70.64 mg/100g), MC-10 (35.80 mg/g), MC-25 (1.812 mg/g), MC-19 (0.273 mg/g), MC-25 (2.409 mg/g) respectively. This study shows that *M. concanensis* is very good source of bioactive compounds which are beneficial to human health. So *M. concanensis* leaf can be used as functional ingredients in therapeutic food and for the development of nutraceuticals.