

## EFFECT OF DIFFERENT SEED TREATMENTS TO PROMOTE GERMINATION IN MOMORDICA CYMBALARIA

REKHA CHITTAPUR<sup>1</sup>, BAPURAYAUGOUDA PATIL<sup>2</sup>, NAMITA RAUT<sup>3</sup> & VIDYA CHOUDHARI<sup>4</sup>

<sup>1,2</sup> Assistant Professor, Department of Biotechnology and Crop Improvement, College of Horticulture,  
Bagalkot, Karnataka, India

<sup>3</sup> Assistant Professor, Department of Vegetable Science, College of Horticulture, Bagalkot, Karnataka, India

<sup>4</sup> Lab Assistant, College of Horticulture, Bagalkot, Karnataka, India

### ABSTRACT

*Momordica cymbalaria belongs to family cucurbitaceae which is an underutilized vegetable crop. Seeds of this crop are hard coated, shiny and small in size. Seeds will not germinate under normal controlled conditions or may have very low germination percentage. In the present study Fresh and Old seeds are used. Seeds are treated with different treatments to overcome this limiting factor. Mechanical scarification (Sandpaper & Nicking), Chemical scarification (Concentrated sulfuric acid for 10 min and Gibberlic acid 200ppm) Hot water treatment for 5 min, Soaking overnight and Control. Results revealed that mechanical scarification is the most suitable method to promote germination. Chemical method (treatment with acid for 15 minutes & GA3 treatment) and Hot water treatment failed in promoting germination. After 15-25 days observations were recorded. Very less germination percentage is observed in sand paper scarification and nicking. All other treatments failed to germinate the seeds. It indicates that hard seed coat is the barrier for germination in this crop. Mechanical scarification is the best method to promote germination of seeds in this crop.*

**KEYWORDS:** *Momordica cymbalaria, Nicking, Sand Paper, Gibberlic Acid, Hot Water*

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