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**RESEARCH ARTICLE**

# Optimization of phytohormone combinations for *in vitro* callogenesis in *Lavatera cashmeriana*: An endemic medicinal plant of Kashmir

■ **AANISIA ZAHOOR, SUCHIT A. JOHN, PRADEEP K. SHUKLA, SADUF NISSAR AND PRAGATI MISRA**

## SUMMARY

The state of Jammu and Kashmir is bestowed with diverse variety of plant species especially medicinally important plants due to wide variations in its topography and microclimatic conditions. *Lavatera cashmeriana Camb*. (Malvaceae), which is endemic and endangered to Kashmir valley, has great medicinal importance. Its parts are being used to treat sore throat and common cold. In the present study various phytohormones auxins and cyotkinins either alone or in combination were used for the *in vitro* callogenesis of medicinally important herb of Kashmir. The excellent results from the seeds of *Lavatera cashmeriana* were observed on the Murashaige and Skoog medium supplemented with 2,4-D and BAP. In future a fine tune and refinement of phytohormones are required in terms of the concentration for the organogenesis of medicinally important plant.

**Key Words :** *Lavatera cashmeriana*, MS, 2, 4-D, NAA, BAP

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