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Isolation and Transfection of *Nicotiana benthamiana* Mesophyll Protoplasts for Fluorescent Protein Visualization

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Namitha Nayak¹, Sandhya Mehrotra¹, Rajesh Mehrotra¹

¹BITS Pilani



Namitha Nayak

BITS Pilani

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We use this protocol and it's working

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Abstract

Protoplast transfection is routinely used to study the sub-cellular localization of fluorescent-tagged proteins. Using *N. benthamiana* protoplasts is advantageous as it is a hardy plant that grows well, especially in tropical climates. Isolating protoplasts from the leaves of young 3-4-week-old *N. benthamiana* plants compensates for the benefits of using the ephemeral *Arabidopsis*. Moreover, the larger protoplast size of *N. benthamiana* offers better visualization of fluorescent proteins at lower magnifications. The protocol described here is an easy method for *N. benthamiana* protoplast isolation and transfection with simple and economical modifications to increase yield and transfection efficiency. The protocol is optimized for easy performance with minimal laboratory equipment.

Attachments



Protoplast isolation...

4MB

