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Version 1

Simplified protocol for Agrobacterium-mediated transformation of the liverwort *Marchantia polymorpha*, includes protocols for spore sterilisation V.1

DOI

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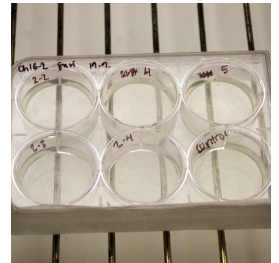
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Protocol status: Working

We use this protocol and it's working

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Keywords: Marchantia, Agrobacterium, transformation, nucleus, transformation of haploid liverwort marchantia polymorpha, protocols for spore sterilisation, transformation of the liverwort marchantia polymorpha, protocol for agrobacterium, haploid liverwort marchantia polymorpha, spore sterilisation, liverwort marchantia polymorpha, dna mutant screen, protocols for spore collection, agrobacterium, sterilisation, marchantia transformation, spore collection, plant cell physiol, dna, information on reagent

Abstract

Simplified protocol for Agrobacterium-mediated transformation of haploid liverwort Marchantia polymorpha spores. See the attached file for all steps, notes and information on reagents. Includes protocols for spore collection, storage and sterilisation.

By Suvi Honkanen and Victor A. S. Jones. Modified from Ishizaki et al. Plant Cell Physiol. 2008 Jul;49(7):1084-91. doi: 10.1093/pcp/pcn085. Developed at the Dolan lab (The University of Oxford) and at the Small lab (The University of Western Australia).

Working on a high-throughput T-DNA mutant screen published in <https://doi.org/10.1016/j.cub.2016.09.062> , <https://doi.org/10.1016/j.cub.2015.11.042> , <https://doi.org/10.7554/eLife.38529> , <https://doi.org/10.1242/dev.144287> , <https://doi.org/10.1371/journal.pbio.3000560> taught us a thing or two about Marchantia transformation. I have further refined the protocol during my current semi high-throughput project. I hope you find some of this useful.

Attachments



Agrobacterium mediat...

23KB

Troubleshooting

