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## Marchantia genotyping (quick and dirty genomic DNA extraction)

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Eftychis Frangedakis<sup>1</sup>, Marta Marta Tomaselli<sup>2</sup>, Marius Rebmann<sup>3</sup>, Susana Sauret-Gueto<sup>3</sup>

<sup>1</sup>University of Cambridge; <sup>2</sup>University of Cambridge, Open Plant;

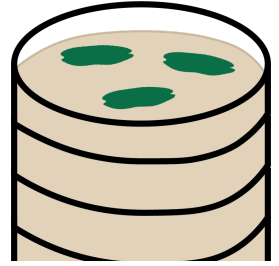
<sup>3</sup>Plant Sciences, University of Cambridge, OpenPlant

OpenPlant Project



**Susana Sauret-Gueto**

Plant Sciences, University of Cambridge, OpenPlant



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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

This protocol allows for quick and dirty genomic DNA extraction. It can easily be used for genotyping with PCR. The quality of the genomic DNA extracted is not suitable for any other application.

It has been widely used in different plant species including *Marchantia* as in

<https://www.nature.com/articles/srep01532>

## Materials

### MATERIALS



KOD Hot Start DNA Polymerase **Merck MilliporeSigma (Sigma-Aldrich) Catalog #71086-3**



- 1 Take small pieces (3×3 mm) of thalli from individual plants and place in a 1.5 mL Eppendorf tube (A in Figure).
- 2 Add 100 µl of genotyping buffer,; 100 mM Tris-HCl pH 9.5, 1M KCl, 10 mM EDTA (B in Figure).
- 3 Crush with an autoclaved micro-pestle (C in Figure).
- 4 Place the tube(s) at 80 °C for 10 min.
- 5 Add 380 µL of sterile water to each tube (D in Figure).
- 6 Use 5 µl aliquot of the extract as a template for PCR using preferably the KOD Hot start polymerase.

**Note**

We found KOD to be more reliable amplifying fragments from a crude genomic DNA extract such as the one used here.

- 7 Check PCR products on a 1.5% (w/v) agarose gel.

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