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Floral dip transformation of Arabidopsis

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ABSTRACT

Konrad's version of the floral dip method - still inspired by "Floral dip: a simplified method for *Agrobacterium*-mediated transformation of *Arabidopsis thaliana*"

Steven J. Clough Andrew F. Bent (1998)

<https://doi.org/10.1046/j.1365-313x.1998.00343.x>

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Protocol Citation: Meike Burow 2021. Floral dip transformation of Arabidopsis. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.5j6g4re>

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Protocol status: Working
We use this protocol and it's working

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25950

Keywords: Arabidopsis stable transformation, floral dip

1 Day 1 - Agrotransformation

- Electroporation (2400V, 220ohm, 25µF, 1mm cuvette)

- Recover 3 hours with 1ml YEP in 15 ml tube at 28°C
- Plate on YEP + antibiotics
- Incubate 2 days at 28°C

2 Day 3-4 - Prepare agros

- Start 5ml agro culture in YEP + antibiotics. Grow o/n at 28°C, 220 rpm.
- Take 1-2 ml culture and plate on YEP plates + antibiotics (let soak into plate). Grow o/n at 28°C.

3 Day 5-6 - Transformation

- Scrape cells from plates and resuspend in 50ml 10mM MgCl₂ · 6H₂O (2.03 g/L) + 5% sucrose (50g/L) + 0.005% SilwetL-77 (50µl/L).
- Pour solution into small bag.
- Place pot upside-down in the agro-solution, massage gently so even un-open buds gets 'cracked' a little.
- Cut small hole in the corner of the bag, and pour the agro-solution into the next bag (for the next plant).
- Leave the plant o/n in the dark (decreases immune system).
- Remove bags and let plants dry before moving them to growth chamber.