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

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🌍 Plant Infiltration for *Mimulus in Planta* Transformation

📁 In 1 collection

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Mimulus

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ABSTRACT

This protocol is part of a [collection for *Mimulus in planta* transformation](#).

ATTACHMENTS

[Mimulus in planta transformation.pdf](#)

SAFETY WARNINGS

⚠ See SDS (Safety Data Sheet) for hazards and warnings.

BEFORE START INSTRUCTIONS

Ideally want 8-12 young healthy plants in square pots that have branched and have lots of buds for infiltration (When plants are young, cut/pinch the plants so that they will be short and branched).

Keywords: Plant infiltration,
stable transformation,
Mimulus, Mimulus in planta

- 1 Trim off mature buds from the plants.
- 2 Gently peel back the leaves around the young buds.
- 3 Spray the young buds 2-3 times with the Agro (spray right before they will be put in the vacuum).
- 4 Vacuum infiltrate 1-2 plants at a time. pull a vacuum until 29 inches Hg, seal the vacuum and turn off the pump, wait 2 minutes, then release the vacuum.
 - 4.1 Pull a vacuum until 29 inches Hg.
 - 4.2 Seal the vacuum and turn off the pump.
 - 4.3 Wait 00:02:00 , then release the vacuum.
- 5 Mark the plant with a colored sword.

- 6 Cover the plants with plastic tent overnight.
- 7 Take off plastic and put in tomato cage.
- 8 Pollinate for 2 weeks.
- 9 Collect the seeds.
- 10 Plant in flats using a salt shaker, about 15-20 seed capsules per flat.
- 11 When the seeds start to germinate, begin spraying with 1:1000 Basta.
- 12 Continue spraying with Basta every other day.
- 13 Transplant the healthy looking, resistant plants.