Floral dip of *Agrobacterium* mediated transformation combine with fluorescent marker gene, a very simple method which any lab can do for plant transformation and it is easy than ever. Below is step by step:

1. Growth plant for transformation, 4 plants per pot and two pots are enough to get 50-100 transgenic seeds

2. As plant have flower cut main first flower make plant have more flower and waiting until ready for transformation

3. Depend your pot size, use the plastic or paper cup to hold Argrobacterium solution for dip flower in

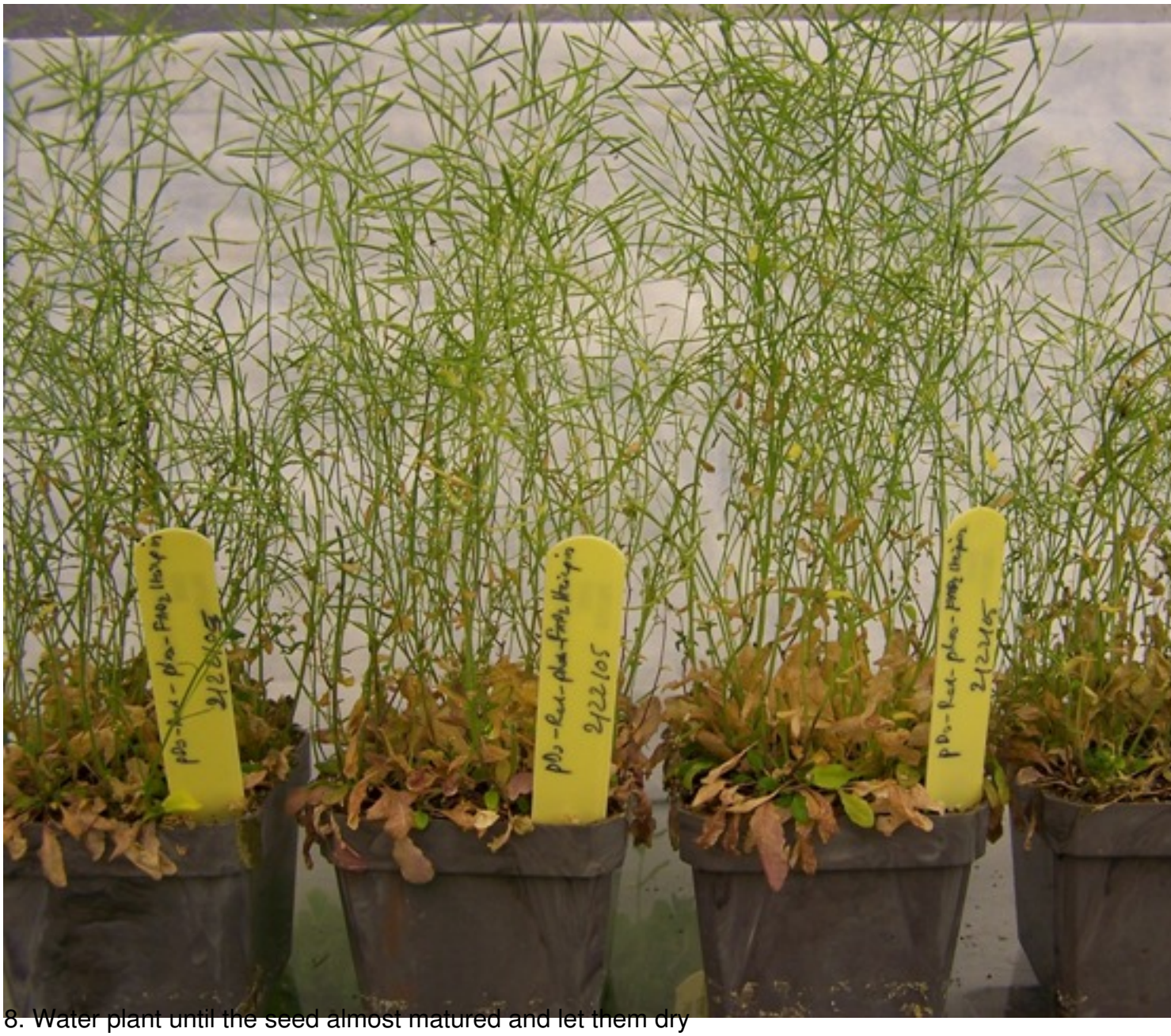
4. Dip all flower in the Argrobacterium solution in few seconds

A kid at 8 years old can do that too

Stay to keep humidity the tissue paper to absorb transformation solution and put a glass cover
Day 2 deep purple

6. After overnight lay down put the pots stand up in the tray

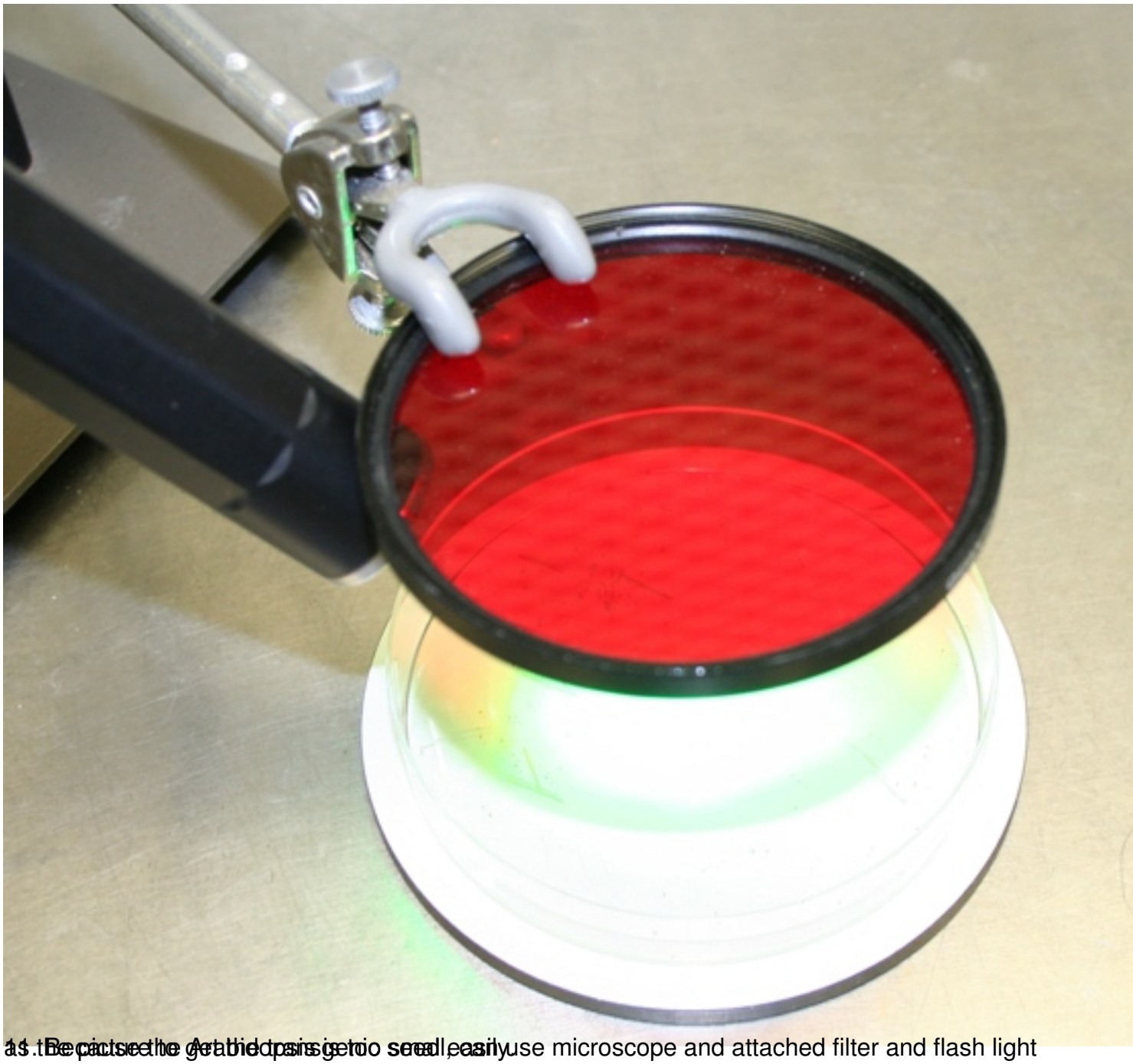
7. Repeat step 4-6 after 4-5 days of previous transformation, do two or three transformations



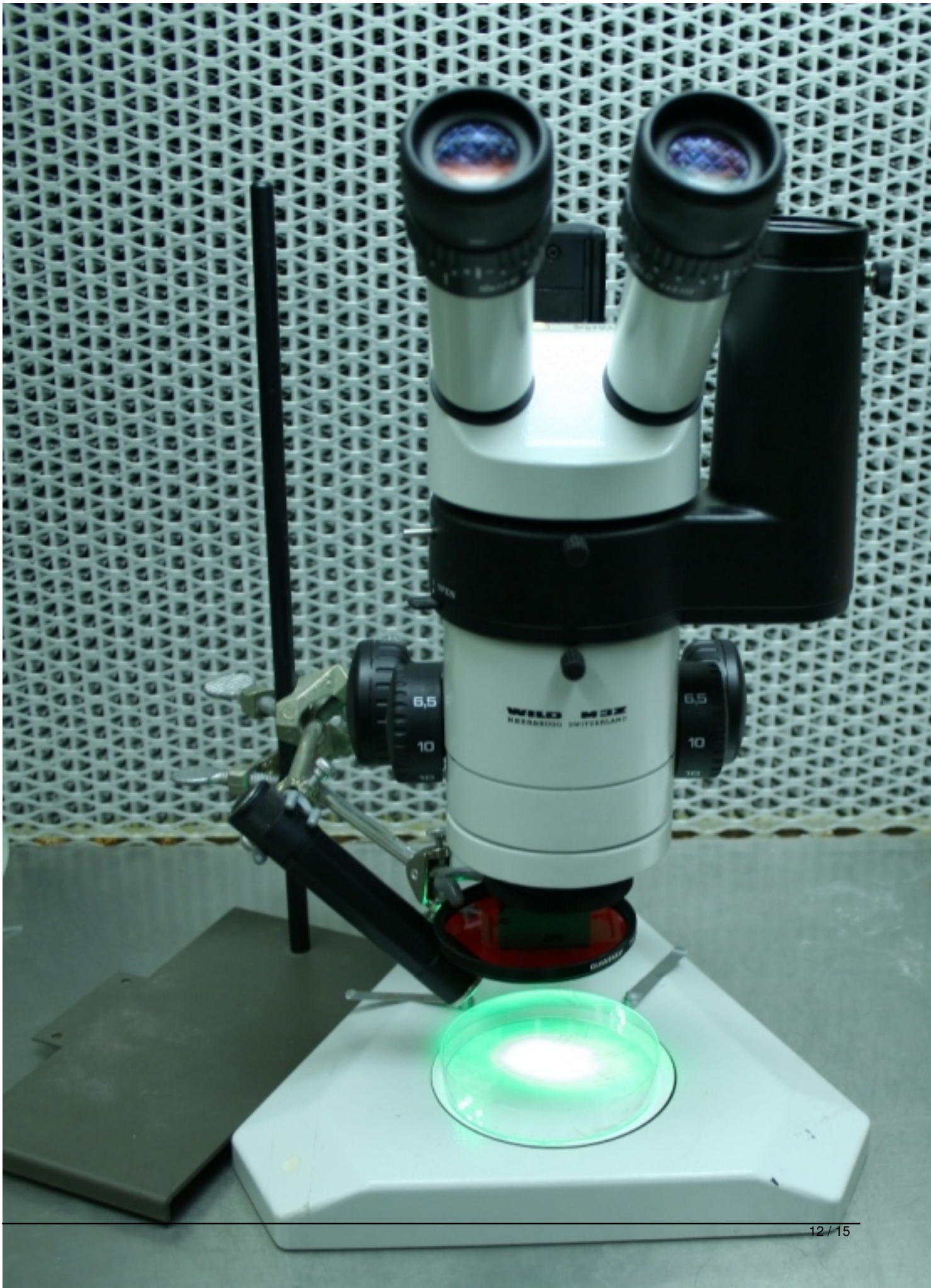
8. Water plant until the seed almost matured and let them dry

9. Use tray with net that small enough for seed go through

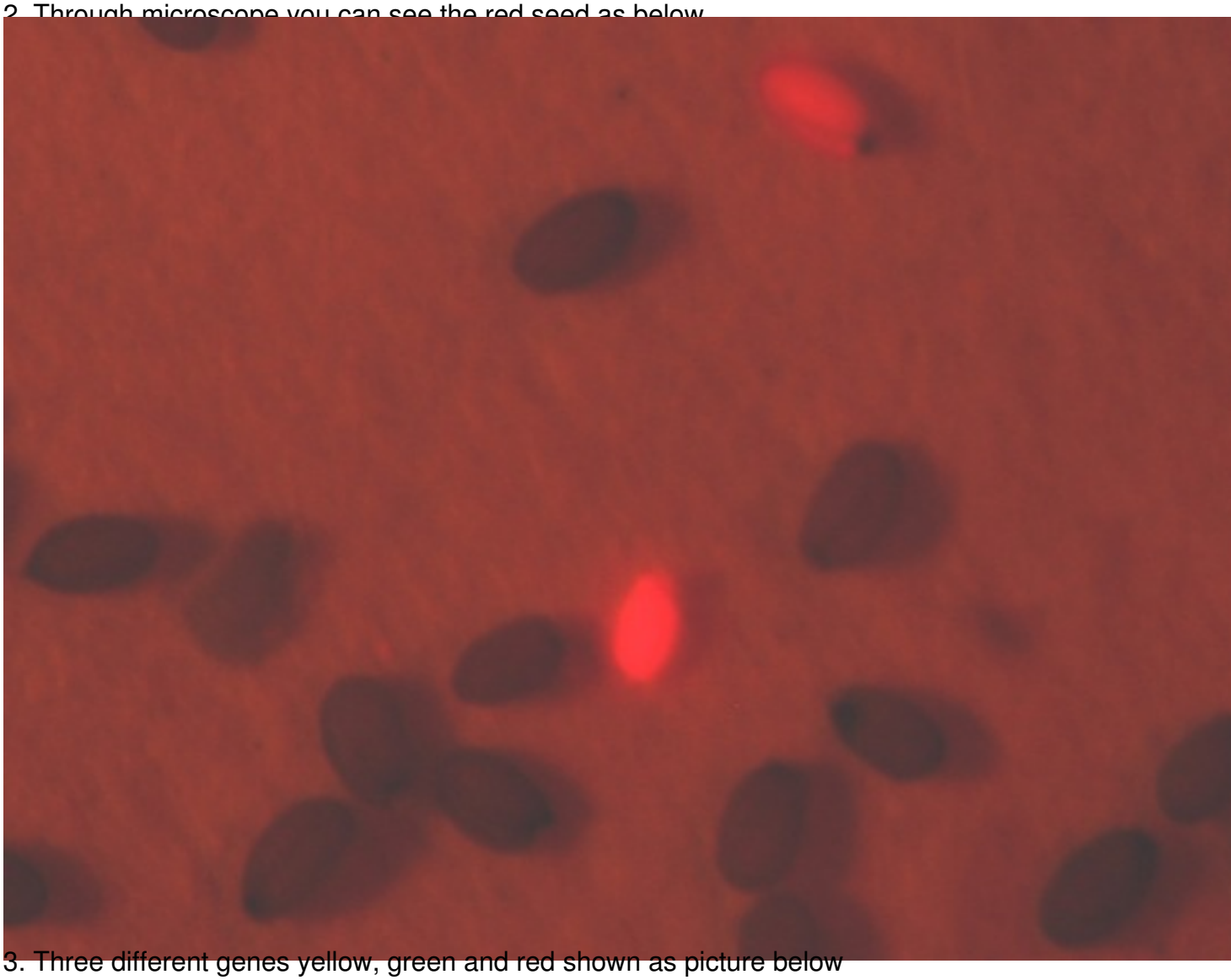
10. Depending on the fluorescent gene use, use filter and light correspond with it, for DsRed gene
use red filter and green light to collect the fluorescent seed



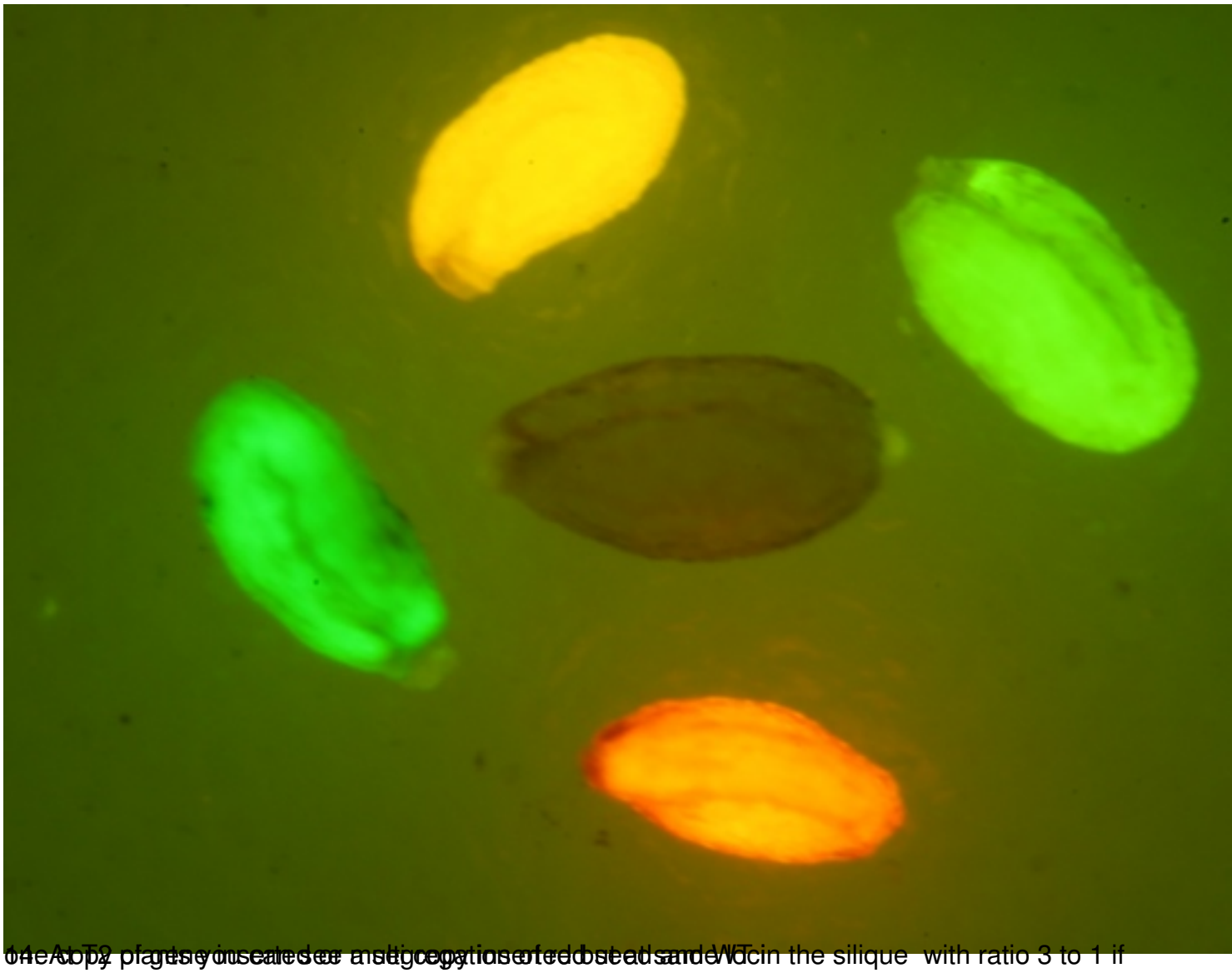
11. Because the Arabidopsis is too small, easily use microscope and attached filter and flash light as the picture the green plants to see.


6,5
10
WILD M3Z
6,5
10

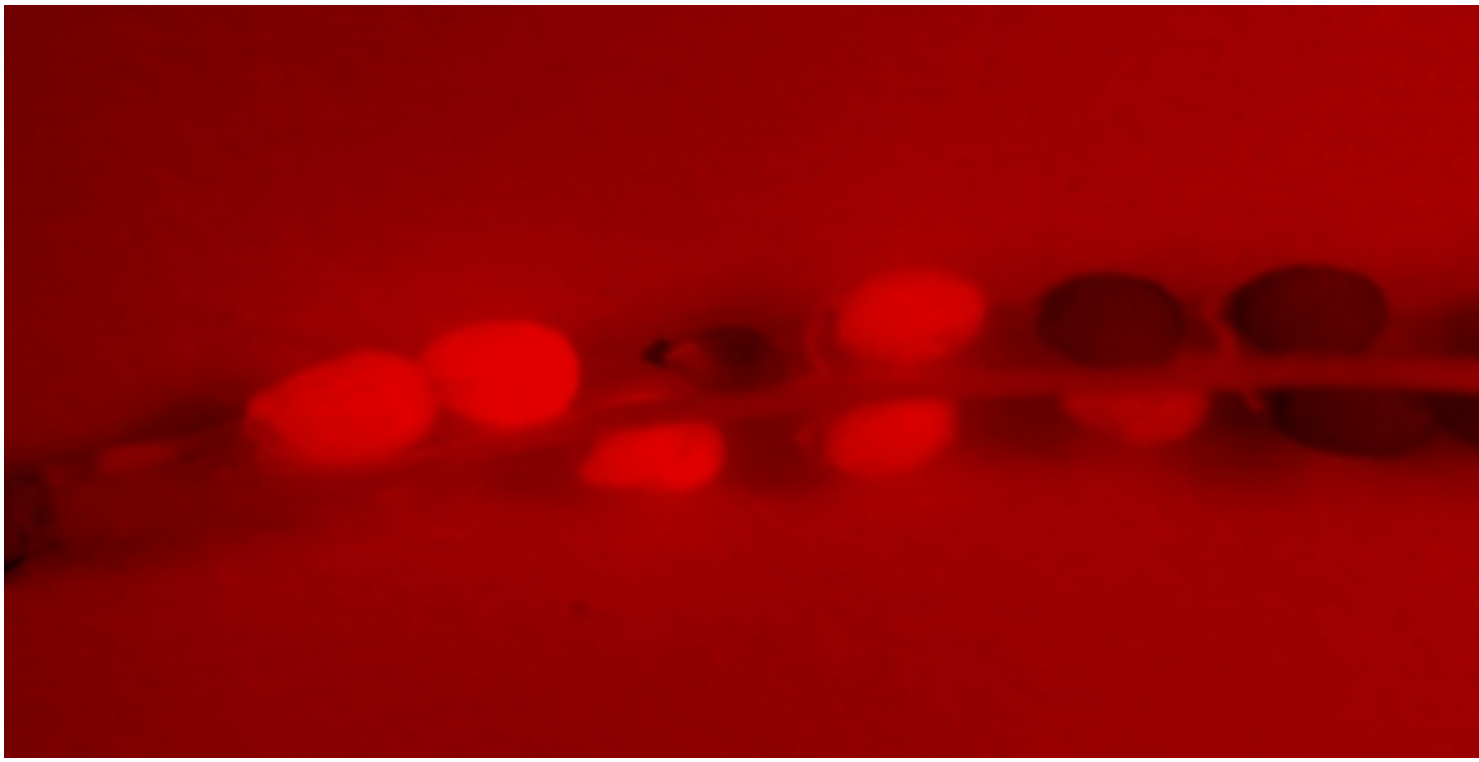
12. Through microscope you can see the red seed as below



13. Three different genes yellow, green and red shown as picture below



14 At T2 plants you can see a segregation of red and WT in the silique with ratio 3 to 1 if one copy of the transgene is present or all red if two copies are present.



[See more picture here]

References:

Clough SJ, Bent AF. Floral dip: a simplified method for *Agrobacterium*-mediated transformation of Arabidopsis thaliana..
Plant J.
1998 Dec;16(6):735-43.