Optimizing parameter

- Etiolation conditions promote development of longer internodes.
- Prepare cube ahead of time. Drill a starter hole to prevent damage of the epicotyl.

Procedure

1. Seed germination
   - 7 days

2. Move seedlings to light conditions
   - 3 days

3. Cut epicotyl about node 2.
   - Place plant in Fibrgro® cubes imbibed with *A. rhizogenes*
   - 1 day

4. Promote wilting of plants
   - 1 day

5. Allow plants to recover wilting
   - 1 day

6. Place plants in growth-room in high humidity conditions
   - 7 days

7. Expose callus
   - Remove all emerged roots
   - 10 days

8. Plant epicotyl with callus in vermiculite
   - Inoculate with rhizobial culture
   - 21 days

9. Assess nodulation on roots