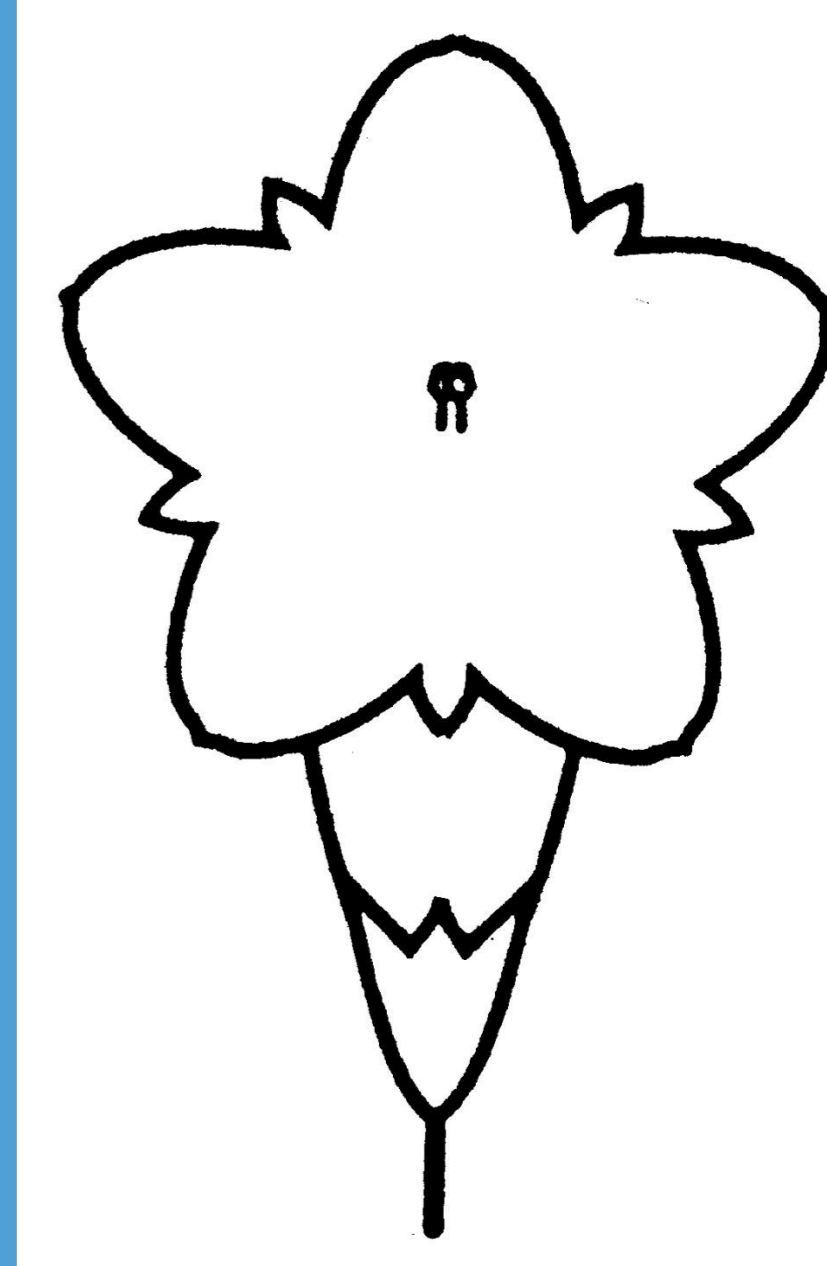


Euro-Tiss

Plant Tissue Culture and Breeding Services



Back ground

Euro-Tiss is an independent plant tissue culture company that was founded by Gen de Jong and Marjan Kamphuis in 1986. It provides broad range of services to plant breeders and plant propagators. At this moment, our company is situated in Tiel (NL) where about five million microcuttings are produced annually. Our major products are perennials like helleborus, agapanthus, yucca, daphne etc. Our laboratories meet the highest standards of sterile working conditions. This makes it possible to grow plants completely free of diseases.

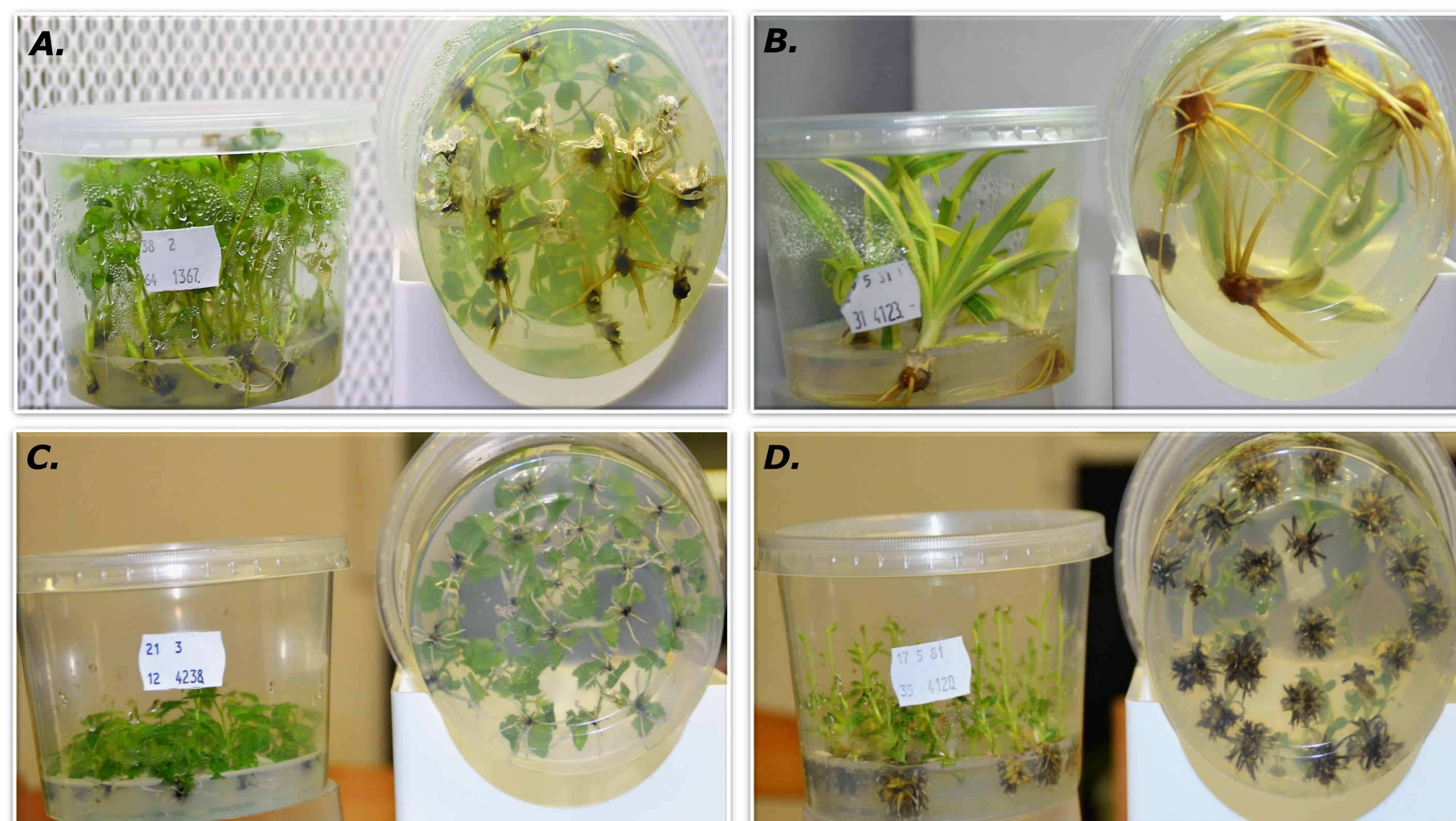


Figure 1. In vitro-grown ornamental plants. A) Helleborus, B) Yucca, C) Rubus, D) Daphne.

Our services

In addition to our main activity *i.e.* multiplication of various plant species, we implement tissue culture as a tool to support breeders. We provide wide range of *in vitro* techniques including:

- Embryo-rescue
- Polyploidization and chromosome doubling
- Haploidization
- Clone-storage
- (LED) light-treatments.

For research, development and breeding we co-operate with Dr. Ir. Krit Raemakers from ATCT Co.

R&D team

Since 2015, we have strengthened our R&D team by hiring scientists and researchers. Our R&D team consists of one PhD and five MSc employees. Their intellectual inputs together with wealth of practical experience provide Euro-Tiss a unique opportunity to flourish.

Our researchers do their best to meet the demands of our clients, to set up the best growing conditions and to define the right medium protocol. Here are some of the different research lines within our R&D team:

- Study the mechanisms underlying adventitious root formation.
- The effect of LED light on different developmental stages of the plant.
- Biotic and abiotic stresses: how do they influence the plant's growth and how to tackle them?

Mission and vision

- Our company is now at its growing point. We are getting prepared to take a huge step.
- By mid 2018 we plan to establish our new laboratory where broader range of breeding services will be provided to the breeders.
- We aim to increase our production by reaching ten million microcuttings per year.
- Since 2015, we have been busy studying the possibilities of commercial micropropagation of tulip and other bulbous crops *e.g.* Amaryllis. We have made a great progress. This will be a breakthrough in shortening the breeding process of tulip.

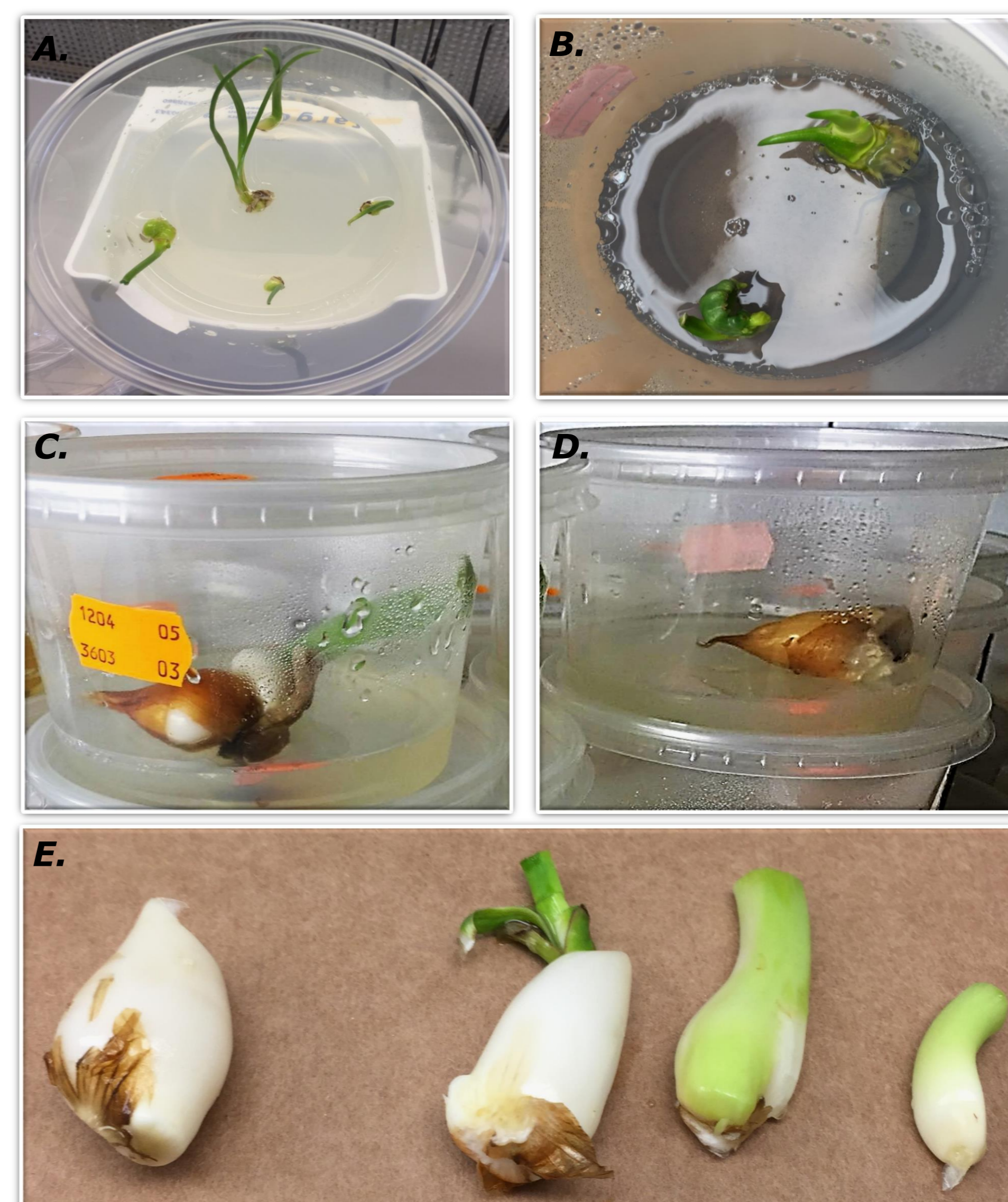


Figure 2. Micropropagation of tulip. A&B) explants at early developmental stage. C&D) explants at later developmental stage. E) newly formed bulb with different size.

