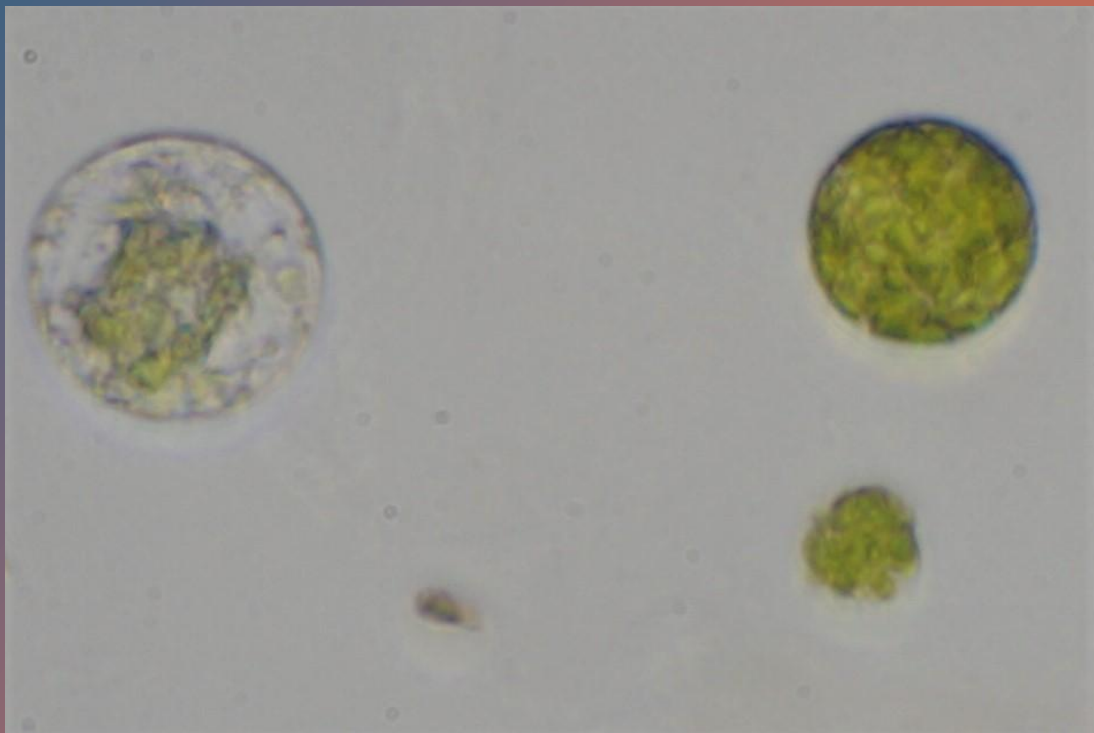
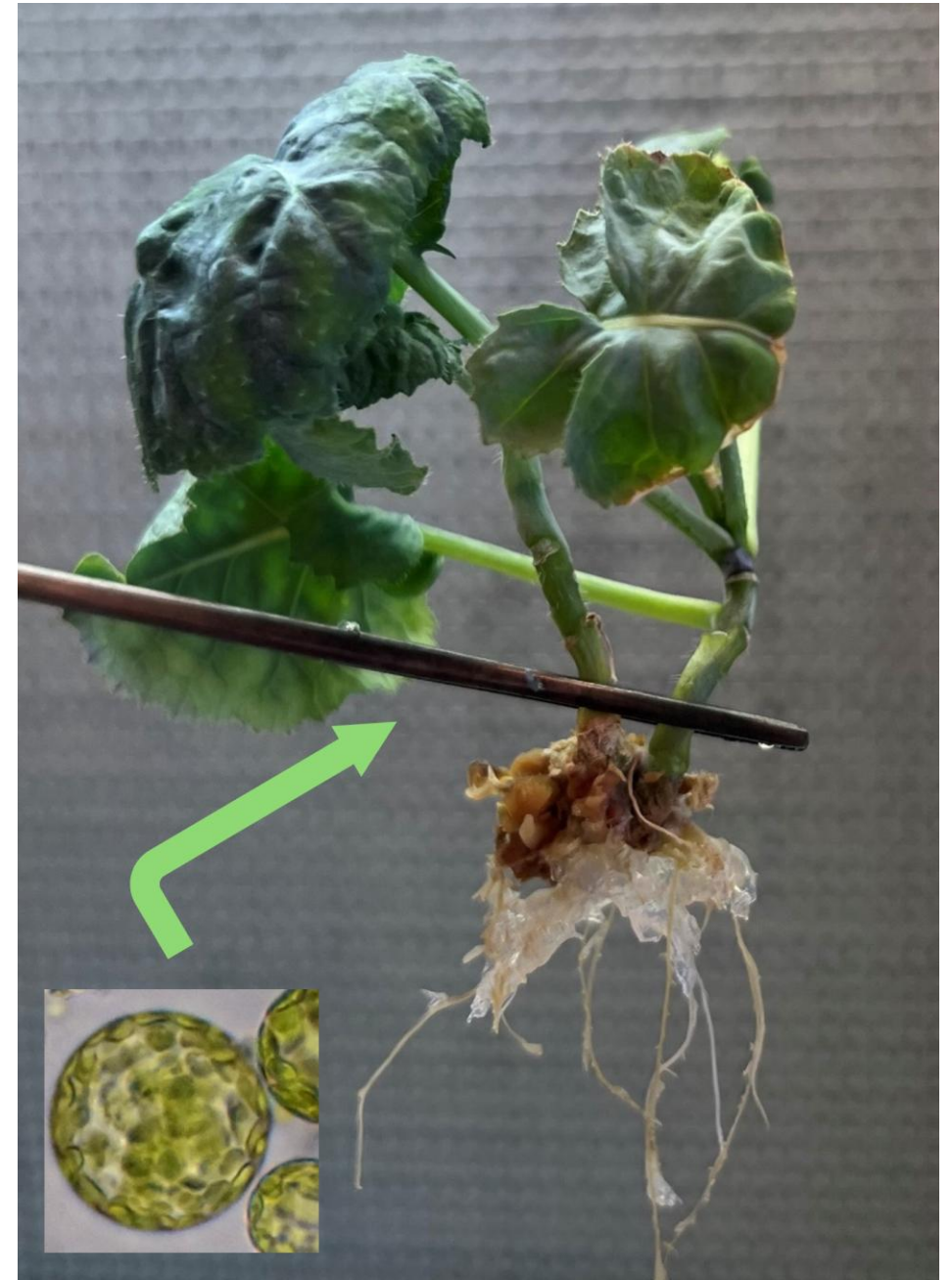




- **Protoplast regeneration: an indispensable tool for crop improvement**
- Fytagoras fully explores the potential of plant cell protoplasts regeneration for recalcitrant crops. The availability of reliable protocols for protoplast regeneration is urgent in view of the progress made in gene editing technology for crop improvement the last years. The practical application of gene editing technologies for commercial crops is helped much by efficient protoplast regeneration protocols. Unfortunately, such protocols are not available for many crops.
- Plant breeders looking to explore the potential of protoplast regeneration should contact Fytagoras. Fytagoras specializes in researching the process and can provide valuable insight into the most effective methods for regenerating protoplasts from crop plants. Furthermore, the protocols developed can be tailored to the specific needs of the plant breeder, giving them the best chance of success. With the help of Fytagoras breeders can unlock the potential of this powerful tool in crop improvement.

From rape seed protoplast to new plantlet

Fytagoras established an efficient protoplast regeneration in rape seed. In line with this Fytagoras is developing efficient protoplast regeneration protocols in difficult crops, like pepper. The photograph shows a rape seed protoplast and a regenerated plantlet from such protoplast. In our protocol high-quality regeneration experiments can be performed with reproducible results. Our technology accelerates the breeding process and promotes the growth of sustainable, resilient crops.



Protoplast fusion research at Fytagoras

Plant cell protoplast fusion and regeneration of the fused product serves many possibilities in advanced breeding. The photograph shows a fluorescently labelled tomato protoplast and a non-labelled tomato protoplast in the process of fusion. Methods for tracking and sorting fusion products are developed and tested.

