

## Development of a Protocol for Somatic Embryogenesis of *Cnidium officinale* Makino

**Hui Yeong Jeong and Ji Ah Kim\***

Researcher, Forest Medicinal Resources Research Institute, National Institute of Forest Science  
(NIFoS)

This study was conducted to develop a somatic embryogenesis protocol for the *Cnidium officinale* Makino difficult to seed propagation. The immature flowers were used as explants. The concentration of a 2,4-D 1.0mg/L was found to be optimal concentration for induction of embryogenic callus and somatic embryos. Addition of 0.3mg/L, 0.5mg/L and 1.0mg/L to the embryo germination medium promoted somatic embryo germination. Among four concentrations, GA<sub>3</sub> 1.0mg/L were superior to others. Shoots were transferred to hormone-free MS medium after 2 months of culture in the dark. We obtained an optimized protocol for the regeneration of *C. officinale*.

\*(Corresponding author) jiahkim@korea.kr, Tel: +82-54-6305-633