

## ABSTRAKT

Pavla Macháčková

### Production of secondary metabolites in plant cell cultures

The influence of silver ions as an elicitor on the production of scopoletin in cell suspension cultures of *Angelica archangelica* L. was investigated. The cultures were cultivated in Murashige and Skoog medium on a roller at 25 °C, and incubated in the dark. Scopoletin content within the cells and in the culture medium was determined by high performance liquid chromatography. Scopoletin production in cell cultures increased in response to the elicitor treatment. The highest production of scopoletin was achieved with silver nitrate at the concentration of 0.85 mg/l after 192 hours of elicitor addition, compared to non-elicited control cultures.