

## REVIEW ARTICLE

### ANTHER CULTURE AS A SUPPLEMENTARY TOOL FOR POTATO BREEDING

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#### **ABSTRACT**

*Anther culture is a technique for creating haploid lines from farmed potato (*Solanum tuberosum* L.), which possesses a tetraploid genome ( $2n = 4x = 48$ ). Shoot regeneration via direct embryogenesis in anther culture is favored for producing dihaploid ( $2n = 2x = 24$ ) potato lines that can be used in variety breeding. Not only in cultivated potato (*S. tuberosum*), but also in other genetically similar potato species, the anther culture methodology described in this chapter can be used.*

**KEYWORDS:** *Haploid Line, Pollen, Donor Plant, Embryogenesis*