

Turkish Journal of Botany

Turkish Journal

of

Botany

Peroxidase and IAA-Oxidase Activities During Rooting in Cuttings of Three Poplar Species

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Abstract: Peroxidase (PO: E. C 1.11.1.7) and IAA. Oxidase (IAA-O) enzyme activities were investigated during rooting in cuttings of *Populus nigra* L., *Populus alba* L. and *Populus tremula* L. (Salicaceae), and the relations between enzyme activities and rooting ability were examined comparatively. PO activity started to increase the early stages of primordium formation and reached the highest level before root emergence. However, no apparent correlation was found between the activity of PO and the ability of the cuttings to form roots. IAA-O activity was observed only in root cuttings of *P. alba* and *P. nigra*. Activity increased after day 6 and reached the highest level at the stages of root emergence. A positive correlation between rooting and IAA-O activity was observed.

Key Words: Peroxidase, IAA. Oxidase, Rooting, Poplar

Turk. J. Bot., **24**, (2000), 97-102.

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