

***IN VITRO* PRODUCTION OF α -TOCOPHEROL FROM *CORYLUS AVELLANA* L. –
AN IMPORTANT INDUSTRIAL CROP**

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In vitro technology will be a challenging novel approach for higher production of nutraceutical and pharmaceutical bioactive compounds. *Corylus avellana* L. is a traditional nutraceutical plant in Italy, which is presently being promoted and sold in Australia and USA as functional food which is advantageous to one's health and beauty. In this consideration warrant, we established *in vitro* technology for higher production of safety and bioactive nutritional as well as medicinal α -tocopherol from adventitious roots and cell culture. We will discuss the effects of elicitor with special reference to vitamin E of α -tocopherol and biomass production. Furthermore, we will also highlight the factors that affect vitamin E accumulation *in vivo* system.