

Anatomy Study of Seeds of *Calligonum comosum* in Vitro

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Abstract : Eighty-four of *Calligonum comosum* were cultured on Murashige and Skoog medium on every combination supplemented with different concentrations of IAA, BA, Zeatin, and GA3. When 84 seeds were inoculated on MS free hormones, different types of cells contain dense cytoplasm were observed after 23 days and long thick wall cells arranged in layers. In case of using MS +BA(0.5mg/L), different types and shapes of parenchyma cells contain dense cytoplasm were detected after four weeks. In the case of using MS + BA(1mg/L) + GA3 (3mg/L), thick wall parenchyma cells contain dense cytoplasm after 19 days, but many layers of parenchyma cells contain dense cytoplasm after 28 days. When MS +kin(0.5mg/L) a thick cells wall as Sclereids were observed after 29 days. No any response were observed on Zeatin (0.5, 1 mg/L).

Keywords : anatomy, *Calligonum comosum*, in vitro, aeds

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