

Effect of Interaction between Colchicine Concentrations and Treatment Time Duration on the Percentage of Chromosome Polyploidy of *Crepis capillaris* (with and without 2B Chromosome) in vitro Culture

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Abstract : These experiments were conducted at Tissue Culture Laboratory/ Faculty of Agriculture / University of Duhok during the period from January 2011 to May 2013. The objectives of this study were to study the effects of interaction between colchicine concentrations and treatment time duration of *Crepis capillaris* (with and without 2B chromosome) on chromosome polyploidy during fifteen passages until regeneration of plants from the callus. Data showed that high percentage of chromosome polyploidy approximately can be obtained from high concentration of colchicin and long time of duration.

Keywords : polyploidy, *Crepis capillaris*, colchicine, B chromosome

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