

**Genetic manipulation of tobacco plant with wheat germ agglutinin (wga) gene through agrobacterium mediated transformation.**

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**ABSTRACT**

Nowadays scientist are working under various research studies by applying modern technologies, in that genetic engineering is the most developing one in recent days, which emphasis that a test tube science that makes possible to break through the species barrier and to shuffle its genetic information between completely unrelated species. In the present work, construction and transformation of pGPTV vector carrying WGA gene to E.col iDH5a and transfer of vector to Agrobacterium tumefaciens were performed. The transformed Agrobacterium tumefaciens are used to create transgenic tobacco plants by co-cultivation method. Thus the results of the study shown greater production of transgenic plants using rDNA technology could be a major step in achieving large scale production of plants and reduces the accumulation of chemical pesticides that are hazardous to the environment.