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The invention relates to agriculture, particularly to plant selection and genetics, and may be used for obtaining corn regenerating plants merely with female reproductive organs.

The proposed process includes separation of immature embryos on the 10...12 day after pollination, cultivation thereof during 14 days on Murashige-Skooge nutrient medium, containing 2,4-dichlorophenoxyacetic acid, till callus formation, recultivation of the obtained callus on the same medium till obtaining of embryogenic callus and the corn regenerating plants are obtained by cultivation of the embryogenic callus on Murashige-Skooge medium, containing 2,4-dichlorophenoxyacetic acid in a concentration of 1,0...2,0 mg/L.

The result of the invention consists in increasing the frequency of obtaining corn regenerating plants merely with female reproductive organs.