

Apomictic species in genus *Hierochloë* R. Br. - The article is dedicated to cytoembryology investigation of two cereals species: *Hierochloë glabra* (two populations from Kamchatka) and *H. repens* (one population from Lower Volga region). The plants of these populations are characterized by high frequency of ovules with few (2-4) megagametophytes (5,7; 8,6 и 25%, respectively). This point to the apoarhespory - development of unreduced embryo sacs from somatic nucellus cells. The some unfertilized embryo sacs contain proembryo and nuclear endosperm, which indicate a potential of parthenogenesis and autonomous endospermogenesis, at least in the early development stage.