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DEVELOPMENT OF WAYS TO CONTROL CODLING MOTH WITH THE HELP OF BIOLOGICAL PRODUCTS AND METHODS

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ABSTRACT

Garden agrobiocenosis is one of the most complex biological systems and is characterized by the greatest stability and longevity of coenotic relationships. However, the systematic and long-term use of pesticides in fruit plantations leads to qualitative and quantitative changes in the phyto and zoophagous fauna. The consequence of the uncontrolled use of the chemical method is the formation of resistant pest populations. This study discusses the current trends in the biological control of the codling moth, which ensures high efficiency of crop protection with the combined use of pheromone disorientation, an entomopathogenic virus, and the parasitic hymenoptera *Habrobracon hebetor* Say. We've found that complementary methods of disrupting the sexual chemical communication of the pest, the use of the codling moth granulosis virus and the 2-3-times release of gabrobrakon allow you to keep the yield at the level of the chemical standard. The efficiency achieved is ensured by prolonged and uniform emission of pheromone and dispensers, high efficiency and selectivity of the baculovirus product Fermovirin CM and parasitic activity of the gabrobracon *H. hebetor* ectoparasite against middle and older ages caterpillars of the codling moth.

Keywords: pheromones, disorientation, granulosis virus, codling moth, gabrobracon, biological plant protection.