Chromosomal Polymorphism in the Populations of Malaria Mosquito *Anopheles messeae* (Diptera, Culicidae) in the Volga Region

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Abstract—We studied the species composition and chromosomal variability of malaria mosquitoes in the Volga Basin (Upper, Middle, and Lower Volga regions). We investigated larvae karyotypes of sibling species of the *Anopheles maculipennis* group. We calculated the frequencies of chromosomal inversions in the local populations of the dominant species *An. messeae*. We discovered that karyotypic structure of *An. messeae* populations depends on landscape-climatic zones. Populations of the Upper, Middle and Lower Volga differ in frequency of chromosome inversions XL, 2R, 3R, and 3L.

Keywords: chromosomal polymorphism, malaria mosquitoes, landscape-climatic zones, *Anopheles*

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