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Heterogeneity of Heterotrophic Bacteria Dominating in Brackish Lake Shira (Republic of Khakasia, Russia) Subjected to Anthropogenic Impact

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Author(s)

Tatiana I. Lobova, Yuriy V. Barkhatov, Olga V. Salamatina, Ludmila Yu. Popova

ABSTRACT

In this work data on heterogeneity in halotolerance and the resistance to antibiotics of heterotrophic bacteria dominating in Lake Shira (Republic of Khakasia, Russia) were presented. It was established that halotolerance of the bacteria is determined by genetic and epigenetic mechanisms. Influence of anthropogenic factor (entering the ecosystem allochthonous bacteria) on the appearance of multiple antibiotic resistance appearance by dominating bacterial species is discussed.

KEYWORDS

Anthropogenic Impact, Antibiotic Resistance, Halotolerance, Heterotrophic Bacteria, Heterogeneity

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