

## THE CILIATE *DILEPTUS ANSER* IS AN OBJECT FOR RESEARCH GENETIC INSTABILITY IN THE SYSTEM OF SEROTYPES AND MATING TYPES

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The proposed report presents the results that were obtained for quite some time with the help of the ciliates *Dileptus anser*. This object is new for the genetics and epigenetics of ciliates and interesting in terms of comparative genetics of these Protozoa. For the study, the classic signs for infusorians genetics were selected – serotypes and mating types. The results are given that do not fit into the generally accepted schemes described in the literature when studying classical objects – *Paramecium* and *Tetrahymena*. For the first time for the *D. anser*, a hybridologic analysis of the character mating type was performed. The data on the inheritance and genetic determination of this character are discussed. Noteworthy was the discovery of mating type instability in young exconjugant clones in some crosses. It is assumed that the type of mating clone is the result of stable epigenetic differentiation of a complex multipotential locus.

**Keywords:** ciliates, *Dileptus anser*, serotypes, i-antigens, mating types, temperature of cultivation, non-Mendelian inheritance, epigenetic inheritance