

Genetic diversity and genetic analysis of the trait “leaf hairiness” in bread wheat

Aleshina TEu, Pshenichnikova TA, Shchukina LV
Institute of Cytology and Genetics SB RAS, Novosibirsk, 630090 Russia

Leaf hairiness in wild and cultivated cereals is known to play an important role in adaptation of plants under droughty environment. This character is widely spread among the best old and modern commercial cultivars of common wheat in droughty environment of Siberia, Kazakhstan and Volga region. In addition, a role of hairiness in the control of insect pests has also been supposed. The inheritance of this complex quantitative trait is poorly studied and the diversity of the trait in wheat has not been described yet. In this work, the different types of leaf hairiness with known and unknown genetic control will be presented found among bread wheat cultivars and lines with introgression from wild relatives. The results of genetic investigations of the trait will be showed.