



Spreading of *Alternaria* spp. in Mycoflora of Winter Wheat Seeds in North-East of Ukraine

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Abstract: The article deals with the abiotic and biotic factors which influence the dynamic system of wheat seed mycoflora. The study of seed-born fungi in the north-east of Ukraine showed the dominance of a genus of fungi, *Alternaria*. The diagnosis of species according to the peculiarities of colony growth on potato-carrot environment and the structure of conidial sporulation, 5 kinds of fungi were discovered (*A. tenuissima* (Nees et T. Nees: Fr.), *A. alternata* (Fr.) Keissl. *A. infectoria*, *A. arborescens* and *A. avenicola* E.G. Simmons, Kosiak & Kwasna). *A. arborescens* (37.4%) was the most common species among those identified. PCR analysis of experimental survey confirmed the dominance of this species in the north-east of Ukraine. The investigation of the spreading of the genus of *Alternaria* proved their placing in five regions from the north to the south with the largest amount of fungi in the northern territories. It can be concluded that the presence of *Alternaria* species varied depending on the place of sampling and the year of study.

Keywords: *Alternaria* species, Seed mycoflora, Winter wheat, The north-east of Ukraine
