T. I. Tugay, A. V. Tugay, M. V. Zheltonozhska, L. V. Sadovnikov

PRINCIPLES OF THE LOW DOZES IRRADIATION INFLUENCE ON MICROSCOPIC FUNGI

Analysis of the influence of chronic irradiation on strains of two species of microscopic fungi *Hormoconis resinae* and *Cladosporium cladosporioides* on two parameters – speed of radial growth and surviving is carried out. It was shown, the increase of radial growth rate under exposure doses from 0 to 250 mGy occurs non-uniformly, and to maxima at the certain dozes of irradiation at the investigated species of fungi. At the absorbed doze of irradiation from 0,36 up to 2 Gy as at strains *Hormoconis resinae* and *Cladosporium cladosporioides* with radioadaptive properties isolated from the alienation zone, and at strains, irradiated for the first time, is not revealed decrease surviving of fungi in comparison with the control without irradiation. It was established, that the dozes of an irradiation up to 2 Gy (at capacity of an exposition doze 3,7 mR/h) are small for these species of microscopic fungi.

Keywords: microscopic fungi, chronic irradiation, dozes.