

**DEPENDENCE OF CYTOPLASM MOVEMENTS ON Ca^{2+} CHANNELS STATE UNDER
THE IONIZING RADIATION AND ELECTROMAGNETIC RADIATION OF HIGH
FREQUENCY**

N. V. Tordiya, D. M. Grodzinsky

The hypothesis for explanation of the time oscillations of plant cells' cytoplasm moving speed caused by both ionizing radiation and electromagnetic emission of high frequency is suggested. These oscillations are connected with the permeability of the membrane for Ca^{2+} ions. Experiment with using of potentially dependent calcium blocker Verapamil allowed to conform this hypothesis.