

BIOLOGICAL EFFECTS IN CELL DESCENDANTS IN CONDITIONS OF COMBINED INFLUENCE OF IONIZING RADIATION AND ELECTROMAGNETIC MILLIMETER WAVES

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Modifying effect of low-intensity electromagnetic radiation of millimeter range is studied on the L₉₂₉ cell line, exposed to γ -radiation in 0, 1 - 10, 0 Gy dose range, which maintains in descendants during subculturing up to 8 - 10 passages. The effects of cell survival increasing, cell proliferative and mitotic activity, the radiation resistance and adaptive response were discovered at irradiated cell cultures in conditions of combined influence of γ -rays in doses 0,1 and 1,0 Gy and electromagnetic millimeter waves.

Keywords: cell culture, cell survival, ionizing radiation, low-intensity electromagnetic radiation of millimeter range, radiation resistance, adaptive response.