

INFLUENCE OF LOW DOSES OF IONIZING RADIATION ON THE REPRODUCTIVE INDICES AND PHYSIOLOGICAL DEVELOPMENT OF EXPERIMENTAL ANIMALS IN SEVERAL GENERATIONS

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It was found out that permanent irradiation in low-level doses at the Chernobyl exclusion zone have unfavorable influence on the reproductiv function, postnatal development of some subsequent generations of antenatally irradiated experimental rats and breaked the chromosome structure in bone marrow cells. There are some arguments in witness of this: a decrease of birth rats and the number of newborn rats in bred per rat-mother, an increase in death of babyrats, a reduction of the mass of one-month rats, a retardation of certain fisiological markers of development, an increase of the cases of anatomical anomalies. The chromosome aberration frequency in bone marrow cells of Chornobyl-leved animals increased.