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EMERGING DISEASES AND PREVENTIVE MEDICINE

Molecular Mechanisms of Initiation of Testicular Carcinogenesis

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ABSTRACT

In recent years, there has been a trend in Ukraine and in the world of an increase in the incidence of germ cell tumors (GCT). Among the etiologic factors in testicular carcinogenesis, particular attention is paid to the association of GCT with male infertility, which has been confirmed in many studies. Among the environmental factors, that can initiate carcinogenesis, the most noteworthy are the biological effects of low doses of ionizing radiation, such as the effect of radiation-induced genome instability, the "bystander effect" and chronic oxidative stress, which are increases the risk of carcinogenesis. The aim is to study the role of the ubiquitin-proteasomal system and components of the blood-testis barrier, as well as action of TGF-β in the regulation of spermatogenesis in male infertility, including of patients living in 137Cs radiocontaminated regions of Ukraine, as well as in the initial stages of carcinogenesis for the future determination of early diagnosis of germ cell tumors of the testis and the development of preventive measures.

BIOGRAPHY

Svitlana Bazalytska works at the State Institution "Institute of Urology NAMS of Ukraine", Kyiv, Ukraine.

PUBLICATIONS

Svitlana Bazalytska, Sex chromosome abnormalities in male infertility

Svitlana Bazalytska, Features of the state of the blood-testicular barrier in various forms of male infertility

Svitlana Bazalytska, Evaluation of the qualitative parameters of ejaculate in patients with infertility

Svitlana Bazalytska, Peritumoral tissue changes in the case of germogenic fluff

Svitlana Bazalytska, Spermatogenesis in ailments due to germogenic puffins

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Citation: Svitlana Bazalytska, State Institution "Institute of Urology NAMS of Ukraine", Kyiv, Ukraine, International Conference on Oncology and Cancer, Webinar, June 02, 2020, 04