

# ULTRASTRUCTURAL REORGANIZATION OF ENDOTHELIOCYTES OF BLOOD CAPILLARIES OF WALKER 256 CARCINOSARCOMA IN THE CONDITIONS OF THE TUMOUR SPONTANEOUS GROWTH AND UNDER GENERAL HYPERTHERMIA

Elena Vladimirovna OVSYANKO<sup>1</sup>, Natalja Petrovna BGATOVA<sup>2</sup>,  
Yakhid Umerovna OVSYANKO<sup>1</sup>, Gennady Mikhailovich VAKULIN<sup>1</sup>

<sup>1</sup>*Novosibirsk State Medical University of Roszdrav  
630091, Novosibirsk, Krasnyi av., 52*

<sup>2</sup>*Institute of Clinical and Experimental Lymphology SB RAMS  
630117, Novosibirsk, Timakov str., 2*

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The ultrastructural reorganizations of endotheliocytes of Walker 256 carcinosarcoma at spontaneous cancer development and under general hyperthermia has been considered. The male rats Wistar of 180–200 g weight have been used in the investigation. The suspension of cells transplanted Walker 256 carcinosarcoma was administered to rats' thigh muscle at a dose of  $1 \times 10^6$  cells. The samples of tumor tissue for electron microscopic studies were taken on the 5th day after tumor cells transplantation. It has been revealed that the impact of general hyperthermia has a damaging effect on the structure of the endothelial cells of the tumor blood capillaries: the cells swelling occurs, the loss of connection with endothelial basement membrane, loosening of interendothelial contacts, the decrease in cytoplasmic organelles content, swelling of mitochondrias and membranes of granular endoplasmic reticulum.

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**Ovsyanko E.V.** — candidate of medical sciences, associated professor, e-mail: [Vin\\_San92@mail.ru](mailto:Vin_San92@mail.ru)

**Bgatova N.P.** — doctor of biological sciences, professor, head of the laboratory of ultrastructural investigation, e-mail: [n\\_bgatova@ngs.ru](mailto:n_bgatova@ngs.ru)

**Ovsyanko Ya.U.** — candidate of medical sciences, e-mail: [Vin\\_San92@mail.ru](mailto:Vin_San92@mail.ru)

**Vakulin G.M.** — candidate of medical sciences, researcher of the central research laboratory