



ABSTRACTS

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However, the use of LC at concentrations of 15-20 mM can increase by 10% the yield of viable intact cells compared to the control without antioxidant.

Thus, studies have shown the effectiveness and prospects of the addition of antioxidants to cryoprotective media in cryopreservation and long-term storage of human cord blood cells.

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P87 MORPHOLOGICAL CHARACTERISTICS OF FRESHLY ISOLATED AND CRYOPRESERVED SPERMATOZOA OF SAANEN BUCKS IN DIFFERENT SEASONS

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Background. Goat breeding throughout the year may effectively increase livestock if assisted reproductive technologies and cryopreservation of spermatozoa with the best morphofunctional characteristics are used. **Objective.** To evaluate the influence of seasons on morphological characteristics of goat sperm before and after cryopreservation. **Methods.** Ejaculate of 3 sexually mature goats of the Saanen breed were obtained during the breeding (September-December) and non-breeding (March-June) seasons. To assess the morphological characteristics smears of sperm were stained and then were visualized under a light microscope with a magnification of x1000. Cryopreservation of sperm was performed in a medium with 10% glycerol and 20% egg yolk. The samples were thawed on a water bath. The

morphological characteristics of the cells after cryopreservation were evaluated. **Results.** After cryopreservation, the number of sperm with defects in morphological structures was significantly higher compared to freshly isolated, both in the breeding and non-breeding seasons ($p \leq 0.05$). In the non-breeding season after cryopreservation, significantly more spermatozoa have head abnormalities than in the breeding season ($p \leq 0.05$). Analyzing the morphological characteristics of the tail part, we revealed the fact of its reduction after cryopreservation, probably due to twisting, loop formation and detachment of its part. **Conclusion.** Morphological characteristics of Saanen goat sperm significantly change ($p \leq 0.05$) after cryopreservation, regardless of the season. In the non-breeding season, there is significantly more damage to morphological structures in both freshly isolated and cryopreserved sperm, compared with the breeding season.

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P88 HORMONAL STATUS OF AGED RATS WITH DIET-INDUCED OBESITY AFTER UMBILICAL CORD BLOOD ADMINISTRATION

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The number of obese people steadily increases. Disorders of central mechanisms of regulation, when the eating behavior changes and body's neurohormonal shifts occur, are observed in obesity. The objective herein was to evaluate the impact of administration of cryopreserved

nucleated cord blood cells (cNCBCs) on hormonal status of aged rats with obesity. Experiments were approved by the Bioethics Committee of the Institute for Problems of Cryobiology and Cryomedicine of the NAS of Ukraine. Thawed CBNCs preparation was injected intraperitoneally in dose of 3×10^5 CD34⁺-cells/kg. The preparation was made up to 1 ml volume with plasma autologous to the cells. The next day, a week and a month after cord blood injection the animals were sacrificed and blood was sampled for further studies. The content of thyroxine (T₄), triiodothyronine (T₃), testosterone (T_s), estradiol (E_s) and dehydroepiandrosterone sulfate (DHEAS) was determined by enzyme-linked immunosorbent assay using the standard ELISA kits. The obesity was accompanied by a significant decrease in thyroid and sex hormone concentration in blood serum of aged rats. The cNCBCs administration the next day, a week and a month later promoted increasing not only the total T₃ level, but also total T₄ one in blood serum of aged obese rats, accompanied by a significant increase in T_s concentration as well. The cNCBCs injection augmented the functional activity of thyroid and sex glands, normalized the T_s level, thus increasing the adaptive and compensatory body potential in aged obese animals. The revealed changes are physiologically significant, since thyroid hormones increase the oxygen absorption by organs and tissues, regulate the metabolism of lipids and carbohydrates, thereby participating in energy metabolism and maintaining the constancy of body weight. If a metabolic rate increases, the proteins and fats are decomposed under thyroid hormone impact, resulting in decreased appetite and body weight loss.

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P89 PHYSICOCHEMICAL AND CRYOPROTECTIVE PROPERTIES OF PVA COMPOSITIONS AND LOW MOLECULAR WEIGHT CRYOPROTECTORS

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Preventing ice crystallization during freeze-thawing is one of the main problems of cell preservation. One highly effective recrystallization inhibitor is polyvinyl alcohol (PVA). According to our data, the combination of PVA and low molecular weight cryoprotectants (CP) can significantly improve the results of cells cryopreservation. However, it is not clear which molecular mechanisms influence the cryoprotective activity of PVA in combined media. Using strain-dilatometry, stalagmometry, optical microscopy, fluorescence probes, flow cytofluorimetry, and computer simulations etc., we performed the study of the physicochemical properties of solutions containing PVA (9 and 31 kDa) as well as glycerol (GL) or 1,2-propanediol (1,2-PD). The cryoprotective activity of the solutions was evaluated on donor erythrocytes. It was found that PVA forms micellar structures in aqueous solutions. In 0.1-5% (w/w) PVA solutions changes in the structural organization of the polymer with the formation of local regions differing in size and degree of hydrophobicity were detected. In solutions containing PVA and GL, hydrophobic interactions are enhanced. In media containing 1,2-PD and PVA, there is a change in the structure of the PVA-1,2-PD complex and the decrease

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