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ABSTRACTS



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images. It is observed that the MHN produces a lower minimum temperature and a more unsymmetrical lethal spread than the single-hole nozzle, reflecting greater certainty of cell or tissue death and broader disease coverage for the same gel thickness. The study provides valuable insight into the influence of gel thickness and bone presence on freezing behaviour and tissue destruction during cryospray application with a multi-hole nozzle (MHN). It is observed that both the end temperature and the lethal freezing spread increase with increasing gel thickness. These findings enhance understanding of the potential clinical effectiveness of cryospray as a treatment for malignant skin diseases.

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SURG-04(V) EXTRACORPOREAL AUTOLOGUS CRYOIMMUNOLOGY IN CANCER PATIENTS

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Cryoinduced antigens represent a core concept in both autologous and allogeneic cryo-immunological medicine. Exposure of living biological tissues to ultralow temperatures results in the formation of novel cryomodified protein components and cryocell debris.

The aim of the present study was to evaluate the immunomodulatory response induced by an extracorporeal autologous cryo-hematological therapeutic approach of subcutaneously injected blood and to assess its potential antitumor effects.

Native peripheral blood was rapidly frozen to −180 °C. Immunophenotyping and cellular immune status parameters were assessed in 68 patients with malignant disease.

Mitogen stimulation *in vitro* revealed a progressive increase in the absolute number of $CD69^+$ circulating B cells during the post-treatment period, indicating enhanced naïve B-cell activation and proliferative capacity. Additionally, a marked and sustained increase in both absolute and relative counts of $CD56^+CD45^+CD69^+$ lymphocytes was observed.

We hypothesize that extracorporeal freeze–thawed autologous blood generates novel cryoinduced immunogenic substances, including cryomodified protein components, cryoantigens, and cryocell debris.

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SURG-05(V) ADIPOSE TISSUE MACROPHAGES IN POLYCYSTIC OVARY SYNDROME RATS UNDER INTERMITTENT COLD EXPOSURE

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Macrophages are involved in the onset, progression of chronic inflammation, which plays a major role in polycystic ovary syndrome (PCOS) pathogenesis. The intermittent cold exposure (ICE) effect on macrophages morpho-functional state in PCOS remains unknown. The experiment was conducted on 40 female WAG rats divided into 5 groups (G) (1 – 8 intact rats; 2 – 8 rats, which were injected subcutaneously with 0.2 ml of purified, sterilized olive oil daily for 25 days; 3 – 8 rats that were subjected to ICE daily for 25 days; 4 – 8 rats with dehydroepiandrosterone (DHEA)-induced PCOS; 5 – 8 rats that were injected with DHEA against the background of ICE). The study material was perirenal adipose tissue. Monoclonal antibodies to CD68, CD86, CD163 were used. The absolute number (AN) of $CD68^+$-cells did not differ ($p>0.05$) in G 2 (46.4±2.2) compared to G 1 (49.7±3.1); decreased ($p<0.05$) in G 3 (25.3±2.7) compared to G 1, 2; increased ($p<0.05$) in G 4 (337.2±3.5) compared to G 1-3; decreased ($p<0.05$) in G 5 (88.7±2.8) compared

to G 4. In G 1, 2 the relative number (RN) of M1, M2 macrophages did not differ ($p>0.05$) and was, respectively, (34.5±1.3)% and (65.5±1.3)%, (32.0±1.7)% and (68.0±1.7)%. In G 3 compared to G 1, 2 the RN of M1 macrophages ((20.4±1.7)%) decreased ($p<0.05$), the RN of M2 macrophages ((79.6±1.7)%) increased ($p<0.05$). In G 4, 5 compared to G 1, 2 the RN of M1 macrophages (G 4 – (72.8±2.1)%, G 5 – (41.4±2.2)%) increased ($p<0.05$), the RN of M2 macrophages (G 4 – (27.2±2.1), G 5 – (58.6±2.2)%) decreased ($p<0.05$), however in G 5 compared to G 4 the RN of M1 macrophages was lower ($p<0.05$), the RN of M2 macrophages was higher ($p<0.05$). Thus, ICE against the DHEA administration background reduces the $CD68^+$-cells number in perirenal adipose tissue, normalizes the balance between M1 and M2 macrophages.

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SURG-06(V) CRYOINJURY AND CELL SURVIVAL IN CRYOPRESERVED AUTOLOGOUS SKIN

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Cryopreservation of complex tissues is limited by cryoinjury arising from intracellular ice formation, osmotic stress, and subcellular organelle damage. Skin, composed of multiple metabolically active cell populations, is particularly vulnerable to freezing and thawing injury. This study evaluates autologous skin cryopreservation from a cryobiological perspective, linking mechanisms of cellular injury to functional graft survival after delayed reimplantation.

Split-thickness autologous skin grafts were cryopreserved using controlled-rate freezing in the presence of dimethyl sulfoxide–based cryoprotective solutions and stored at ultra-low temperatures. Rapid thawing was performed to minimize recrystallization, followed by stepwise removal of cryoprotectants to reduce osmotic shock. Cryoinjury was inferred through post-reimplantation graft survival, resistance to infection, and wound integration, reflecting preserved cellular and extracellular matrix function. Clinical outcomes were compared with immediate grafting and non-cryopreserved delayed grafting.

Cryopreserved skin grafts demonstrated high rates of graft take and stable wound healing, suggesting effective suppression of lethal intracellular ice formation and mitigation of osmotic injury. Clinically favorable outcomes are consistent with preserved keratinocyte and fibroblast viability, maintained mitochondrial function, and reduced activation of apoptosis and necrotic pathways. Delayed reimplantation further minimized inflammatory and ischemic stress at the recipient site, thereby improving graft integration.

When guided by core cryobiological principles—controlled cooling, adequate cryoprotection, and rapid thawing—autologous skin can retain cellular viability and functional status suitable for delayed reimplantation. These findings highlight skin grafting as a clinically relevant tissue model for studying cryoinjury and recovery and support broader translational applications of tissue cryopreservation in reconstructive surgery.

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PLNT-01 CRYOCONSERVATION OF SEEDS FOR THE PRESERVATION OF KAZAKHSTAN *ROSA* L. GENETIC RESOURCES

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The genus *Rosa* L. represents a valuable genetic resource for breeding, horticulture, and the pharmaceutical industry. There are 25 *Rosa* species growing in Kazakhstan, including six endemics. In 2025, expeditions were conducted to collect wild

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