

**MINISTRY OF HEALTH OF THE REPUBLIC OF MOLDOVA
NICOLAE TESTEMITANU STATE UNIVERSITY
OF MEDICINE AND PHARMACY**

**LABORATORY OF TISSUE ENGINEERING AND CELLS CULTURES
HUMAN TISSUE BANK, ORTHOPEDICS AND TRAUMATOLOGICAL HOSPITAL**



**The Materials of the National Scientific Conference
with International Participation
„CELLS AND TISSUES TRANSPLANTATION.
ACTUALITIES AND PERSPECTIVES. THE 3rd EDITION”
Dedicated to the 80th anniversary of the founding of Nicolae Testemitanu State
University of Medicine and Pharmacy**



Chisinau, March 21-22, 2025

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AGENDA

Registration

March, 21, 2025

Opening ceremony 15:00 - 15:20

Ceban Emil, MD, PhD, Rector at SUMPh *Nicolae Testemitanu*, Academician, Professor.

Romanciuc Grigore, Head of Agency of Transplantation, Republic of Moldova.

Stepa Serghei, PhD, Director at Clinical Hospital of Orthopedics and Traumatology.

Nacu Viorel, MD, PhD, MPH, Head of Human Tissue Bank at Clinical Hospital of Orthopedics and Traumatology, Responsible for Laboratory of Tissue Engineering and Cells Cultures at SUMPh *Nicolae Testemitanu*.

DAY ONE – 21 March 2025

PLENARY MEETING

1. **15:20-15:40.** **Nacu Viorel, Stepa Serghei, Cospormac Igor, Cociug Adrian, Cobzac Vitalie, Gutu-Bahov Cornelia, Tambalari Tatiana.** Tissue and cells transplantation in Republic of Moldova, trendlines. *Chisinau, Republic of Moldova*.
2. **15:45-16:05.** **Jian Mariana, Codrea Cosmin, Spoiala Angela, Ficai Denisa, Nacu Viorel, Ficai Anton.** Material Design in Hard Tissue Engineering. *Bucharest, Romania. Chisinau, Republic of Moldova*.

SESSION 1

Oral presentations

Moderators: **Ficai Anton**, *PhD, Professor, (Romania)*; **Romanciuc Grigore**, *MD, PhD, (Republic of Moldova)*

3. **16:10-16:20.** **Iapascurta Victor.** Agent-based modelling of fluid dynamics in lung tissue engineering. *Chisinau, Republic of Moldova*.
4. **16:20-16:30.** **Iapascurta Victor.** Building a rag system for tissue engineering: insights from domain-specific text and sepsis management. *Chisinau, Republic of Moldova*.
5. **16:30-16:40.** **Jian Mariana, Nacu Ana-Maria, Mostovei Andrei, Cobzac Vitalie, Motilica Ludmila, Oprea Ovidiu Cristian, Pantea Valeriana, Coretchii Ianos, Ficai Denisa, Ficai Anton, Nacu Viorel.** Tissue grafts for oral-maxillo-facial surgery. *Chisinau, Republic of Moldova*.
6. **16:40-16:50.** **Cojocari Stefan, Cobzac Vitalie, Nacu Viorel, Cociug Adrian, Buzu Dumitru, Vacarciuc Ion, Ticu Ion, Gutu Andrian, Suveica Teodor, Frasineac Victor, Capros Nicolae, Taran Anatolie.** Bone graft use in internal fixation of proximal and diaphyseal humeral fractures and pseudarthrosis. *Chisinau, Republic of Moldova*.

SESSION 2

Moderators: Cobzac Vitalie, MD, PhD (Republic of Moldova), Palarie Victor, MD, PhD (Republic of Moldova)

1. **16:50-17:10.** Marga Irina. Epidemiology of healthcare-associated infections in children undergoing hematopoietic stem cell transplantation. *Chisinau, Republic of Moldova.*
2. **17:10-17:20.** Macagonova Olga, Cocciug Adrian, Taralunga Tatiana, Braniste Tudor, Verestiu Liliana, Nacu Viorel. Evaluation of the regenerative efficacy of biological dressings developed through tissue engineering. *Chisinau, Republic of Moldova; Iasi, Romania.*
3. **17:20-17:30.** Iacobitchii Maria, Bendelic Eugeniu, Taralunga Tatiana, Nacu Viorel. Exploring trabecular meshwork stem cells: potential roles, therapeutic implications and challenges in glaucoma. *Chisinau, Republic of Moldova.*
4. **17:30-17:40.** Mihaluta Viorica, Stoian Alina, Iordachescu Rodica, Raischi Ion, Verega Grigore, Nacu Viorel. Amniotic membrane therapy: a step toward faster ulcer healing. *Chisinau, Republic of Moldova.*
5. **17:40-17:50.** Rusu – Radzichevici Natalia, Radzichevici Mihail, Stefanet Veronica. Use of cell transplants in jaw reconstructive surgeries. *Chisinau, Republic of Moldova.*
6. **17:50-18:00.** Popova Daria, Iordachescu Rodica, Verega Grigore, Jian Mariana, Nacu Viorel, Stoian Alina. Breast tissue engineering: innovations, methods, and future perspective. *Chisinau, Republic of Moldova; Toronto, Canada.*
7. **18:00-18:10.** Croitoru Dan, Todica Vladislav, Andronachi Victor, Andrusca Alexandru, Visnevschi Sergiu, Braniste Tudor, Nacu Viorel. Nanocarriers that may bypass the blood-brain barrier. *Chisinau, Republic of Moldova.*
8. **18:10-18:20.** Cobzac Vitalie, Jian Mariana, Maritoi Tatiana, Baranetchii Iana, Malcova Tatiana, Nacu Viorel. Controlled release of active substances after double loading of demineralized cancellous bone. *Chisinau, Republic of Moldova.*
9. **18:20-18:30.** Palarie Victor. Oral guided bone regeneration. *Chisinau, Republic of Moldova.*

DAY TWO – 22 March 2025

**Session 1
Poster session**

Moderators: Ficai Denisa, PhD, Nacu Viorel, MD, PhD

8:00-9:00

1. **Cotelea-Baligari Ana, Saptefrati Lilian.** Lucas testimonies: cell evolution. *Chisinau, Republic of Moldova.*
2. **Gutu Ina, Bacinschi Nicolae, Turcan Lucia, Caracas Anastasia, Mihalachi-Ana Maria.** Challenges in the use of glucocorticoids in transplantology. *Chisinau, Republic of Moldova.*
3. **Ivanova Svetlana, Foca Ecaterina.** Stem cell transplantation in infertility treatment: new perspectives in regenerative medicine. *Chisinau, Republic of Moldova.*
4. **Cibileanschii Eugeniu, Cibileanscaia Liubov.** Lienal vein – hemodynamic aspects in portal insufficiency. *Chisinau, Republic of Moldova.*
5. **Neznaico Victoria, Istrati Nina.** Scalenus syndrome. *Chisinau, Republic of Moldova.*
6. **Cibileanschii Eugeniu, Cibileanscaia Liubov.** Hemodynamic indicators in the superior mesenteric vein in patients with hepatic cirrhosis. *Chisinau, Republic of Moldova.*
7. **Bogdanov Alan, Badalyan Albert, Babuci Angela.** The role of mesenchymal stem cell-derived extracellular vesicles in cardiac repair. *Chisinau, Republic of Moldova.*
8. **Scevenels Laura, Bogdanov Alan, Topor Boris.** Addressing artificial intelligence gaps in transplant medecine: a machine learning solution. *Chisinau, Republic of Moldova.*
9. **Leanca Iosif, Capcelea Svetlana.** Mimicking the host: gene addition via adeno-associated virus (aav) to reduce rejection in organ transplants. *Chisinau, Republic of Moldova.*
10. **Ecaterina Stratu, Carolina Catcov, Octavian Misic.** Monoclonal antibodies Anti-CGRP (calcitonin gene-related peptide) effective in migraine. *Chisinau, Republic of Moldova.*
11. **Jecova Svetlana, Protopop Svetlana.** Neural stem cell transplantation for neurodegenerative diseases. *Chisinau, Republic of Moldova.*
12. **Stoian Carolina.** Liver transplatation from a living donor. *Chisinau, Republic of Moldova.*
13. **Cheptea Mihai, Hotineanu Adrian.** Liver transplantation from a brain-dead donor. *Chisinau, Republic of Moldova.*
14. **Marcu Beatrice, Sardari Veronica, Tagadiuc Olga.** Fecal microbiota transplantation in cirrhosis: a microbiome-based therapeutic revolution. *Chisinau, Republic of Moldova.*
15. **Maniuc Mihail, Danilov Lucian, Ababii Polina, Nacu Viorel, Furculita Daniel, Bugan Maria, Cretu Carolina, Vishnumaya Sureshan.** Nasal permeability in inflammatory rhinosinusal diseases in children. *Chisinau, Republic of Moldova.*
16. **Babcinetchi Victoria, Caracas Anastasia, Gutu Ina, Bacinschi Nicolae.** Antimicrobial resistance of uropathogens after kidney transplantation. *Chisinau, Republic of Moldova.*
17. **Zavtoni Ana-Maria, Harea Gheorghe.** Current events in liver transplatoty. *Chisinau, Republic of Moldova.*
18. **Caracas Anastasia, Babcinetchi Victoria, Vasilache Eugenia, Coretchi Ianos, Bacinschi Nicolae.** Urinary tract infections treatment in kidney transplant recipients. *Chisinau, Republic of Moldova.*
19. **Bacinschi Nicolae, Dabija Maria, Mihalachi-Anghel Maria, Spinosu Galina.** Bacterial resistance in urinary tract infectious in kidney transplant patients. *Chisinau, Republic of Moldova.*

- 20. Sorici Galina, Diaconu Nadejda, Civirjic Irina, Ivanes Igor, Gorohova Marina, Plugaru Ana, Grosu Aurel.** Correlations between echocardiographic findings and SPECT CT as a predictive tool for chronic thromboembolic pulmonary hypertension in post – pulmonary embolism patients. *Chisinau, Republic of Moldova.*
- 21. Danilov Lucian, Maniuc Mihail, Nacu Viorel, David Valeriu, Ababii Polina, Bugan Maria, Furculita Daniel.** The effect of stimulating local immunity with autologous cells in the treatment of tissue inflammatory process on the body's resistance to infection. *Chisinau, Republic of Moldova.*
- 22. Mihalciuc Olga, Tagadiuc Olga, Gudumac Valentin.** Evaluation of cathepsin d activity in spleen and bone marrow in experimental immunodeficiency and under treatment with sulfated polysaccharides. *Chisinau, Republic of Moldova.*
- 23. Caracas Anastasia, Gutu Ina, Latus Svetlana, Spinosu Galina, Bacinschi Nicolae.** The therapeutic drug monitoring of tacrolimus in renal transplant recipients. *Chisinau, Republic of Moldova.*
- 24. Cojocaru Madalina, Ambros Ala.** The role of MIR-152-5P in renal transplantation. *Chisinau, Republic of Moldova.*
- 25. Tonofa Maria, Purteanu Lilia, Benescu Irina, Cozma Octavian.** Cardiorenal syndrome and cellular therapeutic perspectives: risk factor identification for targeted interventions. *Chisinau, Republic of Moldova.*
- 26. Brinza Ion, Guliev Corina A., Oresanya Ibukun Oluwabukola, Gok Hasya Nazli, Iorhan Ilkay Erdogan, Hritcu Lucian.** Neuroprotective effects of ethanolic extracts from *solanum macrocarpon* in a zebrafish model of scopolamine-induced Alzheimer's disease-related dementia. *Sibiu, Romania, Ankara, Türkiye, Iasi, Romania.*
- 27. Bulicanu Adelia, Cemortan Igor.** Regenerative approaches for epidermolysis bullosa: tissue engineering and gene therapy. *Chisinau, Republic of Moldova.*
- 28. Craciun Ana, Zorina Zinovia, Babuci Angela, Bendelic Anastasia.** Peculiarities of the perineum in morphoclinical aspect. *Chisinau, Republic of Moldova.*
- 29. Babuci Angela, Paz Eli, Zorina Zinovia, Stratulat Silvia, Lehtman Sofia, Calancea Sergiu.** Biomaterials and nanotechnology in dental osseointegration. *Chisinau, Republic of Moldova.*
- 30. Botnaru Doina, Zorina Zinovia, Babuci Angela, Catereniu Ilia, Botnari Tatiana.** Anatomical variability of the deep femoral artery. *Chisinau, Republic of Moldova.*
- 31. Botnari Tatiana, Babuci Angela, Zorina Zinovia, Catereniu Ilia, Botnaru Doina, Ostahi Nadia.** Variability of the paired visceral branches of the abdominal aorta. *Chisinau, Republic of Moldova.*
- 32. Zorina Zinovia, Babuci Angela, Calancea Sergiu, Bendelic Anastasia, Botnari Tatiana, Botnaru Doina, Ostahi Nadia.** Anatomical variants of the deep brachial artery. *Chisinau, Republic of Moldova.*
- 33. Goras Valeria, Tanase Adrian.** Regenerative approaches for managing percutaneous nephrostomy complications: stem cell and tissue engineering strategies. *Chisinau, Republic of Moldova.*
- 34. Sirbu Mariana, Bologan Alina.** Stem cell transplantation in bipolar disorder: exploring regenerative treatment approaches. *Chisinau, Republic of Moldova.*
- 35. Purteanu Lilia, Pintea Dumitrita, Grejdieru Alexandra, Tonofa Marina, Slonovschi Tamara, Ciobanu Gabriela, Matcovschi Laur.** Renal transplant to a patient with type 2 cardiorenal syndrome who is on hemodialysis: clinical and prognostic factors to think about. *Chisinau, Republic of Moldova.*
- 36. Andreea Casian, Veronica Sardari, Stratulat Silvia, Roman Munteanu, Cojoc Daniela, Tagadiuc Olga.** Telomere shortening as a mechanism for the induction of neurodegenerative diseases. *Chisinau, Republic of Moldova.*
- 37. Cojoc Daniela, Sardari Veronica, Munteanu Roman, Stratulat Silvia, Pantea Valeriana, Tagadiuc Olga.** The influence of calcitriol on the Warburg effect in cancer. *Chisinau, Republic of Moldova.*

- 38. Condrea Daniela, Protopop Svetlana.** The influence of vitamin D on metabolic syndrome. *Chisinau, Republic of Moldova.*
- 39. Zavtoni Mariana, Miron Inga, Bernic Vladimir, Coretchi Roman.** Endocrine disruptors-a current problem for the human body. *Chisinau, Republic of Moldova.*
- 40. Hotineanu Adriana, Burgoci Sergiu.** Liver transplantation for hepatocellular carcinoma. *Chisinau, Republic of Moldova.*
- 41. Cojoc Daniela, Sardari Veronica, Tagadiuc Olga.** Role of vitamin d in the wnt/β-catenin signaling pathway. *Chisinau, Republic of Moldova.*
- 42. Marcu Beatrice, Sardari Veronica, Tagadiuc Olga.** Regenerative medicine in liver diseases and cellular mechanisms of liver regeneration and cell-based therapies. *Chisinau, Republic of Moldova.*
- 43. Capros Hristiana, Dondiuc Iurie, Surguci Mihai, Bologan Ion, Potacevschi Oleg.** Isolation of mesenchymal stem cells from Wharton's Jelly. *Chisinau, Republic of Moldova.*
- 44. Casian Andreea, Sardari Veronica.** Mitochondrial calcium regulation in Alzheimer's disease. *Chisinau, Republic of Moldova.*
- 45. Ciobanu Gabriela, Grib Livi.** Human-induced pluripotent stem cell-derived atrial cardiomyocytes: a model for atrial fibrillation research and therapy. *Chisinau, Republic of Moldova.*
- 46. Colibaba Vasile, Sardari Veronica, Munteanu Roman, Ciprian Rudic.** Cancer stem cells and tumor microenvironment: implications for therapy resistance and novel strategies. *Chisinau, Republic of Moldova.*
- 47. Repciuc Ana, Constantin Taralunga, Sardari Veronica.** Obesity in postmenopausal osteoporosis. *Chisinau, Republic of Moldova.*
- 48. Constantin Taralunga, Roman Munteanu, Ana Repciuc, Sardari Veronica.** The implications of autophagy in Crohn's disease. *Chisinau, Republic of Moldova.*
- 49. Grusac Evgheni, Tagadiuc Olga, Munteanu Roman, Pantea Valeriana, Sardari Veronica.** The role of glycation on transplantology methods in cancer treatment. *Chisinau, Republic of Moldova.*
- 50. Ghinda Daniela, Sardari Veronica, Cojoc Daniela.** The role of glycation processes in aging. *Chisinau, Republic of Moldova.*
- 51. Cozma Octavian, Tonofa Maria, Timercan Tatiana.** The prospects of selective JAK inhibitors in hematopoietic stem cells transplantation. *Chisinau, Republic of Moldova.*
- 52. Cobileanschii Eugeniu, Cobileanscaia Liubov.** The capacity of hepatic hemodynamics in the nutritional assurance of hepatocytes in the elderly. *Chisinau, Republic of Moldova.*

Session 2

Oral presentations

Moderators: Labusca Luminita, **MD, PhD (Romania);** Babuci Angela, **MD, PhD (Republic of Moldova).**

- 1. 09:00-09:30. Labusca Luminita.** Novel therapies in osteoarthritis current status and perspectives. *Iasi, Romania.*
- 2. 09:45-10:00. Babuci Angela, Zorina Zinovia, Bendelic Anastasia, Ostahi Nadia, Botnari Tatiana, Botnaru Doina, Lehtman Sofia, Motelica Gabriela, Nastas Liliana, Calancea Sergiu.** Specific features of the facial nerve trunk. *Chisinau, Republic of Moldova.*

3. 10:00-10:15. Braniste Tudor, Vlad Ciobanu, Ion Tighineanu, Three-dimensional nanoarchitectures based on semiconductor compounds for biomedical applications. *Tehnical University, Chisinau, Republic of Moldova.*

4. 10:15-10:30. Cusnir Valeriu, Dumbraveanu Lilia, Lupan Valentina, Cociug Adrian, Procopciuc Vitalie, Cusnir Valeriu V., Balba Rodica, Bostan Mihaela, Nacu Viorel. Deficiency in the treatment of ocular surface diseases. *Chisinau, Republic of Moldova.*

5. 10:30-10:45. Ostahi Nadia, Catereniuc Ilia, Babuci Angela, Bendelic Anastasia, Zorina Zinovia. Anatomical variants of the common carotid artery. *Chisinau, Republic of Moldova.*

6. 10:45-11:00. Brinza Dumitru. Correlation between CD45 expression and clinical-pathological variables in invasive ductal breast carcinoma associated with type 2 diabetes mellitus. *Chisinau, Republic of Moldova.*

7. 11:15-11:30. Cociug Adrian, Macagonova Olga, Dumbraveanu Lilia, Cusnir Valeriu, Viorel Nacu. Regarding corneal preparation in the Human Tissue Bank of the Republic of Moldova, during 11 years of activity. *Chisinau, Republic of Moldova.*

8. 11:30-11:45. Cornea Cornelia, Ceban Emil, Rotaru Larisa, Groppa Liliana, Sasu Boris, Tagadiuc Olga, Romanciuc Grigore, Timbalari Tatiana, Buga Diana, Nacu Viorel. The impact of renal transplantation in the patient with renal pathology and gout. *Chisinau, Republic of Moldova*

11:20 CONFERENCE CLOSING CEREMONY