04.12.2023

09:00 – 10:00 **Registration**

10:00 – 10:30 **Opening Ceremony** ***Prof. Marianna Murdjeva, MD, PhD, HMM***
Corr. Mem. Prof. Stefan Kostianev, MD, DMSc

CONGRATULATION FROM THE OFFICIAL GUESTS

SESSION I

„Application and development of the method of flow cytometric monitoring of minimal residual disease in children with acute lymphoblastic leukemia.“

Chairs: ***Marianna Murdjeva, Maria Spasova***

10:30 – 11:00 **Lecture 1** ***Shlomit Kfir-Erenfeld*** */ online*

• *Safety and efficacy of a locally produced novel anti-BCMA chimeric antigen receptor T-cell (CART) (HBI0101) for the treatment of relapsed and refractory multiple myeloma and amyloidosis.*

11:00 – 11:30 **Lecture 2** ***Mats Lekander*** */ online*

• *Sick for science and science for sick.*

11:30 – 11:50 **Lecture 3** ***Hassan Burnusuzov***

• *Flow cytometric follow-up of minimal residual disease in children with acute lymphoblastic leukemia - our experience.*

11:50 – 12:10 **Coffee Break**

12:10 – 12:30 **Lecture 4** ***Hassan Burnusuzov***

• *Role of flow cytometry in the detection of bone marrow metastases in selected pediatric solid tumors.*

12:30 – 12:50 **Lecture 5** ***Steliyan Petrov***

• *Immunological changes in humoral and cell immunity in CFS (chronic fatigue syndrome) and post-COVID.*

12:50 – 13:10 **Lecture 6** ***Teodora Kalfova***

• *Innovative approach for analysis of multiparameter flow cytometric data for B-Lymphocytes.*

13:10 - 13:30 **Lecture 7** ***Alexandra Baldjieva***

• *Approaches for detection of minimal residual disease in childhood B-cell precursos acute lymphoblastic leukemia by FlowJo and Infinicyt software.*

13:30 – 14:30 **Lunch**

04.12.2023

SESSION II

„Cancer genetics and precise oncology“

Chairs: ***Janet Grudeva-Popova, Vesselina Goranova-Marinova, Villy Stoyanova***

14:30 – 14:50 **Lecture 1** ***Gabriela Raycheva***

- *Application of liquid biopsy in patients with breast cancer.*

14:50 – 15:10 **Lecture 2** ***Hristo Ivanov***

- *Molecular genetic research in oncology - when, what and why.*

15:10 – 15:30 **Lecture 3** ***Nelly Miteva***

- *Pharmacogenetic markers associated with drug metabolism in patients with oncological diseases.*

15:30 – 15:50 **Lecture 4** ***Momchil Topalov***

- *Bioinformatics pipeline for variant detection in targeted sequencing panel.*

15:50 – 16:10 **Lecture 5** ***Vesselina Goranova-Marinova***

- *Molecular response monitoring in chronic myeloid leukemia patients with digital droplet PCR. Clinical and pharmacoeconomic aspects.*

16:10 – 16:30 **Coffee Break**

SESSION III

„Personalized monitoring of critically ill patients“ Chairs: ***Chavdar Stefanov, Ivailo Minev***

16:30 – 16:50 **Lecture 1** ***Emral Kyosebekirov***

- *Body composition and fluids assessment using bioimpedance analysis.*

16:50 – 17:10 **Lecture 2** ***Emil Mitkovski***

- *Ultrasound guided fluid therapy.*

17:10 – 17:30 **Lecture 3** ***Dimitar Kazakov***

- *Electrical impedance tomography in mechanically ventilated patients.*

17:30 – 17:50 **Lecture 4** ***Valentin Stoilov***

- *Lung ultrasound for patient monitoring.*

18.30 **Conference Dinner**

05.12.2023

SESSION III

„Personalized monitoring of critically ill patients“ - continuation

Chairs: ***Chavdar Stefanov, Ivailo Minev***

09:00 – 09:20 **Lecture 5** ***Vedran Jukic***

• *Medical Data Governance – foundation for advanced, distributed, real-time clinical data research.*

09:20 – 09:40 **Lecture 6** ***Lada Lijovic*** */ online*

• *From bytes to bedside: use and potential of ICU databases in Europe.*

09:40 – 10:00 **Lecture 7** ***Ivaylo Minev***

• *Personalized approach in defining the level of interest during lung electro-impedance tomography.*

10:00 – 10:15 **Lecture 8** ***Tanyo Iskrenov***

• *Innovative contactless device for automatic core temperature monitoring.*

10:15 – 10:30 **Coffee Break**

SESSION IV

„Micro and nanocarriers of drugs with a cytostatic effect“

Chair: ***Bissera Pilicheva***

10:30 – 10:50 **Lecture 1** ***Bissera Pilicheva***

• *Targeted drug delivery strategies for personalised medicine.*

10:50 – 11:10 **Lecture 2** ***Nikolay Zahariev***

• *Daunorubicin-loaded casein nanoparticles as a potential drug delivery system for the treatment of acute lymphoblastic leukemia.*

11:10 – 11:30 **Lecture 3** ***Stanislava Simeonova***

• *Iron oxide magnetic nanoparticles - optimization approaches of co-precipitation technique and improving stability with polyethylene glycol.*

11:30 – 11:50 **Lecture 4** ***Radka Boyuklieva***

• *Poly-ε-caprolactone nanoparticles for intranasal administration of idebenone as a potential treatment of neurodegenerative disorders.*

11:50 – 12:10 **Lecture 5** ***Yana Gvozdeva***

• *Microcarriers as an option for the stabilization of probiotics.*

12:10 – 12:30 **Future of the PERIMED competence center.** ***Ilia Iliev***

12:30 – 13:00 **Discussion and closing**

13:00 – 14.00 **Lunch**