

# The Program of the Workshop

Monday, 19 November 2018

9.50 – 10.00 OPENING CEREMONY

Session A.

## Chairpersons:

**Prof. Stefka Valcheva-Kuzmanova, MD, PhD, DSc**  
*Medical University, Varna*

**Assoc. Prof. Radostina Alexandrova, MSc, PhD**  
*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**Secretary: Tanya Zhivkova, MSc, PhD**  
*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

10.00 – 10.40

## AO1. A NEW TARGET FOR AN OLD NATURAL MOLECULE

Gunay Yetik-Anacak, Ege University  
*Faculty of Pharmacy, Department of Pharmacology  
Izmir, Turkey*

10.40 – 11.20

## AO2. THERAPEUTIC EPIGENOME EDITING: Use of Epi-CRISPR-induced targeted DNA methylation for cellular reprogramming in diabetes and cancer

Melita Vidakovic  
*Institute of Biological Research, Belgrade, Serbia*

11.20 – 11.40 Coffee Break

**11.40 – 11.55**

**AO3. HISTOPATHOLOGICAL EVALUATION OF THE EFFECT OF EUGENOL  
IN A MODEL OF TRINITROBENZENESULFONIC ACID-INDUCED COLITIS  
IN RATS**

S. Valcheva-Kuzmanova<sup>1</sup>, V. Marinov<sup>1</sup>, M. Zhelyazkova-Savova<sup>1</sup>, S. Gancheva<sup>1</sup>, M.  
Tzaneva<sup>2</sup>

<sup>1</sup>*Department of Pharmacology and Clinical Pharmacology and Therapeutics, Faculty of  
Medicine, Medical University Prof. Dr. Paraskev Stoyanov, Varna, Bulgaria*

<sup>2</sup>*Department of Preclinical and Clinical Sciences, Faculty of Pharmacy, Medical University  
Prof. Dr. Paraskev Stoyanov, Varna, Bulgaria*

**11.55-12.25**

**AO4. Pd(II) AND Pt(II)-LINKED METALLO-SUPRAMOLECULAR CAPSULES  
WITH APPLICATION IN BIOINORGANIC CHEMISTRY**

A. Ahmedova

*Laboratory of Biocoordination and Bioanalytical Chemistry, Faculty of Chemistry and  
Pharmacy, Sofia University “St. Kliment Ohridski”,  
Sofia, Bulgaria*

**12.25 – 12.40**

**12.40-12.55**

**AO5.**

Petya Ganova

*Institute of Microbiology  
Bulgarian Academy of Sciences*

**12.55 – 13.20**

**AO6. AMINOACIDURIA: PHENYLKETONURIA**

Chukwuemeka Obinna Ekeh

*Faculty of Biology, Sofia University “St. Kliment Ohridski”,  
Sofia, Bulgaria*

**Tuesday, 20 November 2018**

**Session B.**

**Chairpersons:**

**Assoc. Prof. Radostina Alexandrova, MSc, PhD**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**Assoc. Prof. Petya Genova, MSc, PhD**

*National Centre of Infectious and Parasitic Diseases*

**Secretary: Boyka Andonova-Lilova, MSc**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**14.00 – 14.30**

**BO1. BLOOD ANTIOXIDANT/OXIDANT PARAMETERS IN RATS  
EXPERIMENTALLY INFECTED WITH FASCIOLA HEPATICA AND EXPOSED  
TO LEAD**

V. Nanev<sup>1</sup>, I. Vladov<sup>1</sup>, N. Tsocheva-Gaytandzieva<sup>1</sup>, O Kandil<sup>2</sup>, H Shalaby<sup>2</sup>

<sup>1</sup>*Institute of Experimental Morphology, Pathology and Anthropology with Museum, BAS*

<sup>2</sup>*Veterinary Research Division, National Research Center, Giza, Egypt*

**14.30 – 14.45**

**BO2. ТЕРЕННИ ПРОУЧВАНИЯ ВЪРХУ ПРОФИЛАКТИКАТА НА  
ХЕЛМИНТОЗИТЕ ПРИ МУФЛОНА**

Василена И. Дакова, Мариана С. Панайотова-Пенчева

*Институт по експериментална морфология, патология и антропология с музей – БАН,  
София, България*

**14.45-15.15**

**BO3. CHECKING THE FIELD EFFICACY OF MENTOTIM AGAINST VARROA  
DESTRUCTOR**

D. Salkova<sup>1</sup>, K. Gurgulova<sup>2</sup>, I. Zhelyazkova<sup>3</sup>, V. Popova<sup>4</sup>, S. Takova<sup>2</sup>

<sup>1</sup>*Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian  
Academy of Sciences, Sofia, Bulgaria*

<sup>2</sup>*National Diagnostic & Research Veterinary Medical Institute „Prof. Dr. G. Pavlov“, Sofia,  
Bulgaria*

<sup>3</sup>*Department of Animal Science-Non-ruminants and other Animals, Faculty of Agriculture,  
Trakia University, Stara Zagora, Bulgaria*

<sup>4</sup>*Primavet-Sofia Ltd., Sofia, Bulgaria*

**15.15 – 15.35 Coffee break**

**15.35 – 15.50**

**BO4. Testing of Merocyanines on the Replication of Herpes Simplex Virus Type I in Cell Cultures**

Ivanka Nikolova<sup>1</sup>, Neli Vilhelmova-Ilieva<sup>1</sup>, Tsonko Kolev<sup>2</sup>, Petar Grozdanov<sup>1</sup>

<sup>1</sup> *Department of Virology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia, Bulgaria*

<sup>2</sup> *Institute of Molecular Biology “Roumen Tsanev”, Bulgarian Academy of Sciences, Sofia, Bulgaria*

**15.50-16.05**

**BO5. Two salts of violuric acid inhibitors of the replication of herpes simplex virus type I**

Neli Vilhelmova-Ilieva<sup>a</sup>, Petar Grozdanov<sup>a</sup>, Tsonko Kolev<sup>b</sup>, Ivanka Nikolova<sup>a</sup>

<sup>a</sup>) *Department of Virology, The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia, Bulgaria*

<sup>b</sup>) *Institute of Molecular Biology “Roumen Tsanev”, Bulgarian Academy of Sciences, Sofia, Bulgaria*

**16.05 – 16.20**

**BO6. Dried blood spots in hepatitis B diagnosis**

Ch. Ismailova<sup>1</sup>, St. Krumova<sup>2</sup>, T. Tenev<sup>1</sup>, E. Golkocheva-Markova<sup>1</sup>

<sup>1</sup>*NRL “Hepatitis viruses”, National Center of Infectious and Parasitic Diseases, Sofia*

<sup>2</sup>*NRL “Measles, Mumps and Rubella”, National Center of Infectious and Parasitic Diseases, Sofia*

**16.20 – 16.35**

**BO7. IN VITRO ANTITUMOR ACTIVITY OF VACCINIUM VITIS-IDAEA L., PICKED IN BULGARIA**

Rosalina Uzunova<sup>1</sup>, Ivayla Dincheva<sup>2</sup>, Ivelina Trifonova<sup>3</sup>, Silvia Voleva<sup>3</sup>, Irina Georgieva<sup>3</sup>, Stefka Ivanova<sup>4</sup>, Asya Stoyanova<sup>5</sup>, Svetla Angelova<sup>3</sup>

<sup>1</sup> *Faculty of Biology, St. Kl. Ohridski Sofia University, Sofia, Bulgaria*

<sup>2</sup> *Agro Bio Institute, Sofia, Bulgaria*

<sup>3</sup> *National Reference Laboratory of Influenza and Acute Respiratory Diseases, National Centre of Infectious and Parasitic Diseases, Sofia, Bulgaria*

<sup>4</sup> *National Reference Laboratory of Measles, Mumps, and Rubella, National Centre of Infectious and Parasitic Diseases, Sofia, Bulgaria*

<sup>5</sup> *National Reference Laboratory of Enteroviruses, National Centre of Infectious and Parasitic Diseases, Sofia, Bulgaria*

**16.35 – 16.50**

**BO8.**

Petya Genova

**16.50 – 17.20**

**BO9.**

Milena Glavcheva

**Chairpersons:**

**Assoc. Prof. Julia Radenkova-Saeva, MD, PhD**

Toxicology Clinic, UMHATEM “N.I.Pirogov”, Sofia, Bulgaria

**Assoc. Prof. Radostina Alexandrova, MSc, PhD**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**Secretary: Desislav Dinev, MSc**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**9.50 – 10.20**

**CO1. ACUTE INTOXICATION FOLLOWING  
AYAHUASCA INGESTION: CASE REPORT**

Radenkova-Saeva J.

*Toxicology Clinic, UMHATEM “N.I.Pirogov”, Sofia, Bulgaria*

**10.20 – 10.50**

**CO2. Competition between abiogenic Al<sup>3+</sup> and native Mg<sup>2+</sup>, Fe<sup>2+</sup> and Zn<sup>2+</sup> ions in protein  
binding sites: Implications for aluminium toxicity**

Todor Dudev, Diana Cheshmedzhieva and Lyudmila Doudeva

*Faculty of Chemistry and Pharmacy, Sofia University, Sofia, Bulgaria*

**10.50-11.05**

**CO3. Cyclodextrin inclusion complexes of Pt-based anticancer drugs**

Valya Nikolova<sup>1</sup>, Silvia Angelova<sup>2</sup>, Aleksandrina Krasteva<sup>1</sup>, Jaroslav Burda<sup>3</sup>, Todor Dudev<sup>1</sup>

<sup>1</sup> *Faculty of Chemistry and Pharmacy, Sofia University “St. Kl. Ohridski”, Sofia, Bulgaria*

<sup>2</sup> *Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of  
Sciences, 1113 Sofia, Bulgaria*

<sup>3</sup> *Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic*

**11.05 – 11.25 Coffee Break**

**11.25-11.40**

**CO4. EFFECTS OF SUBCHRONIC EXPOSURE TO LEAD ON RAT'S BLOOD MINERALS**

Vladov<sup>1</sup>, I., V. Nanev<sup>1</sup>, M. Gabrashanska<sup>1</sup>, A. Kovacheva<sup>2</sup>

<sup>1</sup>*Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Sciences, Sofia, Bulgaria*  
<sup>2</sup>*Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria*

**11.40-12.10**

**CO5. Inhibitory Effects of Tansy on Postproline Cleaving Enzyme Activity in Breast Cancer Cells**

A.Vasileva<sup>1</sup>, I. Ivanov<sup>1</sup>, M. Dimitrova<sup>2</sup>, V. Lozanov<sup>1</sup>, V. Mitev<sup>1</sup>

<sup>1</sup>*Department of Medical Chemistry and Biochemistry, Medical University of Sofia, 2 Zdrave str, Sofia 1431, Bulgaria*  
<sup>2</sup>*Institute of Experimental Morphology, Pathology and Anthropology with Museum, Acad. G. Bonchev Str., Bl. 25, 1113 Sofia*

**12.10-12.25**

**CO6. ANTIPROLIFERATIVE AND PROAPOPTOTIC ACTIVITY OF WATER EXTRACTS OBTAINED FROM GREEN MICROALGA COELASTRELLA Sp. BGV AGAINST HeLa TUMOR CELLS**

T. Toshkova-Yotova<sup>1</sup>, A. Georgieva<sup>2</sup>, P. Pilarski<sup>1</sup>, R.Toshkova<sup>2</sup>

<sup>1</sup>*Institute of Plant Physiology and Genetics, Bulgarian Academy of Sciences, Sofia, Bulgaria*  
<sup>2</sup>*Institute of Experimental Morphology, Pathology and Parasitology with Museum, Bulgarian Academy of Sciences, Sofia, Bulgaria*

**12.25 – 12.55**

**CO7. DIVALENT METAL IONS BINDING TO LACTOSE: A DFT COMPUTATIONAL STUDY**

S. Angelova<sup>1</sup>, V. Nikolova<sup>2</sup>, T. Dudev<sup>2</sup>

<sup>1</sup>*Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria*  
<sup>2</sup>*Faculty of Chemistry and Pharmacy, Sofia University "St. Kl. Ohridski", Sofia, Bulgaria*

**Session D.**

**Chairpersons:**

**Prof. Anna Tolekova, MD, PhD**

*Medical Faculty, Trakia University, Stara Zagora, Bulgaria*

**Assoc. Prof. Radostina Alexandrova, MSc, PhD**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**Secretary: Boyka Andonova-Lilova, MSc**

*Institute of Experimental Morphology, Pathology and Anthropology with Museum,  
Bulgarian Academy of Sciences*

**14.00-14.30**

**DO1. VITAMIN D EFFECTS ON URIC ACID IN THE EXPERIMENTAL MODEL  
OF METABOLIC DISORDERS IN FRUCTOSE FED WISTER RATS**

L. Pashova-Stoyanova<sup>1</sup>, Zh. Tsokeva<sup>1</sup>, Kr. Nancheva<sup>2</sup>, P. Hadzhibozheva<sup>1</sup>, Ts. Georgiev<sup>1</sup>

<sup>1</sup> *Department of Physiology, Pathophysiology and Pharmacology, Medical Faculty, Trakia  
University, 11 Armeiska Str., 6000 Stara Zagora, Bulgaria*

<sup>2</sup> *Department of Clinical Laboratory, Medical Faculty, , Trakia University, 11 Armeiska Str.,  
6000 Stara Zagora, Bulgaria*

*E-mail: lils@gbg.bg*

**14.30-14.45**

**DO2. HAEMOSTASIS: EVOLVED UNDERSTANDING**

N. Begum, N. Allana, A. Ahmed, S. Mohammed, N. Sanhye

*Department of Physiology, Medical Faculty, Trakia University, 11 Armeiska Str., 6000 Stara  
Zagora, Bulgaria*

**14.45 – 15.15**

**DO3. APPLANATION TONOMETRY NON-INVASIVE METHOD FOR  
CARDIOVASCULAR RISK ASSESSMENT**

Vesela Georgieva, Matthias Müller, Moritz Oestreich, Paul Adeyemo, Boryana Mineva

**15.15 – 15.35 Coffee break**



**15.35-16.05**

**DO4. TWO PATIENTS AFTER ST-ELEVATION MYOCARDIAL INFARCTION  
WITH DIFFERENT CARDIOVASCULAR RISK**

Moritz Oestreich, Vesela Georgieva, Matthias Müller, Godwin Adeniji, Lyubica Pop  
Trajkova

**16.05-16.20**

**DO5. ЕСЕНЦИАЛНИТЕ МЕТАЛИ – МОЛЕКУЛИТЕ НА ЖИВОТА**

Вилиана Йончева<sup>1\*</sup>, Тенчо Тенев<sup>1</sup>; Елица Голкочева-Маркова<sup>1</sup>, Чийдем Исмаилова<sup>1</sup>  
<sup>1</sup>НРЛ „Хепатитни вируси“, Отдел „Вирусология“, Национален Център по Заразни и  
Паразитни Болести (НЦЗПБ)

**16.20 – 16 50**

**DO6.**

Desislav Dinev

**16.50 – 17.20**

**Final Discussion and Closing Remarks**