



VII National Conference with International Participation “Morphological Days”, June 8 – 10, Sofia, Bulgaria

PROGRAM

Friday, June 8th

12.00 - 14.00 Registration

14.30 Opening

15.00 Plenary Session

Chairs: V. Ovtcharoff, N. Atanassova

15.00 Morphological and functional development of the Leydig cell lineage
K. Teerds, *Netherlands*

15.40 The pericytes are the true pluripotent adult stem cells in vertebrates
M. Davidoff, *Germany*

16.20 Problems in the brain sex differentiation
V. Ovtcharoff, *Sofia*

First Session 17.00 – 18.10

Chairs: D. Kadiysky, M. Davidoff

17.00 Immunohistochemical localization of nitrergic structures in the carotid body of normotensive and spontaneously hypertensive rats
N. Lazarov, D. Atanasova, N. Dimitrov, A. Dandov, T. Kirov, *Sofia*

17.20 Egyptian fetal growth curves can be used whether the mother is sure and unsure of her date
Osama Azmy, *Egypt*

17.40 Topographic distribution of CD146 in developing human kidney
I. Rančić, V. Petrović, G. Rančić, A. Petrović, P. Atanasova, G. Chaldakov, *Serbia*

17.50 Contribution of megakaryocytes to joint inflammation provoked in two mouse models of arthritis
P. Ganova, V. Gyurkovska, L. Belenska-Todorova, N. Ivanovska, *Sofia*

18.00 The significance of anticardiolipin antibodies in patients with vasculitis
M. Gantcheva, *Sofia*

19.00 Welcome Dinner – Restaurant “Red Coral Kitchen”



Saturday, June 9th

Second Session 9.00

Chairs: A. Tonchev, I. Stoyanova

9.00	3-D bifurcating microchannel scaffold induces separation of regenerating axon bundles in peripheral nerves: <i>in vivo</i> study I. Stoyanova, R. van Wezel, W. Rutten, <i>Varna</i>
9.20 – 10.40	1 Cre/loxP system – the new way for evaluating Pax6 role in postnatal mutants R. Spassov, J. Berger, A. Stoykova, A. Tonchev, <i>Varna</i>
	2 Time of birth of murine neocortical interneurons in absence of transcription factor Zbtb20 D. Stoyanov, S. Pavlov, A. Stoykova, M. Ivanov, A. Tonchev, <i>Varna</i>
	3 Associated use of heterocyclic compounds with chemotherapy to reduce side effects and increase antitumor activity in the experiment A. Kvachenok, S. Pashkevich, M. Dosina, A. Kletskov, V. Potkin, V. Kulchitsky, <i>Belarus</i>
	4 Quantification of CD 14 immunopositive cells in healthy and chronically diseased human palatine tonsils V. Petrovic, A. Petrovic, G. Rančić, V. Avramovic, I. Nikolic, M. Jovic, Rancic I, <i>Serbia</i>
	5 Mast cells in the intrapulmonary airways in rats of different age I. Ivanova, I. Stefanov, D. Atanasova, <i>Stara Zagora</i>
	6 Mast cells in the rat tongue N. Pirovski, N. Tomov, D. Atanasova, N. Dimitrov, <i>Stara Zagora</i>
	7 Changes in sperm DNA fragmentation in sub/infertile men after treatment with PAPA dietary supplement S. Tomov, I. Dechev, P. Atanassova, E. Georgieva, S. Stoyanova, V. Yancheva, R. Stoyanova, <i>Plovdiv</i>

10.40 – 11.10 Coffee Break

Third Session 11.10

Chairs: A. Vodenicharov, Y. Koeva

11.10 – 12.10	1 Effect of stroke on the quantity of <i>de novo</i> generated cells in the brain of mice with inactivated transcription factor Pax6 S. Morfov, D. Bukovinov, V. Mihailova, S. Pavlov, A. Tonchev, I. Stoyanova, <i>Varna</i>
	2 Effect of stroke on the expression of astrocyte marker GFAP in the brain of mice with inactivation of the transcription factor Pax6 V. Mihailova, D. Bukovinov, S. Morfov, S. Pavlov, A. Tonchev, I. Stoyanova, <i>Varna</i>
	3 A rare variation of ansacervicalis I. Velikov, I. Stoyanova, <i>Varna</i>
	4 Microglia show heterogeneous subpopulations during human forebrain development M. Zhelezov, S. Pavlov, A. Maucher, A. Tonchev, <i>Varna</i>
	5 Histological evidence for the presence of mast cells in the rat carotid body T. Kirov, D. Atanasova, N. Dimitrov, A. Dandov, N. Lazarov, <i>Sofia</i>

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6	Protein YKL-40 in cerebrospinal fluid in traumatic brain injury M. Kazakova, G. Pavlov, D. Dikov, K. Simitchiev, V. Dichev, Ch. Stefanov, V. Sarafian, <i>Plovdiv</i>
7	Biliary tract reconstruction in rats by small caliber artery grafts of decellularized human placenta M. Kakabadze, K. Tsomaia, E. Azmaipharashvili, K. Chakhunashvili, Z. Kakabadze, <i>Georgia</i>
8	Associating liver partition and portal vein ligation for staged hepatectomy: liver regeneration with- and without stem cells supplementation K. Tsomaia, <i>Georgia</i>
9	The activity of enzymes involved in energy supply of cardiomyocytes in endurance trained rats is androgen dependent S. Delchev, F. Gerginska, K. Georgieva, <i>Plovdiv</i>
10	Age-related changes in rat thymus connective tissue influenced by Aronia melanocarpa E. Daskalova, S. Delchev, L. Vladimirova-Kitova, P. Denev, S. Valcheva-Kuzmanova, S. Kitov, M. Kanarev, <i>Plovdiv</i>
11	Inflammatory markers in the testis by experimental model of high lipid diet M. Pencheva, Y. Koeva, E. Suvandjieva, I. Dimitrov, D. Ankova, P. Rashev, <i>Plovdiv</i>

12.10 – 13.00 Cocktail

Fourth Session 13.00

Chairs: G. Rancic, S. Delchev

13.00 – 14.30	1	Novel optical method for visualization of intracerebral grafts N. Tomov, L. Surchev, <i>Stara Zagora</i>
	2	Experimental acupuncture of the human ST36 acupoint N. Dimitrov, D. Atanasova, N. Tomov, S. Hamza, D. Sivrev, <i>Stara Zagora</i>
	3	Application of left circular polarized light for polymerization of Biodur P40 J. Stoyanov, A. Georgieva, <i>Stara Zagora</i>
	4	Use of high pressure for retrograde forced impregnation of lung A. Georgieva, J. Stoyanov, <i>Stara Zagora</i>
	5	Arterial vascularization of pig's auditory tube - a corrosion cast study N. Tsandev, A. Vodenicharov, I. Stefanov, <i>Stara Zagora</i>
	6	Spiral structure of the skeleton- osteoporosis deformation N. Pirovski, Y. Staykova, <i>Stara Zagora</i>
	7	Human anatomy for the artist and scenography N. Penkova, D. Vodenicharov, P. Atanassova, <i>Plovdiv</i>
	8	Study of fingerprint patterns in left-handed and right handed Bulgarian individuals N. Petrova, E. Andreenko, C. Iglesias, S. Sivkov, <i>Plovdiv</i>
	9	Secular changes of body composition and body nutritional status in children and adolescents from Smolyan region, Bulgaria (1997-2017) S. Mladenova, T.-M. Hristova, S. Uzunova, <i>Plovdiv</i>



Fifth Session 14.30

Chairs: P. Atanassova, St. Sivkov

14.30 – 15.20	1	Adult brain activation after intensive learning. An fMRI study F. Popova, P. Garov, A. Kovacheva, S. Sivkov, <i>Plovdiv</i>
	2	Superficial cervical venous patterns and their clinical impact N. Yotova, S. Novakov, I. Katerinski, <i>Plovdiv</i>
	3	Somatotypical characterization of children and adolescents and peculiarities in their morphological development according to their body composition M. Nikolova, S. Mladenova, <i>Plovdiv</i>
	4	Study of salivary levels of zinc in healthy Bulgarians I. Ivanova, Vl. Vodenicharov, B. Atanasova, <i>Sofia</i>
	5	Occupational stress among welders in Bulgaria Vl. Vodenicharov, I. Ivanova, B. Atanasova, <i>Sofia</i>
	6	The lunate bone and its role – anatomical and clinical considerations P. Panchev, K. Ibrahim, A. Iliev, G. Georgiev, B. Landzhov, <i>Sofia</i>
	7	Morphological classification of the types of acromion process S. Mersinkova, S. Milev, A. Iliev, B. Landzhov, G. Georgiev, <i>Sofia</i>
	8	Medical and anthropological aspects of computer assisted 3d reconstruction of segments of the human skeleton S. Fursova, T. Kalchev, Ts. Kolev, A. Katsarov, <i>Sofia</i>
	9	Medico-anthropological characterization of the deformations of postcranial human skeleton T. Kalchev, S. Fursova, Ts. Kolev, A. Katsarov, <i>Sofia</i>
	10	Medical and anthropological characteristics of the flat foot and its clinical significance Ts. Kolev, S. Fursova, T. Kalchev, A. Katsarov, <i>Sofia</i>

15.20 – 15.45 Coffee Break

Sixth Session 15.45

Chairs: M. Dimitrova, S. Petkova

15.45 – 17.05	1	Biological activity of a newly synthesized specific inhibitor of aminopeptidase A: a preliminary study V. Petrova, D. Tasheva, I. Iliev, M. Dimitrova, I. Ivanov, <i>Sofia</i>
	2	Effects of extracts from species of genus <i>Inula</i> on epithelial cells' morphology R. Veleva, V. Moskova-Doumanova, J. Doumanov, K. Mladenova, A. Kostadinova, A. Trendafilova, T. Topouzova-Hristova, <i>Sofia</i>
	3	The muscle phase of trichinellosis in mice is associated with increased ST6GalNAc1 sialyltransferase activity in skeletal muscle fibers R. Milcheva, K. Todorova, S. Petkova, I. Vladov, V. Dilcheva, A. Georgieva, D. Ivanov, I. Iliev, <i>Sofia</i>
	4	Comparison of results obtained in experimental invasions with different <i>Trichinella</i> species in mice V. Dilcheva, S. Petkova, I. Vladov, <i>Sofia</i>



5	Influence of agomelatine in the streptozotocin-induced model of rat in Alzheimer's disease A. Dandov, M. Atanasova, J. Tchekalarova, D. Atanasova, N. Lazarov, <i>Sofia</i>
6	Effects of new neurotensin analogues on Parkinson's disease model: morphological aspects A. Popatanasov, R. Klisurov, M. Lazarova, L. Tancheva, R. Kalfin, <i>Sofia</i>
7	Treatment with Erufosine induces cell cycle arrest and apoptosis in breast cancer cells V. Uzunova, T. Stoyanova, M. Schröder, M. Berger, A. Momchilova, I. Ugrinova, R. Tzoneva, <i>Sofia</i>
8	Agomelatine corrects anxiety-like behavior and disturbed rhythm of melatonin release in rats exposed to constant chronic light Tz. Stoyanova, N. Ivanova, R. Gesheva, M. Atanasova, J. Tchekalarova, <i>Sofia</i>

Seventh Session 17.05

Chairs: A. Bozhilova, K. Teerds

17.05 – 18.05	1	Subcellular organisation of the hypertrophied cardiomyocyte - an electron microscopic study Al. Iliev, G. Kotov, I. Dimitrova, B. Landzhov, D. Hinova-Palova, <i>Sofia</i>
	2	A comparative analysis of the changes in superficial and juxtamedullary nephrons in spontaneously hypertensive rats St. Stanchev, Al. Iliev, G. Kotov, L. Malinova, B. Landzhov, <i>Sofia</i>
	3	Newly synthesized polymer hydrogels and hydroxyapatite nanoparticles (nHAP) for biochemical application: histological and biochemical studies in rats K. Todorova, V. Nanev, I. Vladov, P. Dimitrov, E. Vassileva, D. Nikolova, K. Ruseva, E. Taneva, R. Vassileva, M. Gabrashanska, <i>Sofia</i>
	4	Morphology of mesenchymal stem cells in 3D spheroids R. Sotirov, M. Kostadinova, Sh. Pashova, S. Kestendjieva, K. Vinketova, D. Abadjieva, E. Stoyanova, Ts. Oreshkova, E. Kistanova, M. Mourdjeva, <i>Sofia</i>
	5	Mapping the fate: contemporary cell lineage tracing methods R. Veleva, B. Arabadzhiev, I. Vasileva, N. Stefanova, P. Eftimov, <i>Sofia</i>
	6	Immunohistochemical expression of KISS-1 and KISS-1R in breast cancer D. Ankova, D. Pupaki, P. Rashev, <i>Sofia</i>
	7	Characterization of seminal plasma proteins involved in regulation of sperm hyperactivation Ts. Tsvetkov, D. Daskalova, <i>Sofia</i>
	8	Effect of vipoxin and it's components on retinal epithelium cell lines Y. Petseva, K. Mladenova, P. Videv, J. Doumanov, S. Petrova, <i>Sofia</i>
	9	Study of the antimicrobial activity of extracts from <i>in vitro</i> cultivated <i>Nepeta nuda</i> plants Y. Kizheva, D. Petrova, M. Petrova, M. Rogova, M. Zhiponova, G. Chaneva, P. Hristova, P. Moncheva, <i>Sofia</i>
	10	Investigation of anti-inflammatory activity of Myrtenal on rats S. Dragomanova, R. Klisurov, D. Uzunova, L. Tancheva, R. Kalfin, <i>Sofia</i>
	11	Effect of color additives on the cognitive function of laboratory rodents and their biochemical and histological correlates in the brain R. Klisurov, J. Karaivanova, R. Kalfin, L. Tancheva, <i>Sofia</i>

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12

Germ cell marker DDX-4 transiently accumulates in Balbiani body of early mouse oocytes

V. P. Hadzhinesheva, M. D. Markova, S. M. Delimitreva, I. V. Chakarova, V. P. Nikolova, R. S. Zhivkova, *Sofia*

Sunday, June 10th

Eighth Session 9.00

Chairs: S. Petkova, R. Alexandrova

1

Cell cultures as reliable models in experimental oncopharmacology

R. Alexandrova, B. Andonova-Lilova, T. Zhivkova, L. Dyakova, D. Dinev, Z. Petrova, A. Abudalleh, M. Glavcheva, O. Alexandrov, J. Stenvang, M. Dosina, V. Kulchitsky, *Sofia*

2

Protective effects of Kyotorphin in gyrus dentatus in experimental model of Alzheimer's disease in rats

T. A. Angelov, H. Angelova, Al. Iliev, D. Pechlivanova, E. Dzhambazova, B. Landzhov, *Sofia*

3

Evidence of neuronal damage in old elderly

V. Kolyovska, *Sofia*

4

The effect of salinomycin on gangliosides production in lead-intoxicated mice. An immunological study

V. Kolyovska, Ju. Ivanova, E. Petrova, Y. Gluhcheva, E. Pavlova, *Sofia*

5

Sodium nitrite-induced hematological and hemorheological changes in rodents

I. Ivanov, E. Petrova, Y. Gluhcheva, E. Pavlova, I. Vladov, N. Antonova, *Sofia*

6

Effect of salinomycin on spermatogenesis in mice subjected to subacute cadmium intoxication

E. Pavlova, Ju. Ivanova, D. Dimova, Y. Gluhcheva, E. Petrova, K. Kamenova, N. Atanassova, *Sofia*

7

Retroperitoneal sarcoma - an accidentally discovered finding of hysterectomy for tubuloalveolar abscesses. Incorrect interpretation of IHC studies

R. Spasov, G. Ganchev, Z. Petrova, *Sofia*

8

Morphology of the call-exner bodies in the follicles of rabbits treated with Tribulus terrestris

D. Abadjieva, E. Kistanova, *Sofia*

9

The use of assisted reproductive technologies as an infertility treatment in Bulgaria – past, present and future perspectives

P. Todorov, E. Hristova, M. Hristova, *Sofia*

10.30 – 10.50 Coffee Break

Ninth Session 10.50

Chairs: M. Dimitrova, Y. Gluhcheva

10.50 –
11.50

1

Effect of Erufosine on proliferation, induction of apoptosis and migration of MDA-MB-231 breast cancer cells

T. Stoyanova, V. Uzunova, D. Popova, A. Momchilova, M. Berger, R. Toshkova, R. Tzoneva, *Sofia*

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2	Direct and indirect experiments as research strategies in cytocompatibility assessment of new materials for bone implants B. Andonova-Lilova, T. Zhivkova, L. Dyakova, A. Abudalleh, N. Saha, V. Jankauskaitė, R. Alexandrova, <i>Sofia</i>
3	Cytocompatibility assessment of new materials for wound dressings D. Dinev, A. Abudalleh, B. Andonova-Lilova, T. Zhivkova, L. Dyakova, E. Vasileva, O. Alexandrov, R. Alexandrova, <i>Sofia</i>
4	Ni(II) complexes with Mannich bases express different cytotoxicity potential T. Zhivkova, L. Dyakova, R. Tudose, O. Costisor, R. Alexandrova, <i>Sofia</i>
5	Effect of disulfiram on viability and proliferation of virus-transformed rat sarcoma cells D. Dinev, B. Andonova-Lilova, A. Abudalleh, L. Dyakova, T. Zhivkova, M. Dosina, V. Kulchitsky, R. Alexandrova, <i>Sofia</i>
6	Ru(III) complexes with Schiff bases significantly decrease viability and/or proliferation of cultured cancer cells Z. Petrova, D. Dinev, B. Andonova-Lilova, R. Spasov, A. Kouncheva, G. Marinescu, D.-C. Culita, L. Patron, O. Azmy, R. Alexandrova, <i>Sofia</i>
7	Cell cultures in the search for new agents to fight against colorectal cancer L. Dyakova, B. Andonova-Lilova, D. Dinev, T. Zhivkova, S. Tepavitcharova, G. Marinescu, Daniela-Cristina Culita, L. Patron, O. Azmy, R. Alexandrova, <i>Sofia</i>
8	Cytomorphological alterations induced by simvastatin in Graffi tumor cells A. Georgieva, R. Toshkova, V. Uzunova, R. Tzoneva, <i>Sofia</i>
9	Zn(II) complexes with different ligands as promising agents in the fight against breast cancer M. Glavcheva, D. Dinev, Z. Petrova, A. Abudalleh, T. Zhivkova, L. Dyakova, R. Spasov, B. Andonova-Lilova, M. Georgieva, G. Miloshev, G. Marinescu, D. Culita, L. Patron, O. Azmy, R. Alexandrova, <i>Sofia</i>
10	The mobility of hormone independent breast cancer cells is stimulated by HMGB1/RAGE interaction M. Petrova, A. Dushkov, I. Iliev, I. Ugrinova, <i>Sofia</i>
11	Effect of a new synthetic ferrocene-containing camphor sulphonamide on breast cancer cell model M. Schröder, I. Banev, I. Iliev, I. Ugrinova, <i>Sofia</i>
12	Effects of Agomelatine and Lacosamide on EEG seizure activity during the kainate-induced status epilepticus and chronic epilepsy in Wistar rats N. Ivanova, J. Tchekalarova, L. Kortenska, D. Atanasova, N. Lazarov, <i>Sofia</i>

Tenth Session 11.50

Chairs: N. Atanassova, N. Davceva

11.50 – 13.00	1	Traumatic axonal injury, a clinical-pathological correlation N. Davceva, A. Sivevski, A. Stankov, Z. Cakar, G. Pavlovski, N. Bituljanu, <i>Macedonia</i>
	2	Age and gender associated differences in the thermodynamic behavior of blood plasma proteome of in vivo experimental models A. Danailova, S. Krumova, R. Balanski, G. Ganchev, L. Gartcheva, S. G. Taneva, S. Todinova, <i>Sofia</i>



3	Results from the investigations of necropolis from the Ottoman period revealed during the excavations of archaeological site "Trayanovi vrata", located in the Kapiyata locality, Kostenets municipality N. Atanassova, V. Todorov, <i>Sofia</i>
4	Periodontal paleopathology - anthropological and microbiological evidences G. Tomov, N. Atanassova, <i>Plovdiv</i>
5	Anthropological research of skeletal material from medieval necropolis Vratsa K. Vasilev, M. Christova-Penkova, <i>Sofia</i>
6	Scoliotic changes in an individual from grave №3 found in the Manastirski Dol area near Vratsa K. Vasilev, <i>Sofia</i>
7	Dental pathology incidence in middle aged population from Topola. Preliminary results V. Russeva, <i>Sofia</i>
13.00 Closing	

Organizing Committee	
<u>Chairperson</u>	
Nina Atanassova	
<u>Members</u>	
Svetlozara Petkova	Ekaterina Pavlova
Dimitar Kadiysky	Tanya Zhivkova
Mashenka Dimitrova	Nina Petkova
Atanas Katsarov	Nadezhda Atanassova
Emilia Petrova	Maria Christova-Penkova
Yordanka Gluhcheva	Diana Mitova
Ivelin Vladov	Vladislav Todorov
Radostina Alexandrova	Kaloyan Vasilev