



Institute of Neurobiology
Bulgarian Academy of Sciences



Medical University
„Prof. D-r Paraskev Stojanov“ Varna



VI NATIONAL CONGRESS OF PHARMACOLOGY

Pharmacology - from the experiment to the clinic



1 - 4 October 2009 • Journalist Hotel, Golden Sands

Under the auspices of

Nikola Sabotinov

Chairman of Bulgarian Academy of Sciences

Kiril Jordanov

Mayor of Varna

140 years Bulgarian Academy of Sciences

Newly established Faculty of Pharmacy, Varna

FINAL PROGRAMME

01.10.2009

10:00 **REGISTRATION**

15:00-15:30 **OPENING CEREMONY**

Welcome speeches

Nikola Sabotinov – President of the Bulgarian Academy of Sciences

Kiril Jordanov – Lord Mayor of Varna

Anelia Klisarova – Rector of Medical University, Varna

Radomir Radomirov – Director of the Institute of Neurobiology, Bulgarian Academy of Sciences

15:45-16:30 **DESIGN OF BIOLOGICALLY ACTIVE SUBSTANCES**

Moderators: EVGENI GOLOVINSKI, NIKOLAY DANCHEV

E. Golovinski: Pharmacobiochemistry and drug design

N. Danchev, I. Nikolova: Drug design, development and delivery of bioactive compounds

16:45-18:00 **Meeting of N. Sabotinov**, President of the Bulgarian Academy of Sciences, with young scientists

18:00-19:15 **Meeting of N. Sabotinov**, President of the Bulgarian Academy of Sciences, with the rectors of the Medical Universities

Host: A. Klisarova, Rector of the Medical University, Varna

17:00-18:00 **Meeting of the members of the Bulgarian Pharmacological Society**

19:30 **WELCOME COCKTAIL**

02.10.2009 MORNING SESSION

09:00-10:00 *ONCOPHARMACOLOGY*

Moderators: IVAN CHERNOZEMSKI, GRIGOR GORCHEV

I. Chernozemski, G. Gorchev: Oncopharmacology

G. Gorchev: Tendencies in the development of the contemporary oncopharmacology – challenges and perspectives

Konstantinov S.M., Berger M.R. Oncopharmacological experimental studies – 15 years Bulgarian-German cooperation

10:00-11:15 *PHARMACOTHERAPY OF NEURODEGENERATIVE DISEASES*

Moderators: IVAN MILANOV, NADEJDA DELEVA

I. Milanov: Pharmacotherapy of neurodegenerative diseases

N. Deleva: Neurogenesis: A new therapeutic approach to neurodegenerative disorders

L. Traykov: Modern strategies in treatment of neurodegenerative diseases

R. Radomirov: Reflex pathways controlling recto-anal evacuatory motility

11:15-11:45 **Coffee Break**

11:45-13:15 *DRUG TOXICOLOGY*

Moderators: MITKA MITCHEVA, STANISLAV YANEV

S. Yanev: Adverse drug reactions and personalized medicine

M. Mitcheva: Adverse drug reactions: experimental studies on metabolic-mediated toxicity

D. Kolev, A. Boyanova, A. Hubenova: Morbus *Lyell* – the most severe and difficult for treatment adverse drug reaction

M. Popova, K. Kaneva: Pharmacovigilance in the post-marketing period

09:30-12:30 *POSTER SESSION I*

DESIGN OF BIOLOGICALLY ACTIVE SUBSTANCES

1. **Bocheva A., Dzambazova E., Landzhov B., Bozhilova-Pastirova A., Ovtscharoff W.** How MIF-1 and Tyr-MIF-1 affect endogenous nitric oxide after three acute models of stress?
2. **Bozhilova-Pastirova A., Landzhov B., Dzambazova E., Bocheva A., Ovtscharoff W.** Involvement of nitric oxide-ergic system in the effects of Tyr-Cit-MIF-1 and Tyr-Cav-MIF-1 after stress
3. **Decheva L.** Analogues of Vit. D – regulatory activities on mineral metabolism during replacement of renal function as an *in vivo* experimental model
4. **Dzambazova E., Hadjiolova R., Bocheva A.** Involvement of α_2 -adrenergic agents in the effects of Tyr-Cit-MIF-1 and Tyr-Cav-MIF-1 after three models of stress

5. **Encheva E., Novoselski M., Tancheva L., Petkov V.V., Stancheva S., Alova L., Tsekova D.** Effect of new L-valine derivatives on brain function in experimental model of aggression in mice
6. **Encheva E., Tancheva L., Novoselski M., Petkov V., Chekalarova J., Gorneva G., Tsekova D., Gurt I., Katz E.** New L-valine peptidomimetics – *in vitro* and *in vivo* studies
7. **Girchev R.A., Markova P.P., Naydenova E.D., Vezenkov L.T.** Changes in interpulse interval variability after application of nociceptin analogue [Dap⁹]N/OFQ(1-13)NH₂ in conscious rats
8. **Mateeva P., Zamfirova R., Todorov P., Pavlov N., Naydenova E., Todorov S.** Biological activity of novel hexapeptide derivatives synthesized with C α , α -disubstituted cyclic amino phosphonates
9. **Nashar M., Kasakov L., Vezenkov L., Naydenova E., Vlaskovska M.** Structure-activity studies of novel nociceptin receptor ligand analogues
10. **Pajpanova T., Bocheva A., Dzambazova E., Golovinsky E.** Synthesis and biological effects of Tyr-MIF-1 analogues
11. **Pandova B., Todorova V., Yanev S., Kandinska M., Baramov T., Burdzhiev N., Stanoeva E.** *In vitro* screening of new inhibitors of angiotensin-converting enzyme
12. **Popova T., Alexandrova R., Tudose R., Mosoarca E.M., Costisor O., Marinescu G., Culita D.C., Patron L.** Searching for metal complexes with promising antimicrobial properties
13. **Tzankova V., Jordanov I., Nedialkov P., Kitanov G., Danchev N.** Inhibition of 5-HT uptake by constituents of *Hypericum Annulatum* ssp. *Moris* *in vitro*
14. **Tzvetanova E., Kirkova M., Zamfirova R., Leskiewicz M., Kubera M., Lason Wl., Todorov S.** Studies of cytotoxicity and antioxidant capacity of N/OFQ(1-13)NH₂ and its structural analogues
15. **Zamfirova R., Mateeva P., Burdzhiev N., Baramov T., Stanoeva E.** Biological activity of newly synthesized aminopiperidinones with aminoacid and/or phosphonate radicals

DRUG TOXICOLOGY

16. **Dancheva V.Y., G. Stavreva G.T., Stoyanova A.M., Terziev L.G., Shopova V.L.** Effect of Mn(III)tetrakis(4-benzoic acid)porphyrin (MnTBAP) on markers for cytotoxicity in rat bronchoalveolar lavage fluid after paraquat treatment
17. **Dancheva V.Y., Stavreva G.T., Stoyanova A.M., Terziev L.G., Shopova V.L., Popovska S.L., Betova T.M.** Effect of Mn(III)tetrakis(4-benzoic acid)porphyrin (MnTBAP) on paraquat-induced pulmonary fibrosis in rats
18. **Kolev D., Gesheva M.** ACE-inhibitors induced angioedema
19. **Kondeva-Burdina M., Anichina K., Mavrova A., Mitcheva M.** Effect of 2-substituted-[1,3]thiazolo [3,2-a]-benzimidazole-3(2H)-ones with antihelmintic activity on isolated rat hepatocytes

20. **Mateva R., Boteva B, Gugova R, Gorneva G.** The influence of antioxidants on cytotoxic and apoptogenic action of myosmin
21. **Nedyalkova N., Todorov I., Simeonova L.** Dextran sulphate sodium (DSS)-induced inflammation in rat colo-rectal gut region
22. **Radenkova-Saeva J.** Life-threatening overdoses among drug addicts and some changes of immune reactivity
23. **Stavreva G.Ts., Dancheva V.Y., Stoyanova A.M., Terziev L.G., Dimitrova A.A., Alexandrova M.L., Shopova V.L.** Protective effects of 21-aminosteroid U-74389G against amiodarone-induced pneumotoxicity in rats
24. **Tzankova V., Mitcheva M.** Potentially toxic drug interactions with herbal and dietary supplements
25. **Vitcheva V., Simeonova R., Mitcheva M.** Influence of induction on amphetamine metabolism and toxicity in rats
26. **Yanev S., Kirkova M., Komsalov V., Alexandrova A., Tsvetkova E., Uzunova D.** New biomarkers for diagnosis and prognosis of poisoning with sarin and soman

VARIA

27. **Boyadjieva N.** Defficiency of glutathione in enriched hypothalamic neurons appears to be connected with ethanol-induced apoptosis
28. **Boyadjieva N., Traykova M.** Effect of alcohol on hypothalamic glutathione and free radicals of rats
29. **Delev D., Kostadinov I., Kostadinova I., Tuleva St., Ubenova D.** Changes in haematologic indexes of adult male rats under acute and chronic testosterone treatment
30. **Dimitrova A.A., Atanasova M.A., Georgieva M.N., Russeva A.L., Strashimirov D.S.** Anti-age antibodies and markers of oxidative stress in spontaneously hypertensive rats at different ages
31. **Dimitrova D., Getova D.** Comparative study of the effects of cholinesterase inhibitors on scopolamine-induced impaired memory in rats
32. **Dimitrova, D.J., Savov, S.D., Tzoneva, D.M., Dimitrov, D.S.** Pharmacokinetics of enrofloxacin in a blood serum and aqueous humour of rabbits
33. **Dimitrova, D.J., Dimitrov, D.S., Savov, S.D.** Pharmacokinetics of tobramycin in pigs

13:15-14:15 *LUNCH BREAK*

02.10.2009 AFTERNOON SESSION

14:30-16:00 *IMMUNOPHARMACOLOGY AND IMMUNOPROPHYLAXIS*

Moderators: BOGDAN PETRUNOV, EMILYANA KONOVA

B. Petrunov: The place of polybacterial immunostimulants in medical practice

E. Konova: Intravenous immunoglobulin therapy in reproductive failure

H. Taskov, D. Stankulova: Innate immunity and immunoregulatory mechanisms of polybacterial immunomodulators

R. Kostadinova-Yankova, P. Nenkov: Immunoprophylaxis and immunotherapy with “Urostim” in patients with chronic urinary tract infections

16:00-16:30 **Coffee Break**

16:30-17:30 *PRESENTATION (PFIZER)*

I. Milanov. Treatment of neuropathic pain.

17:30-18:30 *PHARMACOTHERAPY OF INFECTIOUS DISEASES*

Moderators: RADKA ARGIROVA, MAIDA TIHOLOVA

A. Hinkov, L. Yosifova, E. Todorova, S. Raleva, A. Pavlov, S. Chervenkov, D.

Dundarova, R. Argirova: Newly synthesized 2-styryl-8-hydroxyquinolines (SQs) and their derivatives: inhibition of Human Immunodeficiency Virus-1 (HIV-1) replication in cell culture

M. Tiholova: Management of acute gastroenteritis in children

P. Minchev: Modern Diagnosis and Treatment of Tuberculosis (TB)

15:00-18:00 *POSTER SESSION II*

ONCOPHARMACOLOGY

1. **Alexandrova R., Kalfin R., Martinova Y., Kirilova M., Miloshev G., Marinescu G., Culita D.C., Patron L.** Coordination compounds of Cu(II), Co(II), Ni(II), Zn(II) and La(III) containing bile acids anions as ligands and their influence on tumour cell viability and proliferation
2. **Alexandrova R., Kalfin R., Ivanova I., Gencheva Ts., Culita D.C., Marinescu G., Patron L., Tudose R., Mosoarca E.M., Costisor O.** Virus-transformed tumour cells as experimental models for the screening of new agents with antineoplastic properties
3. **Boyadjieva N., Gateva P., Handjieva-Darlenska T.** Prostate cancerogenesis and adipocyte-derived cytokines
4. **Dineva I.K., Pironkova I.H., Krasteva I.N., Nikolov S.D., Konstantinov S.M., Berger M.R.** Comparative antineoplastic activity of decitabine, erufosine and sponine mixture in breast carcinoma cells in regard to osteopontin expression
5. **Gateva P., Bojadjeva N., Katrafilova M., Avramova T., Tzontcheva A., Nikolovsky M.** Model of prostate cancerogenesis in N-methyl-N-nitrosourea (NMU)-testosterone-treated rats with and without fructose-feeding

6. **Georgiev K., Konstantinov S., Berger M.** Modulation of the PI3K/AKT signal transduction pathway by erufosine in myeloma cells
7. **Georgieva M.** Antitumour effect of probiotics
8. **Ilieva Y.T., Zaharieva M.M., Konstantinov S.M., Berger M.R.** Synergistic drug interactions of erufosine with AS₂O₃ or decitabine in chronic myeloid leukaemia cells
9. **Krasteva G., Lakova E., Marev R.** Local rennin-angiotensin systems – a new target for anticancer therapy
10. **Lalia-Kantouri M., Alexandrova R., Hatzidimitriou A., Papadopoulos Ch., Leventieva-Necheva E., Kalfin R.** Investigations on cytotoxic and antiproliferative activities of Co(II) complexes with substituted salicylaldehydes (X-saloH) and the nitrogenous bases enR
11. **Momekov G.T., Konstantinov S.M., Zaharieva M.M., Berger M.R., Karaivanova M.H.** Oncopharmacological signal transduction modulation by organometallic compounds, alkylphosphocholines and L-aminoacid mimetics
12. **Spasov B., Yosifov D., Genova M., Balatzenko G., Konstantinov S.** Prognostic impact of Wilms' tumour protein and surviving expression in de novo adult acute myeloid leukaemia patients
13. **Yosifov D.Y., Alaikov T., Shivarov V., Stoyanov N., Kolev A.G., Bachvarova K.P., Guenova M.L., Konstantinov S.M.** Erufosine, a novel alkylphosphocholine, in chronic lymphocytic leukaemia: *in vitro* comparison with bendamustine and fludarabine
14. **Yosifov D.Y., Todorov P.T., Konstantinov S.M., Berger M.R.** The alkylphosphocholine erufosine is a potential antimyeloma drug

PHARMACOTHERAPY OF CARDIOVASCULAR DISEASES

15. **Antonov P., Antonova M., Vlaskovska M., Kasakov L.** The effect of vasodilative drugs on *in vitro* viscoelastic characteristics of aging rat aorta
16. **Antonov P., Antonova M., JeleV L., Simeonova K., Vlaskovska M., Kasakov L.** *In vitro* studies of the viscoelasticity of thoracic aorta in lipofundin treated rats
17. **Antonov P., Antonova M., JeleV L., Simeonova K., Vlaskovska M., Kasakov L.** The effect of vasodilative drugs on the *in vitro* viscoelasticity of lipofundin induced atherosclerosis-like alterations in rat aorta
18. **Kadinov B., Bogoeva V., Gagov H., Penkova M., Dimitrova D.** *In vitro effect of* Viscum album agglutinin I on isometric contraction of human mesenteric arteries
19. **Kadinov B., Penkova M.** Effect of carbon monoxide on contractile activity of *a. ophthalmica* – *in vitro* model
20. **Kalfin R., Sasaki H., Zhan L., Alexandrova R., Maulik N.** Myocardial preconditioning enhances levels of interleukin-8 and stimulates angiogenesis in rat heart
21. **Markova P.P., Girchev R.A., Vezekov L.T., Naydenova E.D.** Blood-pressure variability after application of nociceptin analogue [Dap⁹]N/OFQ(1-13)NH₂ in conscious rats

22. **Negreva M., Pancheva N., Penev A.** Beta-adrenoreceptor blockade with a highly selective β_1 -blocker accelerates conversion of recent-onset atrial fibrillation
23. **Vitlianova K., Donova T., Stancheva M.** Treatment with vitamin E of patients with chronic heart failure: is there contribution to the conventional therapy?

PHARMACOTHERAPY OF ENDOCRINE DISEASES

24. **Boyadjieva N., Djenkova D.** Opioids and diabetes mellitus: role of beta-endorphin and effects of tramadol

VARIA

25. **Dobрева D.A., Galunska B., Stancheva M.** Two approaches for HPLC quantitation of alpha-tocopherol in serum sample
26. **Philipova D., Tzenova B., Iwanowich A., Bognar Steiberg I.** Influence of antivertiginous fixed combination of cinnarizine and dimenhydrinate on sensory-motor and information processing in healthy persons
27. **Gancheva S., Zhelyazkova-Savova M., Sirakova V.** Prevalence of potential clinically significant drug-drug interactions involving statins in the pre-hospital and hospital prescribing
28. **Genkova-Papazova, M., Petkova, B., Lazarova-Bakarova, M.** Influence of phytoadaptogens on diazepam withdrawal in rats
29. **Georgieva M., Paskalev D., Dimitrov D.** Professor Dr. Vladimir Alexieff (1879-1948): a classic of Bulgarian internal medicine and pharmacology
30. **Georgieva M., Popov G., Plochev K., Alexandrov N.** Experimental clinical study of the effect of the probiotic biomilk in cases of liver injuries
31. **Hodzhev Y., Yordanova J., Diruf M., Kratz O., Kolev V., Heinrich H.** Methylphenidate modulates sensorimotor integration in healthy adults as reflected by neuroelectric oscillation in a go/nogo task
32. **Itzev, D.E., Lazarov, N.E., Negrev, N.N., Radomirov, R.G.** Changes in the substance P-immunoreactivity of the rat recto-anal region in aging

03.10.2009 MORNING SESSION

09:00-11:00 *PHARMACOTHERAPY OF ENDOCRINE DISEASES*

Moderators: SABINA ZACHARIEVA, MARIA ORBETZOVA

A. Elenkova, S. Zacharieva: Prolactinoma: current pharmacological treatment and future perspectives

M. Orbetzova: Medical therapy in acromegaly

V. Vasilev, S. Zacharieva: Pharmacological management of pheochromocytoma

M. Yaneva, S. Zacharieva: Medical treatment of *Cushing's* syndrome

N. Negrev, R. Radev, R. Tashev, M. Ivanova: Effects of the hormones of hypothalamic-pituitary-thyroid axis on tissue factor and tissue-factor pathway inhibitor plasma-levels in rats

11:00-11:30 **Coffee Break**

11:30-12:30 *PRESENTATION (SOPHARMA): PHARMACOLOGICAL PAIN MANAGEMENT WITH SOPHARMA PRODUCTS*

D. Pehlivanov: Analgesic products of Sopharma - past and present

V. Vlahov: Metamizole 2009 – new data about the mechanism of analgesic action

09:30-12:30 *POSTER SESSION III*

PHARMACOTHERAPY OF INFLAMMATION AND PAIN

1. **Bogdanova D., Milanov I.** Therapeutic efficacy and safety of COX-2 inhibitory drug celecoxib in low back pain
2. **Deleva, N., Kaprelyan, A., Tzoukeva, A., Arabadjieva, D.** Use of pregabalin in patients with painful diabetic neuropathy: mechanisms of action, efficacy and safety
3. **Dokova J., Semerdjieva N.** Treatment of neuropathic pain in patients with diabetic polyneuropathy
4. **Doncheva N, Getova D.** Study on the effects of ketamine on analgesic tests and on learning and memory in rats
5. **Jurov P., Shotecov P.** A case of post-operational pain cured by the acupuncture
6. **Kostadinov I, Delev D, Kostadinova I.** Dose-dependent analgesic effect of chronic orally treated rats with tricyclic antidepressant amitriptyline
7. **Surchev N., Vassileva P.** Pain relief after cyclocryodestruction for glaucoma
8. **Surcheva S., Surchev L., Milev M., Kasakov L., Vlaskovska M.** Streptozotocin-induced diabetes neuropathy: glutamatergic transmission and pharmacological modulation
9. **Surcheva S., Surchev L., Nashar M., Vlaskovska M., Kasakov L.** Neuropathic and inflammatory pain: the role of gender and sex hormones
10. **Surcheva S., Milev M., Nashar M., Kasakov L., Vlaskovska M.** Mechanisms directed pharmacological modulation of neuropathic pain in female rats

11. **Surcheva S., Kasakov L., Vlaskovska M.** Metamizole effectively alleviates pain in two animal models of neuropathic pain
12. **Yanev N., Surcheva S., Kasakov L., Vlaskovska M.** Experimental models of neuropathic pain: Mechanisms directed pharmacological modulation in male rats

PHYTOTHERAPY AND HOMEOPATHY

13. **Genkova-Papazova, M.G.** Phytotherapeutical approach in a case of vigilant coma after repeated brain surgery because of malignant astrocytoma
14. **Mihaylova M.P., Stavreva G.Ts., Pendicheva D.I., Pandurska A.M., Dimitrova A.A.** Approaches to homeopathic treatment of attention-deficit hyperactivity disorder (ADHD). Clinical cases
15. **Milev E.** Course in phytotherapy for pharmacy students in the medical college - Varna
16. **Milev E.** Phytotherapy in the treatment of neoplastic diseases
17. **Peychev L., Nedialkov P., Radev R., Radev St., Angelova St.** Changes in rats' learning and memory after a long treatment with extract of *Haberlea Rhodopensis*
18. **Peychev L., Boyadjieva N., Zhelyazkova-Savova M., Valcheva-Kuzmanova S., Radev R., Pandurska A., Pendicheva D., Stavreva G., Milev E., Georgieva M., Georgiev K., Gancheva S., Eftimov M.** Socio-empirical investigation of the idea the Bulgarian medical students have of homeopathy
19. **Popov, B., Radev, R., Georgieva, S., Radev, St.** Comparative study of the frequency of chromosome aberrations in gamma irradiated cultures of rabbit's lymphocytes after treating with extract of *Haberlea Rhodopensis* and Vitamin C
20. **Radev R., Lazarova G., Nedialkov P., Sokolova K., Rukanova D., Tsokeva Zh.** Investigation on antibacterial activity of total extract of medical plant *Haberlea Rhodopensis*
21. **Radev, R., Sokolova, K., Tsokeva, Zh., Pyrovski, L.** Antioxidant activity of total extract of medical plant *Haberlea Rhodopensis*
22. **Valcheva-Kuzmanova S., Zhelyazkova-Savova M.** Effects of *Aronia Melanocarpa* fruit juice in behavioural tests in rats
23. **Valcheva-Kuzmanova S., Kuzmanov K., Tancheva S., Belcheva A.** Hypolipidemic effect of *Aronia Melanocarpa* fruit juice in streptozotocin-induced diabetic rats
24. **Valcheva-Kuzmanova S., Kuzmanov K.** Inhibition of small intestinal transit rate by *Aronia Melanocarpa* fruit juice in rats

VARIA

25. **Ivanova M., Ternianov A., Tashev R., Belcheva S., Belcheva I.** Differential learning and memory effects of vasoactive intestinal peptide microinjected into the CA1 hippocampal area
26. **Kirov R., Dushkov V., Marshall L.** Brain plasticity and memory processes during wake: neurobiological considerations
27. **Markova Tz., Alexieva B., Nikolova E., Boyadjieva N.** Rolipram and theophylline inhibit phosphorylation and activation of ERK1/2 MAP kinase signalling pathway

28. **Mihaylova A., Getova D.** Effects of gabapentin, lamotrigine and topiramate on pentylenetetrazol-induced seizures in mice
29. **Nikolova I., Danchev N., Astroug A.** Effects of galantamine and pymadin in experimental model of learning and memory
30. **Pechlivanova D.M., Tchekalarova J.D., Petkov V.V., Tancheva L.P., Nikolov R.P., Yakimova K.S.** dose-dependent effects of caffeine in a chronic mild stress model of depression in ICR mice
31. **Peychev L., Velizarova R.** Neuroprotective effects of lamotrigine against sodium nitrate induced hypoxemia in rats
32. **Radev, R., Tsokeva, Zh., Sokolova, K.** A study of the spasmolytic activity of cuprum metallicum, magnesia phosphorica and colocynthis in isolated organs of experimental animals

12:45-14:15 **LUNCH BREAK**

03.10.2009 AFTERNOON SESSION

14:30-15:15 *PHARMACOTHERAPY OF INFLAMMATION AND PAIN*

Moderators: MILA VLASKOVSKA, DAMYAN DAMYANOV

M. Vlaskovska, S. Surcheva, L. Kasakov: Cancer pain: mechanisms based personalized analgesia

D. Damyanov, M. Kermedchiev: Pharmacotherapy of surgery pain

15:15-16:00 *PHARMACOTHERAPY OF SKIN DISEASES*

Moderators: NIKOLAY TSANKOV, DIMITAR GOSPODINOV

N. Tsankov: Rifampicin in the treatment of psoriasis

D. Gospodinov, D. Grozeva: Topical treatment with calcineurin inhibitors in dermatology practice

16:00-16:30 **Coffee Break**

16:30-17:30 *PHYTOTHERAPY AND HOMEOPATHY*

Moderators: LYUDMIL PEYCHEV, RADOSLAV RADEV

L. Peychev: Homeopathic treatment of atopic dermatitis in the childhood – retrospective study

R. Radev: Phytotherapy – past and present

Filtchev S.I. Homeopathic non-specific hyposensitization therapy of allergic rhinitis in children

17:30-18:00 *SPECIAL LECTURE*

N. Tsankov: The drug “Bellabulgara” developed by Pancho Nakashev and its registration in the USA (1939-1943)

15:00-18:00 *POSTER SESSION IV*

PHARMACOTHERAPY OF NEURODEGENERATIVE DISEASES

1. **Belcheva S., Ivanova M., Tashev R., Toromanov T., Negrev N., Belcheva I.** Olfactory bulbectomy impairs active and passive avoidance learning in rats
2. **Chervenkov T., Shishkov R., Karadzhova D., Balev Sv.** Dynamics of the activity of the IL-3 signalling pathway during antipsychotic treatment of patients suffering from schizophrenia
3. **Deleva N.** Neurogenesis in the new therapeutic strategies in neurodegenerative disorders
4. **Hrusafov D., Shishkov R., Geneva S., Karadzhova D.** Serum levels of cortisol and prolactin and antipsychotic treatment
5. **Ivanov, B., Deleva, N., Dimitrov, I.** Amantadine infusions for hypokinetic “off” state in Parkinson’s disease

6. **Ivanov, B., Deleva, N., Dimitrov, I., Chankov, P.** Tolterodine for urovesical autonomic dysfunction in Parkinson's disease
7. **Ivanova S., Bogdanova D., Milanov I.** Clinical study on amantadine sulfate for the treatment of fatigue in patients with secondary – progressive multiple sclerosis, implies a degenerative process
8. **Kaprelyan, A., Deleva, N., Geneva, Sv., Dimitrov, I.** Use of Keppra® in structural brain lesions associated with refractory seizures: mechanisms of drug action and efficacy
9. **Karadzhova D., Shishkov R., Hristozov K., Goergieva J., Sprostranova L.** Antipsychotic treatment and metabolic syndrome in patients with schizophrenia
10. **Kermedchiev M., Kadinov B.** Large intestinal motility and reflexes near colorectal carcinoma - *in vitro* human study
11. **Kirov R., Rothenberger A.** Sleep signatures of child psychiatric disorders: impact of neurotransmitter models and treatment choice
12. **Pendicheva D.I., Duhlenki I.B., Kaneva R.P., Pandurska A.M., Marev R.G.** A pilot study on CYP2D6*4 genetic polymorphism in outpatients with depression and antidepressant treatment
13. **Tashev R., Ivanova M., Negrev N., Belcheva S., Belcheva I.** Modulation of learning and memory after VIP administration into CA1 hippocampal area of olfactory bulbectomized rats
14. **Tchekalarova J.D., Pechlivanova D.M., Markova P.P., Stoynev A.G.** Behavioural alterations in Wistar and spontaneously hypertensive rats in kainate model of epilepsy

IMMUNOPHARMACOLOGY AND IMMUNOPROPHYLAXIS

15. **Kostadinova-Yankova R., Nenkov P.** Immunoprophylaxis and immunotherapy with “Urostim” in patients with chronic urinary tract infections

PHARMACOTHERAPY OF INFECTIOUS DISEASES

16. **Gospodinova M., Mileva S., Nenova M.** Treatment of elderly and senile patients with acute infectious diseases
17. **Hinkov, A., Atanassov V., Dochev, S., Raleva, S., Genova-Kalou, P., Gavazova, R., Manolov, I., Pavlov, A., Dundarova, D., Argirova, R.** New derivatives of “old” substances: 4-hydroxycoumarins (4-HC) and 8-hydroxy-2-styrylquinolines (8-SQ) with anti-HIV activity in cell culture
18. **Tiholova M., Tchipeva R.** Treatment of acute watery diarrhoea with racecadotril in children

PHARMACOTHERAPY OF SKIN DISEASES

19. **Kazandjieva J.** Antihistamines in the treatment of urticaria
20. **Mateev, G., Mateeva V.** Success in oral treatment of onychomycoses – crucial factors

PHARMACOTHERAPY IN OPHTHALMOLOGY

21. **Kirilova Y., Vassileva P.** Global impact of uveitis: new trends in diagnosis and treatment

22. **Sredkova M., Vassileva P.** Medical treatment of primary open-angle glaucoma
23. **Tzoukeva, Al., Milanov, I., Deleva, N., Kaprelyan, A., Dimitrov, I.** Pharmacotherapy of isolated demyelinating optic neuritis

EDUCATION IN PHARMACOLOGY AND PHARMACOTHERAPY

24. **Boyadjieva N., Handjieva-Darlenska T., Traykova M., Djenkova D., Mitev V.** Medical education and virtual patient: new module for teaching pharmacology

VARIA

25. **Ruseva B.K., Alexandrova M.L., Laleva P.A., Dimitrova A.A., Nikolov V.Ts.** Effect of selenium supplementation on lipid peroxidation in spontaneously hypertensive rats
26. **Simeonova R., Vitcheva V., Mitcheva M.** Effect of cytosine on some brain and hepatic parameters in spontaneously hypertensive rats (SHR)
27. **Stancheva S., Alova L., Stefanova M.** Effect of peptide and nonpeptide antagonists of angiotensin II receptors on noradrenaline release in hypothalamus of rats with angiotensin II-induced increase in water intake
28. **Temnyalov. N.D.** Endogenous β -adrenergic receptor antagonists – a component of the autacoid system
29. **Traykova M., Astasidi L., Boyadjieva N.** Effect of trolox on body weight, appetite and nutritional status of rats exposed to ethanol and diurnal rhythm disturbance
30. **Traykova M., Boyadjieva N.** Effect of trolox on the antioxidant enzymes in rat hypothalamus in a model of prolonged ethanol intake
31. **Traykova M., Boyadjieva N.** Antioxidant effects of trolox and galantamine in rat model of diurnal rhythm disturbance
32. **Zaekova N.G., Petkova-Kirova S.P., Rakovska D.A.** Antagonistic effect of SR 48692 on neurotensin-induced contractions in smooth muscles of guinea-pig ileum
33. **Zhelyazkova-Savova M., Gancheva S., Eftimov M.** Effect of isoteoline in a rat model of orofacial dyskinesia

20:00

OFFICIAL DINNER

04.10.2009

09:00-10:15 **PHARMACOTHERAPY IN OPHTHALMOLOGY**

Moderators: PETYA VASSILEVA, HRISTINA GRUPCHEVA

T. Hergeldzhieva, P. Vassileva: Successful pharmacological treatment for ocular neovascularization (age-related macular degeneration and corneal neovessels)

N. Sivkova, D. Koleva-Georgieva: Bevacizumab for the treatment of macular oedema in patients with diabetic retinopathy and retinal vascular occlusive disorders

H. Grupcheva: Tear film stability test - a new approach for evaluating tear film substitutes

10:15-11:30 **EDUCATION IN PHARMACOLOGY AND PHARMACOTHERAPY AT MEDICAL UNIVERSITIES**

Moderators: VITAN VLAHOV, ANNA BELCHEVA

V. Vlahov, E. Gachev: Teaching in clinical pharmacology and therapy: state, problems, perspectives

A. Belcheva: Basic aspects of harmonization of teaching pharmacology

N. Boyadjieva: Teaching pharmacology at the Medical Faculty of Medical University in Sofia

11:30 - CLOSING CEREMONY

THE CONGRESS PROCEEDINGS WILL BE PUBLISHED IN THE JOURNAL “*AUTONOMIC & AUTACOID PHARMACOLOGY*” AND WILL BE AVAILABLE ONLINE AT THE ADDRESS [HTTP://WWW3.INTERSCIENCE.WILEY.COM/JOURNAL/120118329/GROUPHOME](http://www3.interscience.wiley.com/journal/120118329/grouphome).

PRESENTLY, THEY ARE AVAILABLE AT THE SITE OF THE INSTITUTE OF NEUROBIOLOGY [HTTP://WWW.BIO.BAS.BG/NEUROBIOLOGY/DOCUMENTS/PHARMACOLOGIA 2009](http://www.bio.bas.bg/neurobiology/documents/pharmacologia2009).

IN ORDER TO OBTAIN A QUALIFICATION CERTIFICATE, EVERY PARTICIPANT, MEMBER OF THE BULGARIAN MEDICAL ASSOCIATION, SHOULD SUBMIT HIS/HER UNIQUE IDENTIFICATION NUMBER TO THE REGISTRATION DESK.