

PROGRAM
7TH CONGRESS OF PHARMACY WITH INTERNATIONAL PARTICIPATION
November 21-24, 2019
RILA Hotel, Borovets

November 21, 2019, Thursday

Official Opening of the Congress	
17:00 - 17:20	Welcome words and opening of the Congress: Georgi Momekov
17:15 – 17:30	Welcome addresses
17:30 – 17:45	Magazine Pharmacia, <i>Quo vadis?</i> (Bulgarian Scientific Pharmaceutical Society and Pensoft)
17:45 – 18:15	Plenary Lecture: Christo Tsvetanov Are polymeric nano-carriers alternative to cancer therapy?
18:15 – 18:45	Plenary Lecture: Bistra Angelovska Challenges and opportunities in pharmacy practice and profession
19:00	Welcome Dinner

November 22, 2019, Friday

RILA 1 HALL Scientific Session “Pharmacology, Pharmacotherapy, Toxicology and Clinical Pharmacy (I)” Chairmen: Nikolai Danchev, Romyana Simeonova	
09:00 – 09:30	Plenary Lecture: S. Dragoni, E. Chiaino, M. Frosini, J. Fernandez-Abascal, <u>Massimo Valoti</u> Cytochrome P450 metabolism in brain: roles and implications in neurodegenerative diseases
09:30 – 10:00	Plenary Lecture: <u>Nikolay Danchev</u> , I. Kostadinova Current pharmacology and pharmacotherapy of multiple sclerosis
10:00 – 10:15	<u>Ivanka Kostadinova</u> , N. Danchev Alzheimer’s disease – opportunities of pharmacotherapy
10:15 – 10:30	K. Koleva, G. Bogdanov, <u>Rumen Nikolov</u> Pharmacologic influence on hyperthermic reaction in experimental serotonin syndrome models
10:30 – 10:45	<u>Margarita Zhelyazkova</u> , K. Baltadzhieva, G. Momekov, N. Hristova-Avakumova, V. Hadjimitova The synergistic effects of cannabidiol and epirubicin on HL-60 cell lines and free radical damages
10:45 - 11:05	Coffee break
11:05 - 11:35	Plenary Lecture: Borislav Georgiev Treatment of dyslipidemias with a focus on atherosclerotic disease
11:35 - 11:50	<u>Jana Tchekalarova</u> , L. Kortenska, N. Ivanova, M. Atanasova, T. Stoyanova, Z. Nenchovska, R. Mitreva, P. Marinov Beneficial influence of chronic agomelatine treatment on desynchronized diurnal rhythms of hormonal release, behavior and sleep architecture in a rat model of melatonin deficit
11:50-12:20	Satellite Symposium Actavis, a Teva Company Borislav Georgiev

	Acetysal Cardio for coronary protection and concomitant gastroprotection with Acilesol
12:20- 12:30	Discussion

12:30 – 14:00 Lunch break

RILA 1 HALL Scientific Session “Pharmacology, Pharmacotherapy, Toxicology and Clinical Pharmacy (II)” Chairmen: Rumyana Simeonova, Magdalena Kondeva-Burdina	
14:00 – 14:30	Plenary Lecture: Borislav Georgiev Heart failure therapy according to the latest classification for Europe
14:30 – 15:00	Satellite Symposium PFIZER Borislav Georgiev Application and characteristics of the NOACs (DOACs)
15:00 – 15:15	Liliya Vasileva, I. Koycheva, Zh. Balcheva-Sivenova, I. Aneva, M. Georgiev <i>Agrimonia eupatoria</i> L. lowers lipid accumulation in differentiated human adipocytes
15:15 – 15:30	S. Ciurinskiene, <u>Maria Savcheva</u> Imbalance of essential and toxic metals in children with autistic pectrum disorders
15:30 – 15:45	<u>Milen Hristov</u> , B. Landzhov, K. Yakimova Effects of leptin on NADPH-diaphorase activity in the nucleus paraventricularis and nucleus arcuatus of the hypothalamus in rats
15:45 – 16:00	<u>Rumyana Simeonova</u> , D. Zheleva-Dimitrova, V. Balabanova, N. Benbassat, I. Savov, R. Gevrenova Comparative study of the protective effects of nigella sativa oil, curcumin, and hydroxytyrosol against dextran sulfate sodium-induced colitis in mice
16:00 - 16:20	Coffee break
16:20 – 16:40	Georgi Momekov SioIto Respimat® Soft Mist™ - the new generation of inhaler technology Supported by Boehringer Ingelheim
16:40 - 16:55	Lutfi Zylbeari, K. Haxhirexha, A. Haxhirexha, F. Dika-Haxhirexha, Z. Bexheti, S. Ahmeti-Lika, G. Zylbeari Uric acid is a risk factor for an incident in patients with uremia
16:55 -17:15	Lutfi Zulbeari, K. Haxhirexha, F. Haxhirexha, Z. Bexheti, S. Ahmeti-Lika Management of renal anemy
17:15 – 17:30	<u>Viktoria Ilieva</u> , Ts. Georgieva, M. Kondeva-Burdina Molecular genetic analysis of toxic micro-derivatives in drinkin water
17:30 – 17:45	<u>Lidija Chakuleska</u> , A. Shkondrov, I. Krasteva, V. Manov, N. Zlateva-Panayotova, G. Marinov, R. Simeonova, N. Danchev Bone remodelling effects of Sophorae fructus extract and curcumin (Cursol) on goserelin-induced osteoporosis in rats
17:45 – 18:05	Pavlina Gateva, D. Bakalov Neuropsychiatric comorbidities in epilepsy and the possible beneficial effect of melatonin –the evidences from meta-analyses
18:05 – 18:20	<u>Maria Hristova</u> , M. Eneva-Dimitrova Significance of antibiotic resitance in clinical practice and measures for limiting it in hospitals
18:20 – 18:30	<u>Discussion</u>

HALL 2 Scientific Session “Design of Drug-delivery systems and biopharmacy” Chairmen: Dimitar Rachev, Krasimira Yoncheva	
09:00 – 09:30	Plenary Lecture: Petar Petrov , D. Momekova Nanocomposite cryogel carriers for delivery of poorly water-soluble drugs
09:30 – 09:45	<u>Dilyana Georgieva</u> , B. Kostova, K. Ivanova-Mileva, S. Ivanova, D. Rachev, D. Christova Thermoresponsive poly(n-isopropylacrylamide) copolymer networks for galantamine hydrobromide delivery
09:45 – 10:00	<u>Petya Peneva</u> , E. Apostolova, M. Kassarova <i>In vivo</i> study of antinociceptive and anti-inflammatory activity of ketoprofen bigel for dermal application
10:00 – 10:15	<u>Vladimir Katev</u> , Z. Vinarov, D. Radeva, S. Tcholakova, N. Denkov Solubility of fenofibrate in human gastro-intestinal tract model
10:15 – 10:45	Satellite Symposium Philip Morris International Catherine Goujon, Manager Chemistry Research, Philip Morris International Chemistry of Tobacco Heated System – aerosol characterization and impact on Indoor Air Quality
10:45 - 11:05	Coffee break
11:05 - 11:20	<u>Vladimir Katev</u> , Z. Vinarov, S. Tcholakova, N. Denkov Impact of surfactant-bile interactions on the solubility of hydrophobic drugs
11:20 - 11:30	<u>Adelina Lyubenova</u> Sustainable Quality Management and Good Distribution Practice at Sting AD through ISO 9001: 2015 - Risk Assessment Supported by STING
11:30 - 11:50	Name Theme Supported by GSK
11:50 - 12:30	Discussion

12:30 – 14:00 Lunch break

HALL 2 Scientific Session “Design and characterization of nanoscale drug-delivery systems, nanotoxicology” Chairmen: Denitsa Momekova, Virginia Tsankova	
14:00 – 14:15	<u>Iva Valkova</u> , V. Michailova Calorimetric study on solvent mediated interactions of indomethacine with poly (n-isopropylacrylamide)-graft-poly(ethylene oxide) copolymer
14:15 – 14:30	<u>Yordan Yordanov</u> , B. Tsankov, V. Tsankova, M. Frosini, M. Valoti, K. Yoncheva <i>In vitro</i> cardioprotective effects of doxorubicin encapsulated in chitosan-alginate particles
14:30 – 14:45	<u>Delyan Krastev</u> , Z. Vinarov, A. Müllertz, S. Tcholakova Membrane permeability of fenofibrate solubilized in surfactant micelles
14:45 - 15:00	<u>Denitsa Aluani</u> , V. Tsankova, K. Yoncheva, V. Bankova, M. Atanasova, G. Grancharov, P. Petrov <i>In vitro</i> safety and antioxidant activity evaluation of caffeic acid phenethyl ester loaded copolymer micelles
15:00 – 15:15	<u>Viliana Gugleva</u> , D. Momekova, S. Titeva, S. Rangelov Preparation and characterization of doxycycline loaded niosomes for ocular delivery
15:15 – 15:30	<u>Borislav Tzankov</u> , Ch. Voycheva, T. Popova, I. Spasova, D. Kovacheva, N. Lambov, K. Yoncheva Preparation and chemical functionalization of mesoporous silicate nanoparticles as drug carrier

15:30 – 15:45	<u>Teodora Popova</u> , B. Tzankov, Ch. Voycheva, I. Spasova, K. Avramova, D. Kovacheva, K. Yoncheva, N. Lambov Development of advanced drug delivery systems based on mesoporous silica nanoparticles
15:45 – 16:00	Discussion
16:00 - 16:20	Coffee break
HALL 2 Scientific Session “Biological products, targeted therapy and immunotherapy products”	
16:20 – 16:35	<u>George Shopov</u> , E. Hristov Analysis of the structural and functional characteristics of advanced therapy medicinal products
16:35-16:50	<u>Nevena Zaharieva</u> , I. Doytchinova, I. Dimitrov Immunogenicity Prediction of Bacterial Proteins by Random Forest Algorithm
16:50 -17:05	<u>Iva Parvova</u> , A. Rangelov, E. Hristov, R. Rashkov, I. Getov, S. Ognianov Prospective study of adverse drug reactions in a bulgarian population of patients with inflammatory joint diseases treated with biological medicinal products
17:05 – 17:20	<u>Lyubomir Marinov</u> , I. Nikolova Monoclonal antibodies pathway
17:20 – 17:35	<u>Stella Schekerdjiiska</u> , N. Georgiev, R. Schekerdjiiski Our contribution in developing of innovative polybacterial immunostimulators for immunotherapy and immunoprophylaxis
17:35 – 18:00	Discussion

18:30 – 19:30 POSTER SESSION - Part I

- Household and public spending on health - Z. Mitkova, G. Petrova
- Pharmacy students' opinion regarding their knowledge of biotechnology medicinal products – Dj. Tamer, J. Grozev, A. Todorova, M. Kamusheva, G. Petrova
- Quality of life of asthma patien– P. Milushewa, M. Doneva, G. Petrova, K. Najdenova, B. Krusheva, S. Usunov, V. Dimitrov
- In vitro* effects of newly synthesized semicarbazides/thiosemicarbazides of theophylline on isolated rat brain synaptosomes – T. Goliykov, M. Kondeva-Burdina, J. Mitkov, A. Zlatkov
- Investigation and analysis of the hta process among experts, members of working groups – A. Nikolova, E. Grigorov, I. Getov, P. Salchev
- In vitro* effects of newly synthesized hydrazide-hydrazones bearing indole moiety on isolated rat brain microsomes – N. Yanakieva, M. Kondeva-Burdina, V. Angelova
- Cost-utility analysis of hernia meshes - M. Doneva, S. Sopotenski, N. Gerassimov, M. Kamusheva, G. Petrova
- Immunostimulation in children. Role of the pharmacist. – D. Argilashki, B. Hadzhieva, A. Mihaylova, N. Koleva
- Medicines utilization patterns among older ambulatory patients in bulgaria – a pilot study – J. Stoeva, K. Tachkov, M. Kamusheva, G. Petrova, J. Brkic, D. Fialová
- Molecular docking study of ruscogenin, neoruscogenin and diosgenin on estrogen receptors – V. Marinova, M. Atanasova, R. Simeonova, I. Krasteva, I. Doytchinova
- Molecular docking study of diosgenin, ruscogenin and neoruscogenin on vitamin d receptor – M. Hyuseinova, M. Atanasova, R. Simeonova, I. Krasteva, I. Doytchinova
- Influence of mineral additives on saponarin production by in vitro cultures of gypsophila trichotoma – A. Shkondrov, P. Popova, P. Zdraveva, I. Krasteva, I. Ionkova
- David Hosack (31.08.1769-22.12.1835) – physician, botanist, educatur and scientist, creator of the first botanical garden in new york in 1801.– Z. Dimitrova, K. Andreevska, H. Bargasliev, V. Madžarov
- Trends in marketing authorization on drugs in european union and time for market access on new drugs in bulgaria for the period 2017-2019 – M. Dimitrova, D. Panayotova

15. Determination of the number of chelators conjugated to trastuzumab, antibody based radiopharmaceutical, using a MALDI-TOF MS – M. Sterjova Arev, P. Džodić, A. Dimovski, K. Davalieva, S. Kiprijanovska, P. Apostolova, E. Drakalska, E. Janevik-Ivanovska
16. Risk communication in community pharmacies through the prism of self-medication – H. Lebanova, R. Staynova, E. Grigorov
17. Cardiovascular risk assessment in patients with type 2 diabetes mellitus – I. Mihaleva, M. Yoncheva, P. Andreeva – Gateva
18. UHPLC/ORBITRAP MS metabolomics profile and antioxidant properties of *Asphodelus albus* roots growing in Bulgaria – I. Lazarova, G. Zengin, P. Nedialkov, R. Gevrenova
19. Monitoring of highly active antiretroviral therapy and nutrition habits in people living with HIV—the possible role of the clinical pharmacist – A. Kaneva, K. Tashkov, M. Dimitrova, N. Yancheva
20. Strategies to improve medication adherence in children - challenges for the modern pharmacist – R. Staynova, H. Lebanova, Y. Georgieva
21. Metformin - the new contender in the treatment of gestational diabetes mellitus – R. Staynova, V. Getova, V. Yanachkova
22. Selective caspase inhibitors from *Gypsophila Glomerata* Pall. Ex M.B. (Caryophyllaceae) – P. Sugareva, V. Lozanova, B. Dimitrova, R. Gevrenova, R. Simeonova, V. Lozanov
23. Renin-angiotensin system inhibitors: a potential role in sarcopenia – G. Krasteva, E. Lakova, P. Krastev, G. Stavreva
24. Antibiotics and antibiotic resistance – time for interventions in the students education? – E. Keuleyan, R. Nikolov, D. Dimitrova, E. Ivanova
25. Investigation of the effects of 1,2,3-thiadiazole containing hydrazone derivative on the liver and kidney functions in female mice – V. Angelova, R. Simeonova
26. Developments and applications of chemical characterization of biopharmaceuticals – D. Gjorgieva Ackova, K. Smilkov
27. Effects of pioglitazone on serum levels of proinflammatory cytokines in experimental model of autism - Zh. Stefanova, G. Bogdanov, K. Kamenova, M. Varadinova
28. Products containing extracts from medicinal plants for prevention of osteoporosis – D. Tsvetkova, St. Ivanova
29. Comparison of different extemporaneously compounded vehicles for oral liquid dosage form for pediatric patients – I. Pehlivanov, V. Andonova
30. Plant sources of mauritianin and evaluation of its protective potential – A. Shkondrov, I. Krasteva, M. Kondeva-Burdina
31. Secondary metabolites in *Astragalus corniculatus* – I. Stambolov, A. Shkondrov, I. Krasteva
32. Antibiotic treatment – opportunities for overcoming resistance – S. Mihaylova, A. Tsvetkova, A. Todorova
33. Evaluation of the anticonvulsant, antidepressant and antioxidant effects of novel melatonin derivatives in mice – J. Tchekalarova, N. Ivanova, Z. Nenchevska, T. Stoyanova, V. Angelova, P. Andreeva-Gateva, R. Tzoneva
34. Two new phenolic glycosides from aerial parts from *Hypericum cerastioides* – P. Nedialkov, Y. Ilieva, Z. Kokanova-Nedialkova
35. Analgesic activity of melatonin and melatonin derivatives bearing aroylhydrazone fragment – P. Gateva, A. Tzinev, I. Mancheva, V. Koleva, S. Marchev, V. Angelova, J. Tchekalarova, S. Surcheva, M. Vlaskovska
36. Polymeric microspheres with enalapril maleate for taste masking – Y. Georgieva, B. Pilicheva, M. Kassanova
37. Most common toxic metals in children with developmental problems in Bulgaria - S. Ciurinskiene, M. Savcheva, T. Kadiyska
38. Synthesis and prediction of ADME parameters of some new derivatives of Bexarotene – J. Mitkov, N. Agova, S. Georgieva, A. Zlatkov
39. Lavender oil microencapsulation using *Boswellia serrata* resin as a wall material – P. Katsarov, D. Penkov, B. Pilicheva, Y. Georgieva, P. Peneva, M. Kassanova
40. *In vivo* determination of the antioxidant activity of dry – D. Penkov, D. Delev, P. Katsarov, M. Kassanova

41. Synthesis, drug likeness and toxicity prediction of some new imidazole-thioalkanic acids– J. Mitkov, S. Stamova, S. Georgieva, M. Georgieva
42. Development of technological method to produce nanostructured lipid carriers based on natural lipid – M. Dobрева, S. Stefanov, V. Andonova
43. Food supplements for maintenance of normal liver function on the Bulgarian pharmaceutical market – compliance with the European recommendations for health claims and possible interactions with medicines for liver diseases – A. Balkanska, M. Kondeva-Burdina, M. Dimitrova
44. A new synthetic route of obtaining of 5-methyl-5-benzyl hydantoin. X-ray analysis and theoretical calculations – R. Buyukliev, R. Nikolova, B. Shivachev, E. Cherneva, A. Bakalova
45. The employment of students from pharmaceutical specialties in Bulgaria – a pilot study – K. Gergov, J. Georgiev, H. Burgazliev, E. Hristov, S. Ognianov
46. Design, synthesis, theoretical and cytotoxic investigation of new pt(ii) complexes with 3-methyl-8-thia-1,3-diazaspiro[4.5]decane-2,4-dione– A. Bakalova, R. Buyukliev, R. Michailova, G. Momekov, E. Cherneva
47. Materiovigilance in North Macedonia-regulation and harmonization – B. Angelovska, E. Drakalska Sersemova, K. Stefanovska
48. Whether *Amorpha fruticosa* fruit extract possess genotoxic and mutagenic effect on *Saccharomyces cerevisiae* or not? – T. Todorova, P. Parvanova, M. Dimitrova, I. Ionkova, I. Krasteva, A. Shkondrov, Zh. Mitrovska, E. Kozuharova, S. Chankova
49. Anxiolytic effect of the new anticonvulsant lacosamide compared to topiramate in the pilocarpine-model of temporal lobe epilepsy in rats – M. Shishmanova-Doseva, L. Peychev, M. Mincheva, R. Boyuklieva
50. A survey of opinion and readiness to apply seasonal flu shot vaccination – H. Hristova, I. Getov

20:00 Dinner

November 23, 2019, Saturday

RILA 1 HALL Scientific Session “Pharmacoeconomics and Health Technology Assessment” Chairmen: Guenka Petrova, Maria Dimitrova	
09:00 – 09:30	Plenary Lecture: Guenka Petrova Joint european legislation on health technologies assessment – Where the countries could collaborate?
09:30 – 09:45	<u>Alexandra Savova</u> , I. Nikolova, S. Terezova, B. Zidarova, M. Vasileva, D. Apostolova, N. Danchev Analysis of the changes in regulatory policy of pricing and reimbursement of medicinal products in bulgaria
09:45 – 10:00	<u>Konstantin Mitov</u> , K. Tashkov Methodological and technological approach to improving the statistical accuracy of diagnostic test and methods
10:00 – 10:15	<u>Maria Kamusheva</u> , Y. Rusenova, S. Vandeva, K. Mitov, G. Petrova Cost-effectiveness analysis of therapy for acromegaly – a case with pegvisomant
10:15 – 10:30	<u>Maria Dimitrova</u> , Guenka Petrova Breast cancer landscape mapping in Bulgaria
10:30 – 10:45	<u>Maria Drenska</u> , S. Elitova, V. Grigorova, E. Naseva , I. Getov Analysis of primary outpatient data for off-label use of medicines in neurology
10:45 - 11:05	Coffee break
11:05 - 11:35	Name Theme Supported by Zentiva
11:35 - 11:50	<u>Violeta Getova</u> , R. Staynova, I. Getov Risk-minimization measures in the eu: review and analysis 2017-2018
11:50-12:05	<u>Konstantin Tashkov</u> , A. Vasilev, S. Kostova Cost-effectiveness of pharmacologic treatment in primary open-angle glaucoma and “dry eye” syndrome in real therapeutic conditions
12:05- 12:30	Discussion

12:30 – 14:00 Lunch break

RILA 1 HALL Scientific Session “Social pharmacy and pharmaceutical legislation” Chairmen: Valentina Petkova, Alexandra Savova	
14:00 – 14:30	Plenary Lecture: <u>Valentina Petkova</u> , V. Antova Assessment of medicinal therapy in neonatology
14:30 – 14:45	<u>Hristo Burgazliev</u> , S. Krumov, A. Luizov, I. Getov A pilot study and measurement of satisfaction with pharmacy services in the Burgas region
14:45 – 15:00	<u>Svetla Georgieva</u> Analysis of the regulatory changes and preparation of the individual prescriptions in the hospital pharmacies
15:00– 15:15	A. Todorova, <u>Evgeni Grigorov</u> , G. Petrova, J. Kolev, I. Kumanov, D. Naydenova Possibilities for optimizing the education of pharmacy students by using a specialized electronic platform - swot analysis based on the experience in mu-varna
15:15 – 15:45	<u>Stefan Balkanski</u> , J. Simeonova, I. Gitev, I. Getov Study of the attitude of pharmacists in bulgaria toward the remuneration of value-added pharmacy services
15:45 – 16:00	<u>Stefka Stoyanova</u> , E. Hristov, K. Andreevska, Tz. Delyiski, S. Ognyanov, Z. Dimitrova, H. Burgazliev The first female pharmacists in bulgaria - what does it mean to be among them?

	Dreams or reality ...?
16:00 - 16:20	Coffee break
16:20 – 16:30	Aleksandar Spasovski Relief of muscle pain with the double action of rosemary Supported by Medis:
16:30 - 16:45	C. Cannavale, A. De Rosa, Emanuyl Yordanov, E. Hristov Comparative analysis of the pricing and reimbursement systems between Italy and Bulgaria
16:45 - 17:00	<u>Konstantin Kachulev</u> , T. Simova, D. Enchev Influence of pharmaceutical care and professional pharmacist's consultation on the patient
17:00 – 17:15	<u>Nasie Asipova</u> , E. Hristov, Tz. Delyiski, I. Parvova, E. Yordanov, K. Andreevska, S. Ognianov, H. Burgazliev Health related quality of life – a pilot study in healthy volunteers
17:15 - 17:30	Discussion

HALL 2 Scientific Session “Pharmaceutical chemistry, drug design, pharmaceutical analysis” Chairmen: Danka Obreshkova, Rumiya Simeonova	
09:00 – 09:15	<u>Lily Andonova</u> , E. Ivanov, I. Pencheva, S. Konstantinov Analytical study of products containing cannabidiol.
09:15 – 09:30	<u>Vania Maslarska</u> , M. Smerikarova, S. Bozhanov Application of high performance liquid chromatography for statins analysis in biological media
09:30 – 09:45	<u>Diana Tzankova</u> , D. Aluani, L. Peikova, M. Georgieva Synthesis and preliminary screening for cytotoxicity and biological effects of series pyrrole hydrazones
09:45 – 10:00	<u>Lozan Todorov</u> , I. Kostova <i>In vitro</i> interaction of 5-aminoacetic acid and its complex with gallium (III) with superoxide radical obtained from model systems with potassium superoxide and xanthine / xanthine oxidase
10:00 – 10:15	<u>Stanislav Bozhanov</u> , M. Smerikarova, V. Maslarska Determination of Cd and Pb in products of bulgarian oil-bearing rose (<i>Rosa damascena mill.</i>)
10:15 – 10:30	I. Kolev, <u>Nadezhda Ivanova</u> , M. Marinov Introduction of the quartz crystal microbalance method in the pharmaceutical analysis: determination of drug content in polymeric carriers
10:30 – 10:45	<u>Mariyana Atanasova</u> , I. Dimitrov, I. Doytchinova Virtual screening and hit selection of natural compounds as acetylcholinesterase inhibitors
10:45 - 11:05	Coffee break
11:05 - 11:20	<u>Atanas Lukarski</u> , M. Atanasova, G. Stavrakov, I. Philipova, I. Doytchinova Design and docking of curcumin-galantamine hybrids as acetylcholinesterase inhibitors with dual-site binding
11:20 - 11:35	<u>Lyli Peikova</u> , A. Dineva, M. Georgieva, A. Zlatkov Development of RP-HPLC method for identification of the products of hydrolysis of propanehydrazone, containing a xanthine fragment in its structure
11:35-11:50	<u>Alexandrina Dineva</u> , L. Peikova, M. Georgieva, A. Zlatkov Development of chiral RP-HPLC method for identification of optical isomers in the structure of 2-(1,3-dimethyl-2,6-dioxo-2,3-dihydro-1h-purine-7(6h)-yl)-n'-(3-fluorobenzyldene)propanhydrazide
11:50 – 12:30	Discussion

12:30 – 14:00 Lunch break

HALL 2 Scientific Session “Chemistry and biological activity of natural products, pharmacognosy and alternative medicine” Chairmen: Niko Benbassat, Rumiya Simeonova	
14:00 – 14:30	Plenary Lecture: Christian Zidorn Sesquiterpene lactones from <i>Sonchus palustris</i> L. (Asteraceae, Cichorieae)
14:30 – 14:45	Praskovia Mizina Herbal medicine developed at the All-Russian Research Institute of Medical and Aromatic Plants. Achievements and perspective
14:45 – 15:00	Ilia Iliev Enzyme modification of polysaccharides from herbal plants and their biological activity as prebiotics
15:00– 15:15	Ekaterina Kozuharova, N. Benbassat, I. Ionkova Invasive alien species - cheap sources of valuable essential oils
15:15 – 15:25	Magdalena Kondeva-Burdina, I. Krasteva, A. Shkondrov, G. Popov, V. Manov <i>In vivo</i> evaluation effects of flavonoid mauritianin, isolated from <i>Astragalus monspessulanus</i> spp. <i>Monspessulanus</i>
15:25 – 15:45	Name Theme Supported by Astellas Pharma
15:45 – 16:00	Yulian Voynikov, D. Zheleva-Dimitrova, V. Balabanova, R. Gevrenova Identification and mass fragmentation analyzes of steroid alkaloids and phenolic acids found in <i>Solanum schimperianum</i>
16:00 - 16:20	Coffee break
16:20 - 16:35	Reneta Gevrenova Liquid chromatography–high resolution mass spectrometry - effective tool in <i>Gypsophila</i> saponins annotation
16:35 - 16:50	Dimitrina Zheleva-Dimitrova, R. Gevrenova UHPLC-HRMS based strategy for the dereplication of caffeic acid oligomers and saponins in <i>Clinopodium vulgare</i> L. Water extract
16:50 – 17:05	Vessela Balabanova, G. Zengin, D. Zheleva-Dimitrova, N. Benbassat, R. Gevrenova Phytochemical and biological insight into <i>Telekia speciosa</i> (Schreb.) Baumg. and <i>Tanacetum macrophyllum</i> (Waldst. & Kit) Schultz Bip. (Asteraceae)
17:05 – 17:20	Maria Voynova, A. Shkondrov, M. Kondeva-Burdina, I. Krasteva <i>In vitro</i> effects of saponins' mixture from <i>Astragalus glycyphyllos</i> on isolated rat brain synaptosomes and microsomes.
17:20 – 17:35	Pavlina Dolashka, A. Dolashki, L. Velkova, V. Atanasov, B. Devreese Bioactive compounds from garden snails <i>Helix aspersa</i> with applications in pharmaceuticals industry and medicine
17:35 – 17:50	Gazela Nasar-Eddin, R. Simeonova, D. Zheleva, R. Gevrenova, N. Danchev <i>Clinopodium vulgare</i> and its major constituent rosmarinic acid, protect against scopolamine-induced oxidative stress in rat brain
17:50 – 18:00	Diliyana Hristova, S. Russinova-Videva, M. Zaharieva, H. Naidenski, S. Konstantinov Biological activity of yeasts and their use as antineoplastic agents
18:10 – 18:20	Lyudmila Velkova, S. Konstantinov, A. Dolashki, V. Atanasov, P. Dolashka Bioactive compounds isolated from marine snail <i>rapana venosa</i> with potential application in the medicine
18:20 – 18:30	Discussion

18:30 – 19:30 POSTER SESSION - Part II

51. Analytical study of active ingredients in model mixtures containing extracts from medicinal plants *Crataegus sp.*, *Tribulus terrestris L.* and *Sideritis scardica Grizeb* – S. Mitkov, D. Yordanov, V. Najdenov, Z. Petrova, I. Pencheva
52. Methodological and technological approach to improving the statistical accuracy of diagnostic test and methods – K. Mitov, M. Doneva, K. Tachkov
53. Challenges in the diagnosis of diseases through reference intervals and their changes – K. Tachkov, A. Savova, K. Mitov
54. Comparison between pediatric and adult suspected neurological and psychiatric adverse drug reactions (ADRS) of melatonin reported to the European medicines agency (EMA) and US food and drug administration (FDA) - D. Bakalov, P. Andreeva-Gateva, R. Hadjiolova
55. Olmesartan tablets – drug release optimization by granulation in fluidized bed apparatus – S. Tzankov, I. Ivanova
56. Development and optimisation of the process of decarboxylation of tetrahydrocannabinolic acid, followed by FTIR detection of tetrahydrocannabinol in medicinal cannabis – I. Cocovska, K. Demirovski Kockova, V. Trajanovska Faizova, V. Maksimova
57. Technological approaches for extemporaneous preparation of oral pediatric formulations with sildenafil citrate – M. Dimitrov, M. Borinarova
58. Development of mesoporous silica particles as a drug delivery system for quercetin – Ch. Voycheva, B. Tsankov, T. Popova, I. Spassova, D. Kovacheva, K. Yoncheva, N. Lambov
59. Effects of anthocyanins^R on fructosyltransferase Lm-17 activity – S. Bodlev, T. Vasileva, I. Iliev, M. Nikolova
60. Phenolic compounds with radical-scavenging, anti- α -glucosidase and prolipase activities from the aerial parts of *Hypericum cerastoides (Spach)* N. Robson – Z. Kokanova-Nedialkova, P. Nedialkov, Y. Ilieva
61. Basic study of pharmaceutical bioeconophysical aspects of drug administration – M. Petrov, V. Petrova
62. Influence of pharmaceutical care and professional pharmacist's consultation on the patient – K. Kachulev, T. Simova, D. Enchev
63. Pilot study of the attitudes of master pharmacists and patients to the application of pharmaceutical care in real pharmaceutical practice – S. Georgiev, N. Asipova, G. Lazarova, A. Kadiev, K. Andreevska, E. Hristov
64. The high tech in stress monitoring and management – E. Manasiev, E. Grigorov, S. Kochev
65. Preparation of complex chitosan-alginate nanoparticles loaded with extract from *Astragalus glycyphyllos* and investigation of antitumor effect on Graffi tumor-bearing hamsters - D. Georgieva, B. Kostova, I. Krasteva, A. Shkondrov, A. Georgieva, R. Toshkova
66. Estimation of molecular properties of dihydroxybenzaldehyde based hydrazones – B. Nikolova-Mladenova, D. Ivanov
67. Synthesis and cytotoxic activity of dihydroxy-substituted hydrazones – B. Nikolova-Mladenova, G. Momekov
68. High performance liquid chromatographic determination of tinidazole and some proton pump inhibitor – M. Smerikarova, S. Bozhanov, V. Maslarska
69. Multifunctional polymer nanocarriers for efficient mitochondria-targeting – D. Momekova, D. Babikova, I. Ugrinova, G. Momekov, I. Dimitrov
70. Antineoplastic activity of saponins from two bulgarian astragalus species – I. Krasteva, A. Shkondrov, R. Mihaylova, S. Konstantinov
71. Stabilization of doxorubicin by encapsulation in chitosan-alginate nanoparticles – K. Yoncheva, B. Tzankov, I. Spassova, D. Kovacheva
72. 3'-methyl-4-thio-1h-tetrahydropyranspiro-5'-hydantoin and its Pt(IV) and Pd(IV) complexes as novel potent xanthine oxidase inhibitors – E. Cherneva, K. Tomović, Ž. Šmelcerović, A. Šmelcerović, R. Buyukliev, A. Bakalova
73. Xanthine oxidase inhibitory activity of thiocyclohexanespiro-5'-hydantoine and 3-aminothiocyclohexanespiro-5'-hydantoine and their Pt (II) complexes – E. Cherneva, Ž. Šmelcerović, K. Tomović, A. Šmelcerović, R. Buyukliev, A. Bakalova
74. Preparation of 5-methyl-5-(4-pyridylmethyl) hydantoin - R. Buyukliev, N. Burdjiev
75. Positive impact of the novel melatonergic drug piromelatine on anxiety in experimental model of prenatal stress – N. Ivanova, Z. Nenchevska, L. Kortenska, R. Mitreva, T. Stoyanova, J. Tchekalarova

76. The invasive alien species *Amorpha fruticosa* - a cheap source of valuable essential oils – E. Kozuharova, N. Benbassat, I. Ionkova
77. Clinical pharmacy- occurrence and development –D. Grekova
78. Study on the acute toxicity of newly synthesized isoquinoline precursor - K. Saracheva, D. Dimitrova, S. Nikolova, V. Gledacheva, I. Stefanova, A. Krastev
79. Modern trends in reforming the pharmaceutical industry – Y. Nedelcheva
80. Activity-guided identification of anticancer lignans in juniper extracts – P. Nedialkov, D. Ivanova, A. Tashev, Z. Kokanova-Nedialkova, Y. Ilieva, G. Angelov, K. Richardson, M. Dosmann, T. Atanassova
81. Biocompatibility and cytotoxicity of silica-based bone substitute materials - T. Dimova
82. *In vitro* toxicity evaluation of H₂S-DOx in human hepatocarcinoma HEPG2 cells – V. Tzankova, Y. Yordanov, D. Aluani, S. Saponara
83. Market landscape and some aspects of real world evidence of the non-psychoactive phytocannabinoids – B. Kirilov, M. Zhelyazkova, E. Petkova-Georgieva
84. The combination treatment of tumor-cell lines with epirubicin and artemisinin, and mechanisms of their synergistic effects – M. Zhelyazkova, G. Momekov, N. Hristova-Avakumova, V. Hadjimitova
85. A study of participation of pharmacists and their role in the process of pharmaceutical manufacturing in Bulgaria – Ts. Stefanova, G. Petrova, E. Grigorov
86. Pharmacovigilance of medicines for controlled ovarian hyperstimulation. Analysis from patient perspective. – S. Stoev, H. Lebanova, J. Dimitrova, I. Getov
87. When effectiveness means safety. Analysis of clinical experience with different approaches for controlled ovarian hyperstimulation. – S. Stoev, H. Lebanova, E. Naseva, I. Getov
88. Evaluation of the neuroprotective and antioxidant properties of new N-alkylated benzimidazole hydrazones with potential application for neurodegenerative disorders – N. Anastassova, D. Aluani, N. Hristova-Avakumova, A. Kostadinov, V. Tzankova, M. Kondeva-Burdina, V. Hajimitova, D. Yancheva
89. Polyvinyl alcohol-based filaments as a feedstock material for three dimensional printing of solid dosage forms – S. Ilieva, M. Dimitrov
90. Cardiovascular medicines utilization in Bulgaria from the national health insurance fund perspective – G. Kovachka, Z. Mitkova, M. Kamusheva, G. Petrova
91. Oncopharmacological characterization of the aryltetralin lignan anthricin - E. Petrova, R. Mihailova, T. Atanasova, I. Ionkova, G. Momekov
92. Pharmacanalytical investigation of products for Alzheimer treatment – D. Obreshkova
93. Water-extractable polysaccharide from *Plantago media* L. leaves – structural characterization and biological activity – P. Lukova, M. Nikolova, C. Delattre, C. Gardarin, E. Petit, P. Michaud, I. Iliev
94. Quantification of flavonoids in in vitro cultures of *Astragalus glycyphyllos* L. – P. Popova, Y. Zarev, A. Shkondrov, I. Krasteva, I. Ionkova

20:00 Dinner

November 24, 2019, Sunday

RILA 1 HALL

09:00

- **Official closing of the Congress**
- **General meeting of Bulgarian Scientific Pharmaceutical Society**