

SCIENTIFIC CONFERENCE WITH INTERNATIONAL PARTICIPATION

**PRECLINICAL TESTING OF ACTIVE SUBSTANCES AND CANCER
RESEARCH**

**WITH INTERNATIONAL SYMPOSIUM ON
ANTI-CANCER AGENTS, CARDIOTOXICITY AND NEUROTOXICITY**

Organized by

CENTRE FOR PRE-CLINICAL TESTING OF ACTIVE SUBSTANCES – CPCTAS

FACULTY OF SCIENCE UNIVERSITY OF KRAGUJEVAC

FACULTY OF MEDICINE UNIVERSITY OF KRAGUJEVAC

SERBIAN PHYSIOLOGICAL SOCIETY

Under the auspice of

EU 7th Framework Program (FP)



CME accredited by the Health Council of Serbia

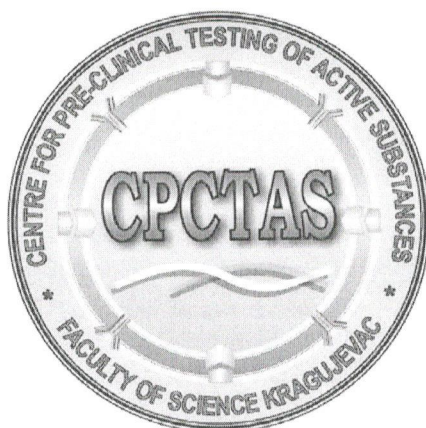
FINAL PROGRAM

ABSTRACT BOOK

<http://cpctas.pmf.kg.ac.rs/conference>

<http://www.physiology.org.rs/eng/htm/konf2011/program.pdf>

MARCH 16-18, 2011, KRAGUJEVAC, SERBIA



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CPCTAS Centre for Pre-Clinical Testing of Active Substances (GA No. 206809).
 Project coordinator: Faculty of Science Kragujevac
 Project is financed by the European Commission under FP7 Research Potential programme



FOREWORD

Dear Colleagues,

CPCTAS (Centre for Pre-Clinical Testing of Active Substances) is a project financed under the 7th Framework Program (FP) within research potential work program through the coordination and support actions funding scheme. The project coordinator is Faculty of Science University of Kragujevac, and other project beneficiaries are: Faculty of Medicine University of Kragujevac, Institute Curie Paris, School of Medicine, Aristotle University Thessaloniki and Faculty of Natural Sciences and Mathematics Skopje. Currently, established Centre has significant research potential that can cooperate with both hospitals and pharmaceutical industries. The international cooperation between EU and Western Balkan partner institutions will be a strong foundation for the future mutual research activities. This cooperation accelerate the setting up of sustainable partnership between the most competitive research centers of EU and WBC with the research interests in the investigation of active substances.

Cancer affects people at all ages and caused about 13% of all human deaths. Standard therapies have not significantly changed the outcome of cancer patients during the last few decades. Therefore, new and more effective therapies need to be developed. Preclinical studies have substantial role in synthesis, development and examination of active substances and could be potential medications.

We really hope that the conference entitled "PRECLINICAL TESTING OF ACTIVE SUBSTANCES AND CANCER RESEARCH" is a unique opportunity for all participants to give their contribution in global fight against cancer. Strong support given by our eminent experts in this field, as well as by our scientific friends from abroad, indicate undoubted success of the meeting.

Kragujevac is not only the town where you will probably find typical Serbian spirit of life but also the place where higher education in Serbia started. We appreciate your participation not only from Serbia but also from other countries and wishing you warm welcome to Kragujevac.

On behalf of the Program/Organizing Committee

Snežana Marković, Dejan Baskić
Vladimir Jakovljević and Dragan Djurić

PROGRAM/ORGANIZING COMMITTEE

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Djurić D, Belgrade, *Program Committee Co-Chairman & Symposium Organizer*

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Vasić G, Kragujevac
Volarević V, Kragujevac
Žižić J, Kragujevac

PROGRAM

Venue: Hotel „Šumarice“, Kragujevac, Serbia

Wednesday, March 16th, 2011

17.00-17.45

OPENING CEREMONY/WELCOME MESSAGES

Chairmen: Marković S, Baskić D, Jakovljević V, Djurić D

17.45-18.15

HOW MOUSE MODELS CAN UNVEIL A NEW SIGNALING PATHWAY FOR COLORECTAL TUMORIGENESIS: THE EXAMPLE OF NOTCH

Robine S

UMR144/Institut Curie, Paris, France

18.15-18.45

PRECLINICAL TESTING IN ANIMAL SYSTEM/ORGAN MODELS (METABOLISM, CNS, GASTROINTESTINAL, CARDIOVASCULAR, RESPIRATORY, IMMUNE SYSTEM, ENDOCRINE)

Kouvelas D

School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

19.00

WELCOME RECEPTION/COCKTAIL (Restaurant, Hotel „Šumarice“, Kragujevac)

Thursday, March 17th, 2011

Room B

FP7 INFO DAY

Chairmen: Nedović V, Bugarčić Ž, Dimitrijević V

10.00-10.10

INTRODUCTION

Nedović V, Assistant Minister

Ministry of Science and Technological Development Republic of Serbia

10.10-10.30

LAST CALLS OF REGIONS OF KNOWLEDGE AND RESEARCH POTENTIAL IN FP7

Janssen L, Policy Officer

DG Research and Innovation, European Commission

10.30-10.50

HEALTH: PERSPECTIVES FOR INVOLVEMENT OF SERBIAN RESEARCHERS AND RESEARCH ORGANISATIONS IN COLLABORATIVE PROJECTS

Đurković-Đaković O, Serbian Expert Member in the FP7 Program Committee for HEALTH

Institute for Medical Research, Belgrade

10.50-11.10

RESEARCH POTENTIALS: EXPERIENCE AND OPPORTUNITIES FOR SERBIAN RESEARCHERS AND RESEARCH ORGANISATIONS IN FORTHCOMING CALLS

Dukić Ž, National Contact Person for REGPOT and HEALTH Programmes
Ministry of Science and Technological Development Republic of Serbia

11.10-11.30

HELPING SERBIAN RESEARCHERS AND RESEARCH ORGANISATIONS IN PROJECT PROPOSALS PREPARATION

Quarrie S, Kolić J
Office for Supporting FP7 Proposal Preparation

11.30-12.00 **Pause / Coffee break**

12.00-12.20

TRANSLATIONAL RESEARCH: PRACTICAL EXPERIENCE

Dubois T
Institute Curie, Paris, France

12.20-12.30

**CENTRE FOR PRE-CLINICAL TESTING OF ACTIVE SUBSTANCES (CPCTAS):
EXAMPLE OF THE A GRANTED PROJECT**

Marković S
Faculty of Science, University of Kragujevac, Kragujevac, Serbia

12.30-12.40

**MULTI-LEVEL PATIENT-SPECIFIC ARTERY AND ATHEROGENESIS MODEL FOR
OUTCOME PREDICTION, DECISION SUPPORT TREATMENT, AND VIRTUAL HAND-
ON TRAINING**

Filipović N, Scientific Coordinator for FP7 ARTreat Project
Faculty of Mechanical Engineering, University of Kragujevac, Kragujevac, Serbia

12.40-13.20

PRESENTATIONS OF THE RESEARCH CAPACITIES AND OPPORTUNITIES

*City of Kragujevac, University of Kragujevac, Faculty of Science, Medical Faculty, Hospital Centre
Kragujevac, Institute for Public Health Kragujevac, Veterinarian Institute Kraljevo*

13.20-13.30

Discussion

Room A

**SESSION 1: ANTIMICROBIAL AND ANTIPROLIFERATIVE ASPECTS OF CHEMICAL
ACTIVE SUBSTANCES**

Chairmen: Trifunović S, Arsenijević N, Božić B

10.00-10.15

**ANTIMICROBIAL ACTIVITY OF ETHYL ESTERS OF (S,S)-ETHYLENEDIAMINE--
N,N'-DI-2-PROPAONIC AND (S,S)-ETHYLENEDIAMINE-N,N'-DI-2-(3-METHYL)--
BUTANOIC ACIDS AND CORRESPONDING PLATINUM(IV) COMPLEXES**

Stanković M¹, Radić G¹, Glodović V¹, Radojević I², Stefanović O², Čomić Lj², Trifunović S¹
¹Department of Chemistry and ²Department of Biology and Ecology, Faculty of Science, University
of Kragujevac, Kragujevac, Serbia

10.15-10.30

IN VITRO ANTIMICROBIAL ACTIVITY OF NOVEL PLATINUM(IV) AND PALLADIUM(II) COMPLEXES WITH 1,2-DIPHENYL-ETHYLENEDIAMINE-N,N'-DI-3-PROPANOIC ACID

Radojević I¹, Stefanović O¹, Radić G², Glodović V², Čomić Lj¹, Trifunović S²

¹Department of Biology and Ecology and ²Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

10.30-10.45

IN VITRO AND IN VIVO ANTITUMOR ACTIVITY OF SELECTED GOLD (III) COMPLEXES ON 4T1 MOUSE BREAST CANCER CELL LINE

Volarević V¹, Milovanović M¹, Djeković A², Petrović B², Arsenijević N¹, Bugarčić ZD²

¹Department of Microbiology and Immunology, Centre for Molecular Medicine, Faculty of Medicine, University of Kragujevac; ²Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

10.45-11.00

THE ANTIPROLIFERATIVE EFFECTS OF CISPLATIN AND OF BUTYL AND PENTYL ESTERS OF (S,S)-ETHYLENEDIAMINE-N,N'-DI-2-PROPANOIC AND CORRESPONDING PLATINUM(IV) COMPLEXES ON HUMAN COLON AND BREAST CANCER CELL LINES

Đačić D¹, Cvetković D¹, Glodović V², Radić G², Trifunović S², Marković S¹

¹Department of Biology and Ecology and ²Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

11.00-11.15

EVALUATION OF ANTIPROLIFERATIVE ACTIVITY OF NEW PALLADIUM COMPLEXES AND MECHANISM OF CELL DEATH ON HCT-116 AND MDA-MB-231 CELL LINES

Žižić JB¹, Čurčić MG¹, Obradović AD¹, Mrkalić E², Matović Z², Čendić M², Djurdjević P³, Živić D³, Marković SD¹

¹Department for Biology and Ecology and ²Department for Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, ³Department of Hematology, Clinical Centre Kragujevac, Kragujevac, Serbia

11.15-11.30

STRUCTURE-ACTIVITY RELATIONSHIPS OF 3-SUBSTITUTED-5,5-DIPHENYHYDANTOIS AS POTENTIAL ANTIPROLIFERATIVE AND ANTIMICROBIAL AGENTS

Obradović A¹, Trišović N², Božić B², Stefanović O¹, Marković S¹, Čomić Lj¹, Božić B³, Ušćumlić G²

¹Department of Biology, Faculty of Science, University of Kragujevac, Kragujevac, ²Department of Organic Chemistry, Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, ³Institute for Physiology and Biochemistry, Faculty of Biology, University of Belgrade, Belgrade, Serbia

11.30-12.00 Pause / Coffee break

Room A

SESSION 2: ANTIMICROBIAL, ANTIPROLIFERATIVE AND ANTIOXIDATIVE ASPECTS OF NATURAL ACTIVE SUBSTANCES

Chairmen: Čomić Lj, Kungulovski Dz, Vukojević J

12.00-12.20

ADVANCED DIAGNOSTIC METHODS FOR HUMAN BRUCELLOSIS

Taleski V, Kungulovski Dz

Institute of Biology, Faculty of Natural Sciences and Mathematics, University St's Cyril and Methodius, Skopje, FYR Macedonia

12.20-12.35

HYPERICIN AND PSEUDOHYPERICIN PRODUCTION IN ELICITED *Hypericum perforatum* L. CELL PROVIDES ANTIOXIDANT PROTECTION

Gadzovska-Simić S¹, Tuševski O¹, Stefova M², Kungulovski Dz³, Atanasova-Pančevska N³

¹Laboratory for Plant Cell and Tissue Culture, Institute of Biology, ²Department of Analytical Chemistry, Institute of Chemistry, ³Laboratory for Microbiology, Institute of Biology, Faculty of Natural Sciences and Mathematics, University "Ss. Cyril and Methodius", Skopje, FYR Macedonia.

12.35-12.50

ANTIMICROBIAL AND ANTIOXIDATIVE POTENTIAL OF *GANODERMA LUCIDUM* CULTIVATION BROTH

Simonić J¹, Kosanić M², Stajić M¹, Vukojević J¹, Ranković B²

¹Faculty of Biology, University of Belgrade, Belgrade, ²Faculty of Science, University of Kragujevac, Kragujevac, Serbia

12.50-13.00

ANTIBACTERIAL ACTIVITY OF PLANT EXTRACTS AND THEIR SYNERGISTIC EFFECTS WITH ANTIBIOTICS

Stefanović O, Radojević I, Čomić Lj

Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

13.00-13.10

***IN VITRO* ANTIMICROBIAL ACTIVITY OF METHANOL EXTRACTS FROM FIVE DIFFERENT SPECIES OF LICHEN**

Radojević I¹, Stefanović O¹, Stamenković S², Mitrović T², Cvetković V², Čomić Lj¹

¹Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, ²Department of Biology and Ecology, Faculty of Science and Mathematics, University of Niš, Niš, Serbia

13.10-13.20

ANTIOXIDATIVE ACTIVITIES OF GOLDMOSS STONECROP (*SEDUM ACRE* L.) PLANT EXTRACTS

Stanković M¹, Topuzović M¹, Solujić S², Vuković N², Nićiforović N², Mihailović V²

¹Department of Biology and Ecology and ²Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

13.20-13.30

**PHENOLIC CONTENT *IN VITRO* ANTIPROLIFERATIVE AND APOPTOTIC ACTIVITY
OF *TEUCRUM* SPECIES FROM SERBIAN FLORA ON HCT-116 CELL LINE**

Stanković M, Ćurčić M, Đačić D, Topuzović M, Marković S

*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,
Serbia*

13.30-15.00 Pause / Lunch

Room A

SYMPOSIUM “ANTI-CANCER AGENTS, CARDIOTOXICITY AND NEUROTOXICITY”

Organizers: Djurić D, Jakovljević V

Chairmen: Dhalla NS, Singal PK, Lopatina E

15.00-15.30

**ANTI-CANCER DRUGS AND HEART DISEASE: PATHOPHYSIOLOGY AND
PREVENTION**

Singal PK

*Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, University of
Manitoba, Winnipeg, Canada*

15.30-15.45

**HOMOCYSTEINE-INDUCED CARDIOTOXICITY IN RAT: FOCUS ON HEART
VARIABLES, CORONARY FLOW AND OXIDATIVE STRESS**

Djurić D¹, Živković V², Krstić D¹, Živković S¹, Djordjević D², Jakovljević V²

*¹Institute of Medical Physiology „Richard Burian“ and Institute of Medicinal Chemistry, School of
Medicine University of Belgrade, ²Department of Physiology, Faculty of Medicine, University of
Kragujevac, Belgrade/Kragujevac, Serbia*

15.45-16.00

**THE ROLE OF GASOTRANSMITTER NO IN HOMOCYSTEINE- AND LINDANE -
INDUCED NEUROTOXICITY**

Hrnčić D¹, Rašić – Marković A¹, Šušić V², Djurić D¹, Stanojlović O¹

*¹Institute of Medical Physiology “Richard Burian”, School of Medicine, University of Belgrade,
Belgrade, ²Serbian Academy of Sciences and Arts, Belgrade, Serbia*

16.00-16.15

**ANTIOXIDATIVE EFFECT OF TOTAL OLIVE LEAF EXTRACT IN EXPERIMENTAL
CEREBRAL ISHEMIA**

Radenović L

Institute for Physiology and Biochemistry, Faculty of Biology, University of Belgrade, Serbia

Chairmen: Krylov B, Kulchitsky V, Strbak V

16.15-16.30

STUDY OF IN VITRO SENSITIVITY OF TUMOR CELLS OF THE CENTRAL NERVOUS SYSTEM TO CHEMOTHERAPEUTIC DRUGS AND NERVE GROWTH FACTOR

Chernov AN¹, Kalunov VN¹, Talabaev MV², Grigoriev DG³, Demidchik YE⁴, Cherstvoy ED³, Kulchitsky VA¹

¹*Institute of Physiology, National Academy of Sciences of Belarus;* ²*Clinical Hospital of Fast Medical Support;* ³*Belarusian State Medical University;* ⁴*Belarusian Medical Academy of Post-Graduate Education, Minsk, Belarus*

16.30-16.45

STIMULATION OF INSULIN SECRETION IN TUMOR CELL LINES AND PANCREATIC ISLETS

Bačová Z^{1,3}, Hafko R¹, Orečná M¹, Kohút P², Hapala I², Štrbák V^{1,3}

¹*Institute of Experimental Endocrinology, SAS, Bratislava,* ²*Institute of Animal Biochemistry and Genetics, SAS, Ivanka pri Dunaji,* ³*Department of Pathological Physiology, Medical Faculty, Slovak Medical University, Bratislava, Slovak Republic*

16.45-17.00

IONIC MECHANISMS OF IMPULSE CODING IN THE NOCICEPTIVE MEMBRANE. CREATION OF NON-OPIOID ANALGESIC "ANOCEPTIN" AND "COLD" INFRARED LASER "CAMERTONE" FOR PAIN RELIEF

Krylov B

Pavlov Institute of Physiology, Russian Academy of Sciences, St.-Petersburg, Russia

17.00-17.15

ANOCEPTIN – PRECLINICAL AND CLINICAL TESTS RESULTS

Lopatina E

Department of Experimental Physiology and Pharmacology, Almazov Federal Heart, Blood and Endocrinology Centre, Laboratory of Physiology of Excitable Membranes, Pavlov Institute of Physiology, Russian Academy of Sciences, St. Petersburg, Russia

17.15-17.30

EFFECTS OF THIOACETAMIDE ON LIPID PEROXIDATION AND CATALASE ACTIVITY IN VARIOUS RAT BRAIN REGIONS

Mladenović D¹, Radosavljević T¹, Rašić-Marković A², Hrnčić D², Krstić D³, Čolović M⁴, Petrović S⁵, Stanojlović O²

¹*Department of Pathophysiology, School of Medicine, University of Belgrade,* ²*Department of Physiology „Richard Burian“, School of Medicine, University of Belgrade,* ³*Department of Medicinal Chemistry, School of Medicine, University of Belgrade,* ⁴*Department of Physical Chemistry, Vinča Institute of Nuclear Sciences, University of Belgrade,* ⁵*Laboratory of Molecular Biology and Endocrinology, Vinča Institute of Nuclear Sciences, University of Belgrade, Belgrade, Serbia*

17.30-17.45

NATURAL ANTIOXIDANTS IN THE PREVENTION OF DOXORUBICIN TOXICITY – NEW INSIGHTS

Dekanski D

Galenika a.d., Belgrade, Serbia

Friday, March 18th, 2011

Room A

**SESSION 3: CANCER RESEARCH AND APPLICATION IN ACTIVE SUBSTANCES
TESTING I**

Chairmen: Vignjević-Matić D, Baskić D, Geraldo S

09.00-09.20

**THE ROLE OF ACTIN CYTOSKELETON IN THE INVASION AND METASTASIS
FORMATION**

Schoumacher M, Louvard D, Vignjević D
Institut Curie/UMR144, Paris, France

09.20-09.40

**ACTIN BUNDLE ORGANISATION IS DISPENSABLE FOR INTESTINAL MICROVILLI
PROTRUSION BUT ESSENTIAL FOR APICAL ENZYME ANCHORING AND
INTESTINAL PHYSIOLOGY**

Ubelmann F, Revenu C, Hurbain I, Delacour D, Louvard D, Robine S
Institut Curie/UMR144, Paris, France

09.40-10.00

**THE ROLE OF FILOPODIA IN CANCER CELL INTERACTION WITH THE TUMOUR
MICROENVIRONMENT DURING INVASIVE MIGRATION**

Geraldo S, Zaccarini F, Fetler L, Louvard D, Vignjević D
Institut Curie/UMR144, Paris, France

10.00-10.20

ROLE OF FASCIN PHOSPHORYLATION IN CANCER CELL MIGRATION

Elkhatib N, Louvard D, Vignjević D
Institut Curie/UMR144, Paris, France

10.20-10.40

**NATURAL PRODUCT KORBAZOL EXERTS CYTOTOXICITY AGAINST HUMAN
COLON CARCINOMA CELL LINES**

Baskić D¹, Popović S¹, Zelen I², Djurdjević P³, Milovanović M¹, Volarević V¹, Arsenijević N¹
¹Department of Microbiology and Immunology, ²Department of Biochemistry, ³Department of
Pathophysiology, Faculty of Medicine, University of Kragujevac, Kragujevac, Serbia

10.40-11.00

**NEW JATROPHANES FROM *Euphorbia dendroides* L.: REVERSAL OF DRUG
RESISTANCE AND SYNERGISTIC INTERACTION WITH PACLITAXEL**

Pešić M¹, Aljančić I², Milosavljević S³, Todorović N², Jadranin M², Milosavljević G⁶, Povrenović
D⁷, Banković J¹, Marković I⁵, Tanić N¹, Ruždijić S¹, Vajs V², Tešević V⁴
¹Institute for Biological Research, University of Belgrade, Belgrade, ²Institute for Chemistry,
Technology and Metallurgy, University of Belgrade, Belgrade, ³Serbian Academy of Sciences and
Arts, Belgrade, ⁴Faculty for Chemistry, University of Belgrade, Belgrade, ⁵Faculty of Medicine,
University of Belgrade, Belgrade, ⁶Konekta Consulting, Novi Sad, ⁷Faculty of Technology and
Metallurgy, University of Belgrade, Belgrade, Serbia

11.00-11.30 Pause / Coffee break

Room A

**SESSION 4: CANCER RESEARCH AND APPLICATION IN ACTIVE SUBSTANCES
TESTING II**

Chairmen: Dubois T, Montagnac G, Jurišić V, Trajković V

11.30-11.50

**TUMOR AND MICROENVIRONMENT: THE ROLE OF PRESSURE IN CANCER
PROLIFERATION**

Montel F, Delarue M, Elgeti J, Vignjevic D, Cappello G, Prost J, Joanny F
Institut Curie/UMR 168, Paris, France

11.50-12.10

**DISSOCIATION BETWEEN ACTIVATION AND EFFECTOR-BINDING UNDERLIES
ARF6's FUNCTION IN ENDOCYTIC RECYCLING**

Montagnac G¹, Lemoyne de Forges H¹, Smythe E², Salamero J¹, Chavrier P¹
¹*Institut Curie/UMR144, Paris, France*, ²*University of Sheffield, Sheffield, England, UK*

12.10-12.30

LOOKING FOR THERAPEUTIC TARGETS IN TRIPLE-NEGATIVE BREAST CANCER

Dubois T
*Curie Institute, Research Centre, Translational Research Department, Breast Cancer Biology
Group, Paris, France*

12.30-12.50

**TNF- α MEDIATED SHEDDING OF CD45 AND CD30 FROM K-562 CELLS IS
ASSOCIATED WITH RELEASE OF LACTATE DEHYDROGENASE**

Jurišić V², Srdić T¹
¹*Institute of Oncology and Radiology of Serbia*, ²*School of Medicine, University of Kragujevac,
Kragujevac, Serbia*

12.50-13.05

**IN VITRO COMPARISON OF THE PHOTOTHERMAL ANTICANCER ACTIVITY OF
GRAPHENE NANOPARTICLES AND CARBON NANOTUBES**

Arsikin K¹, Marković Z², Harhaji-Trajković Lj³, Todorović-Marković B², Kepić D², Jovanović S²,
Pantović A¹, Dramićanin M², Trajković V¹
¹*School of Medicine, University of Belgrade*, ²*Vinca Institute of Nuclear Sciences, Belgrade*,
³*Institute for Biological Research, Belgrade, Serbia*

13.05-13.20

**SENSITIZATION OF GLIOMA CELLS TO SIMAVASTATIN-INDUCED APOPTOSIS BY
INHIBITION OF AMPK/AKT/mTOR-DEPENDENT AUTOPHAGY**

Janjetović K^{1,2}, Miskirkić M^{1,2}, Vučičević Lj^{1,2}, Harhaji-Trajković Lj¹, Šumarac-Dumanović M¹,
Mičić D¹, Trajković V¹
¹*School of Medicine, University of Belgrade*, ²*Institute for Biological Research, Belgrade, Serbia*

13.20-13.35

ANTITUMOR ACTIVITY OF SIDERITIS SCARDICA EXTRACTS AGAINST B-16 MOUSE MELANOMA CELLS

Jeremić I¹, Tadić V³, Stanojević Ž², Marković G³, Arsić I³, Bojović D³, Bumbaširević V², Isaković A²

¹Institute of Rheumatology and ²Institute of Clinical Biochemistry, School of Medicine, University of Belgrade, ³Institute for Medicinal Plant Research, Dr. Josif Pančić, Belgrade, Serbia

13.30-16.00 Pause / Lunch / Kragujevac tour

Room A

SESSION 5: PHARMACOLOGICAL AND GENOTOXIC ASPECTS OF ACTIVE SUBSTANCES

Chairmen: Janković S, Kouvelas D, Papazisis G

16.00-16.20

ENVIRONMENTAL RISK ASSESSMENT IN PRECLINICAL TESTING OF ACTIVE SUBSTANCES

Kouvelas D

School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

16.20-16.40

ANTICANCER CHEMOTHERAPEUTICS – SPECIAL CONSIDERATIONS REGARDING ENVIRONMENTAL RISK ASSESSMENT

Sardeli C

2nd Lab of Pharmacology, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

16.40-17.00

NEUROTOXICITY OF ANTICANCER AGENTS AND NEUROPROTECTIVE APPROACHES

Papazisis G

School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece

17.00-17.20

EFFECTS OF ENDOTHELINS ON ISOLATED ISTHMIC SEGMENT OF HUMAN OVIDUCT

Janković J¹, Janković S¹, Lukić G², Čanović D³, Folić M¹

¹Pharmacology Department, Medical Faculty, University of Kragujevac, Kragujevac, ²Gynecology & Obstetrics Clinic, Clinical Center, Kragujevac, ³Surgery Clinic, Clinical Center, Kragujevac, Serbia

17.20-17.35

THE EFFECTS OF MYOTREXATE ON THE VIABILITY OF THE UTERINE MYOMA *in vitro*

Kastratović T¹, Mitrović M², Nikolić I², Matović Z³, Arsenijević S¹

¹Gynecology Obstetrical Clinic, Clinical Center Kragujevac, Kragujevac, ²Department of Biochemistry, Medical Faculty, University of Kragujevac, Kragujevac, ³Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

17.35-17.50

DOSE-DEPENDENT EFFECTS OF POLYCYCLIC AROMATIC HYDROCARBONS ON THE MITOCHONDRIAL 18 kDa TRANSLOCATOR PROTEIN DENSITY (TSPO) IN STEROIDOGENIC ORGANS AND ANTIOXIDANT ENZYMES IN A RAT MODEL OF INDUCED CARCINOGENESIS

Dimitrova-Shumkovska J¹, Veenman L², Gavish M²

¹*Institute of Biology, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University Skopje, Skopje, FYR Macedonia,* ²*Rappaport Family Institute for Research in the Medical Science, Technion-Israel Institute of Technology, Department of Molecular Pharmacology, Haifa, Israel*

17.50-18.05

THE GENOTOXICITY OF HYDROXYAPATITE AND HYDROXYAPATITE WITH DICALCIUM SILICATE IN HUMAN PERIPHERAL LYMPHOCYTES

Opačić-Galić V¹, Petrović V¹, Živković S¹, Jokanović V², Mitić-Čulafić D³

¹*School of Dentistry, University of Belgrade,* ²*Institute for Nuclear Sciences Vinca, Belgrade,*

³*Chair of Microbiology, Faculty of Biology, University of Belgrade, Belgrade, Serbia*

18.05-18.20

ANTIGENOTOXIC/GENOTOXIC PROPERTIES OF PLANT MONOTERPENES

Nikolić B, Mitić-Čulafić D, Vuković-Gačić B, Knežević-Vukčević J

Faculty of Biology, University of Belgrade, Belgrade, Serbia

18.30-19.00 CONCLUDING REMARKS

19.00 GALA DINNER (Restaurant, Hotel „Šumarice“, Kragujevac)

POSTER SESSIONS

Thursday, March 17th, 2011

9.00-19.00 Poster Session 1

(The presence of poster authors is required from 14.00 to 16.00)

SESSION 1: ANTIMICROBIAL AND ANTIPROLIFERATIVE ASPECTS OF CHEMICAL AND NATURAL ACTIVE SUBSTANCES

Chairmen: Isaković A, Taleski V, Gazdovska-Simić S, Topuzović M

P1 SYNTHESIS, ANTITUMOR ACTIVITY AND QSAR STUDIES OF 4-AMINOMETHYLIDENE DERIVATIVES OF SOME PYRAZOL-5-ONES

Marković V¹, Erić S², Stanojković T³, Joksović M¹

¹*Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac,* ²*Faculty of Pharmacy, University of Belgrade, Belgrade,* ³*Institute of Oncology and Radiology of Serbia, Belgrade, Serbia*

P2 ANTITUMORAL ACTIVITY OF PLATINUM (IV) COMPLEX WITH O,O'-DIETHYL ESTER OF (S,S)-ETHYLENEDIAMINE-N,N'-DI-2-(4-METHYL)-PENTANOIC ACID DIHYDROCHORIDE

Vujić J¹, Milovanović M², Volarević V², Arsenijević N², Trifunović S³

¹Faculty of Agronomy, University of Kragujevac, Čačak, ²The Medical Faculty, University of Kragujevac, Kragujevac, ³Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P3 IN VITRO ANTITUMORAL ACTIVITY OF PLATINUM(II) COMPLEXES WITH O,O'-DIALKYL ESTERS OF (S,S)-ETHYLENEDIAMINE-N,N'-DI-2-(4-METHYL)PENTANOIC ACID ON CLL CELLS

Milovanović M¹, Volarević V¹, Vujić JM², Trifunović SR², Arsenijević N¹

¹Faculty of Medicine, University of Kragujevac, ²Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P4 ANTI-MELANOMA ACTION OF NOVEL Ru (II) COMPLEXES IN VITRO

Jovanović M¹, Savić A², Dulović M¹, Misirlić-Denčić S¹, Sabo T², Grgurić-Šipka S², Marković I¹

¹Faculty of Medicine, University of Belgrade, Belgrade, ²Faculty of Chemistry, University of Belgrade, Belgrade, Serbia

P5 ANTITUMOR EFFECT OF NOVEL POLYMERIC COPPER(II) COMPLEXES WITH PYRAZOLONE-TYPE LIGANDS IN VITRO

Isaković A¹, Leovac M², Marković I¹, Misirlić-Denčić S¹

¹Institute of Medical and Clinical Biochemistry, Faculty of Medicine, University of Belgrade, Belgrade, ²Faculty of Sciences, Department of Chemistry, University of Novi Sad, Novi Sad, Serbia

P6 ¹H NMR STUDY OF THE REACTIONS OF A METHIONINE- AND HISTIDINE-CONTAINING PEPTIDES WITH DIFFERENT ANTITUMOR ACTIVE PLATINUM(II) COMPLEXES

Drašković N¹, Ašanin D², Živković M², Rajković S²

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P7 IN VITRO ASSESSMENT OF THE ANTIMICROBIAL POTENTIAL OF ESSENTIAL OIL MIXTURE AGAINST SELECTED TYPES OF MICROORGANISMS

Kungulovski D, Atanasova-Pancevska N, Kungulovski I

Laboratory for Microbiology, Institute of Biology, Faculty of Natural Sciences and Mathematics, University "Ss. Cyril and Methodius", Skopje, FYR Macedonia

P8 PHENYLPROPANOID PRODUCTION IN *Hypericum perforatum* L. CELL CO-CULTIVATION WITH *Agrobacterium rhizogenes* A4

Gadzovska-Simić S¹, Tuševski O¹, Kungulovski Dz², Atanasova-Pancevska N², Stefova M³

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P9 LICHENS AS POSSIBLE ANTIMICROBIAL AGENTS

Kosanić M, Ranković B

Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P10 FREE-RADICAL SCAVENGING CAPACITY AND TOTAL PHENOLIC CONTENT OF FRAGRANT YELLOW ONION (*ALLIUM FLAVUM* L.)

Stanković M, Ćurčić M, Đačić D, Žižić J, Topuzović M, Marković S

Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P11 ANTIOXIDANT, ANTIPROLIFERATIVE AND APOPTOTIC ACTIVITY OF DIFFERENT EXTRACTS OF LEAVES AND SEED CONES FROM EUROPEAN YEW (*Taxus baccata* L.)

Ćurčić M, Stanković M, Đačić D, Topuzović M, Marković S

Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P12 *IN VITRO* ANTIPROLIFERATIVE ACTIVITY OF FIVE LICHENS SPECIES ON HCT-116 HUMAN COLON CELL LINE

Đačić D¹, Cvetković V², Stanković M¹, Ćurčić M¹, Mitrović T², Stamenković S², Marković S¹

¹*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,*

²*Department of Biology and Ecology, Faculty of Science and Mathematics, University of Niš, Niš, Serbia*

P13 CYTOTOXIC ACTIVITIES OF *UMBILICARIA CRUSTULOSA*, *PARMELIOPSIS AMBIGUA*, *UMBILICARIA POLYPHYLLA*, *LECANORA MURALIS* AND *PARMELIA SAXATIS* METHANOL EXTRACTS ON HUMAN COLON CANCER CELL LINE

Đačić D, Kosanić M, Ćurčić M, Ranković B, Marković S

Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

P14 EVALUATION OF REDOX STATUS OF HCT-116 CELL LINE TREATED WITH VARIOUS LICHEN AND PLANT EXTRACTS

Žižić J¹, Ćurčić M¹, Đačić D¹, Obradović A¹, Stanković M¹, Mitrović T², Kosanić M¹, Ranković B¹, Marković S¹

¹*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,*

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P15 *IN VITRO* ANTIBACTERIAL ACTIVITIES OF SOME *LAMIACEAE* ESSENTIAL OILS AGAINST HUMAN PATHOGENS

Stanković N¹, Čomić Lj², Miladinović D³, Mihajlov-Krstev T⁴, Mladenović M⁴

¹*Institute for Public Health, Niš,* ²*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,* ³*Faculty of Medicine, University of Niš,* ⁴*Department of*

Biology and Ecology, Faculty of Science and Mathematics, University of Niš, Niš, Serbia

Friday, March 18th, 2011

9.00-19.00 **Poster Session 2**

(The presence of poster authors is required from 14.00 to 16.00)

SESSION 2: CANCER RESEARCH AND APPLICATION IN ACTIVE SUBSTANCES TESTING

Chairmen: Elkhatab N, Pešić M, Tovilović G, Stankov K

P16 IN VIVO IMAGING OF CELL MIGRATION DURING INTESTINAL HOMEOSTASIS

Simon A, Louvard D, Vignjević D
Institut Curie/UMR144, Paris, France

P17 THE ROLE OF CARCINOMA-ASSOCIATED FIBROBLASTS IN THE INITIATION OF COLON CANCER CELL INVASION

Glentis A, Schoumacher M, Geraldo S, Louvard D, Vignjević D
Institut Curie /UMR144, Paris, France

P18 THE ROLE CARCINOMA-ASSOCIATED FIBROBLASTS IN DIRECTIONAL INVASION OF CANCER CELL

Zaccarini F, Geraldo S, Louvard D, Vignjević D
Institut Curie/UMR144, Paris, France

P19 DESIGNING NEW TOOLS TO STUDY THE DYNAMICS OF CLATHRIN AND MICROTUBULES

Kungulovski I¹, Montagnac G²
¹*Institute of Biology, Faculty of Natural Sciences and Mathematics, University "Ss. Cyril and Methodius", Skopje, FYR Macedonia,* ²*Institut Curie, Centre de Recherche, Paris, France*

P20 THE EFFECTS OF TUMOR-ASSOCIATED FIBROBLASTS ON MOTILITY OF COLLORECTAL CANCER CELLS

Matić M¹, Schoumacher M², Vignjević D²
¹*Institute of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia,* ²*Department of Cell Biology, Institut Curie, Paris, France*

P21 NATURAL PRODUCT KORBAZOL INDUCES APOPTOTIC CELL DEATH IN B-CELL CELLS THROUGH ROS-MEDIATED MECHANISMS

Popović S¹, Baskić D¹, Djurdjević P², Zelen I³, Arsenijević N¹
¹*Department of Microbiology and Immunology,* ²*Department of Pathophysiology,* ³*Department of Biochemistry, Faculty of Medicine, University of Kragujevac, Kragujevac, Serbia*

P22 CYTOTOXIC EFFECTS OF GLASS IONOMER CEMENTS ON HUMAN PULP DERIVED MESENCHYMAL STEM CELLS

Kanjevac T¹, Milovanović M², Volarević V², Arsenijević N²
¹*Department for Preventive and Pediatric Dentistry, Faculty of Medicine, University of Kragujevac,* ²*Department of Microbiology and Immunology, Centre for Molecular Medicine, Faculty of Medicine, University of Kragujevac, Kragujevac, Serbia*

P23 IN VITRO AND IN VIVO ANTI-MELANOMA ACTION OF METFORMIN

Pantović A¹, Janjetović K^{1,2}, Misirkić-Marjanović M^{1,2}, Vučićević Lj^{1,2}, Stevanović D¹, Harhaji-Trajković Lj², Sumarac-Dumanović M,¹ Mičić D¹, Trajković V¹
¹*School of Medicine, University of Belgrade, Serbia,* ²*Institute for Biological Research, Belgrade, Serbia*

P24 PACLITAXEL IN THE TREATMENT OF MULTI-DRUG RESISTANT NON-SMALL CELL LUNG CANCER, COLON CANCER AND GLIOBLASTOMA CELL LINES

Podolski-Renić A¹, Pešić M¹, Anđelković T¹, Banković J¹, Milinković V¹, Marković I², Tanić N¹, Ruždijić S¹
¹*Institute for Biological Research, Department of Neurobiology, University of Belgrade, Belgrade,* ²*Faculty of Medicine, University of Belgrade, Belgrade, Serbia*

P25 ANTIPROLIFERATIVE EFFECT OF LIGNIN MODEL COMPOUND AGAINST HUMAN CELL LINES

Radotić K¹, Andrijević Lj², Bogdanović J¹, Mutavdžić D¹, Bogdanović G²

¹Centre for Multidisciplinary Studies, University of Beograd, Beograd, Serbia, ²Institute of Oncology Sremska Kamenica, Sremska Kamenica, Serbia

P26 ALPHA-TOCOPHERYL SUCCINATE EFFECTS ON EHRlich ASCITES CARCINOMA CELLS

Stankov K¹, Bajin-Katić K¹, Stanimirov B¹, Mihajlović D¹, Kovačević Z²

¹Department of Biochemistry, Medical Faculty Novi Sad, ²Serbian Academy of Sciences and Arts, Branch in Novi Sad, Novi Sad, Serbia

P27 ARYLPIPERAZINE DOPAMINERGIC LIGANDS PREVENT NITRIC OXIDE-INDUCED MITOCHONDRIAL DAMAGE AND NEURONAL APOPTOSIS

Tovilović G¹, Šoškić V², Zogović N¹, Misirkić M^{1,3}, Janjetović K^{1,3}, Vučićević Lj^{1,3}, Trajković V³

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P28 BEHAVIORAL MANIFESTATIONS OF ACUTE THIOACETAMIDE-INDUCED HEPATIC ENCEPHALOPATHY IN RATS

Mladenović D¹, Rašić-Marković A², Radosavljević T¹, Hrnčić D², Krstić D³, Stanojlović O²

¹Department of Pathophysiology, School of Medicine, University of Belgrade, ²Department of Physiology „Richard Burian“, School of Medicine, University of Belgrade, ³Department of Medicinal Chemistry, School of Medicine, University of Belgrade, Belgrade, Serbia

P29 OXIDATIVE STRESS IN HEMODIALYSIS PATIENTS: THE ROLE OF EXTRACELLULAR MYELOPEROXIDASE

Kisić B¹, Mirić D¹, Stanić M², Dragojević I¹, Stolić A³

¹Institute of Biochemistry, Faculty of Medicine, Kosovska Mitrovica, ²Centre of Medical Biochemistry, Health Centre Kosovska Mitrovica, ³Institute for Preventive Medicine, Faculty of Medicine, Kosovska Mitrovica, Serbia

P30 THE EFFECT OF ERYTHROPOIETIN THERAPY ON NITRIC OXIDE LEVEL IN PATIENTS WITH END STAGE RENAL DISEASE

Dejanova B¹, Petrovska S¹, Dejanov P², Antevska V¹

¹Institute of Physiology, ²Clinic of Nephrology, Medical Faculty, University of Skopje, Skopje, FYR Macedonia

P31 POSSIBLE BLOOD VESSEL IMPAIRMENT MARKERS IN CHRONIC DISEASES

Dejanova S

Medical Faculty, University of Skopje, Skopje, FYR Macedonia

P32 EVALUATION OF ESTRADIOL LEVEL AND SERUM LIPIDS IN WHITE WISTAR RATS OF FEMALE GENDER DURING THEIR GENERATIVE LIFE

Petrovska S, Dejanova B, Antevska V

Institute of Physiology, Medical Faculty, University "St. Cyrilus and Methodius", Skopje, FYR Macedonia

P33 THE ANTIOXIDATIVE EFFECTS OF ESTRADIOL THERAPY ON ERYTHROCYTES I WOMEN WITH PREECLAMPSIA

Djordjević N¹, Babić G², Marković S¹, Ognjanović B¹, Štajn A¹, Saičić Z³

¹*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,*
²*Medical Faculty, University of Kragujevac, Kragujevac,* ³*Department of Physiology, Institute for Biological Research "Siniša Stanković", University of Belgrade, Belgrade, Serbia*

P34 LIVER DAMAGE AND REGENERATIVE RESPONSE IN RATS TREATED WITH THIOACETAMIDE

Puškaš N¹, Mladenović D², Radosavljević T², Rašić-Marković A³, Hrnčić D³, Macut Dj⁴, Šušić V⁵, Stanojlović O³

¹*Institute of Histology and Embryology „Aleksandar Đ. Kostić“ School of Medicine, University of Belgrade,* ²*Department of Pathophysiology, School of Medicine, University of Belgrade,* ³*Department of Physiology „Richard Burian“, School of Medicine, University of Belgrade,* ⁴*Institute of Endocrinology, Diabetes and Metabolic Diseases, School of Medicine, University of Belgrade,* ⁵*Serbian Academy of Sciences and Arts, Belgrade, Serbia*

P35 INFORMATION SYSTEM FOR SUPPORT OF THE CPCTAS

Cvjetković V, Djokić M, Marinković M

Department for Informatics, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

CONFERENCE DATE

March 16-18, 2011

CONFERENCE VENUE

Hotel Šumarice, Kragujevac, Serbia
(Participation upon registration only)

CONFERENCE DESK & REGISTRATION

The conference desk will be open on:

March 16th 14.30 – 19.30

March 17th 9.00 – 18.00

March 18th 8.00 – 19.00

REGISTRATION FEE (before March 10th 2011 or after March 10th 2011)

PARTICIPANTS 40 € or 60 €

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Full registration fee includes admission to all scientific sessions, opening ceremony, welcome reception, cocktail, Kragujevac tour, Gala dinner and receiving Abstract Book.

ORAL PRESENTATIONS

Plenary lecture speakers are allocated 30 min for presentation. All other speakers are kindly requested to keep their presentation 15 minutes maximal with discussion time.

POSTER PRESENTATIONS

Two interactive poster sessions will be held during the congress. Authors are requested to mount their posters from 9.00 to 18.30 on the day of the poster presentation. Poster size should be 120 height) cm x 80 (width) cm. Poster figures should be designed to be viewed from a distance and the authors should use clear, visible graphics and large text fonts. Material for mounting posters will be provided in the poster area. Authors are requested to be present by their posters during the poster session for which their poster has been scheduled (14.00 – 16.00).

AUDIOVISUAL FACILITIES

Video beam projection will be available in the conference room for the sessions, plenary lectures and oral presentations. Presentations should be prepared in "Power Point" (*.ppt file).

OFFICIAL LANGUAGE

Official language will be English. No simultaneous translation will be provided. All abstracts will be published in English.

COFFEE, REFRESHMENT AND LUNCH

Coffee, refreshment and lunch will be served upon request on commercial basis and it will be on the responsibility of the participants.

SOCIAL PROGRAM

The social program will include convivial (welcome reception, cocktails, Gala dinner) and cultural (city tours, visits to museums etc.) events; only the first will be covered by the registration fee. Please contact congress desk for cultural visits or special inquiries. Gala dinner will be organized on Friday evening (March 18th 2011).

CANCELLATION AND REFUNDS

Notification of cancellation should be sent in writing to Program/Organizing Committee. If a cancellation is received before March 14th 2011, 70% of the total amount will be refunded to the participant. We regret that no refunds can be given for cancellations received on or after that date. Please note that for administrative reasons, refunds will be dealt with after the Congress.

ACCOMMODATION/CONTACT

Hotel accommodation and arrival/departure service will be reserved in different price categories in Kragujevac at special rates. For making hotel reservation at special rates, please contact anaobradovic@kg.ac.rs. Confirmation will be sent upon receipt of payment. In order to receive an e-mail confirmation, please indicate your e-mail address.

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