

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**

**<http://cpctas.pmf.kg.ac.rs/conference>  
<http://www.physiology.org.rs/eng/htm/konf2011/program.pdf>**

**MARCH 16-19, 2011, KRAGUJEVAC, SERBIA**

## 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**

**Marković S**, Kragujevac, *Program/Organizing Committee Chairman*  
**Baskić D**, Kragujevac, *Program/Organizing Committee Co-Chairman*  
**Jakovljević V**, Kragujevac, *Program/Organizing Committee Co-Chairman*  
**Djurić D**, Belgrade, *Program Committee Co-Chairman & Symposium Organizer*

## **INTERNATIONAL PROGRAM COMMITTEE**

<b>Dhalla N</b> , Winnipeg, Canada	<b>Montagnac G</b> , Paris, France
<b>Dubois T</b> , Paris, France	<b>Krylov B</b> , St. Petersburg, Russia
<b>Duffy S</b> , Paris, France	<b>Kulchitsky V</b> , Minsk, Belarus
<b>Elkhatib N</b> , Paris	<b>Papazisis G</b> , Thessaloniki, Greece
<b>Geraldo S</b> , Paris, France	<b>Rakić Lj</b> , SASA, Serbia
<b>Hourdakis M</b> , Thessaloniki, Greece	<b>Sardeli C</b> , Thessaloniki, Greece
<b>Kouvelas D</b> , Thessaloniki, Greece	<b>Singal P</b> , Winnipeg, Canada
<b>Kungulovski D</b> , Skopje, FYR Macedonia	<b>Strbak V</b> , Bratislava, Slovakia
<b>Lopatina E</b> , St. Petersburg, Russia	<b>Šušić V</b> , SASA, Serbia
<b>Louvard D</b> , Paris, France	<b>Vignjević-Matić D</b> , Paris, France
<b>Lukić M</b> , Kragujevac, Serbia	

## **LOCAL PROGRAM/ORGANIZING COMMITTEE**

<b>Arsenijević N</b> , Kragujevac	<b>Ognjanovic B</b> , Kragujevac
<b>Cvjetković V</b> , Kragujevac	<b>Obradović A</b> , Kragujevac
<b>Čomić Lj</b> , Kragujevac	<b>Popović S</b> , Kragujevac
<b>Dimitrijević V</b> , Kragujevac	<b>Radojević I</b> , Kragujevac
<b>Đačić D</b> , Kragujevac	<b>Štajn A</b> , Kragujevac
<b>Đorđević N</b> , Kragujevac	<b>Stefanović O</b> , Kragujevac
<b>Janković S</b> , Kragujevac	<b>Trifunović S</b> , Kragujevac
<b>Jovanović I</b> , Kragujevac	<b>Vasić G</b> , Kragujevac
<b>Milošev M</b> , Kragujevac	<b>Volarević V</b> , Kragujevac
<b>Milovanović M</b> , Kragujevac	<b>Žižić J</b> , Kragujevac
<b>Milovanović D</b> , 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*

12.30-12.45

**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*

12.45-13.15

**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*

13.15-13.30

**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 M<sup>1</sup>, Radić G<sup>1</sup>, Glodović V<sup>1</sup>, Radojević I<sup>2</sup>, Stefanović O<sup>2</sup>, Čomić Lj<sup>2</sup>, Trifunović S<sup>1</sup>

<sup>1</sup>Department of Chemistry and <sup>2</sup>Department 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 I<sup>1</sup>, Stefanović O<sup>1</sup>, Radić G<sup>2</sup>, Glodović V<sup>2</sup>, Čomić Lj<sup>1</sup>, Trifunović S<sup>2</sup>

<sup>1</sup>Department of Biology and Ecology and <sup>2</sup>Department 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 V<sup>1</sup>, Milovanović M<sup>1</sup>, Djeković A<sup>2</sup>, Petrović B<sup>2</sup>, Arsenijević N<sup>1</sup>, Bugarčić ZD<sup>2</sup>

<sup>1</sup>Department of Microbiology and Immunology, Centre for Molecular Medicine, Faculty of Medicine, University of Kragujevac; <sup>2</sup>Department 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**

Dačić D<sup>1</sup>, Cvetković D<sup>1</sup>, Glodović V<sup>2</sup>, Radić G<sup>2</sup>, Trifunović S<sup>2</sup>, Marković S<sup>1</sup>

<sup>1</sup>Department of Biology and Ecology and <sup>2</sup>Department 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 JB<sup>1</sup>, Ćurčić MG<sup>1</sup>, Obradović AD<sup>1</sup>, Mrkalić E<sup>2</sup>, Matović Z<sup>2</sup>, Ćendić M<sup>2</sup>, Djurdjević P<sup>3</sup>, Živić Ž<sup>3</sup>, Marković SD<sup>1</sup>

<sup>1</sup>Department for Biology and Ecology and <sup>2</sup>Department for Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, <sup>3</sup>Department 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 A<sup>1</sup>, Trišović N<sup>2</sup>, Božić B<sup>2</sup>, Stefanović O<sup>1</sup>, Marković S<sup>1</sup>, Čomić Lj<sup>1</sup>, Božić B<sup>3</sup>, Ušćumlić G<sup>2</sup>

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

**11.30-12.00 Pause / Coffee break**

**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<sup>1</sup>, Kungulovski D<sup>1</sup>

<sup>1</sup>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 S<sup>1</sup>, Tuševski O<sup>1</sup>, Stefova M<sup>2</sup>, Kungulovski Dz<sup>3</sup>, Atanasova-Pancevska N<sup>3</sup>  
<sup>1</sup>Laboratory for Plant Cell and Tissue Culture, Institute of Biology, <sup>2</sup>Department of Analytical Chemistry, Institute of Chemistry, <sup>3</sup>Laboratory 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 J<sup>1</sup>, Kosanić M<sup>2</sup>, Stajić M<sup>1</sup>, Vukojević J<sup>1</sup>, Ranković B<sup>2</sup>  
<sup>1</sup>Faculty of Biology, University of Belgrade, Belgrade, <sup>2</sup>Faculty 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 I<sup>1</sup>, Stefanović O<sup>1</sup>, Stamenković S<sup>2</sup>, Mitrović T<sup>2</sup>, Cvetković V<sup>2</sup>, Čomić Lj<sup>1</sup>  
<sup>1</sup>Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, <sup>2</sup>Department 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 M<sup>1</sup>, Topuzović M<sup>1</sup>, Solujić S<sup>2</sup>, Vuković N<sup>2</sup>, Nićiforović N<sup>2</sup>, Mihailović V<sup>2</sup>  
<sup>1</sup>Department of Biology and Ecology and <sup>2</sup>Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia.

13.20-13.30

**PHENOLIC CONTENT *IN VITRO* ANTIPROLIFERATIVE AND APOPTOTIC ACTIVITY OF *TEUCRIUM* 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**

**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 D<sup>1</sup>, Živković V<sup>2</sup>, Krstić D<sup>1</sup>, Živković S<sup>1</sup>, Djordjević D<sup>2</sup>, Jakovljević V<sup>2</sup>

*<sup>1</sup>Institute of Medical Physiology „Richard Burian“ and Institute of Medicinal Chemistry, School of Medicine University of Belgrade, <sup>2</sup>Department 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 D<sup>1</sup>, Rašić – Marković A<sup>1</sup>, Šušić V<sup>2</sup>, Djurić D<sup>1</sup>, Stanojlović O<sup>1</sup>

*<sup>1</sup>Institute of Medical Physiology “Richard Burian”, School of Medicine, University of Belgrade, Belgrade, <sup>2</sup>Serbian 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 AN<sup>1</sup>, Kalunov VN<sup>1</sup>, Talabaev MV<sup>2</sup>, Grigoriev DG<sup>3</sup>, Demidchik YE<sup>4</sup>, Cherstvoy ED<sup>3</sup>, Kulchitsky VA<sup>1</sup>

*<sup>1</sup>Institute of Physiology, National Academy of Sciences of Belarus; <sup>2</sup>Clinical Hospital of Fast Medical Support; <sup>3</sup>Belarusian State Medical University; <sup>4</sup>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<sup>1,3</sup>, Hafko R<sup>1</sup>, Orečná M<sup>1</sup>, Kohút P<sup>2</sup>, Hapala I<sup>2</sup>, Štrbák V<sup>1,3</sup>

*<sup>1</sup>Institute of Experimental Endocrinology, SAS, Bratislava, <sup>2</sup>Institute of Animal Biochemistry and Genetics, SAS, Ivanka pri Dunaji, <sup>3</sup>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 D<sup>1</sup>, Radosavljević T<sup>1</sup>, Rašić-Marković A<sup>2</sup>, Hrnčić D<sup>2</sup>, Krstić D<sup>3</sup>, Čolović M<sup>4</sup>, Petrović S<sup>5</sup>, Stanojlović O<sup>2</sup>

*<sup>1</sup>Department of Pathophysiology, School of Medicine, University of Belgrade, <sup>2</sup>Department of Physiology „Richard Burian“, School of Medicine, University of Belgrade, <sup>3</sup>Department of Medicinal Chemistry, School of Medicine, University of Belgrade, <sup>4</sup>Department of Physical Chemistry, Vinča Institute of Nuclear Sciences, University of Belgrade, <sup>5</sup>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**

**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 D<sup>1</sup>, Popović S<sup>1</sup>, Zelen I<sup>2</sup>, Djurdjević P<sup>3</sup>, Milovanović M<sup>1</sup>, Volarević V<sup>1</sup>, Arsenijević N<sup>1</sup>  
<sup>1</sup>*Department of Microbiology and Immunology, <sup>2</sup>Department of Biochemistry, <sup>3</sup>Department 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 M<sup>1</sup>, Aljančić I<sup>2</sup>, Milosavljević S<sup>3</sup>, Todorović N<sup>2</sup>, Jadranin M<sup>2</sup>, Milosavljević G<sup>6</sup>, Povrenović D<sup>7</sup>, Banković J<sup>1</sup>, Marković I<sup>5</sup>, Tanić N<sup>1</sup>, Ruždijić S<sup>1</sup>, Vajs V<sup>2</sup>, Tešević V<sup>4</sup>  
<sup>1</sup>*Institute for Biological Research, University of Belgrade, Belgrade, <sup>2</sup>Institute for Chemistry, Technology and Metallurgy, University of Belgrade, Belgrade, <sup>3</sup>Serbian Academy of Sciences and Arts, Belgrade, <sup>4</sup>Faculty for Chemistry, University of Belgrade, Belgrade, <sup>5</sup>Faculty of Medicine, University of Belgrade, Belgrade, <sup>6</sup>Konekta Konsalting, Novi Sad, <sup>7</sup>Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia*

**11.00-11.30 Pause / Coffee break**

**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

**DISSOCIACION BETWEEN ACTIVATION AND EFFECTOR-BINDING UNDERLIES ARF6's FUNCTION IN ENDOCYTTIC RECYCLING**

Montagnac G<sup>1</sup>, Lemoyne de Forges H<sup>1</sup>, Smythe E<sup>2</sup>, Salamero J<sup>1</sup>, Chavrier P<sup>1</sup>

<sup>1</sup>*Institut Curie/UMR144, Paris, France, <sup>2</sup>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- $\alpha$  MEDIATED SHEDDING OF CD45 AND CD30 FROM K-562 CELLS IS ASSOCIATED WITH RELEASE OF LACTATE DEHYDROGENASE**

Jurišić V<sup>2</sup>, Srdić T<sup>1</sup>

<sup>1</sup>*Institute of Oncology and Radiology of Serbia*, <sup>2</sup>*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 K<sup>1</sup>, Marković Z<sup>2</sup>, Harhaji-Trajković Lj<sup>3</sup>, Todorović-Marković B<sup>2</sup>, Kepić D<sup>2</sup>, Jovanović S<sup>2</sup>, Pantović A<sup>1</sup>, Dramićanin M<sup>2</sup>, Trajković V<sup>1</sup>

<sup>1</sup>*School of Medicine, University of Belgrade*, <sup>2</sup>*Vinca Institute of Nuclear Sciences, Belgrade*, <sup>3</sup>*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<sup>1,2</sup>, Misirkić M<sup>1,2</sup>, Vučićević Lj<sup>1,2</sup>, Harhaji-Trajković Lj<sup>1</sup>, Šumarac-Dumanović M<sup>1</sup>, Mičić D<sup>1</sup>, Trajković V<sup>1</sup>

<sup>1</sup>*School of Medicine, University of Belgrade*, <sup>2</sup>*Institute for Biological Research, Belgrade, Serbia*

13.20-13.35

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

Jeremić I<sup>1</sup>, Tadić V<sup>3</sup>, Stanojević Ž<sup>2</sup>, Marković G<sup>3</sup>, Arsić I<sup>3</sup>, Bojović D<sup>3</sup>, Bumbaširević V<sup>2</sup>, Isaković A<sup>2</sup>

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

**13.30-16.00 Pause / Lunch / Kragujevac tour**

**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 - ASPECTS OF ENVIRONMENTAL RISK ASSESSMENT**

Sardeli C

*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 J<sup>1</sup>, Janković S<sup>1</sup>, Lukić G<sup>2</sup>, Čanović D<sup>3</sup>, Folić M<sup>1</sup>

<sup>1</sup>*Pharmacology Department, Medical Faculty, University of Kragujevac, Kragujevac,*

<sup>2</sup>*Gynecology & Obstetrics Clinic, Clinical Center, Kragujevac,* <sup>3</sup>*Surgery Clinic, Clinical Center, Kragujevac, Serbia*

17.20-17.35

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

Kastratović T<sup>1</sup>, Mitrović M<sup>2</sup>, Nikolić I<sup>2</sup>, Matović Z<sup>3</sup>, Arsenijević S<sup>1</sup>

<sup>1</sup>*Gynecology Obstetrical Clinic, Clinical Center Kragujevac, Kragujevac,* <sup>2</sup>*Department of Biochemistry, Medical Faculty, University of Kragujevac, Kragujevac,* <sup>3</sup>*Faculty of Chemistry, 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 J<sup>1</sup>, Veenman L<sup>2</sup>, Gavish M<sup>2</sup>

<sup>1</sup>*Institute of Biology, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University Skopje, Skopje, FYR Macedonia,* <sup>2</sup>*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 V<sup>1</sup>, Petrović V<sup>1</sup>, Živković S<sup>1</sup>, Jokanović V<sup>2</sup>, Mitić-Ćulafić D<sup>3</sup>

<sup>1</sup>*School of Dentistry, University of Belgrade,* <sup>2</sup>*Institute for Nuclear Sciences Vinca, Belgrade,* <sup>3</sup>*Chair of Microbiology, Faculty of Biology, University of Belgrade, Belgrade, Serbia*

18.05-18.20

**ANTIGENOTOXIC/GENOTOXIC PROPERTIES OF PLANT MONOTERPENES**

Nikolić B, Mitić-Ćulafić 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 V<sup>1</sup>, Erić S<sup>2</sup>, Stanojković T<sup>3</sup>, Joksović M<sup>1</sup>

<sup>1</sup>Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac,

<sup>2</sup>Faculty of Pharmacy, University of Belgrade, Belgrade, <sup>3</sup>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 J<sup>1</sup>, Milovanović M<sup>2</sup>, Volarević V<sup>2</sup>, Arsenijević N<sup>2</sup>, Trifunović S<sup>3</sup>

<sup>1</sup>Faculty of Agronomy, University of Kragujevac, Čačak, <sup>2</sup>The Medical Faculty, University of Kragujevac, Kragujevac, <sup>3</sup>Department 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 M<sup>1</sup>, Volarević V<sup>1</sup>, Vujić JM<sup>2</sup>, Trifunović SR<sup>2</sup>, Arsenijević N<sup>1</sup>

<sup>1</sup>Faculty of Medicine, University of Kragujevac, <sup>2</sup>Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

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

Jovanović M<sup>1</sup>, Savić A<sup>2</sup>, Dulović M<sup>1</sup>, Misirlić-Denčić S<sup>1</sup>, Sabo T<sup>2</sup>, Grgurić-Šipka S<sup>2</sup>, Marković I<sup>1</sup>

<sup>1</sup>Faculty of Medicine, University of Belgrade, Belgrade, <sup>2</sup>Faculty of Chemistry, University of Belgrade, Belgrade, Serbia

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

Isaković A<sup>1</sup>, Leovac M<sup>2</sup>, Marković I<sup>1</sup>, Misirlić-Denčić S<sup>1</sup>

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

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

Dražković N<sup>1</sup>, Ašanin D<sup>2</sup>, Živković M<sup>2</sup>, Rajković S<sup>2</sup>

<sup>1</sup>Faculty of Agriculture, University of Priština, Zubin Potok, <sup>2</sup>Department of Chemistry, Faculty of Science, University of Kragujevac, Kragujevac, Serbia

**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 S<sup>1</sup>, Tusevski O<sup>1</sup>, Kungulovski Dz<sup>2</sup>, Atanasova-Pancevska N<sup>2</sup>, Stefova M<sup>3</sup>  
<sup>1</sup>*Laboratory for Plant Cell and Tissue Culture, Institute of Biology,* <sup>2</sup>*Laboratory for Microbiology, Institute of Biology,* <sup>3</sup>*Department of Analytical Chemistry, Institute of Chemistry, Faculty of Natural Sciences and Mathematics, University "Ss. Cyril and Methodius", Skopje, FYR Macedonia*

**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 D<sup>1</sup>, Cvetković V<sup>2</sup>, Stanković M<sup>1</sup>, Ćurčić M<sup>1</sup>, Mitrović T<sup>2</sup>, Stamenković S<sup>2</sup>, Marković S<sup>1</sup>  
<sup>1</sup>*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,* <sup>2</sup>*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 J<sup>1</sup>, Ćurčić M<sup>1</sup>, Đačić D<sup>1</sup>, Obradović A<sup>1</sup>, Stanković M<sup>1</sup>, Mitrović T<sup>2</sup>, Kosanić M<sup>1</sup>, Ranković B<sup>1</sup>, Marković S<sup>1</sup>  
<sup>1</sup>*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac,* <sup>2</sup>*Faculty of Natural Sciences and Mathematics, University of Niš, Niš, Serbia*

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

Stanković N<sup>1</sup>, Čomić Lj<sup>2</sup>, Miladinović D<sup>3</sup>, Mihajlov-Krstev T<sup>4</sup>, Mladenović M<sup>4</sup>

<sup>1</sup>Institute for public health, Niš, <sup>2</sup>Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, <sup>3</sup>Faculty of Medicine, University of Niš, <sup>4</sup>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: Schoumacher M, 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 I<sup>1</sup>, Montagnac G<sup>2</sup>

<sup>1</sup>Institute of Biology, Faculty of Natural Sciences and Mathematics, University "Ss. Cyril and Methodius", Skopje, FYR Macedonia, <sup>2</sup>Institut Curie, Centre de Recherche, Paris, France

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

Matić M<sup>1</sup>, Schoumacher M<sup>2</sup>, Vignjević D<sup>2</sup>

<sup>1</sup>Institute of Biology and Ecology, Faculty of Science, University of Kragujevac, Serbia, <sup>2</sup>Department of Cell Biology, Institut Curie, Paris, France

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

Popović S<sup>1</sup>, Baskić D<sup>1</sup>, Djurdjević P<sup>2</sup>, Zelen I<sup>3</sup>, Arsenijević N<sup>1</sup>

<sup>1</sup>Department of Microbiology and Immunology, <sup>2</sup>Department of Pathophysiology,

<sup>3</sup>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 T<sup>1</sup>, Milovanović M<sup>2</sup>, Volarević V<sup>2</sup>, Arsenijević N<sup>2</sup>

<sup>1</sup>Department for Preventive and Pediatric Dentistry, Faculty of Medicine, University of Kragujevac, <sup>2</sup>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 A<sup>1</sup>, Janjetović K<sup>1,2</sup>, Misirkić-Marjanović M<sup>1,2</sup>, Vučićević Lj<sup>1,2</sup>, Stevanović D<sup>1</sup>, Harhaji-Trajković Lj<sup>2</sup>, Sumarac-Dumanović M,<sup>1</sup> Mičić D<sup>1</sup>, Trajković V<sup>1</sup>

<sup>1</sup>School of Medicine, University of Belgrade, Serbia, <sup>2</sup>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 A<sup>1</sup>, Pešić M<sup>1</sup>, Anđelković T<sup>1</sup>, Banković J<sup>1</sup>, Milinković V<sup>1</sup>, Marković I<sup>2</sup>, Tanić N<sup>1</sup>, Ruždijić S<sup>1</sup>

<sup>1</sup>Institute for Biological Research, Department of Neurobiology, University of Belgrade, Belgrade, <sup>2</sup>Faculty of Medicine, University of Belgrade, Belgrade, Serbia

**P25 ANTIPROLIFERATIVE EFFECT OF LIGNIN MODEL COMPOUND AGAINST HUMAN CELL LINES**

Radotić K<sup>1</sup>, Andrijević Lj<sup>2</sup>, Bogdanović J<sup>1</sup>, Mutavdžić D<sup>1</sup>, Bogdanović G<sup>2</sup>

<sup>1</sup>Centre for Multidisciplinary Studies, University of Beograd, Beograd, Serbia, <sup>2</sup>Institute of Oncology Sremska Kamenica, Sremska Kamenica, Serbia

**P26 ALPHA-TOCOPHERYL SUCCINATE EFFECTS ON EHRlich ASCITES CARCINOMA CELLS**

Stankov K<sup>1</sup>, Bajin-Katić K<sup>1</sup>, Stanimirov B<sup>1</sup>, Mihajlović D<sup>1</sup>, Kovacević Z<sup>2</sup>

<sup>1</sup>Department of Biochemistry, Medical Faculty Novi Sad, <sup>2</sup>Serbian 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 G<sup>1</sup>, Vukić Šoškić<sup>2</sup>, Zogović N<sup>1</sup>, Misirkić M<sup>1,3</sup>, Janjetović K<sup>1,3</sup>, Vučićević Lj<sup>1,3</sup>, Trajković V<sup>3</sup>

<sup>1</sup>Institute for Biological Research, Belgrade, <sup>2</sup>Proteosys AG, Mainz, Germany, <sup>3</sup>School of Medicine, University of Belgrade, Belgrade, Serbia

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

Mladenović D<sup>1</sup>, Rašić-Marković A<sup>2</sup>, Radosavljević T<sup>1</sup>, Hrnčić D<sup>2</sup>, Krstić D<sup>3</sup>, Stanojlović O<sup>2</sup>

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

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

Kisić B<sup>1</sup>, Mirić D<sup>1</sup>, Stanić M<sup>2</sup>, Dragojević I<sup>1</sup>, Stolić A<sup>3</sup>

<sup>1</sup>Institute of Biochemistry, Faculty of Medicine, Kosovska Mitrovica, <sup>2</sup>Centre of Medical Biochemistry, Health Centre Kosovska Mitrovica, <sup>3</sup>Institute 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 B<sup>1</sup>, Petrovska S<sup>1</sup>, Dejanov P<sup>2</sup>, Antevska V<sup>1</sup>

<sup>1</sup>*Institute of Physiology, <sup>2</sup>Clinic 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 IN WOMEN WITH PREECLAMPSIA**

Djordjević N<sup>1</sup>, Babić G<sup>2</sup>, Marković S<sup>1</sup>, Ognjanović B<sup>1</sup>, Štajn A<sup>1</sup>, Saičić Z<sup>3</sup>

<sup>1</sup>*Department of Biology and Ecology, Faculty of Science, University of Kragujevac, Kragujevac, <sup>2</sup>Medical Faculty, University of Kragujevac, Kragujevac, <sup>3</sup>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 N<sup>1</sup>, Mladenović D<sup>2</sup>, Radosavljević T<sup>2</sup>, Rašić-Marković A<sup>3</sup>, Hrnčić D<sup>3</sup>, Macut Dj<sup>4</sup>, Šušić V<sup>5</sup>, Stanojlović O<sup>3</sup>

<sup>1</sup>*Institute of Histology and Embryology „Aleksandar Đ. Kostić“ School of Medicine, University of Belgrade, <sup>2</sup>Department of Pathophysiology, School of Medicine, University of Belgrade, <sup>3</sup>Department of Physiology „Richard Burian“, School of Medicine, University of Belgrade, <sup>4</sup>Institute of Endocrinology, Diabetes and Metabolic Diseases, School of Medicine, University of Belgrade, <sup>5</sup>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*

## **REGISTRATION FEE** (before February 1st 2011 or after February 1st 2011)

PARTICIPANTS	40 € or 0 €
MEMBERS OF THE SERBIAN PHYSIOLOGICAL SOCIETY (confirmation of regularly paid membership fee for 2009 and 2010)	30 € or 50 €
STUDENTS ( <u>only undergraduates</u> )	*free of charge
*Certificate required	

### **NOTICE:**

For attendees from abroad – payment in Euro to account following instructions of the Organizing Secretariat.

Full registration includes admission to all scientific sessions, opening ceremony, welcome reception, cocktail and receiving Final Program & Abstract Book.

### **OFFICIAL LANGUAGE**

Official language will be Serbian and 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 in a restaurant of Hotel Šumarice Kragujevac and it will be on the responsibility of the participants.

### **SOCIAL PROGRAM**

The social program will include convivial (welcome reception, cocktail) and cultural (city tours, monasteries tour, visit to museums, etc) events. Exciting social events will be offered (joint dinner with multinational music, Kragujevac tour, visit of Museums etc.). For more details, please contact [anaobradovic@kg.ac.rs](mailto:anaobradovic@kg.ac.rs). Gala dinner is not included in registration and tickets should be provided with additional cost of 15 Euro per person.

### **CANCELLATION AND REFUNDS**

Notification of cancellation should be sent in writing to Program/Organizing Committee. If a cancellation is received before February 15<sup>th</sup> 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 Conference.

### **AUDIOVISUAL FACILITIES**

For the oral presentations, video beam projections will be available in each conference room. Presentations should be prepared in „Power Point“(\*.ppt file). For special audiovisual facilities, please send in advance a special request to the Program Secretariat.

### **POSTER INSTRUCTIONS**

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.

## **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](mailto: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.

## **IMPORTANT INFORMATION**

Symposium date: March 16-19, 2011

Conference Venue: Hotel „Šumarice“, Kragujevac, Serbia

## **FOR OTHER INQUIRES PLEASE CONTACT:**

Snežana Markovic, Ph.D.

Department for Biology and Ecology

Faculty of Science, University of Kragujevac

str. Radoja Domanovica 12

34000 Kragujevac, Serbia

Phone: +381 34 336223 (ext. 300), Fax: +381 34 335040

E-mail: [smarkovic@kg.ac.rs](mailto:smarkovic@kg.ac.rs)

Vladimir Lj. Jakovljevic, MD, PhD

Department of Medical Physiology

Faculty of Medicine, University of Kragujevac

str. Svetozara Markovica 69, P.O.B. 124

34000 Kragujevac, Serbia

Phone: +381 34 342 944, Fax: + 381 34 306 800/ext 112

E-mail: [drvladakgbg@yahoo.com](mailto:drvladakgbg@yahoo.com)

**THE CONFERENCE HAS BEEN SUPPORTED BY:**

**MUNICIPALITY OF KRAGUJEVAC**

**MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT**

**ROCHE SERBIA**

**TERRANOVA D.O.O. (NIKON REPRESENTATIVES)**

**ALFATRADE ENTERPRISE D.O.O.**

**PRO MEDIA**

**KEFO D.O.O.**

**EXPERIMETRIA GMBH**