



Hungary-Romania  
Cross-Border Co-operation  
Programme 2007-2013

Two countries, one goal, joint success!

**European Union**  
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## **CONFERENCE & ADVANCED TRANSLATIONAL RESEARCH WORKSHOP**

### ***“Chronic Diseases – From Pathogenesis to Therapy”***

Timisoara, 25-27 October 2012

*Organized by*

**University of Medicine and Pharmacy of Timisoara, Romania  
&  
University of Szeged, Hungary**

*under the framework of the cross-border project*

**Implementation of a regional project for translational medical  
research concerning diseases with high impact in population  
HURO-TRANS-MED  
HURO/0901/137/2.2.2**

#### **ORGANIZING COMMITTEE**

**Ferenc BARI (Hungary)  
Simona DRĂGAN (Romania)  
Norbert JOST (Hungary)  
Ovidiu FIRA-MLADINESCU (Romania)  
Tamás CSONT (Hungary)  
Danina MUNTEAN (Romania)**





**Thursday, 25<sup>th</sup> October 2012**

**20.00-22.00 Welcome Dinner**

**Friday, 26<sup>th</sup> October 2012**

**09.00-10.45 Opening and Plenary Lectures**

Chairpersons: Norbert Jost, Ovidiu Fira-Mlădinescu

09.00-09.15

**HU-RO TRANSMED Project: Two universities, One Goal**

Ovidiu Fira-Mlădinescu

*Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*

09.15-09.35

**Cardioprotection at Reperfusion: The Emerging Role of Magnesium Orotate**

Danina M. Muntean, Nicoleta S. Mirică, Oana M. Duicu, Ovidiu Fira-Mlădinescu

*Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*

09.35-09.55

**Current issues about late ventricular potentials**

Ioana Mozoş

*"Victor Babes" University of Medicine and Pharmacy, Department of Functional Sciences (Pathophysiology)*

09.55-10.20

**Atrial remodeling in atrial fibrillation: mechanisms and implications**

Norbert Jost<sup>1</sup>, Danina Muntean<sup>2</sup>

*<sup>1</sup>Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged and Division of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Hungary; <sup>2</sup>Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*

10.20-10.45

**Novel cardioprotective strategies to attenuate ischemia/reperfusion injury**

Tamás Csont<sup>1</sup>, Anikó Görbe<sup>1</sup>, Renáta Gáspár<sup>1</sup>, János Pálóczi<sup>1</sup>, Péter Bencsik<sup>2</sup>, Oana Duicu<sup>3</sup>, Marius Badalica-Petrescu<sup>4</sup>, Simona Dragan<sup>4</sup>, Danina Muntean<sup>3</sup>, Péter Ferdinandy<sup>1,2</sup>

*<sup>1</sup>Cardiovascular Research Group, Department of Biochemistry, University of Szeged, Szeged, Hungary;*

*<sup>2</sup>Pharmahungary Group, Szeged, Hungary;*

*<sup>3</sup>Department of Pathophysiology and <sup>4</sup>Preventive Cardiology and Cardiovascular Rehabilitation Clinic, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*





**10.45-11.00 Coffee break**

**11.00-13.00 Oral communications**

Chairpersons: Ferenc Bari, Danina Muntean

11.00-11.15

**Resveratrol protects the blood-brain barrier in a recurrent stroke model of the rat**

Adam Institoris<sup>1</sup>, Darren Clark<sup>2,3</sup>, Ursula Tuor<sup>3</sup>, Militariu Marius<sup>4</sup>, Ferenc Bari<sup>2</sup>

<sup>1</sup>Department of Physiology, <sup>2</sup>Department of Medical Physics and Medical Informatics, Faculty of Medicine, University of Szeged, Szeged, Hungary;

<sup>3</sup>Departments of Physiology and Pharmacology, Clinical Neurosciences and Radiology, University of Calgary, Calgary, Canada;

<sup>4</sup>Emergency County Hospital Timisoara, "Victor Babeş" University of Medicine and Pharmacy, Timisoara, Romania

11.15-11.30

**Nitro-oxidative stress in a mice model of toluene diisocyanate-induced asthma**

Ovidiu Persecă<sup>1</sup>, Remus Orăsan<sup>2</sup>, Alina Elena Pârvu<sup>3</sup>, Marian Aurel Taulescu<sup>4</sup>

<sup>1</sup>Occupational medicine, Regional Public Health Center Cluj-Napoca Romania

<sup>2</sup>Physiology, Faculty of Medicine, "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca, Romania

<sup>3</sup>Pathophysiology, Faculty of Medicine, "Iuliu Hatieganu" University of Medicine and Pharmacy Cluj-Napoca, Romania

<sup>4</sup>Pathology, Faculty of Veterinary Medicine, University of Agricultural and Veterinary Sciences, Cluj-Napoca, Romania

11.30-11.45

**Severe subacute neurovascular dysfunction is alleviated by hydrogen in asphyxiated newborn pigs**

Ferenc Domoki<sup>1</sup>, Orsolya Oláh<sup>1</sup>, Valéria Tóth-Szűki<sup>1</sup>, Ferenc Bari<sup>2</sup>

<sup>1</sup>Department of Physiology, University of Szeged, Faculty of Medicine, Szeged, Hungary

<sup>2</sup>Department of Medical Physics and Informatics, University of Szeged, Szeged, Hungary

11.45-12.00

**Monoamine Oxidases Contribute to Vascular Impairment in the Lipopolysaccharide Model of Endothelial Dysfunction in Mice**

Adrian Sturza<sup>1,2</sup>, Andrea Babelova<sup>2</sup>, Sebastian Benkhoff<sup>2</sup>, Katrin Schröder<sup>2</sup>, Ralf P. Brandes<sup>2</sup>, Danina M. Muntean<sup>1</sup>

<sup>1</sup>Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania

<sup>2</sup>Institut für Kardiovaskuläre Physiologie, Goethe Universität, Frankfurt am Main, Germany





12.00-12.15

**High-mobility group box protein 1 (HMGB1) changes predict microcirculatory dysfunction in a clinically relevant sepsis model**

József Kaszaki<sup>1</sup>, Dániel Érces<sup>1</sup>, Bettina Zsikai<sup>1</sup>, Lajos Bizánc<sup>1</sup>, Lucian Jiga<sup>2</sup>, Mihai Ionac<sup>2</sup>, Hidechika Okada<sup>3</sup>, Mihály Boros<sup>1</sup>

<sup>1</sup>*Institute of Surgical Research, University of Szeged, Hungary<sup>1</sup>,*

<sup>2</sup>*Pius Brnzeu Center, "Victor Babes" University of Medicine and Pharmacy Timisoara, Romania,*

<sup>3</sup>*Department of Immunology, Nagoya City University, Nagoya, Japan*

12.15-12.30

**Pharmacological and ischemic postconditioning: a comparative study in isolated rat hearts**

Silvia N. Mirica, Oana M. Duicu, Andreea I. Privistirescu, Maria D. Dănilă, Ovidiu Fira-Mlădinescu, Danina M. Muntean

*Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy of Timisoara, Romania*

12.30-12.45

**Properties of the transient outward, ultra-rapid delayed rectifier and acetylcholine-sensitive potassium currents in isolated atrial myocytes from dogs: sinus rhythm and tachypaced model of permanent atrial fibrillation**

Claudia Corici<sup>1</sup>, Z Kohajda<sup>1</sup>, A Kristóf<sup>1</sup>, PP Kovács<sup>1</sup>, L Virág<sup>1</sup>, V Juhász<sup>1</sup>, Z Husty<sup>1</sup>, I Baczkó<sup>1</sup>, A Varró<sup>1</sup>, L Lighezan<sup>2</sup>, DM Muntean<sup>3</sup>, A Neagu<sup>2</sup>, N Jost<sup>1</sup>

<sup>1</sup>*Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, University of Szeged and Division of Cardiovascular Pharmacology, Hungarian Academy of Sciences, Hungary;* <sup>2</sup>*Department of Biophysics,* <sup>3</sup>*Department of Pathophysiology, "Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*

12.45-13.00

***In vitro* models of adipogenesis for understanding molecular mechanisms underlying occurrence of obesity**

F. Bojin<sup>1</sup>, V. Ordodi<sup>1</sup>, O. Gavriiliuc<sup>1</sup>, M. Cristea<sup>2</sup>, S. Anghel<sup>1</sup>, A. Gruia<sup>2</sup>, F. A. Mic<sup>2</sup>, A. Cean<sup>1</sup>, R. Lazarovicz<sup>1</sup>, M. Toma<sup>1</sup>, L. Marusciac<sup>1</sup>, G. Tanasie<sup>1</sup>, C. Tatu<sup>1</sup>, C. Panaitescu<sup>1</sup>, V. Paunescu<sup>1</sup>

<sup>1</sup>*Department of Functional Sciences, "Victor Babes" University of Medicine and Pharmacy Timisoara*

<sup>2</sup>*Immunophysiology and Biotechnologies Center, Emergency Clinical County Hospital, Timisoara*

**13.00-15.00 Lunch**

**15.00-16.30 Oral communications**

Chairpersons: Alina Pârvu, Ovidiu Burta





15.00-15.15

**Betulinic Acid Suppresses Epithelial to Mesenchymal Transition in Melanoma Cell Line**

Dorina Gheorgheosu<sup>1</sup>, Michaela Jung<sup>2</sup>, Cristina Dehelean<sup>3</sup>, Danina Muntean<sup>1</sup>, Bernhard Bruene<sup>2</sup>

<sup>1</sup>Department of Pathophysiology, <sup>3</sup>Department of Toxicology, "Victor Babes" University of Medicine and Pharmacy Timisoara, Romania

<sup>2</sup>Institute of Biochemistry I, Faculty of Medicine, Goethe-University Frankfurt, Frankfurt, Germany

15.15-15.30

***Euonymus europaeus* ethanolic extract inhibits the development of Ehrlich tumor cells *in vivo***

Bogdan Sevastre<sup>1\*</sup>, Orsolya Sárpataki<sup>1</sup>, Ioana Bedecan<sup>1</sup>, Neli K. Olah<sup>2</sup>, Roxana L. Stan<sup>3</sup>, Marian Taulescu<sup>1</sup>, Cornel Cătoi<sup>1</sup>, Ioan Marcus<sup>1</sup>

<sup>1</sup>University of Agricultural Science and Veterinary Medicine, Faculty of Veterinary Medicine, Manastur Street, Cluj-Napoca, Romania,

<sup>2</sup>PlantExtrakt Ltd, 407059 Rădaia, Cluj-Napoca, Romania and Department of Pharmaceutical Industry, Faculty of Pharmacy, "Vasile Goldis" West University of Arad, Romania

<sup>3</sup>University of Medicine and Pharmacy "Iuliu Hateganu", Faculty of Pharmacy, Cluj-Napoca, Romania

15.30-15.45

**High-sensitivity cardiac troponin T and N-terminal pro-brain natriuretic peptide in the assessment of patients with high clinical probability of non-ST segment elevation acute coronary syndrome**

Alina Mihaela Pascu<sup>1,2</sup>, Codrut Ciurea<sup>1,2</sup>, Daniela Mariana Barbu<sup>3</sup>, Ion Barbu<sup>3</sup>

<sup>1</sup>Faculty of Medicine – Pathophysiology,

<sup>2</sup>Clinical Emergency County Hospital Brasov - Clinic of Cardiology,

<sup>3</sup>Department of Product Design, Mechatronics and Environment

"Transilvania" University of Brasov

15.45-16.00

**Saliva analysis in the clinical setting: an underused diagnostic tool revisited**

Ovidiu Burta, Claudia Ciuciu, Ramona Dan, Catalin Florescu

Department of Preclinical Sciences, Faculty of Medicine and Pharmacy, University of Oradea

16.00-16.15

**Anti-inflammatory effects of complex antiretroviral therapy in a cohort of Caucasian HIV-1 positive patients**

Catalin Tiliscan<sup>1,2</sup>, Daniela Adriana Ion<sup>1</sup>, Victoria Arama<sup>1,2</sup>, Raluca Mihailescu<sup>2</sup>, Daniela Munteanu<sup>2</sup>, Mihaela Radulescu<sup>2</sup>, Adrian Streinu-Cercel<sup>1,2</sup>, Sorin Stefan Arama<sup>1</sup>

<sup>1</sup>Carol Davila University of Medicine and Pharmacy, Bucharest

<sup>2</sup>Prof. Dr. Matei Bals National Institute of Infectious Diseases, Bucharest





16.15-16.30

**Association of serum apolipoproteins levels with target-organ damage in arterial hypertension**

Corina Serban<sup>1</sup>, Lelia Susan<sup>2</sup>, Ruxandra Christodorescu<sup>2</sup>, Simona Dragan<sup>3</sup>

<sup>1</sup>*Department of Functional Sciences, University of Medicine and Pharmacy "Victor Babes" Timisoara*

<sup>2</sup>*1<sup>st</sup> Department of Internal Medicine, University of Medicine and Pharmacy "Victor Babes" Timisoara*

<sup>3</sup>*Cardiology Department, University of Medicine and Pharmacy "Victor Babes" Timisoara*

**16.30-16.45 Coffee break**

**16.45-18.00 Oral communications**

Chairpersons: Alina Pascu, Ioan Marcus

16.45-17.00

**The specific cox-2 inhibitor parecoxib intensifies antitumoral effectiveness of TSPP-based photodynamic therapy**

Tiberiu Popescu<sup>1</sup>, Iuliana Nenu<sup>1</sup>, Aldea D. Mihaela<sup>1</sup>, Andreea Lupaş<sup>1</sup>, Dan Gheban<sup>2,3</sup>, Adriana Mureşan, Adriana G. Filip<sup>1</sup>

<sup>1</sup>*Cluj-Napoca University of Medicine and Pharmacy, Department of Physiology*

<sup>2</sup>*Cluj-Napoca University of Medicine and Pharmacy, Department of Morphopathology*

<sup>3</sup>*Emergency Children's Hospital Cluj-Napoca*

17.00-17.15

**Spironolactone and Dimethyl Sulfoxide in Improving Impaired Fasting Glycemia and Antioxidative Capacity in PCOS Rat Model**

Alexandra Dăneasă<sup>1</sup>, Cucolaş Cristina<sup>1</sup>, Mihai Furcea<sup>1</sup>, Remus Moldovan<sup>1</sup>, Pompei Bolfa<sup>2</sup>, Nicoleta Decea<sup>1</sup>, Sorin Dudea<sup>3</sup>, Diana Olteanu<sup>1</sup>, Adriana Mureşan<sup>1</sup>, Adriana Filip<sup>1</sup>

<sup>1</sup>*Cluj-Napoca University of Medicine and Pharmacy, Department of Physiology*

<sup>2</sup>*Cluj-Napoca University of Medicine and Pharmacy, Department of Morphopathology*

<sup>3</sup>*Cluj-Napoca University of Medicine and Pharmacy, Department of Radiology*

17.15-17.30

**Effects of *Juniperus communis* volatile oil on the reactivity of tracheal smooth muscle ring isolated from rats chronically exposed to passive cigarette smoking**

Lavinia Noveanu<sup>1</sup>, Carmen Manuela Pleşa<sup>2</sup>, Valentin Laurentiu Ordodi<sup>1</sup>

<sup>1</sup>*Department of Functional Sciences, University of Medicine and Pharmacy "Victor Babes" Timisoara*

<sup>2</sup>*Faculty of Industrial Chemistry and Environmental Engineering, "Politehnica" University of Timisoara*





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17.30-17.45

**Experimental Model for the Study of Smoking-Induced Pulmonary Endothelial Dysfunction**

Ovidiu Fira-Mlădinescu<sup>1</sup>, Lavinia Noveanu<sup>2</sup>, Valentin Ordodi<sup>3</sup>, Adrian Sturza<sup>1</sup>, Nicoleta Mirica<sup>1</sup>, Oana Duicu<sup>1</sup>, Andreea Răducan<sup>1</sup>, Danina Muntean<sup>1</sup>  
*Department of Functional Sciences - <sup>1</sup>Pathophysiology, <sup>2</sup>Physiology, <sup>3</sup>General Biology, "Victor Babeș" University of Medicine and Pharmacy, Timisoara*

17.45-18.00

**Electromyographic study of gastrocnemius muscle activity after traumatic sciatic nerve injury**

Raducan Andreea, Borza Claudia, Hâncu Mircea, Duicu Oana, Mirica Nicoleta, Fira-Mlădinescu Ovidiu, Muntean Danina  
*<sup>1</sup>Department of Pathophysiology, "Victor Babeș" University of Medicine and Pharmacy, Timisoara, Romania*

**18.00-18.45 Meeting of the Romanian Society of Pathophysiology**

**20.00-22.00 Dinner**

**Saturday, 27<sup>th</sup> October 2012**

**09.00-11.00 Plenary Lectures**

Chairpersons: Magda Bădescu, Simona Drăgan

09.00-09.25

**The role of Integrative Medicine in Cardiovascular Health Promotion and Disease Prevention**

Simona Drăgan

*Department of Cardiology, "Victor Babeș" University of Medicine and Pharmacy, Timisoara, Romania*

09.25-09.50

**The role of omega-3 fatty acids in the secondary prevention of coronary artery disease**

Ruxandra Christodorescu

*<sup>1</sup>st Department of Internal Medicine, "Victor Babeș" University of Medicine and Pharmacy, Timisoara, Romania*





09.50-10.15

**The effects of certain natural polyphenols in experimental diabetes mellitus**

Magda Bădescu<sup>1</sup>, L.Bădescu<sup>2</sup>, Oana Bădulescu<sup>1</sup>, Manuela Ciocoiu<sup>1</sup>

<sup>1</sup>Department of Pathophysiology, <sup>2</sup>Department of Cellular and Molecular Biology,  
"Gr.T.Popa" University of Medicine and Pharmacy Iași, Romania

10.15-10.40

**Are carbon nanotubes safe for medical applications? – The experience of our group  
(Cluj-Napoca, Romania)**

Simona Clichici<sup>1</sup>, Alexandru Radu Biris<sup>2</sup>, Flaviu Tabaran<sup>3</sup>, Teodora Mocan<sup>1</sup>, Adriana Filip<sup>1</sup>

<sup>1</sup>Department of Physiology, University of Medicine and Pharmacy, Cluj-Napoca, Romania

<sup>2</sup>National R&D Institute of Isotopic and Molecular Technologies, Cluj-Napoca, Romania

<sup>3</sup>University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania

10.40-11.00

**Oxidative stress and perinatal hypoxic-ischemic brain injury**

Claudia Borza

Department of Pathophysiology, "Victor Babeș" University of Medicine and Pharmacy  
Timișoara, Romania

**11.00-11.15 Coffee break**

**11.15-12.00 Oral communications**

Chairpersons: Claudia Borza, Simona Clichici

11.15-11.30

**The early therapy with Chitosan reduces the liver injury in experimental acute  
extrahepatic cholestasis**

Marina Ducea<sup>1</sup>, Simona Clichici<sup>1</sup>, Diana Olteanu<sup>1</sup>, András Nagy<sup>2</sup>, Sorin Ducea, Maria

Cucos<sup>1</sup>, Remus Moldovan<sup>1</sup>, Adriana Mureșan<sup>1</sup>

<sup>1</sup> Department of Physiology, The University of Medicine and Pharmacy "Iuliu Hațieganu",  
Cluj-Napoca, Romania,

<sup>2</sup> Department of Pathology, USAMV, Cluj-Napoca, Romania

11.30-11.45

**The mechanisms influenced by Rosuvastatin on an experimental model of bile duct  
ligation in rats**

Diana Olteanu<sup>1</sup>, Andras Nagy<sup>2</sup>, Marina Ducea<sup>1</sup>, Adriana Filip<sup>1</sup>, Adriana Muresan<sup>1</sup>, Cornel  
Catoi<sup>2</sup>, Petru A. Mircea<sup>3</sup>, Simona Clichici<sup>1</sup>

<sup>1</sup>Department of Physiology, "Iuliu Hatieganu" University of Medicine and Pharmacy, 1-3  
Clinicilor Str, 400012, Cluj-Napoca, Romania

<sup>2</sup> Department of Morphopathology, University of Agricultural Sciences and Veterinary  
Medicine, 3-5 Calea Manastur Str., 400372, Cluj-Napoca, Romania

<sup>3</sup>Internal Medicine Department, "Iuliu Hatieganu" University of Medicine and Pharmacy, 3-5  
Clinicilor Str, 400006, Cluj-Napoca, Romania







11.45-12.00

**The effects of a red grapes seed extract on oxidative stress and aorta lipid deposition in an experimental model of periodontitis**

Tudor Dimitriu<sup>1</sup>, Pompei Bolfa<sup>2</sup>, Remus Moldovan<sup>1</sup>, I.D.Postescu<sup>3</sup>, Soimita Suci<sup>1</sup>

<sup>1</sup>UMF "Iuliu Hațieganu" Cluj-Napoca, Physiology Department;

<sup>2</sup>USAMV Cluj-Napoca, Faculty of Veterinary Medicine, Pathology Department;

<sup>3</sup>"I.Chiricuta" Oncological Institute, Cluj-Napoca.

**12.00-12.45 Poster Session** (Chairperson: Ioana Mozoş)

P1.

**The Effects of Natural Polyphenols on Diabetic Retinopathy**

Magda Bădescu<sup>1</sup>, L. Bădescu<sup>2</sup>, Dana Tutunaru<sup>3</sup>, Oana Badulescu<sup>1</sup>, Manuela Ciocoiu<sup>1</sup>

<sup>1</sup>Pathophysiology Department,

<sup>2</sup>Cell and Molecular Biology Department, "Gr.T.Popa" University of Medicine and Pharmacy, Iasi

<sup>3</sup>Biochemistry Department, University "Dunarea de Jos" Galati, Romania

P2.

**Surface morphology of leukemic cells from chronic myeloid leukemia under atomic force microscopy**

Amelia Gaman<sup>1</sup>, E. Osiac<sup>2</sup>, C.Taisescu<sup>1</sup>, Iulia Tudorascu<sup>1</sup>, Oana Taisescu<sup>3</sup>

<sup>1</sup>Pathophysiology, <sup>2</sup>Biophysics, <sup>3</sup>Anatomy, University of Medicine and Pharmacy of Craiova

P3.

**Minimizing Skin Senescence Damage by Vegetal Antocyanidins**

L.Bădescu<sup>1</sup>, Manuela Ciocoiu<sup>2</sup>, Carmen Cotrutz<sup>1</sup>, Magda Bădescu<sup>2</sup>

<sup>1</sup>Cellular and Molecular Biology Department, U.M.F.Iasi - Romania

<sup>2</sup>Pathophysiology Dept., University of Medicine and Pharmacy "G.T.Popa" Iasi, Romania

P4.

**Haemodynamic instability in patients with untreated hypertension, during anesthesia**

Neamțu Marius Cristian<sup>1</sup>, Irinel Șoșea<sup>2</sup>, Vasile Larisa<sup>2</sup>, Vrabete Maria<sup>1,3</sup>

<sup>1</sup>Department of Pathologic Physiology, University of Medicine and Pharmacy of Craiova

<sup>2</sup>PhD students, University of Medicine and Pharmacy of Craiova

<sup>3</sup>Department of Surgery, Emergency County Hospital, Craiova

P5.

**Virtual predictors for quality of surgical wound healing**

Neamțu Marius Cristian<sup>1</sup>, Irinel Șoșea<sup>2</sup>, Vasile Larisa<sup>2</sup>, Vrabete Maria<sup>1,3</sup>

<sup>1</sup>Department of Pathologic Physiology, University of Medicine and Pharmacy of Craiova

<sup>2</sup>PhD students, University of Medicine and Pharmacy of Craiova

<sup>3</sup>Department of Surgery, Emergency County Hospital, Craiova





P6.

**Chronically stored blood transfusions in postgrafting wound healing**

Neamțu Marius Cristian<sup>1</sup>, Irinel Șoșea<sup>2</sup>, Vasile Larisa<sup>2</sup>, Vrabete Maria<sup>1,3</sup>

<sup>1</sup>Department of Pathologic Physiology, University of Medicine and Pharmacy of Craiova

<sup>2</sup>PhD students, University of Medicine and Pharmacy of Craiova

<sup>3</sup>Department of Surgery, Emergency County Hospital, Craiova

P7.

**Study of the Hypercoagulant State in Diabetic Patients with Cardiovascular Diseases**

Oana Bădulescu<sup>1</sup>, Codruța Bădescu<sup>2</sup>, Manuela Ciocoiu<sup>1</sup>, Magda Bădescu<sup>1</sup>

<sup>1</sup>Department of Pathophysiology, <sup>2</sup>Department of Internal Medicine, University of Medicine and Pharmacy "Grigore T. Popa" Iasi, Romania

P8.

**Minimizing Skin Senescence Damage by Vegetal Antocyanidins**

L.Bădescu<sup>1</sup>, Manuela Ciocoiu<sup>2</sup>, Carmen Cotrutz<sup>1</sup>, Magda Bădescu<sup>2</sup>

<sup>1</sup>Cellular and Molecular Biology Department

<sup>2</sup>Pathophysiology Department, University of Medicine and Pharmacy "G.T.Popa" Iasi, Romania

P9.

**The Effects of Sambucus Nigra Extract in Experimental Arterial Hypertension**

Manuela Ciocoiu<sup>1</sup>, Codruta Bădescu<sup>2</sup>, Oana Bădulescu<sup>1</sup>, Dana Tutunaru<sup>3</sup>, Magda Bădescu<sup>1</sup>

<sup>1</sup>Department of Pathophysiology, <sup>2</sup>II-nd Medical Clinic University of Medicine and Pharmacy "Gr. T. Popa" Iasi, Romania

<sup>3</sup>Department of Biochemistry, University "Dunarea de Jos" Galati, Romania

P10.

**Prooxidant and Proapoptotic Effects of Metformin Enhance TSP-Based Photodynamic Therapy**

Iuliana Nenu<sup>1</sup>, Tiberiu Popescu<sup>1</sup>, Aldea D. Mihaela<sup>1</sup>, Andreea Lupaș<sup>1</sup>, Lucian Crăciun<sup>1</sup>, Dan Gheban<sup>2,3</sup>, Adriana Mureșan<sup>1</sup>, Adriana G. Filip<sup>1</sup>

<sup>1</sup>Cluj-Napoca University of Medicine and Pharmacy, Department of Physiology

<sup>2</sup>Cluj-Napoca University of Medicine and Pharmacy, Department of Morphopathology

<sup>3</sup>Emergency Children's Hospital Cluj-Napoca

P11.

**Research on Some Vegetal Immunomodulators in Ultraviolet Irradiated Animals with Experimental Skin Lesions**

Raoul-Vasile Lupușoru<sup>1</sup>, Maria Marinescu<sup>2</sup>, Carmen Gafițeanu<sup>1</sup>, Manuela Ciocoiu<sup>1</sup>, Cătălina-Elena Lupușoru<sup>1</sup>, Magda Bădescu<sup>1</sup>

<sup>1</sup>"Gr. T. Popa" University of Medicine and Pharmacy, Iași, Romania

<sup>2</sup>Malvifarm, Bacău, Romania





P12.

**Standardization of the Experimental Protocol for Respirometry Studies in Mitochondria Isolated from Rat Skeletal Muscle**

Kerti Viorica, Dorina Gheorgheosu, Simona Trancotă, Oana Duicu, Mircea Hâncu, Danina Muntean

*Department of Pathophysiology, "Victor Babeş" University of Medicine and Pharmacy, Timișoara, Romania*

P13.

**Characterization of the Effects of Two New Porphyrins on Respiratory Function of Rat Heart Mitochondria**

Simona Trancotă<sup>1</sup>, Eugenia Făgădar-Cosma<sup>2</sup>, Corina Enache<sup>2</sup>, Oana Duicu<sup>1</sup>, Danina Muntean<sup>1</sup>

<sup>1</sup>*Department of Pathophysiology, "Victor Babeş" University of Medicine and Pharmacy*

<sup>2</sup>*Institute of Chemistry-Romanian Academy, Timisoara, Romania*

P14.

**Mechanisms of three traditional therapies in chronic stress**

Ramona Jurcău<sup>1</sup>, Ioana Jurcău<sup>2</sup>, Nicolae Colceriu<sup>3</sup>

<sup>1</sup>*Department of Pathophysiology, University of Medicine and Pharmacy Cluj-Napoca,*

<sup>2</sup>*Pediatric Clinical Hospital, Cluj-Napoca*

<sup>3</sup>*USAMV, Cluj-Napoca*

**12.45-13.00 Final Remarks and Awards**

**13.00 Lunch**

