

# **Bridges in Life Sciences 5th Annual Meeting & the 10th RECOOP Strategic Alliance Meeting**

**April 9-10-11, 2010**

Hotel Dnister, Ukraine, 6 Mateyka St., Lviv, 79000, +38 (032) 297-43-17, 297-43-26  
<http://www.dnister.lviv.ua>

**April 9, 2010**

## **MULTIDISCIPLINARY BIOMEDICAL RESEARCH IN CENTRAL AND EASTERN EUROPE**

High quality science equal bright ideas could be tested with hard work and dedication!  
Professor Rostyslav Stoika not only exemplified that but also contributed the most for his peers in  
the RECOOP HST Consortium. On his 60<sup>th</sup> birthday, we salute his tireless work.

### **1<sup>ST</sup> SESSION**

#### **KEYNOTE SPEAKER**

##### **THE ROAD TO STOCKHOLM: FROM 2-4D TO KURU PRIONS**

**Karl Maramorosch**

Rutgers - The State University of New Jersey, New Brunswick, NJ, USA

#### **SPEAKERS**

##### **CARDIOVASCULAR DISEASE (CVD) RISK FACTORS FOR WOMEN: A LIFE EVENTS-COURSE PERSPECTIVE**

**Calvin J. Hobel**

Cedars-Sinai Medical Center, Burns-Allen Research Institute and the Division of  
Maternal-Fetal Medicine, Los Angeles, CA, USA  
David Geffen School of Medicine, University of California Los Angeles, Los  
Angeles, CA, USA

##### **VITAMIN D – A NOVEL ROLE IN PREGNANCY**

**Chander P. Arora**

Cedars-Sinai Medical Center, Burns-Allen Research Institute and the Division of  
Maternal-Fetal Medicine, Los Angeles, CA, USA  
David Geffen School of Medicine, University of California Los Angeles, Los  
Angeles, CA, USA

##### **VITAMIN, MINERAL AND IRON SUPPLEMENTATION IN PREGNANCY: CROSS-SECTIONAL STUDY**

**Marcel Leppée**

Andrija Stampar Institute of Public Health, Zagreb, CROATIA

**AMNIOTIC FLUID PENTRAXIN 3 AS A NEW MARKER OF SUBCLINICAL CHORIOAMNIONITIS IN WOMEN WITH PRETERM PREMATURE RUPTURE OF MEMBRANES**

**Marian Kacerovsky**

Department of Obstetrics and Gynaecology.  
Charles University in Prague, Faculty of Medicine Hradec Kralove, University  
Hospital Hradec Kralove, **CZECH REPUBLIC**

**TIEG1 AND TWIST1 INTEGRATE PRO-INFLAMMATORY AND BMP EFFECTS ON THE SKELETON**

**Olexandr Korchynskyi**

Academic Medical Center, University of Amsterdam, **NETHERLANDS**  
Thurston Arthritis Research Center, University of North Carolina at Chapel Hill,  
NC, USA  
University of California at San Diego, La Jolla, CA, **USA**  
Departments of Molecular Cell Biology **NETHERLANDS**

**OXIDATIVE STRESS, ADVANCED GLYCATION END PRODUCTS AND RESIDUAL RENAL FUNCTION IN THE RAT MODEL OF UNILATERAL URETERAL OBSTRUCTION: EFFECTS OF PHLOGENZYM AND LOSARTAN**

**Katarina Šebeková**

Slovak Medical University, Bratislava, **SLOVAKIA**

**FUNCTIONAL EXPRESSION OF ION CHANNELS IN DEVELOPING HUMAN DENDRITIC CELLS**

**Gyorgy Panyi**

Debrecen Medical and Health Science Centre, University of Debrecen  
Debrecen, **HUNGARY**

**2<sup>ND</sup> SESSION**

**KEYNOTE SPEAKER**

**SYNTHETIC BIOLOGY AND GENE THERAPY (IN WEIGL'S FOOTSTEPS)**

**Waclaw Szybalski**

University of Wisconsin Medical School, Madison, WI, **USA**

**SPEAKERS**

**NOVEL FUNCTIONALIZED NANOCOMPOSITES: MOLECULAR DESIGN, SYNTHESIS, AND BIOMEDICAL APPLICATION**

**Rostyslav Stoika**

Institute of Cell Biology, National Academy of Sciences of Ukraine, Lviv,  
**UKRAINE**

## **MATERIALS FOR RATIONAL NANOMEDICINE DESIGN AND ENGINEERING**

**Moein S. Moghimi**

Centre for Pharmaceutical Nanotechnology and Nanotoxicology,  
University of Copenhagen, Copenhagen, **DENMARK**

## **METABOLIC ENGINEERING OF MICROORGANISMS FOR CONSTRUCTION OF EFFICIENT PRODUCERS OF PHARMACEUTICALLY IMPORTANT METABOLITES AND HETEROLOGOUS PROTEINS**

**Andriy Sibirny**

Institute of Cell Biology,  
National Academy of Sciences of Ukraine, Lviv, **UKRAINE**

## **MULTIFUNCTIONAL MAGNETIC NANO/MICROPARTICLES FOR BIOAPPLICATIONS**

**Daniel Horák**

Institute of Macromolecular Chemistry AS CR, **CZECH REPUBLIC**

## **STRUCTURE–ANTICANCER ACTIVITY RELATIONSHIPS AMONG 4-AZOLIDINONE-3-CARBOXYLIC ACIDS DERIVATIVES**

**Roman B. Lesyk**

Danylo Halytsky Lviv National Medical University, Lviv, **UKRAINE**

## **IDENTIFICATION AND CHARACTERISTICS OF TUMOR-ASSOCIATED ANTIGENS IN DIAGNOSTICS AND THERAPY**

**Valery Filonenko**

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, **UKRAINE**

## **THE ROLE OF ADAPTOR/SCAFFOLD PROTEIN RUK/CIN85 IN CARCINOGENESIS**

**Ludmyla Drobot**

O.V. Palladin Institute of Biochemistry,  
National Academy of Sciences of Ukraine, Kyiv, **UKRAINE**

**Bridges in Life Sciences 5th Annual Meeting &  
the 10th RECOOP Strategic Alliance Meeting**

April 10, 2010 from 8:00 – to 18:00

**Without high  
Quality science  
there is no innovation!**

Cancer Research and Prevention  
Cardiovascular Diseases and Prevention  
Mother and Child Health Reproductive Health  
Inflammatory and Immune Response  
Nanotechnology  
Cell Biology  
Drug Development and Pharmaceutical Research  
Genomics  
Proteomics  
Metabolomics

Oral presentation 10 minutes and 5 minutes discussion

Poster presentation 5 minutes explanation and 5 minutes discussion. Poster size 90 x 120 cm.

The posters should be installed on April 8 evening.

**8:00 am WELCOME**

**Calvin J. Hobel**

Miriam Jacobs Chair

Department of Obstetrics & Gynecology

& Chairman of the Advisory Board of the RECOOP HST Consortium

**8:15 am Oral presentations**

**Cancer Research and Prevention**

*Session Chairs*

**Waclaw Szybalski**

McArdle Laboratory for Cancer Research,

University of Wisconsin Medical School, Madison, WI, USA

**Jay P. Mohr**

Daniel Sciarra Professor, Department of Neurological Institute,  
Columbia University, New York, USA

**Rostyslav S. Stoika**

Department of Regulation of Cell Proliferation,  
Institute of Cell Biology, National Academy of Sciences of Ukraine, Lviv, Ukraine

## **ANTICANCER POTENTIALS OF A NOVEL STREPTOMYCES ANTIBIOTIC LANDOMYCIN E**

**Rostyslav R. Panchuk**

Institute of Cell Biology,  
National Academy of Sciences of Ukraine, Lviv, Ukraine

## **CHI3L1 STIMULATES PROLIFERATION AND MIGRATION OF GLIOMA CELLS**

**Anton Iershov**

Department of Biosynthesis of Nucleic Acids, Institute of Molecular Biology and  
Genetics, National Academy of Sciences of Ukraine, Kyiv, Ukraine

## **ROLE OF SURFACE SIALYLATION IN THE CLEARANCE OF APOPTOTIC CELLS**

**Andriy Tomin**

Institute of Cell Biology,  
National Academy of Sciences of Ukraine, Lviv, Ukraine

# **Cardiovascular Diseases and Prevention**

## ***Session Chairs***

***Dipak K. Das***

Cardiovascular Division, Department of Surgery, University of Connecticut School of  
Medicine, CT, USA

***Vitaly Maksymenko***

M. M. Amosov National Institute of Cardiovascular Surgery,  
Academy of Medical Sciences of Ukraine, Kyiv, Ukraine

***Lyubov L. Lukash***

Head of Department of Human Genetics, Institute of Molecular Biology and Genetics  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

## **N-CADHERIN DELETION RESULTS IN EMBRYOS HEART MALFORMATIONS AND EMBRYONIC DEATH**

**Oksana Piven**

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

**TWINS CAN HELP TO PREVENT ATHEROSCLEROSIS DISEASE. FINDINGS OF INTERNATIONAL TWIN STUDY 2009**

**Adam A. Tarnoki, David L Tarnoki**

Department of Radiology and Oncotherapy,  
Semmelweis University, Budapest, Hungary

**Mother and Child Health Reproductive Health**

***Session Chairs***

***Calvin J. Hobel***

Miriam Jacobs Chair, Department of Obstetrics & Gynecology,  
Cedars – Sinai Medical Center, Los Angeles, CA USA

***William J. Britt***

Department of Pediatrics, University of Alabama- Birmingham, AL, USA

***Decebal Hudita***

Department of Obstetrics and Gynecology of “Dr. I. Cantacuzino” Hospital,  
“Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

**MATHEMATICAL MODEL ENABLING TO DIFFERENTIATE BETWEEN VARIOUS MODES OF PERINATAL PCB EXPOSURE**

**Kinga Lancz**

Department of Environmental Medicine,  
Slovak Medical University, Bratislava, Slovakia

**KYNURENIC ACID CONCENTRATION IN THE PERINATAL PERIOD**

**Edina Flach**

Department of Obstetrics and Gynaecology, Medical School,  
University of Pécs, Hungary

**10:00 am Coffee Break and 10 Parallel Poster Sessions**

Cancer Research and Prevention

Cardiovascular Diseases and Prevention

Mother and Child Health Reproductive Health

Inflammatory and Immune Response

Nanotechnology

Cell Biology

Drug Development and Pharmaceutical Research

Genomics

Proteomics

Metabolomics

11:00 am Oral presentations

## Inflammatory and Immune Response

### *Session Chairs*

#### ***Karl Maramorosch***

Cook College, Department of Entomology,  
Rutgers, the State University of New Jersey, USA

#### ***Stefan Angielski***

Department of Immunopathology, Medical University of Gdansk,  
Laboratory of Cellular and Molecular Nephrology,  
Medical Research Center of the Polish Academy of Sciences, Poland

#### ***Aleš Macela***

Faculty of Military Health Sciences, University of Defense,  
Hradec Králové, Czech Republic

### **MELATONIN – NOVEL CYTOPROTECTIVE AND HEALING MODULATOR OF UPPER GASTROINTESTINAL TRACT BY ANGIOGENESIS IMPACT**

#### **Mar' yana Savytska**

Physiology Department, Danylo Halytsky Lviv National Medical University,  
Lviv, Ukraine

### **C60 FULLERENES MODIFY PROTEIN TYROSINE PHOSPHORYLATION PATTERNS IN NORMAL AND TRANSFORMED T CELLS TREATED WITH APOPTOSIS-INDUCING AGENTS**

#### **Kseniya Palyvoda**

Palladin Institute of Biochemistry,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

## Nanotechnology

### *Session Chairs*

#### ***Daniel Horák***

Institute of Macromolecular Chemistry AS CR, Czech Republic

#### ***Artur Podhorodecki***

Institute of Physics, Wrocław University of Technology, Poland

#### ***Valeriy Filonenko***

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

### **IDENTIFICATION OF NOVEL TUMOR-ASSOCIATED ANTIGENS OF MEDULLARY BREAST CARCINOMA BY MODIFIED SEREX-APPROACH**

#### **Olga I. Kostianets**

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

# **NOVEL SYNTHETIC VEHICLES AND NANOSCALE DRUG DELIVERY SYSTEMS OVERCOMING CELL MEMBRANE**

**Maksym M. Moskvin**

Lviv Polytechnic National University, Ukraine, Lviv, Ukraine

## **Cell Biology**

### ***Session Chairs***

***Myhaylo Gonchar***

Deputy Director Institute of Cell Biology, National Academy of Sciences of Ukraine

***György Panyi***

Department of Biophysics and Cell Biology, Faculty of Medicine,

University of Debrecen, Hungary

***Pavel Bostik***

Director - Center for Advanced Studies, Faculty of Military Health Sciences

University of Defence, Hradec Kralove, Czech Republic

### **PPAR-A AGONIST BAY PP1 ATTENUATES RENAL FIBROSIS IN RATS**

**Peter Boor**

Department of Clinical and Experimental Pharmacotherapy,

Research Base of Slovak Medical University, Bratislava, Slovakia

Division of Nephrology, RWTH University of Aachen, Aachen, Germany

### **KINETIC MODEL OF THE EFFECTS OF EXTRACELLULAR PH AND [K<sup>+</sup>] ON THE INACTIVATION OF THE KV1.3 POTASSIUM CHANNEL**

**Janos Vincze**

Department of Biophysics and Cell Biology, Medical and Health Science Centre,

University of Debrecen, Hungary

### **STAT5 DEFICIENCY INFLUENCES SURVIVAL AND PLASTICITY OF HIPPOCAMPAL NEURONS AFFECTING ERYTHROPOIETIN AND GROWTH HORMONE SIGNALING**

**Nadiya Byts**

Palladin Institute of Biochemistry,

National Academy of Sciences of Ukraine, Kyiv, Ukraine

**13:00 pm Lunch Break**



14:00 pm Oral presentations

## Drug Development and Pharmaceutical Research

### *Session Chairs*

***Constantin Mircioiu***

Faculty of Pharmacy, "Carol Davila" University of Medicine and Pharmacy,  
Bucharest, Romania

***S. Moein Moghimi***

Department of Pharmaceutics and Analytical Chemistry,  
University of Copenhagen, Denmark

***Roman Bogdanovych Lesyk***

Department of Pharmaceutical, Organic and Bioorganic Chemistry,  
Danylo Halytsky Lviv National Medical University

### **NEW ONE-POT SYNTHETIC METHOD OF BIOLOGICALLY ACTIVE 2-SUBSTITUTED-4-THIAZOLIDINONES**

**Danylo Kaminsky**

Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

### **SEARCH FOR THIAZOLIDON DERIVATES MEANS WITH IMMUNOMODULATING ACTIVITY IN EXPERIMENTAL IMMUNODEFICIENCY**

**Olesya Poshyvak**

Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

### **COMBINATORIAL BIOSYNTHESIS AS A STRATEGY OF NEW BIOLOGICALLY ACTIVE COMPOUNDS CREATION**

**Dima Klymyshin**

Ivan Franko National University of Lviv, Ukraine

## Genomics

### *Session Chairs*

***Ludmila Livshits***

Human Genomics Department, Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

***Ramkumar Menon***

The Perinatal Research Center, Centennial Women's Hospital, Nashville, TN, USA  
& Department of Epidemiology, School of Public Health,  
Emory University, Atlanta, GA, USA

***Maciej Kurpisz***

Institute of Human Genetics Polish Academy of Science Unit of Reproductive Biology,  
Poznan, Poland

**HEPATIC GENE EXPRESSION IN PRAGUE HEREDITARY  
HYPERCHOLESTEROLEMIC (PHHC) RAT – A MODEL OF POLYGENIC  
HYPERCHOLESTEROLEMIA**

**Miluse Zimolová**

Institute for Clinical and Experimental Medicine, Prague, Czech Republic  
Centre of Cardiovascular Research, Prague, Czech Republic

**OVER EXPRESSION OF EEF1 SUBUNITS IN HUMAN LUNG CARCINOMAS**

**Maryna Veremieva**

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

**THE ADAPTOR PROTEIN RUK/CIN85 IS INVOLVED IN THE REGULATION OF  
HYPOXIA-INDUCED GENE EXPRESSION**

**Anatoly Samoylenko**

Palladin Institute of Biochemistry,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

**16:30 pm Coffee Break and 10 Parallel Poster Sessions**

Cancer Research and Prevention

Cardiovascular Diseases and Prevention

Mother and Child Health Reproductive Health

Inflammatory and Immune Response

Nanotechnology

Cell Biology

Drug Development and Pharmaceutical Research

Genomics

Proteomics

Metabolomics

**17:30 pm Oral presentations**

**Proteomics**

***Session Chairs***

***Mykhaylo A. Tukalo***

Department of Protein Biosynthesis, Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

**Zoran Dogas**

Department of Neuroscience, University of Split School of Medicine, Croatia

**Tatiana Borisova**

Department of Neurochemistry, Palladin Institute of Biochemistry  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

## **CYSTEINYL PEPTIDE ENRICHMENT IN COMBINATION WITH ITRAQ AS A TOOL FOR DISCOVERING LOW ABUNDANCE PROTEIN BIOMARKERS**

**Tambor Vojtech**

Institute of Molecular Pathology, Faculty of Military Health Sciences,  
University of Defence, Hradec Kralove, Czech Republic

## **ITSN2 ADAPTOR PROTEIN: FUNCTIONAL COMPARISON AND IMPACT ON EARLY DEVELOPMENT**

**Olga Novokhatska**

Institute of Molecular Biology and Genetics,  
National Academy of Sciences of Ukraine, Kyiv, Ukraine

# **Metabolomics**

## ***Session Chairs***

***Andriy Sibirny***

Director of the Institute of Cell Biology, National Academy of Sciences of Ukraine

***Katarina Sebekova***

Institute of Preventive and Clinical Medicine, Slovak Medical University,  
Bratislava, Slovakia

***Chander P. Arora***

Director, Perinatal Research Laboratory, Department of Obstetrics & Gynecology,  
Cedars – Sinai Medical Center, Los Angeles, CA USA

## **PHOSPHATIDYLCHOLINE-ENRICHED DIET AMELIORATES THE ENDOTOXIN-INDUCED INFLAMMATION IN THE HIPPOCAMPUS AND THE COLON**

**Gabor Eros**

Institute of Surgical Research, University of Szeged, Szeged, Hungary

## **18:45 – 19:15 pm Overview of the Young Scientists Forum**

April 11, 2010 from 8:00 – to 12:00

## RECOOP Young Scientists Love 3Cs:

- ✓ Competitive for Grants,
- ✓ Cool in Research
- ✓ Creative in Innovation

## Face to Face with Successful Scientists:

### Moderator:

#### **Chander P. Arora**

Director, Perinatal Research Laboratory, Department of Obstetrics & Gynecology  
Cedars-Sinai Medical Center and Scientific Manager of the RECOOP HST Consortium

### Assistant:

#### **Kristin Martinez**

Senior Administrative Services Associate, Department of Surgery, Cedars-Sinai Medical  
Center & NIH Program Coordinator of the RECOOP HST Consortium

### Panel:

#### **Professor Waclaw Szybalski,**

Professor Emeritus of Oncology, McArdle Laboratory for Cancer Research,  
University of Wisconsin Medical School

#### **Professor Karl Maramorosch**

Starkey Professor of Microbiology and Professor of Entomology, Cook College  
Department of Entomology, Rutgers, the State University of New Jersey

#### **Professor Dipak K. Das**

Director, Cardiovascular Division, Department of Surgery,  
University of Connecticut School of Medicine

#### **Professor Jay P. Mohr**

Daniel Sciarra Professor  
Columbia University, department of Neurological Institute, New York

#### **Professor William J. Britt**

University of Alabama-Birmingham, department of Pediatrics

#### **Professor S. Moein Moghimi**

University of Copenhagen, department of Pharmaceutics and Analytical Chemistry,

#### **Professor Pavel Bostik**

Director – Center for Advanced Studies, Faculty of Military Health Sciences  
University of Defence, Hradec Kralove, Czech Republic