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# Conference Schedule

## Thursday, June 4, 2015

12:00 - 14:50 Registration

15:00 - 16:00 Opening Ceremony and Inauguration of the "Iosif Nagy" Laboratory of Body Composition Analysis

16:00 - 16:20 Coffee Break

16:20 - 17:00 **Keynote Lecture: Dorina Kosztin** (University of Missouri, Columbia)  
Flipping your class: advantages and pitfalls

17:00 - 18:00 **Oral Presentation Session 1**

Chair: Ioan Kosztin (Columbia, MO, USA)

17:00 **Dániel Zölei-Szénási** (University of Szeged, Hungary)  
Multimodal imaging of cerebrovascular processes

17:20 **Eugenia Kovacs** (Carol Davila University of Medicine and Pharmacy București)  
Membrane lipids rearrangement in presence of bioactive compounds: antibiotics, bacteria and bacterial toxins

17:40 **Zoltán Bálint** (University of Graz, Austria)  
Pulmonary arterial tortuosity as a non-invasive diagnostic tool for pulmonary hypertension

18:00 - 19:30 **Poster Session (odd poster numbers)**

20:00 - 22:30 Cocktail (Hotel Continental, Timișoara)



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## Friday, June 5, 2015

### 8:20 - 11:00 Oral Presentation Session 2

Chairs: Monica Florescu (Brașov), Aurel Popescu (București)

- 8:20 **Ovidiu David** (Victor Babeș University of Medicine and Pharmacy Timișoara)  
The impact of head positioning on Tweed's cephalometric analysis of lateral skull telerradiographs
- 8:40 **Dana Cucu** (University of Bucharest, Faculty of Biology)  
The unglycosylated form of the transient receptor potential melastatin 8 (TRPM8) is a marker of pancreatic cancer
- 9:00 **László Zimányi** (Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary)  
Structure-function relationships across the cytochrome *b561* protein family
- 9:20 **Csaba Bagyinka** (Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary)  
Hydrogenase enzyme, a very specific molecular machinery
- 9:40 **Monica Florescu** (Transilvania University Brașov)  
Development and characterization of layer-by-layer enzyme biosensors using label-free methods
- 10:00 **Aurel Popescu** (University of Bucharest, Faculty of Physics)  
Biosystem high technical performances as legitimacy of bionics
- 10:20 **András Dér** (Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary)  
Development of an integrated optical biosensor
- 10:40 **Pál Ormos** (Biological Research Centre of the Hungarian Academy of Sciences, Szeged, Hungary)  
Extending optical micromanipulation using objects with special shape

11:00 - 11:20 Coffee Break

11:20 - 13:00 **Poster Session (even poster numbers)**

13:00 - 14:00 Lunch

### 14:00 - 17:00 Oral Presentation Session 3

Chairs: Dan Mihăilescu (București), Constantin Lucaci (Cluj-Napoca)

- 14:00 **Adriana Isvoran** (West University of Timișoara, Faculty of Chemistry)



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A molecular docking approach concerning the effects of herbicides and fungicides on the soil enzymatic activities

14:20 **Lorant Janosi** (National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca)

Mechanisms of Interaction of Short Arginine-, Tryptophan- and Histidine-Based Antimicrobial Peptides with Lipid Membranes

14:40 **Ioan Kosztin** (University of Missouri, Columbia)

Predictive modeling of the dynamics of multicellular systems

15:00 **Lucaciu Constantin** (Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca)

Synthesis, physicochemical characterisations and hyperthermic properties of PEG-ylated magnetic nanoparticles

15:20 **Dan Mihăilescu** (University of Bucharest, Faculty of Biology)

Experiments and molecular modeling on GHz-THz sensing of camel single domain antibodies binding to lysozyme

15:40 **Gheorghe Ioan Mihalăș** (Victor Babeș University of Medicine and Pharmacy Timișoara)

Mathematical Modeling and Computer Simulation in Molecular Biology. Evolution of Models on P53 - MDM2 Interaction

16:00 **Rareș Știufiuc** (Iuliu Hațieganu University of Medicine and Pharmacy Cluj-Napoca)

Chiral intermolecular interactions investigated by SERS

16:20 **Ioana Mozoș** (Victor Babeș University of Medicine and Pharmacy Timișoara)

Blood pressure variables and pulse wave velocity

16:40 **Mihaela Moisescu** (Carol Davila University of Medicine and Pharmacy București)

On the biocompatibility properties of mesostructured silica nanomaterials

17:00 - 17:20 Coffee Break

17:20 - 18:20 **Oral Presentation Session 4**

Chair: Lorant Janosi (Cluj-Napoca)

17:20 **Răzvan Airini** (University of Bucharest, Faculty of Biology)

The study of conformational changes of bovine serum albumine due to pH and concentration variations

17:40 **Octavian Călborean** (University of Bucharest, Faculty of Biology)

Modeling the NDM-1 enzyme function using molecular docking and QM/MM methods

18:00 **Corina Ciobănașu** (Alexandru I. Cuza University of Iași)

A biomimetic system for reconstitution of actomyosin-dependent mechanosensitive protein complexes



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18:20 - 19:20 General Assembly of RSPAB

20:00 - 23:00 Gala Dinner

## Saturday, June 6, 2015

### 8:20 - 10:40 Oral Presentation Session 5

Chairs: Ioan Turcu (Cluj-Napoca), Tudor Savopol (București)

- 8:20 **Danina Muntean** (Victor Babeș University of Medicine and Pharmacy Timișoara)  
Novel Synthetic Benzopyranyl Analogues Act As Uncoupling Protonophores and Decrease ROS Production in Isolated Rat Heart Mitochondria
- 8:40 **Irina Șchiopu** (Alexandru I. Cuza University of Iași)  
Nanopore-based assay for chiral recognition by metals
- 9:00 **Francoise Marga** (Modern Meadow Inc., USA)  
Predictive modeling of the dynamics of multicellular systems
- 9:20 **Tudor Savopol** (Carol Davila University of Medicine and Pharmacy București)  
Optical methods for single cell studies of membrane biophysical parameters
- 9:40 **Mihaela Bacalum** (Horia Hulubei National Institute for Physics and Nuclear Engineering, Măgurele)  
Therapeutic potential of de novo synthesized antimicrobial peptides
- 10:00 **Sorin Miron** (Gr. T. Popa University of Medicine and Pharmacy Iași)  
Overexposing the patients in imaging explorations with ionizing radiations - posology of risk
- 10:20 **Ioan Turcu** (National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca)  
Reporting Negative Results May Increase a Paper's Impact. The Artifactual Nature of Stavudine Binding to Human Serum Albumin

10:40 - 11:00 Coffee Break

11:00 - 12:00 Closing Ceremony

12:00 - 13:00 Lunch

13:30 - 22:00 Touristic Program