NEW FRONTIERS IN CHEMISTRY:

SPECIAL ISSUE EDITION

The Annual International Conference of the
Romanian Society for Biochemistry & Molecular Biology
8 – 9 June 2017, Timișoara

Conference Sections:
• Correlation Structure–Properties in Biological Models - Drug Design
• Biochemistry and Molecular Biology in Clinical Medicine and Pharmacy
• Biochemistry and Molecular Biology in Plants and Animals Models
• Biotechnologies and Biochemical Interactions in Environmental Sciences

Satellite Training Events, 7th June, 2017:
• Intensive course in clinical practice: „Real Time Polymerase Chain Reaction” (for details please follow this link)
• Use of UPLC MS in Biochemistry peptide separation (Prepared by Chromaktiv, partner of Waters) (for details please follow this link)

Thursday, 8th June, 2017:
8:00-10:00 Participants registration
10:00-10:15 Opening Conference 2017
10:15-10:50 Keynote Plenary Lecture:
Angel RAYA-CHAMORRO – Biomedical applications of induced reprogramming
10:50-11:25 Keynote Plenary Lecture:
Rainer FISCHER – Latest Developments in Molecular Farming – Production of Biopharmaceuticals in Plants
11:25-11:45 Short Talk:
Katja SCHREITER, Market Development Manager Applied Genomics – miRNA solutions @QIAGEN
11:45-12:00 Coffee Break
12:00-12:20 Short Talk:
Jasmin MOSS – IMAG(in)E SIMPLICITY: Cellular imaging and High Content Analysis tools by ThermoFisher Scientific
12:20-12:40 Short Talk:
Ayca ULGEN – Single-Cell Analysis Made Simple with Bio-Rad workflow
12:40-13:00 Short Talk:
Lutz BÜCHNER – CESI-MS method in proteomics, metabolomics and biopharmaceutical biosimilarity assessment. SCIEX Separations
13:00-14:30 Lunch
14:30-17:00 Sections Presentations (different Conference Rooms)
17:00-18:00 Poster Session & Sponsors Stands
18:00-19:00 General Meeting
19:30-22:00 Festive dinner

**Friday, 9th June, 2017:**
9:00-9:35 Keynote Plenary Lecture
Adrian ANGHEL – The Drug Discovery Program at Translational Oncology Research Laboratories. An integrated approach
9:35-10:10 Keynote Plenary Lecture
Andrei-Jose PETRESCU – Computational Assisted Research in Molecular Life Sciences
10:10 -10:25 Coffee break
10:25-11:00 Keynote Plenary Lecture
Costel C. DARIE, – Applications of mass spectrometry in biomedical research
11:00-11:20 Short Talk
Rainer ROZENICH – Current worldwide trend in regulation for the biosimilar industry (Waters: Separations – Business)
11:20-11:40 Short Talk
Matthias SZESNY – Increasing arginine production in C. glutamicum by rational strain design using a combination of metabolomics and proteomics (Bruker)
11:40-12:00 Short Talk
Name Speaker – Multiparameter molecular biology genetic testing (Novaintermed-Fujirebio)
12:00-12:50 Poster Session & Sponsors Stands
12:50-13:00 Votes Collection & Poster Awards
13:00-13:10 Concluding Remarks of RSBMB Conference 2017
13:10-13:20 Closing Ceremony
17:00-21:00 Visits at Izvin Stud Farm and Recas Winery
ORAL PRESENTATION FOR SECTION:

CORRELATION STRUCTURE–PROPERTIES IN BIOLOGICAL MODELS – DRUG DESIGN

Chairpersons: Andrei PETRESCU and Adriana ISVORAN

S1_OP01
14:30-14:45 – Petrescu Andrei J., Department of Bioinformatics and Structural Biochemistry, IBAR - Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Computational Assisted Research in Molecular Life Sciences

S1_OP02
14:45-15:00 – Milac Adina-Luminița, Department of Bioinformatics and Structural Biochemistry, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, In silico investigation of protein-ligand interaction

S1_OP03
15:00-15:15 – Adriana ISVORAN, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, Chemoinformatics of xenobiotics

S1_OP04
16:00-16:15 – Spiridon Laurentiu, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Using Robotics to Enhance Molecular Sampling
**Posters for Section:**

**Correlation Structure–Properties in Biological Models – Drug Design**

**S1_P01**
**Surleac D. Marius,** Department of Bioinformatics, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Structural insights into the functional divergence of human Topoisomerase IIα and IIβ on the decatenation checkpoint*

**S1_P02**
**Bumbăcilă Bogdan,** Laboratory of Computational and Structural Physical-Chemistry for Nanosciences and QSAR, Department of Biology-Chemistry, Faculty of Chemistry, Biology, Geography at West University of Timișoara, Timișoara, Romania, *Towards cubic clef method in QSAR*

**S1_P03**
**Icriverzi Madalina,** Department of Ligand-Receptor Interaction, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Design and molecular docking study of the noncleavable antibiotic hybrids; theoretical studies*

**S1_P04**
**Gridan Mădălin,** Department of Biology-Chemistry, West University of Timișoara, Timișoara, Romania, *Toxicity profiles and predicted biological effects on humans and environment of some pesticides used for wheat crops*

**S1_P05**
**Roman Marin,** “Victor Babeș” University of Medicine and Pharmacy of Timișoara, Romania, *Computational assessment of the biological effects of synthetic anabolic steroids on humans and environment*

**S1_P06**
**Șisu Eugen,** Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Luminescent Nanoparticles Obtained by Thermal Decomposition of Coordination Compounds*

**S1_P07**
**Șisu Eugen,** Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Luminescent TLC and Densitometric Analysis of Methanol Extracts from Marine Algae*
S1_P08
Șisu Eugen, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Long Bonds Involved in EI-MS Fragmentation of Aldose Derivatives Predicted using Advanced Basis Sets

S1_P09
Surleac Marius D, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Roles of the C-terminal Domains of Topoisomerase IIα and Topoisomerase IIβ in Regulation of the Decatenation Checkpoint
ORAL PRESENTATION FOR SECTION:

BIOCHEMISTRY AND MOLECULAR BIOLOGY IN CLINICAL MEDICINE AND PHARMACY

Chairpersons: Adrian ANGHEL and Ioan-Ovidiu SÎRBU

S2_OP01
14:30-14:45 – Marija GAVROVIĆ-JANKULOVIĆ, Department of Biochemistry, Faculty of Chemistry, University of Belgrade, Serbia, Allergen interactions with intestinal epithelial cells can contribute to the sensitization process in food allergy

S2_OP02
14:45-15:00 – Ioan-Ovidiu SÎRBU, Department of Biochemistry, University of Medicine and Pharmacy, Timisoara, Romania, Plasma microRNAs in Parkinson's disease

S2_OP03
15:00-15:15 – Manuela BANCIU, Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, “Babes-Bolyai University, Cluj-Napoca, Romania, Improving the efficacy of tumor-targeted therapies using tumor-associated macrophages re-education strategies

S2_OP04
15:15-15:30 – Denise-Minerva DROTAR, Department of Molecular Biology and Biotechnology, Babes-Bolyai University, Cluj-Napoca, Romania, Liposomal prednisolone phosphate enhanced the antitumor activity of liposomal doxorubicin in B16.F10 murine melanoma in vivo

S2_OP05
15:30-15:45 – Emilia LICARETE, Department of Molecular Biology and Biotechnology, Babes-Bolyai University, Cluj-Napoca, Romania, A novel combination therapy for the treatment of melanoma by targeting tumor cell proliferation and angiogenesis
S2_OP06
15:45-16:00 – Valentin-Florian RAUCA, Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babes-Bolyai University, Cluj-Napoca, Romania, Enhanced antitumor efficacy induced by the coadministration of Simvastatin and DMXAA on an in vitro melanoma inflammation model

S2_OP07
16:00-16:15 – Lavinia LUPUȚ, Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babes-Bolyai University, Cluj-Napoca, Romania, Efficacy of the liposomal simvastatin in the colon carcinoma treatment approach

S2_OP08
16:15-16:30 – Laura PATRAS, Department of Molecular Biology and Biotechnology, Faculty of Biology and Geology, Babes-Bolyai University, Cluj-Napoca, Romania and Molecular Biology Centre, Institute for Interdisciplinary Research in Bio-Nano-Sciences, Babes-Bolyai University, Cluj-Napoca, Romania, Combination therapy of liposomal prednisolone and 5-fluorouracil exerts strong anti-angiogenic and anti-inflammatory effects on C26 colon carcinoma

S2_OP09
16:30-16:45 – Costin Ioan POPESCU, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Phosphoinositide 3-kinases class II are regulating Hepatitis C Virus life cycle
POSTERS FOR SECTION:

BIOCHEMISTRY AND MOLECULAR BIOLOGY IN CLINICAL MEDICINE AND PHARMACY

S2_P01
Liana-Gabriela GRUESCU, Department of Biochemistry, University of Medicine and Pharmacology Timisoara, Romania, *miRNAs as diagnostic biomarkers of acute myocardial infarction*

S2_P02
Mădălina ICRIVERZI, Department of Ligand-Receptor Interaction, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Mesenchymal stem cell behavior on polymeric surfaces*

S2_P03
Mădălina ICRIVERZI, Department of Ligand-Receptor Interaction, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *In vitro biocompatibility testing of Cloisite-based nanocomposites for chemotherapeutic drug delivery systems*

S2_P04
Florian PAULA, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Novel lactoferrin-derived peptides with anti-hepatitis B virus capacity*

S2_P05
Florian PAULA, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Physical-chemical characterization and biological assessment of bovine derived hydroxyapatite thin films synthesized by pulsed laser deposition for a new generation of metallic implants*

S2_P06
Maria SALA-CÎRTOG, University of Medicine and Pharmacy “Victor Babes”, Timisoara, Romania, *Plant microRNA identification & transfer – A new dimension to herbal medicine*

S2_P07
Marian DIANA, Department of Biochemistry, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania, *The influence of vitamin D serum level on periodontal parameters*
S2_P08
Andreea-Anda ALEXA, Department of Biochemistry, University of Medicine and Pharmacology Timisoara, Romania, *Short term activation of canonical WNT signaling pathway inhibits proliferation of LNCaP cells*

S2_P09
Anca MARCU, Department of Biochemistry, University of Medicine and Pharmacology Timisoara, Romania, *Differentially expressed long non-coding RNAs related to dietary interventions in a mouse model*

S2_P10
Andrei ANGHEL, Department of Biochemistry, University of Medicine and Pharmacology Timisoara, Romania, *RNA-markers in endometrial cancer*

S2_P11
Ioana POPA, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *New tools for discovering inhibitors of the receptor for advanced glycation end products*

S2_P12
Nevena MARKOVIĆ, Center of Chemistry, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Serbia, *Omega-transaminase in synthesis of potential pharmaceutical active ingredients*

S2_P13
Simona GHENEA, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Differential requirement for EDEM proteins in Endoplasmic Reticulum Associated Degradation (ERAD) in a living organism*

S2_P14
Cristina BEJINAR, Department of Biochemistry, University of Medicine and Pharmacy, Timisoara, Romania, *Plasma microRNAs in Parkinson's disease*

S2_P15
Florentina PENA, Institute of Biochemistry, Department of Molecular Cell Biology, Bucharest, Romania, *P5 – an endoplasmic reticulum protein with multiple functions*
S2_P16
Florin PASTRAMĂ, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Optimization of protein-protein interaction protocols for Hepatitis C Virus protein interactome determination

S2_P17
Ștefana-Gheorghina DEZSI, West University of Timișoara, Department of Biology-Chemistry, Timișoara, Romania, Selenium compounds and the Oxidative Stress

S2_P18
David PATRICHE, Department of Viral Glycoproteins, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Selection of phosphoinositide 3-kinases class II depleted cell lines for functional studies in Hepatitis C Virus life cycle

S2_P19
Gabriela CHIRIȚOIU, Department of Molecular Cell Biology, Institute of Biochemistry, Bucharest, Romania, Role of Iba1 in amyloid peptide clearance by murine microglia

S2_P20
Cristian MUNTEANU, Department of Bioinformatics & Structural Biochemistry, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, An integrated workflow for the identification of an ERAD mannosidase potential substrates

S2_P21
Gabriela CHIRIȚOIU, Department of Molecular Cell Biology, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Tyrosinase N-glycosylation site occupancy analysis using mass spectrometry

S2_P22
Andrei JUNCU, Department of Viral Glycoproteins, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Identification of inhibitors of Hepatitis C Virus NS2 cysteine protease activity using high throughput screening

S2_P23
Anda Cornelia VIZITIU, PhD student, Victor Babes University of Medicine and Pharmacy Timisoara Doctoral School, Timisoara, Romania, qRT-PCR evaluation of selected microRNAs’ expression in amniotic fluid and chorionic villus samples from Down syndrome pregnancies
S2_P24
Alina SESARMAN, Department of Molecular Biology and Biotechnology, “Babes-Bolyai” University, Cluj-Napoca, Romania, *Cytotoxicity of long-circulating liposomes co-encapsulating curcumin and doxorubicin on C26 murine colon cancer cells*

S2_P25
Rodica BADEA, Department of Enzymology, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Identification of a protein tyrosine phosphatase that dephosphorylates PLCγ2*

S2_P26
Mariana VOICESCU, Romanian Academy, Institute of Physical Chemistry “Ilie Murgulescu”, Bucharest, Romania, *Secondary Structure of Human Serum Albumin in Riboflavin loaded Myrj52-Silver Nanoparticles*

S2_P27
Georgiana MANICA, Department of Molecular Cell Biology, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *EDEM3 and its function in ERAD*

S2_P28
Cristina POPESCU, Arad County Hospital, Clinic of Urology Arad, Romania, *Clinical Relevance Of Global DNA Methylation In White Blood Cells Of Prostate Cancer Patients*

S2_P29
Elena GANEA, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *Protein Folding, and the Ages Efect on Amyloid Formation. Advanced Mass Spectrometrical Analysis of Glycated BSA, and Comparative Proteomic Screening of Temporal and Hyppocampal Healthy, Old Brain Tissue*
ORAL PRESENTATION FOR SECTION:

BIOCHEMISTRY AND MOLECULAR BIOLOGY IN PLANT AND ANIMAL MODELS

Chairpersons: Angel RAYA-CHAMORRO and Carmen SOCACIU

S3_OP01
14:30-14:50 – Carmen SOCACIU, Department of AgriFood Biochemistry, University of Agriculture Sciences and Veterinary Medicine Cluj-Napoca, Romania, *High-throughput omics technology applied to fingerprint and elucidate metabolic profiles and pathways.*

S3_OP02
14:50-15:10 – Adela PINTEA, Department of Chemistry and Biochemistry, University of Agriculture Sciences and Veterinary Medicine Cluj-Napoca, Romania, *Biological activity of polyphenols - evidence from in vitro tests.*

S3_OP03

S3_OP04
15:30-15:50 – Ioan HUȚU, Department of Animal Science, Faculty of Veterinary Medicine, Banat University of Agricultural Science and Veterinary Medicine “Michael I of Romania”, Timisoara, Romania, *Tips and Facts for Animal Study Proposal in "Horia Cernescu" Experimental Units.*

S3_OP05
15:50-16:10 – Sofia POPESCU, Faculty of Food Processing Technologies, Banat University of Agricultural Science and Veterinary Medicine “Michael I of Romania”, Timisoara, Romania, *Chemical and biological active compounds in plants and alcoholic extracts belonging to Lamiaceae family.*

S3_OP06
16:10-16:30 – Sofia POPESCU, Faculty of Food Processing Technologies, Banat University of Agricultural Science and Veterinary Medicine “Michael I of Romania”, Timisoara, Romania, *Physical-chemical Characterization of some Local Fruits in the Banat Area Proposed for Harness.*
Posters for Section:

Biochemistry and Molecular Biology in Plant and Animal Models

S3_P01
Gabriela BUNU, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, Gerontomics: a multi-omics prediction system for prioritization of gerontological interventions

S3_P02
Simona MARC, Department of Reproduction, Obstetrics and Veterinary Gynecology, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” Timisoara, Romania, In vitro maturation of domestic cat oocyte in medium supplemented with antioxidants through different time interval

S3_P03
Alexandru PETRUTA, Department of Molecular Cell Biology, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, The role of ERAD pathway in insulin synthesis and secretion in pancreatic β-cells and diabetes mellitus

S3_P04
Alin CIOBICA, Department of Molecular and Experimental Biology, “Alexandru Ioan Cuza” University, Iasi, Romania, Ten days intraperitoneally oxytocin administration results in antioxidant effects in Wistar rats

S3_P05
Alin CIOBICA, Department of Molecular and Experimental Biology, “Alexandru Ioan Cuza” University, Iasi, Romania, The effects of branchial and tegmental exposure of zebrafish to oxytocin on the oxidative stress status

S3_P06
Alin CIOBICA, Department of Molecular and Experimental Biology, “Alexandru Ioan Cuza” University, Iasi, Romania, Intraperitoneal administration of two doses of oxytocin in Carassius auratus exerts antioxidant effects
S3_P07

Alin CIOBICA, Department of Molecular and Experimental Biology, “Alexandru Ioan Cuza” University, Iasi, Romania, *No clear effects of oxytocin in a rat epigenetic model of schizophrenia based on methionine administration*

S3_P08

Alin CIOBICA, Department of Molecular and Experimental Biology, “Alexandru Ioan Cuza” University, Iasi, Romania, *Oxytocin administration is reducing lipid peroxidation levels in aged rats*

S3_P09

Olena KUCHMENKO, National Pedagogical Dragomanov University, Kyiv, Ukraine, *Protective effect of ubiquinone-10 and complex of precursors and modulator of its biosynthesis on heart under doxorubicin treatment*

S3_P10

Mirela AHMADI, Department of Biochemistry and Molecular Biology, Faculty of Veterinary Medicine, Banat’s University of Agricultural Sciences and Veterinary Medicine “King Michael I of Romania” from Timisoara, Romania, *Hematological Investigations after Ferrous Gluconate Administration in Animal Model*

S3_P11

Ștefan HULEA, Health, Wellness & Fitness, Toronto, Canada, *Plants and microorganisms may prove to be the best source of essential fatty acids for humans*

S3_P12

Ioan GOGOAȘĂ, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, *Preliminary researchs on bioaccessible content of Ca and Mg from instant coffee*

S3_P13

Cornelia MILOVANOV, Faculty of Veterinary Medicine, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, *Oviduct-specific glycoprotein role and effect on IVF embryos development*

S3_P14

Cornelia MILOVANOV, Faculty of Veterinary Medicine, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, *Stem Cells Therapies – perspectives*
S3_P15
Sorina POPESCU, Faculty of Horticulture and Forestry, Banat University of Agricultural Sciences and Veterinary Medicine “King Mihai I of Romania” Timisoara, Romania, Traceability of genetically modified (GM) DNA from farm to fork

S3_P16
Oana-Maria BOLDURA, Faculty of Veterinary Medicine, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, Evaluation of Plant Variability Based on Molecular Markers Technology

S3_P17
Camelia TULCAN, Faculty of Veterinary Medicine, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, Preliminary Study Regarding Biochemical Composition of Pikeperch (Sander lucioperca) Fresh Semen

S3_P18
Gabriel BARLABAN, Faculty of Veterinary Medicine, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, Hematological modifications induced by enzootic bovine leukemia Retrovirus

S3_P19
Alexandru RINOVETZ, Faculty of Food Processing Technologies, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, PCA Integration in the Effectiveness Interpretation of Dry Fractionation Operation in Centrifugal Field on a Natural Lipid Mix

S3_P20
Narcisa MEDERLE, Faculty of Food Processing Technologies, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, The diagnostic value of hematology and blood biochemistry in piodemodicosis

S3_P21
Iuliana POPESCU, Department of Chemistry, Banat University of Agricultural Science and Veterinary Medicine King Michael I of Romania, Timisoara, Romania, Fatty acids profile of Argan oils
S3_P22

Alexandru RINOVETZ, Faculty of Food Processing Technologies, Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania”, Timisoara, Romania, Technical-economic study of natural storage for vegetal raw material – Red onion

S3-P23

Monica DRAGOMIRESCU, Faculty of Animal Science and Biotechnologies„ Banat’s University of Agricultural Science and Veterinary Medicine” King Mihai I of Romania” Controlled release of enzymes from porous matrices
**ORAL PRESENTATION FOR SECTION:**

**BIOTECHNOLOGIES AND BIOCHEMICAL INTERACTIONS IN ENVIRONMENTAL SCIENCES**

**Chairpersons:** Rainer FISCHER and Radivoje PRODANOVIC

---

**S4_OP01**

14:30-14:45 – Ostafe Raluca, Department of Molecular Biotechnology, RWTH Aachen University, Aachen, Germany, *Ultra-high-throughput Screening Systems Based on Flow Cytometry and Microfluidic Devices for Directed Evolution of Different Enzyme Classes*

**S4_OP02**

14:45-15:00 – Prodanovic Radivoje, Faculty of Chemistry, University of Belgrade, Studentski trg 12, Belgrade, Serbia, *Development of ultrahigh-throughput screening platforms for directed evolution of glucose oxidase*

**S4_OP03**

15:00-15:15 – Cristea Adorján, Department of Molecular Biology and Biotechnology, Babeș-Bolyai University, Cluj-Napoca, Romania, *Physical and chemical detection of polyhydroxybutyrate from Halomonas elongata strain 2FF*

**S4_OP04**

15:15-15:30 – Boros Bianca-Vanesa, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Optimization of the ninhydrin reaction method for the estimation of acetylation degree of chitosan*

**S4_OP05**

15:30-15:45 – Vulpe Bianca, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Use of polyacrylamide gel electrophoresis for estimation of degree of polymerization of chitosan*

**S4_OP06**

15:45-16:00 – Roman Diana Larisa, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Structural bioinformatics characterization of chitin deacetylases*
S4_OP07
16:00-16:15 – Boros Bianca-Vanesa, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, Preliminary results of an enzymatic test battery development for the assessment of toxicity of biopolymers

S4_OP08
16:15-16:30 – Matica Adina, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, 3,5-Dinitrosalicylic acid method: an evaluation of enzymatic hydrolysis of chitosan

S4_OP09
16:30-16:45 – Matica Adina, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, Natural polymers used as wound dressings and their effect on microbial growth

S4_OP10
16:45-17:00 – Isvoran Adriana, Department of Biology-Chemistry, West University of Timișoara, Timișoara, Romania, Computational assessment of the pharmacokinetics properties of some water soluble chitosan derivatives

S4_OP11
17:00-17:15 – Vlad-Oros Beatrice, Department of Biology-Chemistry, West University of Timisoara, Romania, Environmental and clinical applications of chitosan
**POSTERS FOR SECTION:**

**BIOTECHNOLOGIES AND BIOCHEMICAL INTERACTIONS IN ENVIRONMENTAL SCIENCES**

---

**S4_P01**

**Blazic Marija**, Faculty of Chemistry, University of Belgrade, Studentski trg 12, Belgrade, Serbia, *Directed evolution of the cellobiose dehydrogenase from Phanerochaete chrysosporium in yeast Saccharomyces cerevisiae*

**S4_P02**

**Pahomi Alexandru**, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Preliminary studies on the physicochemical properties of chitosan membranes*

**S4_P03**

**Duda-Seiman Corina**, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Extraction and antibacterial activity of natural compounds from walnuts (Juglans regia)*

**S4_P04**

**Martin Eliza**, Department of Bioinformatics, Institute of Biochemistry of the Romanian Academy, Bucharest, Romania, *De novo Peptide Design for Enhanced Heavy Metal Accumulation*

**S4_P05**

**Boiăngiu Razvan-Stefan**, Faculty of Biology, Alexandru Ioan Cuza University of Iasi, Romania, *Assessing the presence of nic-genes in Arthrobacter sp. AK-YN10*

**S4_P06**

**Zelenović Nevena**, Faculty of Chemistry, University of Belgrade, Studentski trg 12, Belgrade, Serbia, *Cellobiose dehydrogenase based screening system for directed evolution of cellulase from Trichoderma reesei*

**S4_P07**

**Balaž Ana Marija**, Center of Chemistry, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, 11000 Belgrade, Belgrade, *Semi rational design of cellobiose dehydrogenase from Phanerochaete chrysosporium for increased oxidative stability*
S4_P08
Nešić Andrijana, Department of Biochemistry, University of Belgrade, Serbia, *Cloning, expression and purification of recombinant β-1,3-glucanase, allergen from banana, in the prokaryotic expression system*

S4_P09
Spasojević Milica, Innovative Center of the Faculty of Chemistry, University of Belgrade, Belgrade, Serbia, *Preparation of macroporous particles based on glycidyl methacrylate and ethylene glycol dimethacrylate for the enzyme immobilization*

S4_P10
Popović Nikolina, Faculty of Chemistry, University of Belgrade, 11000 Belgrade, Serbia, *Modification of carboxymethylcellulose with phenols for peroxidase induced hydrogels formation and electrospinning*

S4_P11
Mrkic Ivan, Faculty of Chemistry, University of Belgrade, Serbia, *Evaluation of specific immune response after immunization of mice with Der p 2 and Der p 2-hemagglutinin chimera conjugated to gold nanoparticles*

S4_P12
Preda Gabriela, Department of Biology-Chemistry, West University of Timisoara, Timisoara, Romania, *Bioremediation of waters polluted with heavy metals*