



Facultatea de
Biologie și Geologie
UNIVERSITATEA BABES-BOLYAI



Institute of Biochemistry

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September 13-15, 2023 - Cluj-Napoca, Romania

POSTER SESSION - September 14th (18:10-19:00)

Bio and nanotechnologies for biomedical and environmental applications	<i>pH-responsive nanocapsules for anthocyanins encapsulation, delivery, intracellular tracking, and controlled release inside B16-F10 melanoma cells</i>	Adela Maria Dăescu , Mădălina Nistor, Monica Focșan, Roxana Pop, Adela Pinteau, Maria Suci, Dumitrița Rugină
	<i>Design and preclinical testing of an anti-CD41 CAR T cell for the treatment of acute Megakaryoblastic leukemia</i>	Adrian Bogdan Tigu , Catalin Sorin Constantinescu, Patric Teodorescu, David Kegyes, Raluca Munteanu, Richard Feder, Mareike Peters, Ioana Pralea, Cristina Iuga, Diana Cenariu, Andra Marcu, Alina Tanase, Anca Colita, Rares
	<i>In vitro biological performance of 3D-printed PLA-based composites as bone scaffolds</i>	Andreea Mariana Negrescu, Valentina Mitran, Florin Miculescu, Aura Catalina Mocanu, Andreea Elena Constantinescu, Anisoara Cimpean
	<i>Novel biohybrid enriched with curcumin and quercetin displays favorable properties as potential active wound dressing for biomedical applications</i>	Andreea-Daniela Lazăr (Popa) , Lea Sleiman, Maria Minodora Marin, Mădălina Georgiana Albu-Kaya, Marieta Costache, Sorina Dinescu
	<i>La(Na)3 loaded PDMAEMA NPs induce HT-29 adenocarcinoma cells apoptosis in vitro</i>	Bianca Galateanu , Alexandra Cowell, Valentina Uivarosi, Mirto Charitaki, Kelly Velonia, Ariana Hudita
	<i>Novel photosensitizing methylene blue analogues for antimicrobial photodynamic therapy</i>	Bianca Stoean , Iulia Lupan, Luiza Găină
	<i>Building a 3D printed microscope – the OpenFlexure@BioIASI project</i>	Ciurlic Maria Paula , Colpoș Andreea Monica, Ștefan Marius, Mihășan Marius
	<i>MDS cells maturation induced by ATRA differentiating agents in myelodysplastic syndromes</i>	Diana Cenariu , Adrian Bogdan Tigu, David Kegyes, Mareike Peters, Jon Thor Berghthorsson, Victor Greiff, Cenariu Mihai, Gabriel Ghiaura, Ciprian Tomuleasa
	<i>3D tumor spheroids as a model to unriddle the complexity of tumor microenvironment chemoresistance</i>	Giorgiana Negrea , Szilvia Meszaros, Ștefan Drăgan, Vlad-Alexandru Toma, Bogdan Dume, Valentin-Florian Rauca, Laura Pătraș, Emilia Licărete, Manuela Banciu, Alina Sesărman
	<i>Peptide-based therapeutics</i>	Lucian Copolovici , Andreea Gostăviceanu, Simona Gavrilăș, Dana G. Radu, Mihaela Dochia, Cristian Moisa, Andreea Ioana Lupitu, Dana Maria Copolovici
	<i>Cell behaviour modulation by new polydimethylsiloxane (PDMS) modified interfaces</i>	Madalina Icriverzi , Paula Ecaterina Florian, Anca Bonciu, Nicoleta Dumitrescu, Laurentiu Rusen, Valentina Dinca, Anca Roseanu
	<i>Biodegradable chitosan-based films for biomedical applications</i>	Mariana-Adina Matica , Alexandra Năstasie, Alexandra Tudor, Timea Kelemen, Ramona Alicu, Diana-Larisa Roman
	<i>Development of a 3D Model for Immunotherapy Evaluation in Melanoma</i>	Marta-Szilvia Meszaros , Giorgiana-Gabriela Negrea, Vlad-Alexandru Toma, Valentin-Florian Rauca, Emilia Licarete, Laura Patras, Manuela Banciu, Alina Sesarman
	<i>Miniaturized Electrochemical Biosensor for Troponin I Protein - Cardiac Biomarker Detection</i>	Mihnea Moruz , Andreea Campu, Simion Astilean, Monica Focsan
	<i>Develop a genetic engineering tool for Paenarthrobacter nicotinotrans ATCC 49919</i>	Munteanu Iustin-Tiberius , Mihășan Marius
<i>Carotenoid loaded nanocarriers - preparation and evaluation</i>	Patricia Muntean , Adela Pinteau, Andrea Bunea, Francis V. Dulf, Monica Focșan, Dumitrița Rugină	
<i>Synthesis, characterization and in vitro evaluation of a new smart responsive pNIPAM –based biopolymer with antimicrobial and antitumoral activity</i>	Paula Ecaterina Florian , Madalina Icriverzi, Anca Bonciu, Luminita Nicoleta Dumitrescu, Diana Pelinescu, Cristian Munteanu, Livia Elena Sima, Valentina Dinca, Laurentiu Rusen, Anca Roseanu	
<i>A new design of Hepatitis C Virus E2 chimeric protein oligomer as a vaccine candidate</i>	Raed Nachawati , Paula Florian, Anca Roseanu, Costin-Ioan Popescu	
<i>Resveratrol: NIR-responsive microcarrier-based polymeric delivery system to enhance its therapeutic potential towards diabetic retina cells</i>	Roxana Pop , Adrian Boldianu, Mădălina Nistor, Maria Suci, Adela Pinteau, Monica Focșan, Dumitrița Rugină	
Cellular biochemistry	<i>The endoplasmic reticulum (ER) degradation-enhancing alpha-mannosidase-like protein 3 is a host cell regulator of HBV infection</i>	Alina Ghionescu , Mihaela Uță, Cătălin Lazăr, Petruța Alexandru, Norica Nichita
	<i>Roles of transient receptor potential melastatin 8 (TRPM8) and epidermal growth factor receptor (EGFR) in glioblastoma</i>	Alina-Ana-Maria Botezatu , David-Ionuț Băcioiu, Florentina Plicu, Dana Cucu
	<i>SREB receptor family members differentially regulate protein expression and processing</i>	Badea Rodica - Aura , Anghel Andreea Sorina, Stratulat Teodora, Tunaru Sorin
	<i>Data mining and protein engineering for aromatic ammonia-lyases with enhanced activity towards challenging substrates</i>	Gyopárka Ágoston , Krisztina Boros, Raluca Bianca Tomoiağă, Dr. László-Csaba Bencze
	<i>Fluorescence imaging in real-time employed to visualize the presence of anthocyanins complexed with diphenylboric acid 2-aminoethyl inside B16-F10 melanoma cells</i>	Madalina Nistor , Monica Focșan, Luiza Gaina, Mihai Cenariu, Adela Pinteau, Carmen Socaciu, Dumitrița Rugină
	<i>Integrins and HGT – How do integrins affect HGT in multidrug resistant Gram-negative ESKAPE pathogens</i>	Matei-Ștefan Dobrescu , Dan Alexandru Țoc, Anca Butiuc-Keul
	<i>Unchanged amount, localization and activity of glucocorticoid receptor in combination therapy - inhaled nitric oxide and intravenous hydrocortisone in porcine endotoxemia model</i>	Michał Płociennik , Liliana Kiczak, Urszula Paślawska, Waldemar Gozdziak, Barbara Adamik, Marzena Zielinska, Stanisław Zieliński, Kacper Nowak, Jacek Bania, Marcin Nowak, Robert Paślawski, Claes Frostell
	<i>Altered expression of microRNA-195 might contribute to a severe outcome in SARS-CoV-2 infection</i>	Moatăr Alexandra-Ioana , Chiș Aimee Rodica, Nitusca Diana, Marian Cătălin, Oancea Cristian, Sîrbu Ioan-Ovidiu
	<i>NPC1 regulates specific cargo traffic to lysosome related organelles and melanosome biogenesis</i>	Rus Adriana Alina , Ioana Militaru, Ioana Popa, Ștefana Petrescu
	<i>GPR27, insulin secretion regulator and beyond</i>	Sorina-Andreea Anghel , Cosmin Trif, Rodica-Aura Badea, Aura-Elena Ionescu, Teodora Stratulat, Cristiana Triță, Sorin Tunaru, Ștefana M. Petrescu
<i>GPR27 inhibits Hepatitis B Virus internalisation and replication</i>	Stefania Buzatoiu , Sorin Tunaru, Norica Nichita	

	Analytical differences between hemoglobin peroxidase and enzyme-based activity in tissue lysates	Ștefan-Mihai Drăgan, Vlad-Alexandru Toma
Molecular evolution and phylogenetics	A highly syntenic nic-genes cluster is present in several related bacterial strains	Amada El-Sabeh, Andreea-Mihaela Mlesnita, Iustin-Tiberius Munteanu, Iasmina Honceriu, Fakhri Kallabi, Razvan-Stefan Boiangiu, Marius Mihasan
	The intricate relationship between the CRISPR-Cas system and antibiotic-resistance genes in <i>Klebsiella pneumoniae</i>	Dumitrana Iordache , Matei Dobrescu, Andreea Fita, Anca Butiuc-Keul
Omics-based developments in bio-medical sciences	Ion mobility mass spectrometry of human cerebellum gangliosides	Maria-Roxana Biricioiu , Mirela Sarbu, Raluca Ica, Alina D. Zamfir
	The pharmacological profile of natural compounds from <i>Aconitum sp</i>	Mernea Maria , Mares Catalina, Avram Speranta
	Glicolipidomics of human glioblastoma multiforme by ion mobility mass spectrometry	Mirela Sarbu , David E. Clemmer, Željka Vukelić, Alina D. Zamfir
	New strategies for potentiating the effect of tissue transglutaminase-fibronectin small molecule inhibitors in ovarian cancer treatment	Monica Tudor , Cristian Munteanu, Gabriela Chirițoiu, Florin Jipa, Ștefana M. Petrescu, Gary E. Schiltz, Daniela Matei, Livia E. Sima
	Absolute and Relative Expression Analysis of Plasma MicroRNAs in Patients with Prostate Cancer – A Comparison	Paula Diana Ciordas , Mirabela Romanescu, Aimee Rodica Chis, Catalin Marian, Ioan Ovidiu Sirbu
Profiling and structural characterization of gangliosides in human temporal lobe epilepsy	Raluca Ica , Kristina Mlinac-Jerković, Svjetlana Kalanj-Bognar, Cristian V.A. Munteanu, Andrei J. Petrescu, Alina D. Zamfir	
Plant and food Biochemistry	Evaluation of total iodine uptake in biofortified chilli peppers	Ana Varadi , Claudia Cimpoi, Augustin Mot
	In vitro and in vivo assessment of the antioxidant properties of <i>Apis mellifera</i> venom	Camelia Alina Gilescu (Florescu), George Bica, Elena Camelia Stănculescu, Loredana Colhon, Cătălina Gabriela Pisoschi
	Antioxidant and antiproliferative activity of anthocyanin rich extract from roses	Cosmin-Alin Faur , Marius Zăhan, Gabriela Roman, Claudiu Ioan Bunea, Eugenia Harșan, Andrea Bunea
	Valorization of carotenoid from sea buckthorn pomace using green solvents and ultrasound-assisted extraction	Cristina Gherasim , Adela Pinteia
	Toxicity of Gadolinium on <i>Stevia rebaudiana</i> grown in vitro	Florina Violeta Scurtu, Doina Clapa, Floricuța Ranga, Vasile Coman, Augustin C. Moț, Sonia Ancuța Socaci, Loredana Florina Leopold, Cristina Coman
	<i>Allium sativum</i> and <i>Allium ursinum</i> extracts: antimicrobial activity and phytochemical characterization	Ioana Andreea Barbu , Alexandra Ciorîță, Rahela Carpa, Augustin Catalin Moț, Anca Butiuc-Keul, Marcel Pârnu
	Assessing the risks of nanoplastic exposure to plants: Implications for growth and steviol glycoside production	Loredana F. Leopold , Florina V. Scurtu, Doina Clapa, Nicolae Leopold, Ștefania D. Iancu, Floricuța Ranga, Sonia A. Socaci, Cristina Coman
	Antioxidant and cytoprotective effects of <i>Sorbus aucuparia</i> L. fruit extract in gentamicin- induced nephrotoxicity on mice renal cells	Mara Aurori , Daniela Hanganu, Eموke Pall, Mihai Cenariu, Sanda Andrei
	The Effect of <i>Rhizophagus irregularis</i> on Phenolics and Essential Oil of the <i>Echinacea purpurea</i> (L.) Moench	Martin Iakab , Erzsébet Domokos, Csilla Albert, Béla Biró-Janka, Francisc V. Dulf
	Antioxidant supplementation and its impact on inflammatory and oxidative stress parameters in diet-induced obesity rats	Mihaela Cotul , Daria-Antonia Dumitraș, Alexandra Dreancă, Andrei Paul Ungur, Sanda Andrei
	The Impact of Silica Nanoparticles (SiNPs) on Some Biochemical Parameters in <i>Silybum marianum</i> Seedlings	Popovici Lucia-Florina , Oprică Lăcrămioara-Anca
	The GC-MS analysis of some volatile oils and the evaluation of their antibacterial properties against <i>S. aureus</i> and <i>E. coli</i> bacterial strains	Roberta Tripon , Cristina Gașpar, Dorin Camen, Mihaela Enea, Ramona Românu, Camelia Tulcan
	Polyphenols and antimicrobial activity in glycerol <i>Sanguisorba officinalis</i> L. and <i>Sanguisorba minor</i> Scop. Roots extracts	Tocai (Moțoc) Alexandra Cristina , Prof. Dr. Habil. Vicaș Simona Ioana
	In vitro antioxidant and antigenotoxic potential of <i>Viscum album</i> L. subsp. <i>Album</i>	Vicaș Simona Ioana , Laslo Vasile, Klezken Eva, Memete Adriana Ramona, Fertig Tudor Emanuel, Marta Daciana Silvia
	Protein structure and interactions	Strategy for deorphanizing G-protein coupled receptor 75 using brain extract fractions
Interactions Between Transient Receptor Potential Subfamily Ankyrin Member 1 (TRPA1) and the Epidermal Growth Factor Receptor (EGFR) in Glioblastoma		David-Ionuț Băcioiu , Florentina Piciu, Alina-Ana-Maria Botezatu, Dana Cucu
Molecular aggregation pathway of cataract-associated β D-crystallin p23T congenital defect		Elena Matei , A Filip, C G Floare, A Pirnau, M Mic
Modelling of MHC-I Peptide Loading Complex		Floriana Sibel Bectas , Teodor Asvadur Șulea, Laurentiu Spiridon, Andrei J. Petrescu
High-throughput screening to identify inhibitors of RAGE-S100B interaction		Ioana Popa , Carmen Tanase, Bernhard Ellinger, Jeanette Reinshagen, Philip Gribbon
RP-HPLC studies on chiral separations of racemic nonapeptides sulfoxides		Lucian-Mihai Stănescu , Corina Aramă, Ștefana Petrescu, Cristian V.A. Munteanu
The first complex of cobalamin with an organic peroxide		Maria Lehene , Radu Silaghi-Dumitrescu
Synthesis, degradation and trafficking processes of the GPR75 receptor		Ramona M. Tecucianu , Sorin Tunaru, Ștefana M. Petrescu
Study on the interactions between icaraside II and whey protein concentrate		Szabó Róbert , Rácz Csaba Pál, Dulf Francisc Vasile

