

**E. HIGHLIGHTS IN ADVANCED MEDICINE**  
**C. RECENT DEVELOPMENTS IN NANOMEDICINE**  
**POSTER SESSION**

***The evaluation committee:***

*Alin Stelian Ciobica*

*Marcel Popa*

*Gabriela Vochita*

**Thursday, February 27, 2025**

**P01. Zwitterionic semi-interpenetrating networks as carriers for antibiotic drugs**

*Ștefania Racoviță<sup>1</sup>, Diana Felicia Loghin<sup>1</sup>, Silvia Vasiliu<sup>1</sup>, Marcel Popa<sup>2,3</sup>*

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**P02. Anthocyanin-based intelligent pH-sensitive films for real-time food freshness monitoring**

*Oumaima Fakraoui<sup>1,2</sup>, Leonard Ionut Atanase<sup>3,4</sup>, Slim Salhi<sup>5</sup>, Isabelle Royaud<sup>2</sup>, Mourad Arous<sup>1</sup>, Zoubir Ayadi<sup>2</sup>*

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**P03. Mechanical characterization of a PVA/GO hydrogel loaded with Vitamin A palmitate for wound healing**

*Cristian Escobar<sup>1</sup>, Toribio Figueroa<sup>1</sup>, Katherina Fernández<sup>2</sup>, Leonard I. Atanase<sup>3,4</sup>*

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**P04. An innovative strategy for wound healing: using collagen-based conductive hydrogels**

*Luisbel González<sup>1</sup>, Claudio Aguayo<sup>2</sup>, Leonard I. Atanase<sup>3,4</sup>, Katherina Fernández<sup>1</sup>*

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**P05. Microwave-assisted chemical exfoliation of MoS<sub>2</sub> with different solvents combinations: structural characterization and cytotoxicity evaluation**

*Daylenis Pérez<sup>1</sup>, Luisbel González<sup>1</sup>, Claudio Aguayo<sup>2</sup>, Toribio Andrés Figueroa<sup>1</sup>, Leonard I. Atanase<sup>3,4</sup>, Katherina Fernández<sup>1</sup>*

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**P06. Biological characterization of a PVA/GO hydrogel loaded with Vitamin A palmitate for wound healing**

*Cristian Escobar<sup>1</sup>, Toribio Figueroa<sup>1</sup>, Katherina Fernández<sup>2</sup>, Leonard I. Atanase<sup>3,4</sup>*

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**P07. Engineering Antimicrobial Fibrous Mats with Metal-Organic Frameworks**

*Gonzalo Lanfranconi<sup>1</sup>, Miriam Iurlina<sup>2</sup>, Leonard Atanase<sup>3</sup>, Silvestre Bongiovanni Abel<sup>1</sup>, Gustavo A. Abraham<sup>1</sup>*

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**P08. Oral Self-Nanoemulsifying Systems for the Combined Delivery of Remdesivir and Baricitinib with Natural Bioactive Oils: A Novel Therapeutic Approach for COVID-19 and Cancer Treatment**

*Yousef Alanazi<sup>1</sup>, Leonard Ionut Atanase<sup>2</sup>, Mohsin Kazi<sup>1</sup>*

*<sup>1</sup>Department of Pharmaceutics, College of Pharmacy, King Saud University;*

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**P09. A nanosystem developed for targeted drug delivery based on functionalized human serum albumin cross-linked with oxidized gellan designed to treat brain tumors**

*Camelia Elena Tincu (Iurciuc)<sup>1,2</sup>, Silvia Vasiliu<sup>3</sup>, Ștefania Racoviță<sup>3</sup>, Gabriela Vochița<sup>4</sup>, Daniela Gherghel<sup>4</sup>, Marcel Popa<sup>1,5,6\*</sup>, Lăcrămioara Ochiuz<sup>2</sup>*

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### **P10. Chemical Valorization of PET: A Road Towards Innovative and Ecological Copolyesteramides**

*Makram El-Abed<sup>1</sup>, Slim Salhi<sup>1</sup>, Marcel Popa<sup>2,3,4</sup>, Houcine Ammar<sup>1</sup>*

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### **P11. Innovation in Bio-based Polyesteramides: From the synthesis of materials to the design of nanoparticles for drug delivery systems**

*Y. Chatti<sup>1</sup>, L. Kadri<sup>1</sup>, S. Salhi<sup>1</sup>, L.I. Atanase<sup>2</sup>, C. Delaite<sup>3</sup>, H. Ammar<sup>1</sup>*

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### **P12. Advanced hydrogels loaded with heparin for the treatment of varicose ulcers**

*Elena Farcaș<sup>1</sup>, Patrascu Alexandru<sup>2</sup>, Leonard Atanase<sup>2,3</sup>*

*<sup>1</sup>Gheorghe Asachi Technical University of Iași – Faculty of Chemical Engineering and Environmental Protection „Cristofor Simionescu”;*

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### **P13. Electrochemical characterization of reduced graphene oxide alginate hydrogels by electrochemical impedance spectroscopy technique**

*Josefa Silva<sup>1</sup>, Katherina Fernández<sup>1</sup>, Luis Felipe Montoya<sup>2</sup>, Leonard I. Atanase<sup>3,4</sup>*

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**P14. Polymeric Micro/Nanofibers Based on Modified Chitosan/ PVA for wound healing applications**

*Corina-Lenuta Logigan<sup>1</sup>, Marius Prodan<sup>2</sup>, Cristian Peptu<sup>2</sup>, Catalina-Anisoara Peptu<sup>1</sup>*

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**Friday, February 28, 2025**

**P01. Characterization and performance of hydrogel based on gelatin cross-linked with oxidized alginate for biomedical applications**

*Chahrazed Mahmoudi<sup>1,2\*</sup>, Naima Tahraoui Douma<sup>1</sup>, Camelia Elena Iurciuc (Tincu)<sup>2,3</sup>, Marcel Popa<sup>2,4,5</sup>*

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**P02. Synthesis Control of P4VP-PCL Copolymers with Linear and Multi-Branch ABx Architectures: From Self-Assembly to Tailored Nano-Aggregate Formation for Advanced Applications**

*Ridouan El Yousfi<sup>1</sup>, Gisela Trifas<sup>2</sup>, Leonard Ionut Atanase<sup>2,3,4</sup>*

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**P03. Structural Design and Functional Applications of PEG-PCL Copolymers: From Toxic Substance Removal to Sol-Gel Transitions and Nanostructured Drug Delivery Systems**

*Ridouan El Yousfi<sup>1</sup>, Leonard Ionut Atanase<sup>2,3</sup>*

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**P04. Effect of the dispersing agent „BYK W-9010” on the Properties of Spent Coffee Grounds-Based Biocomposites**

*Lina Kadri<sup>1</sup>, Slim Salhi<sup>1</sup>, Anne-Sophie Schuller<sup>2,3</sup>, Makki Abdelmouleh<sup>4</sup>, Leonard Ionut Atanase<sup>5,6</sup>, Christelle Delaite<sup>2,3</sup>, Houcine Ammar<sup>1</sup>*

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**P05. Efficient Hydrothermal Synthesis of Carbon Dots from Green Precursors: A Comparative Study and Potential Applications**

*Noumane ELouakassi<sup>1,2</sup>, Abdelmajid Almaggoussi<sup>1,3</sup>, Corneliu S. Stan<sup>2</sup>, Marcel Popa<sup>2,4,5</sup>, Larbi Belachemi<sup>1</sup>, Jaafar Ghanbaja<sup>6,7</sup>, Hamid Kaddami<sup>1,8</sup>*

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### **P06. Photocatalytic Ceramic Foams for the Removal of Emerging Contaminants in Water**

Yhosmary L. Franco<sup>1</sup>, Jimmy Castillo<sup>2</sup>, Leonard Atanase<sup>3</sup>, Juan C. Pereira<sup>1</sup>

<sup>1</sup>Petroleum, Hydrocarbons and Derivatives Laboratory (PDH) of the University of Carabobo, Valencia, Venezuela

<sup>2</sup>Laser Spectroscopy and Nanotechnology Laboratory of the Central University of Venezuela, Caracas, Venezuela

<sup>3</sup>"Apollonia" University of Iasi, Romania



### **P07. Synthesis and Characterization of Shape Memory Polymers Based on Isobornyl Acrylate**

Djazia Bendeddouch<sup>1</sup>, Ulrich Maschke<sup>2</sup>, Marcel Popa<sup>3,4</sup>, Lamia Bedjaoui-Alachaher<sup>1</sup>

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### **P08. Study of the physico-chemical and mechanical properties of acrylic polymers**

Ghizlene Fatima Zohra Hakem<sup>1</sup>, Christelle Delaite<sup>2</sup>, Anne Sophie Schuller<sup>2</sup>, Marcel Popa<sup>3,4</sup>, Amina Bouriche<sup>1</sup>, Lamia Bedjaoui-Alachaher<sup>1</sup>

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**P09. Investigation of Solvent Interaction Behavior of an Acrylic Hybrid Material in Ethanol and Toluene**

Mohammed Aymen Zehouani<sup>1</sup>, Marcel Popa<sup>2,3</sup>, Lamia Bedjaoui-Alachaher<sup>1</sup>

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**P10. Cell morphology modulation after treatments with different peptide functionalized nanocapsules containing magnetic particles**

Gherghel Daniela<sup>1</sup>, Rață Delia-Mihaela<sup>2</sup>, Cadinoiu Anca Niculina<sup>2</sup>, Atanase Leonard Ionuț<sup>2</sup>, Popa Marcel<sup>2</sup>, Sande Sverre Arne<sup>3</sup>, Vochița Gabriela<sup>1</sup>

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**P11. Cellular response to the action of some novel peptides-functionalized liposomes loaded with dexamethasone**

Vochița Gabriela<sup>1</sup>, Cadinoiu Anca Niculina<sup>2</sup>, Rață Delia-Mihaela<sup>2</sup>, Atanase Leonard Ionuț<sup>2</sup>, Popa Marcel<sup>2</sup>, Bo Nystrøm<sup>3</sup>, Gherghel Daniela<sup>1</sup>

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**P12. Cytotoxicity assessment of some biocomposite hydrogels containing ZnO nanoparticles and ibuprofen for the treatment of burns wounds**

Oana-Maria Darabă<sup>1</sup>, Delia Mihaela Rață<sup>1</sup>, Anca Niculina Cadinoiu<sup>1</sup>, Leonard Ionuț Atanase<sup>1,2</sup>

<sup>1</sup>”Apollonia” University of Iași, Romania

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**P13. Tailoring antimicrobial properties of polyethersulfone membranes by silver-loaded zeolite doping**

*Antonia-Ioana Iftimie<sup>1</sup>, Diana Serbezeanu<sup>1</sup>, Tăchiță Vlad-Bubulac<sup>1</sup>, Cristina M. Rîmbu<sup>2</sup>, Yuri Kalvachev<sup>3</sup>*

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<sup>3</sup> Institute of Catalysis, Bulgarian Academy of Sciences, Sofia, Bulgaria



**P14. Preparation and Characterization of a biocompatible Hydrogel obtained by Crosslinking chitosan/lactalbumin with Oxidized carboxymethylcellulose for Potential Biomedical Applications**

*Mohammed Dellali<sup>1</sup>, Kheira Zanoune Dellali<sup>1</sup>, Camelia Elena Iurciuc (Tincu)<sup>2</sup>, Marcel POPA<sup>2,3</sup>*

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**Saturday, March 1, 2025**

**P01. Development of modified drug delivery systems with metformin loaded in mesoporous silica matrices**

*Mousa Sha'at<sup>1</sup>, Maria Ignat<sup>2,3\*</sup>, Adrian Florin Șpac<sup>4</sup>, Alexandra Bârsan (Bujor)<sup>1</sup>, Fawzia Sha'at<sup>5</sup>, Ramona-Daniela Păvăloiu<sup>5</sup>, Monica-Iliuța Stamate Crețan<sup>1</sup>, Lăcrămioara Ochiuz<sup>1</sup>*

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**P02. Experimental and theoretical design on the development of matrix tablets with metformin and honokiol**

*Mousa Sha'at<sup>1</sup>, Adrian Florin Şpac<sup>2</sup>, Cristina Marcela Rusu<sup>3</sup>, Maricel Agop<sup>3,4</sup>, Alexandra Bârsan (Bujor)<sup>1</sup>, Monica-Iliuța Stamate Crețan<sup>1</sup>, Carmen Anatolia Gafițanu<sup>1</sup>, Lăcrămioara Ochiuz<sup>1</sup>*

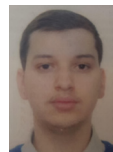
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**P03. Applications of artificial intelligence in neuro-oncology**

*Mihaela Gavrilă<sup>1</sup>, Raluca Maria Munteanu<sup>1</sup>, Maria Spiridon<sup>1</sup>*

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**P04. Development and characterization of levofloxacin-loaded vitamin A-polymacrolactone nanoemulsions as potential ophthalmic drug delivery systems**

*Alexandru-Mihail Şerban<sup>1</sup>, Bianca-Elena-Beatrice Crețu<sup>1</sup>, Alina Gabriela Rusu<sup>1</sup>, Alina Ghilan<sup>1</sup>, Irina Rosca<sup>1</sup>, Loredana Elena Niță<sup>1</sup>*

*<sup>1</sup>"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania*



**P05. Design and characterization of microcapsules based on alginate and poly(methyl vinyl ether-alt-calcium maleat) for drug delivery applications**

*Sanda Bucătariu<sup>1</sup>, Gheorghe Fundueanu<sup>1</sup>, Marieta Constantin<sup>1</sup>, Irina Popescu<sup>1</sup>*

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**P06. Studying Biomedical Applications of BaFe<sub>12</sub>O<sub>19</sub> (Ba-Ca) TiO<sub>3</sub> Magnetoelectric Nanoparticles For Anti-Cancer Drug delivery**

*Hend. H. Nada<sup>1</sup>, Ahmed I. ALF<sup>2</sup>, Leonard I. Atanase<sup>3</sup>, Mohammed SALLAH<sup>1</sup>*

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*<sup>3</sup>Faculty of Medicine, Apollonia University of Iasi, Romania*



**P07. Eco-friendly synthesis of poly(ethylene brassylate) as potential hydrophobic drug carrier**

*Bianca-Elena-Beatrice Crețu<sup>1</sup>, Alina Gabriela Rusu<sup>1</sup>, Loredana Elena Nita<sup>1</sup>*

*<sup>1</sup>“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania*



**P08. Evaluation of the synergistic benefits of a multifunctional system based on active substances with effects on anti-melanogenesis**

*Alexandra Vieru<sup>1</sup>, Loredana E. Nita<sup>1</sup>*

*<sup>1</sup>Institutul de Chimie Macromoleculară “Petru Poni”, Iași*



**P09. Design of fibrous membranes based on cellulose acetate/polyvinylidene fluoride/silver nanoparticles with specific properties for application in medical field**

*Adina Maria-Dobos<sup>1</sup>, Diana Serbezeanu<sup>1</sup>, Daniela Rusu<sup>1</sup>, Cristina Mihaela Rîmbu<sup>2</sup>, Anca Filimon<sup>1</sup>*

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**P10. Development of new nanocellulose-based materials for biomedical applications**

*Gabriela Biliuta<sup>1</sup>, Raluca-Ioana Baron<sup>1</sup>, Sergiu Coseri<sup>1</sup>*

*<sup>1</sup>Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania*



**P11. New 3D architectures with anti-freezing, electrical conductivity, and impressive mechanical properties for medical applications**

*Raluca-Ioana Baron<sup>1</sup>, Biliuta Gabriela<sup>1</sup>, Sergiu Coseri<sup>1</sup>, Maria-Valentina Dinu<sup>1</sup>*

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**P12. Evaluation of the conjunctival vascular network and microcirculation in individuals with type 1 diabetes**

*Aristia Șeremet<sup>1</sup>, Pavel Leahu<sup>1</sup>*

*<sup>1</sup>Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițanu”*



**P13. Development of biocompatible superparamagnetic nanoparticles based on chitosan for targeted delivery of 5-Fluorouracil**

*Kheira Zanoune<sup>1,2</sup>, Mohammed Dellali<sup>1,2</sup>, Corina-Lenuța Savin<sup>3</sup>, Marcel Popa<sup>3,4</sup>*

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**P14. Supramolecular Structures as Drug Delivery Systems. Oil – in – Water Microemulsions as carriers for anti-cancer agents**

*René D. Peralta-Rodríguez<sup>1</sup> and Leonard I. Atanase<sup>2,3</sup>*

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**P15. Comparison between IMRT External Beam Radiotherapy and Brachytherapy Treatments for Some Pelvic Tumors**

*Mahmoud S. Subahi<sup>1</sup>, Sozy F. Gohar<sup>1</sup>, Prof. univ. dr. Mohammed Sallah<sup>1</sup>*

*<sup>1</sup>Mansoura University, Egypt*

