

POSTER SESSION

The evaluation committee:

Sci. Sr. I PhD Gheorghe Fundueanu

Prof. PhD Marcel Popa

Prof. habil. PhD. Leonard Ionuț Atanase

Friday, March 1, 2024

P01. Synthesis and characterization of new films comprising cyclodextrin functionalized with double bonds and thiolated chitosan through thiol-ene coupling

Corina-Lenuța Logigan¹, Cristian Peptu², Cătălina-Anișoara Peptu¹

¹“Gheorghe Asachi” Technical University, Iași, Romania

²“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



P02. Development of antioxidant and antimicrobial bioactive porous hydrogels based on renewable resources

Maria Marinela Lazar¹, Roxana Petronela Damaschin², Irina Volf², Claudiu Augustin Ghiorghita¹, Ana Clara Aprotosoae³, Maria Valentina Dinu¹

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P03. CHITOSAN CITRYL IMINE DERIVATIVES USED AS COATINGS FOR FOOD PACKAGING

Ramona Lungu¹, Luminița Marin¹, Iuliana Spiridon¹, Florin Ciolacu²

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²“Gheorghe Asachi” Technical University of Iași, România



P04. Designing *Hypericum perforatum*-loaded chitosan-based cryogels as potential wound-dressing materials

Ioana-Victoria Platon¹, Claudiu-Augustin Gheorghiu¹, Ana Clara Aprotosoiaie², Adina Catinca Grădinaru², Maria Marinela Lazar¹, Irina Elena Raschip¹, Nina Ciocarlan³, Maria Valentina Dinu¹

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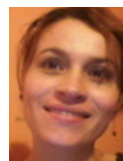


P05. Ultrasonication effect on high crystalline cellulose

Răzvan Rotaru¹, Maria Emiliană Fortuna^{1}, Elena Ungureanu², Valeria Harabagiu¹*

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania

²“Ion Ionescu de la Brad” University of Life Science, Iași, Romania



P06. New permanent magnets with potential application in the medical field

Mihaela Lostun¹, Marian Grigoras¹, Tiberiu Roman¹, Gabriela Buema¹, Luiza C. Budeanu¹, Gabriel Ababei¹, Nicoleta Lupu¹

¹National Institute of Research and Development for Technical Physics, Iași, Romania



P07. Bio-based macroporous hydrogels for biomedical applications

Claudiu-Augustin Gheorghiu¹, Ioana-Victoria Platon¹, Maria Marinela Lazar¹, Irina Elena Răschip¹, Maria Valentina Dinu¹

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



P08. Poly(vinyl alcohol)–Xanthan Gum Hydrogels Loaded with Neomycin Sulfate: A Novel Approach for Efficient Topical Antibacterial Formulations against Multidrug-Resistant Bacteria

Diana Serbezeanu¹, Manuela Maria Iftime¹, Gabriela-Liliana Ailiesei¹, Alina-Mirela Ipate¹, Alexandra Bargan¹, Tăchiță Vlad-Bubulac¹, Cristina Mihaela Rîmbu²

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P09. Developing novel three-dimensional structures with modulated electrical and antifreezing properties

Raluca-Ioana Baron¹, Maria-Valentina Dinu¹, Biliuta Gabriela¹, Sergiu Coseri¹

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P10. Design of injectable hydrogels based on naturally occurring polymers

Gabriela Biliuta¹, Raluca-Ioana Baron¹, Sergiu Coseri¹

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P11. Artificial intelligence in cancer drug development and precision therapy

Maria Spiridon¹, Mihaela Gavrila¹

¹Regional Institute of Oncology, Iași, Romania



P12. Double network gels based on poly(2-(dimethylamino) ethyl methacrylate) and supramolecular structures with potential applications in the biomedical field

Alexandra Croitoriu¹, Alina G. Rusu¹, Alina Ghilan¹, Loredana E. Niță¹

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



P13. The impact of lipid composition on the adsorption of proteins onto liposomal vesicles

Roxana-Maria Amărandi¹, Andrei Neamțu^{1,2}, Rareș-Ionuț Stiuțiu^{1,3}, Luminița Marin^{1,4}, Brîndușa Drăgoi^{1,5}

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⁴“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania

⁵“Alexandru Ioan Cuza” University of Iași, Romania



P14. Silica matrices - drug delivery carrier for biomolecules from a pharmaceutical perspective

Alexandra Bujor¹, Mousa Sha'at¹, Maria Ignat², Gațițanu Carmen Anatolia¹, Monica-Iliuța Stamate Crețan¹, Ionuț Lungu¹, Alina Ștefanache¹, Lăcrămioara Ochiuz¹

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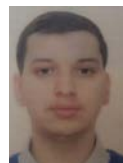
²“Alexandru Ioan Cuza” University of Iași, Romania



P15. 3D technology compression - present and future in the pharmaceutical industry

Mousa Sha'at¹, Carmen Anatolia Gațițanu¹, Eliza Grațiela Popa¹, Șpac Florin Adrian¹, Alexandra Bujor¹, Monica-Iliuța Stamate Crețan¹, Lăcrămioara Ochiuz¹

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P16. Hybrid hydrogel systems based on hyaluronic acid and a copolymacro-lactone structure

Isabella Nacu^{1,2}, Alina Ghilan¹, Alina G. Rusu¹, Alexandru M. Serban¹, Maria Bercea¹, Liliana Vereștiuc², Loredana E. Nita¹

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Saturday, March 2, 2024

P01. Anthocyanin-laden xanthan-based hydrogels as promising bioactive materials

Irina Elena Raschip¹, Ioana-Victoria Platon¹, Nicusor Fifere¹, Maria Marinela Lazar¹, Ana Clara Aprotosoae², Maria Valentina Dinu¹

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P02. Interaction of some new functionalized dexamethasone-loaded magnetic liposomes with cells cytophysiology

Daniela Gherghel¹, Anca Niculina Cădinoiu², Delia-Mihaela Rață², Leonard Ionuț Atanase^{2,3}, Marcel Popa^{2,3}, Sverre Arne Sande⁴, Cosmin-Teodor Mihai^{1,5}, Alexandru-Bogdan Stache⁶, Gabriela Vochița¹

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⁴*University of Oslo, Norway*

⁵*Praxis Medical Investigations, Iași, Romania*

⁶*Regional Institute of Oncology, Iași, Romania*



P03. Cytotoxic activity of different types of synthesized nanocapsules loaded with dexamethasone

Gabriela Vochița¹, Delia-Mihaela Rață², Anca Niculina Cădinoiu², Leonard Ionuț Atanase^{2,3}, Marcel Popa^{2,3}, Mahdieh Athar⁴, Cosmin-Teodor Mihai^{1,5}, Cristina-Veronica Moldovan⁶, Daniela Gherghel¹

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⁵*Praxis Medical Investigations, Iași, Romania*



P04. Evaluation of the cytotoxicity of some polymer controlled drug release systems

Oana-Maria Darabă¹, Delia Mihaela Rață¹, Anca Niculina Cadinoiu¹, Leonard Ionuț Atanase^{1,2}

¹“Apollonia” University of Iași, Romania

²Academy of Romanian Scientists, Bucharest, Romania



P05. Bioactive fibrous membranes based on polysulfones: Evaluation of the surface and permeation properties

Adina Maria Doboș¹, Diana Serbezeanu¹, Daniela Rusu¹, Mihaela Dorina Onofrei¹, Alexandra Bargan¹, Ana-Maria Macsim¹, Lavinia Lupa², Anca Filimon¹

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania

²Politehnica University, Timișoara, Romania



P06. Performance of the polysulfonic fibrous membranes in biomedical applications: Cell-material interaction and antimicrobial activity

Diana Serbezeanu¹, Irina Rosca¹, Dragos Peptanariu¹, Magdalena Aflori¹, Adina Maria Dobos¹, Oana Dumbrava¹, Anca Filimon¹

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



P07. The use of Maillard reaction in the obtaining of scaffolds for osteochondral defects repair

Irina Mihaela Pelin¹, Marieta Constantin¹, Irina Popescu¹

¹“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



P08. New complexes of pyrrole Schiff Base containing siloxane bond

Alexandra Bargan¹, Maria Cazacu¹, Angelica Vlad¹, Alina Soroceanu¹

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P09. Curdlan-based amphiphilic hydrogel with wound dressing applications

Dana Mihaela Suflet¹, Irina Popescu¹

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P10. Iron - essential metal of the blood

Oana-Adriana Iliescu¹, Maya Ilinca Voidas¹, Ionuț Iulian Lungu¹, Gabriela Călin², Alina Ștefanache¹

¹“Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania

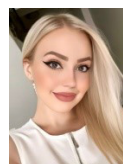
²“Apollonia” University of Iași, Romania



P11. The importance of sunscreens containing Zinc Oxide and/or Titanium Dioxide for babies' skin

Ioana Babarus¹, Ionuș-Iulian Lungu¹, Lacramioara Ochiuz¹, Alina Ștefanache¹

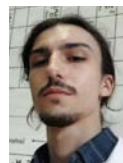
¹“Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania



P12 . Bismuth and its multifaceted role in H. pylori treatment

Marin George-Alexandru¹, Ionuț-Iulian Lungu¹, Gabriela Călin², Alina Ștefanache¹ *¹“Grigore T. Popa” University of Medicine and Pharmacy, Iași, Romania*

²“Apollonia” University of Iași, Romania



P13. Poly(vinyl alcohol) and copolymacrolactone bioactive complex-based cryogel as promising wound dressings

¹Bianca-Elena-Beatrice Crețu¹, Alina Gabriela Rusu¹, Alina Ghilan¹, Isabella Nacu^{1,2}, Irina Rosca¹, Daniela Pamfil¹, Loredana Elena Nita¹

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P14. Development of a drug delivery nanosystem composed of functionalized human serum albumin cross-linked with oxidized polysaccharides for treating brain tumors

Camelia Elena Tincu (Iurciuc)^{1,2}, Silvia Vasiliu³, Ștefania Racoviță³, Gabriela Vochița⁴, Daniela Gherghel⁴, Leonard Ionuț Atanase⁵, Marcel Popa^{1,5,6}, Lăcrămioara Ochiuz²

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