

G. BIOCOMPATIBLE MATERIALS AND BIOMEDICAL APPLICATIONS

Saturday, March 2, 2024, Congress Hall Palas, Vivaldi Hall

09⁰⁰-11²⁰ – Presentations

11²⁰-11³⁰- Discussions

Board:

President: Marcel Popa

Members: Marieta Fundueanu-Constantin
Lăcrămioara Ochiuz

Secretary: Delia Mihaela Rață

1. Amphiphilic cationic pullulan derivative as curcumin nanoparticulate carrier

Marieta Fundueanu-Constantin¹, Sanda Bucătariu¹, Gabriela Ailiesei¹, Gheorghe Fundueanu¹

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



2. News and perspectives on the importance of biocompatible materials in osteoarthritis therapy

Lăcrămioara Ochiuz¹, Cristina Mihaela Ghiciuc¹

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



3. Study on entrapment of metformin in silica matrices as modify drug delivery systems

Mousa Sha'at¹, Maria Ignat^{2,3}, Adrian Florin Șpac¹, Alexandra Bujor¹, Monica-Iliuța Stamate Crețan¹, Lăcrămioara Ochiuz¹

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

²“Alexandru Ioan Cuza” University of Iași, Romania

³“Petru Poni” Institute of Macromolecular Chemistry, Iași, Romania



4. Formulation, preparation and pharmacotechnical evaluation of bistratified ketoprofen tablets

Monica Iliuța Crețan Stamate¹, Lacramioara Ochiuz¹, Carmen Anatolia Gașițanu¹, Alexandra Bujor¹, Mousa Sha'at¹, Ciprian Stamate²

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

²“Gheorghe Asachi” Technical University of Iași, Romania



5. Eco-friendly cross-linking thermosensitive hydrogel as smart drug delivery system activated by specific compounds

Sanda-Maria Bucătariu¹, Bogdan Coșman¹, Marieta Constantin¹, Gheorghe Fundueanu¹

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6. Biocomposite hydrogels with antimicrobial activity for wound healing

Delia M. Rață¹, Anca N. Cadinoiu¹, Gabriela Vochita², Daniela Luminița Ichim¹, Leonard I. Atanase^{1,3}

¹“Apollonia” University of Iași, Romania

²NIRDBS - Institute of Biological Research Iasi, Department of Experimental and Applied Biology, Iași, Romania

³Academy of Romanian Scientists, Bucharest, Romania



7. Micro/nanospheres functionalized with peptides: Physico-chemical characterization and anti-inflammatory activity

Anca N. Cadinoiu¹, Delia M. Rață¹, Leonard I. Atanase^{1,2}, Daniela Gherghel³, Gabriela Vochița³, Marcel Popa^{1,2}

¹“Apollonia” University of Iași, Romania

²Academy of Romanian Scientists, Bucharest, Romania

³Institute of Biological Research, Iași, Romania



8. New chitosan-coated liposomes as drug delivery systems for the inner ear

Iftode Loredana^{1,2}, Anca N. Cadinoiu³, Delia M. Rață³, Leonard I. Atanase^{3,5}, Daniela Gherghel⁴, Marcel Popa^{2,3,5}, Luminița Radulescu¹

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⁴NIRDBS—Institute of Biological Research, Iași, Romania

⁵Academy of Romanian Scientists, Bucharest, Romania



9. PH influence on the biodegradation of chitosan based hydrogels

Ramona Lungu¹, Daniela Ailincăi¹, Luminița Marin¹

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11³⁰-13⁵⁰ – Presentations

13⁵⁰-14⁰⁰ - Discussions

Board:

President: Liliانا Sachelarie

Members: Gheorghe Fundueanu
Marcel Popa

Secretary: Anca Niculina Cadinoiu

1. Hydrogels with temperature-, double ph-, and biomolecule-sensitivity for biomedical applications

Gheorghe Fundueanu¹, Marieta Constantin¹, Sanda Bucătariu¹

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2. New quaternary ammonium derivatives based on citrus pectin

Magdalena Cristina Stanciu¹

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



3. Hydrogel systems based on polysaccharide derivatives with dynamic bonds for minimally invasive administration

Ioana A. Duceac¹, Gabriela Biliuță¹, Sergiu Coșeri¹

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



4. Chitosan/oxidized pullulan hydrogels with embedded essential clove oil

Irina Popescu¹, Dana Mihaela Suflet¹, Marieta Constantin¹, Cristina M. Rambu², Cristina Horhogeă²

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

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



5. Synergistic Efficacy of Zinc and Calcium in Dermatological Treatment: Unraveling Novel Therapeutic Paradigms for Skin Health

Onofrei Ilinca¹, Ionuț Iulian Lungu¹, Gabriela Călin², Alina Ștefanache¹

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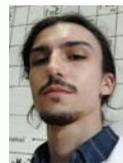


6. Chelator Design- the antidote for heavy and noble metals toxicity

George-Alexandru Marin¹, Ionuț Iulian Lungu¹, Gabriela Călin², Alina Ștefanache¹

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

²“Apollonia” University of Iași, Romania



7. Antimicrobial effect of some polymeric microparticles functionalized with peptides

Daniela Luminița Ichim¹, Delia Mihaela Rață¹, Leonard Ionuț Atanase¹, Anca Niculina Cadinoiu¹

¹“Apollonia” University of Iași, Romania



8. Biomass characterization and classification for conversion to added-value products

Elena Butnaru¹, Elena Marlica¹, Elena Stoleru¹, Mihai Brebu¹

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



9. Application of caseinate for encapsulation of bioactive compounds through electrospinning

Raluca Petronela Dumitriu¹, Elena Stoleru¹, Mihai Brebu¹

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



10. Erythromycin loading into biodegradable chitosan/ quaternized chitosan nanofibers imino-linked with 2-hydroxy-5-methoxy-benzaldehyde for a combined antioxidant and antibacterial activity

Vera-Maria Platon¹, Liliana Mititelu Tarțău¹, Bianca-Iustina Andreica¹, Luminița Marin¹

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