

SESIUNE DE POSTERE

Comisia de evaluare:
Conf. dr. Lucian Eva
Conf. univ. dr. Cornelia Ursu
Şef. lucr. dr. Mihai Cozmin

Vineri, 3 martie, 2023, Congress Hall Palas

1. Particularități morfologice subcorticale ale epilepsiei cu crize mioclonice

CS drd. Anatolie Vataman¹, CS dr. Dumitru Ciolac^{1,2}, Conf. univ. dr. Vitalie Chiosa¹, dr. Natalia Doțen^{1,2}, Acad. Stanislav Groppa^{1,2}

¹Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițeanu”, Republica Moldova

²Institutul de Medicină Urgentă, Republica Moldova



2. Analiza oscilațiilor corticale în modele animale

Dr. Daniela Mîrzac¹, Prof. univ. dr. Sergiu Groppa²

¹Universitatea de Stat de Medicină și Farmacie „Nicolae Testemițeanu”, Republica Moldova

²Universitatea Johannes Gutenberg, Mainz, Germania



POSTER SESSION

The evaluation committee:

Prof. PhD. Mohammed Sallah

Prof. PhD Lacramioara Ochiuz

Sci. Sr. I PhD Gheorghe Fundueanu

Prof. PhD Marcel Popa

Prof. Habil. PhD. Leonard Ionut Atanase

Thursday, March 2, 2023, Congress Hall Palas

1. Hormonal modification in women with Covid-19

Ioana Babarus¹, Ionut-Iulian Lungu¹, Marcel Stoenescu², Maricica Pavaleanu², Mariana Holicov², Alina Stefanache¹

¹Discipline of General and Inorganic Chemistry, Faculty of Pharmacy, University of Medicine and Pharmacy "Grigore T. Popa", Iasi, Romania

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2. The role of self-assembly mechanisms in development of ferritin-based vaccines

D.D. Kuklina¹, L. Ryzhykau Yu^{1,2}, V.V. Sudarev¹, S.M. Dolotov^{1,3}, N.A. Bondarev¹, S.D. Osipov¹, A.I. Kuklin^{1,2}, A.V. Vlasov^{1,2}

¹ Research Center for Molecular Mechanisms of Aging and Age-Related Diseases, Moscow Institute of Physics and Technology, Dolgoprudny, Russia

² Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna, Russia

³ Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry RAS, Moscow, Russia

² Faculty of Medical Dentistry, "Apollonia" University of Iasi, Romania



3. Phyto-therapeutic extracts delivery system based on nanotechnology: biological activities and nano-encapsulation

Djamila Aouameur¹, Omar Larbi Bouamrane^{1,2}, Redha Benomar³, Rachid Ameraoui³

¹Laboratoire de Valorisation des Substances Naturelles, Université Djilali Bounaâma, Khemis-Miliana, Algeria

²Centre Universitaire de Tipaza, Algeria

³Centre de recherche scientifique et techniques en analyse physico-chimique (CRAPC), Bou Ismail, Algeria



4. The interaction of drugs with vitamins and supplements: harmful or helpful?

Sabina-Elena Stănescu¹, Iulian Ionuț Lungu¹, Florina Denisa Diaconu¹, Laura Dartu², Gabriela Turcu², Alina Ștefanache¹

¹ Discipline of General and Inorganic Chemistry, Faculty of Pharmacy, University of Medicine and Pharmacy “Grigore T. Popa”, Iasi, Romania



5. Self-assembly of block copolymers on surfaces exposed to space-confined solvent vapor annealing

Iulia Babutan^{1,2}, Otto Todor-Boer³, Leonard Ionut Atanase^{4,5}, Adriana Vulpoi¹, Simion Simon¹, Ioan Botiz¹

¹Interdisciplinary Research Institute on Bio-Nano-Sciences, Babeș-Bolyai University, Cluj-Napoca, Romania;

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⁴Department of Biomaterials, Faculty of Medical Dentistry, “Apollonia” University of Iasi, Iasi, Romania;

⁵Academy of Romanian Scientists, Bucharest, Romania



6. ZnO - Epoxy Resin anti-corrosive coatings for navy ships applications

Raluca Somoghi^{1,2}, Zina Vuluga¹, Daniel Mihai Stanescu Vatau¹, George Mihail Teodorescu¹, Raluca Augusta Gabor¹, Cristian Andi Nicolae¹, Adriana Frone¹

¹National Research & Development Institute for Chemistry and Petrochemistry, ICECHIM, Bucharest, Romania

²Faculty of Petroleum Refining and Petrochemistry, Petroleum-Gas University of Ploiesti, Ploiesti, Romania



7. Designing liposomal formulations of 5-fluorouracil for cancer therapy

Roxana-Maria Amărăndi¹, Luminița Marin^{1,2}, Andrei Neamțu¹, Brîndușa Drăgoi^{1,3}

¹Regional Institute of Oncology, TRANSCEND Research Department, Iași, Romania;

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

³Faculty of Chemistry, “Alexandru Ioan Cuza” University of Iași, Iași, Romania



10. Nanofibrous membranes loaded with vitamin E as transdermal patches for wound dressings tested in a Wistar rat model

Stella Maris Echarte², Dalila Orallo², Carolina Cámara², Anabela LaColla², Andrea Chisari², Guadalupe Rivero¹

¹Instituto de Investigaciones en Ciencia y Tecnología de Materiales (INTEMA), Argentina

²Grupo de investigación “Enfermedades Metabólicas”. Departamento de Química y Bioquímica (FCEyN, Universidad Nacional de Mar del Plata), Argentina



11. Structure-property relationships in photo-polymerisable terpolymers

G. F-Z. Hakem¹, D. Bendeddouche¹, A. Bouriche¹, M. Popa^{2,3}, L. Bedjaoui-Alachaher¹

¹Laboratory of Research on Macromolecules (LRM), Faculty of Sciences, University of Tlemcen, Algeria.

²Gheorghe Asachi Technical University, Faculty of Chemical Engineering and Environmental Protection “Cristofor Simionescu”, Department of Natural and Synthetic Polymers, Iași, Romania

³Academy of Romanian Scientists, Bucharest, Romania



12. Cancer: a growing challenge for humanity

Maria Spiridon¹

¹Regional Institute of Oncology, Iași, Romania



13. New inhibitors for effective HIV control based on protease enzyme inhibition

Mehdi Yoosefian¹

¹Department of Nanotechnology, Graduate University of Advanced Technology, Kerman, Iran



12. Study and comparison of the ZnONi material on different substrates

Sara Taghzouti¹, Hamza Hailou¹, Mohammed Ait Himi¹, Mohamed Ebn Touhami¹, El Hassan El Kafssaoui¹

¹Advanced Materials and Process Engineering Laboratory, Ibn Tofail University, Kénitra, Morocco



13. Bio-based polyesteramides derived from natural amino acids

Slim Salhi¹, Leonard Ionut Atanase^{2,3}, Marcel Popa^{3,4}, Christelle Delaite⁵, Houcine Ammar¹

¹Laboratoire de Chimie Appliquée, Faculté des Sciences de Sfax, Sfax University, Sfax, Tunisia.

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⁵Laboratoire de Photochimie et d'Ingenierie Macromoleculaires (LPIM), University of Haute Alsace, Mulhouse, France



14. Dielectric elastomers with PDMS matrix and metal complexes as filler

Alina Soroceanu¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania



15. Effect of hydroxyapatite content on poly(lactic acid) composites

Nadjet Dehouche¹, Nedjma Tazibt¹, Mustapha Kaci¹, Mohamed Ragoubi², Leonard Ionut Atanase^{3,4}

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Friday, March 3, 2023, Congress Hall Palas

1. Preparation and characterization of ZrO₂ nanoparticles using High Energy Ball Milling for antimicrobial activity

E. A. Farrag¹, A. Sarhan¹, M. S. Abd El-Sadek¹, M. Sallah¹

¹Physics Department, Faculty of Science, Mansoura University, Egypt



2. Preparation and characterization of novel chemically cross-linked xanthan-based films entrapping cerium oxide nanoparticles

Nicusor Fifere¹, Irina Elena Raschip¹, Elena Gabriela Hitruc¹, Maria Marinela Lazar¹, Maria Valentina Dinu¹

¹"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania



3. New drug release system based on functionalized albumin cross-linked with oxidized polysaccharides for the potential treatment of brain tumors

Camelia Elena Tincu (Iurciuc)^{1,2}, Silvia Vasiliu³, Ștefania Racoviță³, Leonard Ionuț Atanase^{4,5}, Marcel Popa^{1,4,5}, Ochiuz Lăcrămioara²

¹Department of Natural and Synthetic Polymers, “Cristofor Simionescu” Faculty of Chemical Engineering and Protection of the Environment, “Gheorghe Asachi” Technical University, 73, Iasi, Romania

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³“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania;

⁴Faculty of Dental Medicine, “Apollonia” University of Iasi, Iași, Romania

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4. Tunable Properties of electrospun poly(vinyl alcohol) loaded with plant extracts for new biodegradable and bioresorbable materials

Diana Serbezeanu¹, Alina-Mirela Ipate¹, Cristina Mihaela Rîmbu², Tăchiță Vlad-Bubulac¹

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

²Department of Public Health, Faculty of Veterinary Medicine, Iasi University of Life Sciences (IULS), Iasi, Romania



5. S-benzoylthiamine O-monophosphate as corrosion inhibitor for brass in 200ppm NaCl and Mild steel in 1M HCl medias

Hamza Hailou¹, Sara Taghzouti¹, El Hassan El Kafssaoui¹, Mohammed Bouziani Idrissi¹, Mohammed Ait Himmi¹, Rachid Tourir¹

¹Advanced Materials and Process Engineering Laboratory, Ibn Tofail University, Kénitra, Morocco



6. Random poly(ester-amide)s based on α -amino acids and ϵ -caprolactone by direct melt copolymerization

Lina Kadri¹, Slim Salhi¹, Cristian Peptu², Leonard Ionut Atanase^{3,4}, Marcel Popa^{3,4,5}, Anne-Sophie Schuller⁶, Christelle Delaite⁶, Houcine Ammar¹



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⁶Laboratoire de Photochimie et d'Ingenierie Macromoleculaires (LPIM), University of Haute Alsace, Mulhouse, France

7. Coffee grounds-polyethylene as supporting materials to produce bio-composite PCM with natural waxes

Makki Abdmouleh¹, Moez Souissi¹, Abdelwaheb Trigui², Ilyes Jedidi³, Mohamed Loukil⁴



¹Laboratoire de Sciences des Matériaux et de l'Environnement (LMSE), Université de Sfax, Tunisia

²Laboratoire des Matériaux Multifonctionnels et Applications (LMMA), Université de Sfax, Tunisia

³University of Technology and Applied Sciences - Sohar, Sohar, Sultanate of Oman.

⁴Division of Engineering Materials (KMAT). Department of Management and Engineering (IEI), Linköping University, Sweden.

8. The therapeutic effects of fluorouracil-MgAl layered double hydroxides nanohybrids on glioblastoma

Paula Alexandra Postu¹, Alina Ibanescu^{1,3}, Dragos-Ioan Olariu^{1,2}, Brindusa Dragoi^{1,2}



¹Regional Institute of Oncology, TRANSCEND Research Department, Iasi, Romania

²Faculty of Chemistry, „Alexandru Ioan Cuza” University of Iasi, Iasi, Romania

³“Cristofor Simionescu” Faculty of Chemical Engineering and Environmental Protection, “Gh. Asachi” Technical University, Iasi, Romania.

9. Self-assembly mechanism of cyclic peptide nanotubes as a new gene delivery system

Razieh Dashti¹, Mehdi Yoosefian¹, Mohamad Mahani¹

¹Department of Nanotechnology, Graduate University of Advanced Technology, Kerman, Iran



10. Synthesis, characterization and biological activities of some metal complexes with salen-type ligand

Alina Soroceanu¹, Maria Cazacu¹

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



11. Architected piezoelectric bio-based materials for healthcare

Paul Burel^{1,2}, Mohamed Ragoubi¹, Sébastien Alix², Pierre Millet², Richard Gattin¹

¹UT&A, Unilasalle Rouen, France

²ITheMM, Université Reims Champagne-Ardenne, France



12. Evaluation of some new synthesized peptide and non-peptide nanocapsules toxicity useful in drug delivery applications

Gabriela Vochița¹, Delia-Mihaela Rață², Leonard Ionuț Atanase^{2,3}, Marcel Popa^{2,3}, Bo Nyström⁴, Cosmin-Teodor Mihai¹, Cristina-Veronica Moldovan⁵, Daniela Gherghel¹

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⁴Department of Chemistry, University of Oslo, Oslo, Norway

⁵Department of Biology, Faculty of Biology, “Alexandru Ioan Cuza” University of Iasi, Iasi, Romania



13. Chitosan grafted poly(ethylene glycol) methyl ether acrylate nanoparticles: synthesis, characterization, and use as drug delivery system

Corina-Lenuța Logigan¹, Christelle Delaite², Crina-Elena Tiron³, Cristian Peptu⁴, Marcel Popa^{1,5}, Cătălina Anișoara Peptu¹

¹Faculty of Chemical Engineering and Environmental Protection “Cristofor Simionescu”, Department of Natural and Synthetic Polymers, “Gheorghe Asachi” Technical University of Iasi, Iasi, Romania

²Laboratory of Photochemistry and Macromolecular Engineering, Institute J.B. Donnet, University of Haute Alsace, Mulhouse, Mulhouse, France

³Regional Institute of Oncology, Iasi, Romania

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

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14. 3D printed medicine for the management of diabetes mellitus

Mousa Sha'at¹, Alexandra Bujor¹, Monica-Iliuța Stamate Crețan¹, Alina Ștefanache¹, Florin Adrian Șpac¹, Lăcrămioara Ochiuz¹

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



15. Using FDA to understand the effects of composition on the biodegradable films from corn starch and brazilian flora extract's

João Paulo Oliveira Silva¹, Leonardo Silva Santos Lapa¹, Tonimar Domiciano Arrighi Senra¹

¹Minas Gerais Federation Institute of Education, Science and Technology – Campus Governador Valadares (Ifmg-Gv) / Brazil



Saturday, March 4, 2023, Congress Hall Palas

1. Minerals in gastro-duodenal ulcer treatment

Sabina-Elena Stănescu¹, Ionuț Iulian Lungu¹, Florina Denisa Diaconu¹, Dan Sava², Stefan Leica², Alina Ștefanache¹

¹Discipline of General and Inorganic Chemistry, Faculty of Pharmacy, University of Medicine and Pharmacy “Grigore T. Popa”, Iasi, Romania

²Faculty of Medical Dentistry, “Apollonia” University of Iasi, Romania



2. Nanoscale block copolymeric micellar templates with varying %EO content for controlled drug release

Ketan Kuperkar¹, Pratap Bahadur²

¹Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India.

²Department of Chemistry, Veer Narmad South Gujarat University (VNSGU), Surat, Gujarat, India.



3. The influence of lapis (caustic silver) solution on stability of dipalmitoylphosphatidylcholine membranes

V.V. Skoi^{1,2}, D.V. Soloviov³, A.V. Rogachev^{1,2}, V.V. Chupin², A.I. Kuklin^{1,2}

¹Joint Institute for Nuclear Research, Dubna, Russia

²Moscow Institute of Physics and Technology, Dolgoprudny, Russia

³European Molecular Biology Laboratory (EMBL), Hamburg Outstation c/o DESY, Hamburg, Germany



4. Poly(L-lactide- β -alanine) : Synthesis and Characterizations via direct melt copolymerization

Slim Salhi¹, Lina Kadri¹, Cristian Peptu², Leonard Ionut Atanase^{3,4}, Marcel Popa^{4,5}, Anne-Sophie Schuller⁶, Christelle Delaite⁶, Houcine Ammar¹



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⁶Laboratoire de Photochimie et d'Ingenierie Macromoleculaires (LPIM), University of Haute Alsace, Mulhouse, France

5. Compatibilization effect of PHBV-g-MA on morphology and physical properties of poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)/ZnO nanocomposites

Mustapha Kaci¹, Nadjet Dehouche¹



¹Laboratoire des Matériaux Polymères Avancés (LMPA), University of Bejaia, Algeria

¹Department of Nanotechnology, Graduate University of Advanced Technology, Kerman, Iran

6. *In vitro* biocompatibility assessment of new functionalized chitosan-coated liposome nanoparticles

Daniela Gherghel¹, Anca Niculina Cădinoiu², Leonard Ionuț Atanase^{2,3}, Marcel Popa^{2,3}, Arne Sverre Sande⁴, Cosmin-Teodor Mihai¹, Alexandru-Bogdan Stache⁵, Gabriela Vochița¹



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⁴Department of Pharmaceutics, School of Pharmacy, University of Oslo, Oslo, Norway;

⁵Department of Biology, Faculty of Biology, “Alexandru Ioan Cuza” University of Iasi, Iasi, Romania

7. Treatment of SARS-CoV-2 by other antiviral drugs

Mehdi Yoosefian¹

¹Department of Nanotechnology, Graduate University of Advanced Technology, Kerman, Iran



8. Complete characterization of Fatty Acid Cellulose Esters (FACEs) according to both substitution degree and fatty chain length – Applications of FACEs as Biomaterials, electronics support and biopolymer additives

Nicolas Joly¹, Patrick Martin¹

¹Unité Transformations & Agroressources—ULR7519, UniLasalle, Univ. Artois, Béthune, France



9. New cross-linked hydrogel based on biopolymers as potential support for curcumin immobilization with biomedical applications-obtaining and characterization.

Mohammed Dellali^{1,2}, Camelia Elena Iurciuc (Tincu)², Kheira Zanoune Dellali^{1,2}, Nawel Spahis¹, Hacene Mahmoudi¹, Marcel Popa^{2,3}

¹Hassiba Benbouali University of Chlef, Algeria

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10. Current trends in toothpaste formulation

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

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



11. Preparation and physicochemical characterization of a biocompatible hydrogel based on gelatin cross-linked with oxidized alginate for biomedical applications

*Chahrazed Mahmoudi^{1,2}, Camelia Elena Iurciuc^{2,3}, Marcel Popa^{2,4},
Naima Tahraoui Douma¹*



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Hassiba Benbouali University of Chlef, Algeria*

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

⁴Academy of Romanian Scientists, Romania

12. In vivo biological study of nanocapsules based on Chitosan and Poly(N-vinyl pyrrolidone-alt-itaconic anhydride)

*Kheira Zanoune Dellali¹, Mohammed Dellali¹, Delia Mihaela
Rata², Anca Niculina Cadinoiu², Leonard Ionut Atanase^{2,3}, Marcel
Popa^{2,3,5}, Mihaela-Claudia Spataru⁴, Carmen Solcan⁴*



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Ionescu de la Brad University of Life Sciences, Iasi, Romania*

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Simionescu” Faculty of Chemical Engineering and Protection of
the Environment, “Gheorghe Asachi” Technical University, Iasi,
Romania*

13. In vitro antibacterial activity of silver nanoparticles incorporated in bicomposite films

*Daniela Luminița Ichim¹, Delia M. Rață¹, Oana Maria Darabă¹,
Leonard I. Atanase^{1,2}, Anca N. Cadinoiu¹*



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14. Crystallization behavior of CSA deposited Poly(3-hexylselenophene)

Otto Todor-Boer¹, Ioan Botiz²

¹INCDO-INOE 2000, Research Institute for Analytical Instrumentation, Cluj-Napoca, Romania

²Interdisciplinary Research Institute on Bio-Nano-Sciences, Babeş-Bolyai University, Cluj-Napoca, Romania



15. Protective effects of chrysin in calixarene 0118 (OTX008) and sulfobutylether- β -cyclodextrin (SBE β CD) nanoformulation on diabetes-associated liver fibrosis

Anca Hermenean^{1,3}, Alina Ciceu¹, Cornel Balta¹, Herman Hildegard¹, Judit Váradi², Bianca Mladin¹, Marcel Rosu¹, Ferenc Fenyvesi²

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