

WORKSHOP

EXCELLENCE IN RESEARCH - PNRR PROJECTS IN ICMPP

Program

**ICMPP – Petru Poni Institute of Macromolecular Chemistry
Iasi | Romania | June 16, 2026**

https://icmpp.ro/events/conferences/workshop_pnrr.php

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„PNRR. Finanțat de Uniunea Europeană - Următoarea Generație UE”

Website - <https://mfe.gov.ro/pnrr/>

Facebook - <https://www.facebook.com/PNRROficial>



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Dear colleagues from Romania and abroad,

It is our pleasure to invite you to the workshop dedicated to the successful finalization of the PNRR projects implemented within Petru Poni Institute of Macromolecular Chemistry:

- **POLYSACCHARIDE BASED (BIO)HYBRID NANOSTRUCTURES, HYBSAC**
PNRR-III-C9-2022 – I8 – CF201
Project director Dr. Asterios (Stergios) PISPAS
- **INTELLIGENT SYSTEMS FOR CANCER DIAGNOSIS AND TREATMENT, IntelDots**
PNRR-III-C9-2022 – I8 – CF291
Project director Dr. Maria Concepcion OVIN ANIA
- **METAL COMPLEXES AS MICROTUBULE- AND DUAL MICROTUBULE – R2 RNR-TARGETING DRUGS FOR CANCER TREATMENT, METUBIN**
PNRR-III-C9-2023 – I8 – CF99
Project director Dr. Vladimir ARION
- **MULTIFUNCTIONAL HYBRID 3D ARCHITECTURES BASED ON HOLLOW GaN NANO-MICROTETRAPODS FOR ADVANCED APPLICATIONS AT ICMPP, MultiPodGaN**
PNRR-III-C9-2023 – I8 – CF161
Project director Acad Prof. Dr. Ion TIGHINEANU

Workshop Highlights

- Presentation of major scientific achievements of PNRR projects by the project directors (plenary session) and members of each project (parallel sessions)
- Exchange of experiences and best practices in the research of excellence developed within the PNRR projects
- Discussion of innovation, interdisciplinary collaboration, and future opportunities
- Perspectives and conclusions on the developed research directions within the PNRR projects

Best wishes for a professionally rewarding workshop!

ORGANIZERS



760082/23.05.2023,
CF201/2022



intedots

760081/23.05.2023,
CF291/2022



760284/27.03.2024,
CF99/2023



760285/27.03.2024,
CF161/2023



SHORT PROGRAM

TUESDAY, June 16, 2026				
09 ⁰⁰ -09 ¹⁵	Workshop Opening			
09 ¹⁵ -10 ⁰⁰	HYBSAC / S. Pispas, M. Mihai			
10 ⁰⁰ -10 ⁴⁵	INTELDOTS / A. Conchi, A. Coroaba			
10 ⁴⁵ -11 ¹⁵	Coffee Break			
11 ¹⁵ -12 ⁰⁰	METUBIN / V. Arion, M. Dascalu			
12 ⁰⁰ -12 ⁴⁵	MultiPodGaN / I. Tighineanu, A. Rotaru			
12 ⁴⁵ -14 ⁰⁰	Lunch Break			
PARALEL SESSIONS				
<i>PNRR PROJECTS</i>	<i><u>HYBSAC</u></i>	<i><u>INTELDOTS</u></i>	<i><u>METUBIN</u></i>	<i><u>MultiPodGaN</u></i>
14 ⁰⁰ -14 ¹⁵	HY-OC1 F. Bucatariu	ID-OC1 C. Stan	MT-OC1 A. Stoica	MG-OC1 T. Braniste
14 ¹⁵ -14 ³⁰	HY-OC2 S. Vasiliu	ID-OC2 I. Spiridon	MT-OC2 G. Roman	MG-OC2 F. Doroftei
14 ³⁰ -14 ⁴⁵	HY-OC3 S. Racovita	ID-OC3 M. Ignat	MT-OC3 M.-A. Trofin	MG-OC3 L. Bahrin
14 ⁴⁵ -15 ⁰⁰	HY-OC4 A. Papagiannopoulos	ID-OC4 A. Fifere	MT-OC4 C. Frincul	MG-OC4 V. Ciobanu
15 ⁰⁰ -15 ¹⁵	HY-OC5 D. Loghin	ID-OC5 C. Uritu	MT-OC5 A. Birzu	MG-OC5 L. Ursu
15 ¹⁵ -15 ³⁰	HY-OC6 M. Karayianni	ID-OC6 C. Albu	MT-OC6 I.-A. Iftimie	MG-OC6 D. Bejan
15 ³⁰ -16 ⁰⁰	Coffee Break			
16 ⁰⁰ -16 ¹⁵	HY-OC7 L. M. Petrilă	ID-OC7 A. Dascalu	MT-OC7 A. Craciun	MG-OC7 R. Ghiarasim
16 ¹⁵ -16 ³⁰	HY-OC8 A.L Vasiliu	ID-OC8 S. Filipiuc	MT-OC8 A. Bejan	MG-OC8 O. Carp
16 ³⁰ -16 ⁴⁵	HY-OC9 M. Zaharia	ID-OC9 D. Isac	MT-OC9 A. Cojocariu	MG-OC9 R. Dulgheriu
16 ⁴⁵ -17 ⁰⁰	HY-OC10 M. Bazarghideanu	ID-OC10 P. Tirnovan	MT-OC10 M. Balan- Porcarasu	MG-OC10 R. Mocanu
17 ⁰⁰ -17 ¹⁵	HY-OC11 C.G. Marandis	ID-OC11 R. Puf	MT-OC11 O. Palamarciuc	MG-OC11 B. Cretu
17 ¹⁵ -17 ³⁰	HY-OC12 A. P. Moraru	ID-OC12 V. Platon	MT-OC12 D. Peptanariu	MG-OC12 F. Lazar
17 ³⁰ -18 ⁰⁰	CONCLUSIONS & PERSPECTIVE Workshop Closing			

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PROGRAM

TUESDAY, June 16, 2026	
09⁰⁰-09¹⁵	Workshop Opening
09¹⁵-10⁰⁰	Polysaccharide-based (Bio)hybrid Nanostructures - HYBSAC Stergios PISPAS, Marcela MIHAI
10⁰⁰-10⁴⁵	Intelligent Systems for Cancer Diagnosis and Treatment - IntelDots Maria Concepcion OVIN ANIA, Adina COROABA
10⁴⁵-11¹⁵	Coffee Break
11¹⁵-12⁰⁰	Metal Complexes as Microtubule- and Dual Microtubule-R2 RNR-Targeting Drugs for Cancer Treatment - Metubin Vladimir ARION, Mihaela DASCALU
12⁰⁰-12⁴⁵	Multifunctional Hybrid 3D Architectures based on Hollow Gan Nano-Micro-Tetrapods for Advanced Applications at Petru Poni Institute of Macromolecular Chemistry - MultiPodGaN Ion TIGHINEANU, Alexandru ROTARU
12⁴⁵-14⁰⁰	Lunch Break
PARALEL SESSIONS	
HYBSAC	
14⁰⁰-14¹⁵	HY-OC1. Electrosynthesis of chitosan-g-poly(N-isopropylacrylamide)/Fe₂O₃ composites Florin BUCATARIU, Marius-Mihai ZAHARIA, Larisa-Maria PETRILA, Timeea-Anastasia CIOBANU, Stergios PISPAS, Marcela MIHAI
14¹⁵-14³⁰	HY-OC2. Thermoresponsive copolymer gellan-g-poly(N-isopropylacrylamide) Silvia VASILIU, Stefania RACOVITA, Diana-Felicia LOGHIN, Mihaela Iuliana AVADANEI, Melinda-Maria BAZARGHIDEANU, Ana-Maria MACSIM, Marcela MIHAI, Stergios PISPAS
14³⁰-14⁴⁵	HY-OC3. Composite materials based on the gellan-g-poly(acrylic acid) copolymer Stefania RACOVITA, Silvia VASILIU, Diana LOGHIN, Mihaela Iuliana AVADANEI, Daniela RUSU, Melinda-Maria BAZARGHIDEANU, Ana-Maria MACSIM, Marcela MIHAI, Stergios PISPAS
14⁴⁵-15⁰⁰	HY-OC4. Layer-by-layer assembly of (grafted) polysaccharides monitored by Quartz Crystal Microbalance Aristeidis PAPAGIANNOPOULOS, Larisa-Maria PETRILA, Cristina BOSTACA, Marius-Mihai ZAHARIA, Marcela MIHAI, Stergios PISPAS
15⁰⁰-15¹⁵	HY-OC5. Hybrid copolymer starch-g-poly(acrylic acid): synthesis, characterization and solution behavior Diana-Felicia LOGHIN, Silvia VASILIU, Stefania RACOVITA, Mihaela Iuliana AVADANEI, Melinda-Maria BAZARGHIDEANU, Ana-Maria MACSIM, Marcela MIHAI, Stergios PISPAS

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15 ¹⁵ -15 ³⁰	HY-OC6. Chitosan and PMAA-POEGMA Block Copolymer Coassemblies as DNA Carriers Maria KARAYIANNI, Elena-Daniela LOTOS, Ana-Lavinia VASILIU, Marcela MIHAI, Stergios PISPAS
15 ³⁰ -16 ⁰⁰	Coffee Break
16 ⁰⁰ -16 ¹⁵	HY-OC7. Enzyme/(grafted) polysaccharide nanostructures: binding mechanism and performance on dye removal Larisa-Maria PETRILA, Timeea-Anastasia CIOBANU, Maria KARAYIANNI, Tudor VASILIU, Stergios PISPAS, Marcela MIHAI
16 ¹⁵ -16 ³⁰	HY-OC8. Polysaccharides matrix for in situ crystallization of calcium carbonate Ana-Lavinia VASILIU, Elena-Daniela LOTOS, Marius-Mihai ZAHARIA, Camelia-Georgiana MARANDIS, Stergios PISPAS, Marcela MIHAI
16 ³⁰ -16 ⁴⁵	HY-OC9. Synthesis and characterization of thermoresponsive chitosan-g-poly(N-isopropylacrylamide) hybrid copolymer via radical mediated coupled reaction Marius ZAHARIA, Florin BUCATARIU, Maria KARAYIANNI, Daniela LOTOS, Ana-Maria MACSIM, Daniela RUSU, Marcela MIHAI, Stergios PISPAS
16 ⁴⁵ -17 ⁰⁰	HY-OC10. Amylopectin copolymers grafting with RAFT produced synthetic polymers Melinda-Maria BAZARGHIDEANU, Marius-Mihai ZAHARIA, Ana-Maria MACSIM, Cristina BOSTACA, Stergios PISPAS, Marcela MIHAI
17 ⁰⁰ -17 ¹⁵	HY-OC11. Chitosan-based hybrid copolymers: synthesis via EDAC/NHS-mediated coupling, characterization and binding studies with proteins Camelia-Georgiana MARANDIS, Larisa-Maria PETRILA, Ionel MANGALAGIU, Stergios PISPAS, Marcela MIHAI
17 ¹⁵ -17 ³⁰	HY-OC12. Thermoresponsive properties of chitosan-g-poly(N-isopropylacrylamide) Alina-Petronela MORARU, Florin BUCATARIU, Marius ZAHARIA, Lavinia VASILIU, Marius PRODAN, Marcela MIHAI, Stergios PISPAS
INTELDOTS	
14 ⁰⁰ -14 ¹⁵	ID-OC1. Diphenylhydantoin-derived Mn(II)-carbon nanodots: A gadolinium-free approach to dual-mode imaging agents Cornel STAN
14 ¹⁵ -14 ³⁰	ID-OC2. From biomass to bioimaging: One-pot synthesis and characterization of fluorescent carbon materials from LignoBoost lignin Iuliana SPIRIDON, Irina APOSTOL
14 ³⁰ -14 ⁴⁵	ID-OC3. Microwave-assisted synthesis of Mn(II)-doped and undoped carbon nanodots from N-hydroxyphthalimide and folic acid: Characterization and biological evaluation Maurusa IGNAT, Adina COROABA
14 ⁴⁵ -15 ⁰⁰	ID-OC4. Hydrothermal synthesis of α-ketoglutaric acid-based carbon nanodots: A novel precursor for Mn-doped dual-modal imaging agents Adrian FIFERE, Tudor PINTEALA

15 ⁰⁰ -15 ¹⁵	ID-OC5. Fluorescent drug-loaded liposomes as nanocarriers for real-time in vivo biodistribution imaging Cristina Mariana URITU
15 ¹⁵ -15 ³⁰	ID-OC6. Towards sulfur-incorporated Mn/Bi-doped carbon nanodots: Dual synthetic approaches for morpho-structural and optical property modulation Cristina ALBU
15 ³⁰ -16 ⁰⁰	Coffee Break
16 ⁰⁰ -16 ¹⁵	ID-OC7. Oxidant-mediated condensation of o-phenylenediamine as a novel route to fluorescent Mn-doped carbon nanodots Andrei DASCALU
16 ¹⁵ -16 ³⁰	ID-OC8. Dual-modal imaging of Mn-doped carbon nanodots: Concentration-dependent fluorescence response and enhanced MRI relaxivity Silviu FILIPIUC, Cristina Mariana URITU
16 ³⁰ -16 ⁴⁵	ID-OC9. DFT and TD-DFT investigation of UV-Vis absorption properties in polycyclic aromatic hydrocarbons and graphene quantum dot models Dragos ISAC
16 ⁴⁵ -17 ⁰⁰	ID-OC10. Edge termination and epoxy functionalization effects on the optical properties of armchair and zigzag graphene quantum dots Petru TIRNOVAN
17 ⁰⁰ -17 ¹⁵	ID-OC11. Size, layering, oxidation, and structural defects as tuning parameters for the optical properties of graphene quantum dots Răzvan PUF
17 ¹⁵ -17 ³⁰	ID-OC12. Engineered nanoplatfoms for theranostic applications: Carbon nanostructures and chitosan-based drug delivery system Vera PLATON
METUBIN	
14 ⁰⁰ -14 ¹⁵	MT-OC1. A dual approach for evaluating the antiproliferative activity of compounds developed within the METUBIN project Alexandru STOICA
14 ¹⁵ -14 ³⁰	MT-OC2. Insights into the synthesis of metal complexes derived from 8-[(pyridin-2-ylmethylene)hydrazinylidene]-6,7,8,9-tetrahydro-5H-benzo[5,6]azocino[3,4-b]indoles Gheorghe ROMAN
14 ³⁰ -14 ⁴⁵	MT-OC3. From molecular design to target compounds: multistep synthesis of copper(II) complexes with indolobenzazocine ligands having a methoxy group in the benzazocine fragment Marin-Aurel TROFIN
14 ⁴⁵ -15 ⁰⁰	MT-OC4. Synthetic pathway toward copper(II) complexes with ligands incorporating a difluorinated benzazocine scaffold Codruta FRINCUL
15 ⁰⁰ -15 ¹⁵	MT-OC5. Indolobenzazocine substituted with 4-methoxy group in the indole fragment and their copper(II) complexes Alexandra BIRZU

15 ¹⁵ -15 ³⁰	MT-OC6. 11-Methoxy-substituted indolobenzazocines and their copper(II) complexes Ioana-Antonia IFTIMIE
15 ³⁰ -16 ⁰⁰	Coffee Break
16 ⁰⁰ -16 ¹⁵	MT-OC7. Advances in the development of a new Schiff base derived from dimethoxy-substituted indolobenzazocine and its Cu(II) complex Anda CRACIUN
16 ¹⁵ -16 ³⁰	MT-OC8. Design and synthesis of a trimethoxybenzyl-indolobenzazocine as tubulin polymerization inhibitor Andrei BEJAN
16 ³⁰ -16 ⁴⁵	MT-OC9. Towards copper(II) complexes of N-(trimethoxyphenyl)-substituted indolobenzazocines Antonia COJOCARIU
16 ⁴⁵ -17 ⁰⁰	MT-OC10. Particular features of the structural characterization of indolobenzazocine-based Schiff bases and their metal complexes by NMR spectroscopy Mihaela Balan-PORCARASU
17 ⁰⁰ -17 ¹⁵	MT-OC11. Design and synthesis of thiosemicarbazones as R2 RNR and colchicine site tubulin inhibitors Oleg PALAMARCIUC
17 ¹⁵ -17 ³⁰	MT-OC12 Fluorescence imaging of cell cycle arrest in MCF-7 breast cancer cells Dragos PEPTANARIU
MultiPodGaN	
14 ⁰⁰ -14 ¹⁵	MG-OC1. Emerging aero-3D micro-nano-architectures based on GaN and ZnO: preparation and prospects for applications Tudor BRANISTE, Veaceslav URSAKI
14 ¹⁵ -14 ³⁰	MG-OC2. Surface characterization aspects of 3D micro- and nano-architectures Florica DOROFTEI
14 ³⁰ -14 ⁴⁵	MG-OC3. Synthesis of conjugated heterocyclic compounds for inorganic surface functionalization Lucian BAHRIN, Dana BEJAN
14 ⁴⁵ -15 ⁰⁰	MG-OC4. Functionalized ZnO and GaN Nanoparticles for emerging applications Vladimir CIOBANU, Ion TIGHINEANU
15 ⁰⁰ -15 ¹⁵	MG-OC5. Controlled ZnO and GaN nanoparticle functionalization with gold nanoparticles for SERS detection of antibiotics Laura URSU, Denisse BOSTIOG
15 ¹⁵ -15 ³⁰	MG-OC6. Synthesis and characterization of ionic liquids and their interaction with GaN micro-tetrapods Dana BEJAN
15 ³⁰ -16 ⁰⁰	Coffee Break
16 ⁰⁰ -16 ¹⁵	MG-OC7. Growth of polymer chain on functionalized magnetic nanoparticles for theranostic applications Razvan GHIARASIM, Natalia SIMIONESCU

16 ¹⁵ -16 ³⁰	MG-OC8. ZnO and GaN nanoparticle hybrids with gold nanoparticles for electrochemical detection of antibiotics Oana CARP, Denisse BOSTIOG, Laura URSU
16 ³⁰ -16 ⁴⁵	MG-OC9. Preparation and characterization of guanosine-based supramolecular hydrogels and their interaction with inorganic nanoparticles Tecla DULGHERIU, Alexandru ROTARU, Laura URSU
16 ⁴⁵ -17 ⁰⁰	MG-OC10. Optimization of ZnO and GaN nanoparticle hybrids with gold nanoparticles for enhanced electrochemical response for antibiotics Rares MOCANU, Oana CARP
17 ⁰⁰ -17 ¹⁵	MG-OC11. Dispersion and stabilization of ZnO and GaN nanoparticles with cyclodextrins Bogdan CRETU, Narcisa MARANGOCI
17 ¹⁵ -17 ³⁰	MG-OC12. Design, synthesis and characterization of biologically active N-heterocyclic compounds and their interaction with ZnO and GaN Nanoparticles Florentina LAZAR, Ashraf AL-MATARNEH
17 ³⁰ -18 ⁰⁰	CONCLUSIONS & PERSPECTIVE Workshop Closing

