

**“Nicolae Testemițanu” State University of Medicine and Pharmacy
Moldova State University
Institute of Chemistry of MSU
Institute of Mother and Child**

**International Congress
MEDICINE, MOLECULAR AND
ENVIRONMENTAL SCIENCES 2025**

**“From chemistry to medicine – 35 years of Moldo-Romanian
scientific collaboration”**



PROGRAM

**November, 10-15 2025
Chișinău, Republic of Moldova**

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WELCOME

Dear Colleagues and Friends,

We are delighted to welcome you at the International Congress “MEDICINE, MOLECULAR AND ENVIRONMENTAL SCIENCES 2025” in Chisinau and we thank you for attending.

Please join us in celebrating 35 years of Moldo-Romanian scientific collaboration.

The MedMolMed 2025 congress aims to play a key role in developing research and expanding collaboration in the fields of molecular and life sciences. Expanding collaboration between scientists from Moldova and Romania is essential for maintaining our relevance, competitiveness, and visibility in the European and global academic area.

Topics include basic and applied researches as well as case studies in the fields of medicine, chemistry, physics and all related biomedical and molecular areas (pharmacy, biochemistry, food sciences, material sciences, crystal engineering, ecology, etc).

There are over 200 participants and papers registered to MedMolMed 2025. We thank you for the interest shown in this event.

Last but not least, we wish to thank all the sponsors and institutions for their commitment and much appreciated support of the conference. We hope that direct contacts between sponsors and participants will enhance collaboration in future research projects and infrastructure development.

We hope that the program will stimulate enthusiastic discussions and we wish you a nice stay in Chisinau.

*Professor Olga TAGADIUC
Chair, Organizing Committee*

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RO: Ionel MANGALAGIU, Gabriela NEMEȘ

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C3 Materials Science

MD: Ion TIGINYANU, Veaceslav URSAKI

RO: Valeria HARABAGIU, Horia IOVU

C4 Ecological Chemistry and Environmental Protection

MD: Viorica GLADCHI, Tudor LUPAȘCU,

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C5 Biotechnology, Food and Plant Sciences

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The International Congress *MEDICINE, MOLECULAR AND ENVIRONMENTAL SCIENCES 2025* is organized by:

“Nicolae Testemițanu” State University of Medicine and Pharmacy, Chișinău

Moldova State University, Chișinău

Institute of Chemistry of MSU, Chișinău

Institute of Mother and Child, Chișinău



Co-organized by:

“Petru Poni” Institute of Macromolecular Chemistry, Iași
University of Medicine and Pharmacy “Grigore T. Popa”, Iași
“Costin D. Nenițescu” Institute of Organic and Supramolecular Chemistry, București
A.O. Association for Investigation of Chronic Maladies, Orhei



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Venue: The “Nicolae Testemitanu” State University of Medicine and Pharmacy Sociocultural Complex, Nicolae Testemitanu Street 25, Chisinau. Accessible by public buses No 8 and 9 from Ștefan cel Mare și Sfânt blvd. (central part) to „Spitalul Clinic Republican” station.

Monday, November 10		
08:30-09:00	Registration	
09:00-10:30	Opening ceremony <i>Moderator: Olga Tagadiuc</i>	
	<ul style="list-style-type: none"> - Guests for welcome speech: - Emil Ceban, Ministry of Health of the Republic of Moldova - Dan Perciun, Ministry of Education and Research of Republic of Moldova - Daniel David, Ministry of Education and Research, Romania - Cernetchi Olga, Rector USMF ”Nicolae Testemițanu” - Igor Șarov, Rector of Moldova State University, Chișinău - Adrian Covic, Vice-rector ”Grigore T. Popa” University of Medicine and Pharmacy, Iași - Ion Tighineanu, President of AȘM - Ionel Mangalagiu, Alexandru Ioan Cuza University, Iași - Aurelia Hanganu, General Director ANCD - Valeria Harabagiu, Director of the ”Petru Poni” Institute of Macromolecular Chemistry, Iași - Sergiu Gladun, Director of the Institute of Mother and Child, Chișinău - Aculina Aricu, Director of the Institutut of Chemistry, MSU - Karina Nersesyan, UNFPA Moldova representative - Calin Deleanu, ”Petru Poni” Institute of Macromolecular Chemistry, Iași, - ”Costin D. Nenitescu” Institute of Organic and Supramolecular Chemistry, București 	
10:30-12:00	PLENARY Session <i>Moderators: Olga Tagadiuc, Valeria Harabagiu</i>	
PL-1 10:30-11:00	Adrian Covic	Chemistry-pathology interface: uremic toxins and the risk in patients with chronic kidney disease
PL-2 11:00-11:30	Ionel Mangalagiu	Multitarget azaheterocycles for anticancer and antimicrobial diseases
PL-3 11:30-12:00	Aurelian Gulea	Design of molecules with strong anticancer properties
12:00-14:00	LUNCH „Raisa Pacalo” Center of Excellence in Medicine and Pharmacy 28 Nicolae Testemitanu str., Chisinau	
14:00-16:00	PLENARY Session <i>Moderators: Cristina M. Al-Matarneh, Tatiana Caraus</i>	
PL-4 14:00-14:30	Fliur Macaev	Molecular diversity of ionic liquids: preparation of novel scaffolds and focused targets
PL-5 14:30-15:00	Sergiu Coșeri	Nature to nano: the hidden role of cellulose in bioelectronics for personalized medicine
PL-6 15:00-15:30	Veaceslav Kulcițki	Building form and function of terpenoids: the new age of free radical chemistry
PL-7 15:30-16:00	Marcela Mihai	Polysaccharide based (bio)hybrid nanostructures
16:00-17:00	<i>Coffee break</i>	
16:00-17:00	POSTER Session	
17:00-18:00	KEYNOTES Session <i>Moderators: Veaceslav Kulcițki, Silvia Melnic</i>	
KN-1 17:00-17:15	Cristina M. Al-Matarneh	Pyrrol-Sulfonamide Molecules: Small Size, Vast Possibilities

KN-2 17:15-17:30	Luminița Marin	Mesoporous chitosan nanofibers: an approach to wound dressings
KN-3 17:30-17:45	Dinu Țurcanu	Wearable biosensors for physiological and nutritional monitoring in military contexts: comparative analysis of functionality, monitored parameters, and emerging directions
KN-4 17:45-18:00	Bogdan Agavriiloaei	Romanian experience of Tolvaptan treatment in patients with rapid progressive ADPKD
18:00	WELCOME Evening	
Tuesday, November 11		
08:30-09:00	Registration	
09:00-12:00	PLENARY Session <i>Moderators: Ionel Mangalagiu, Svetlana Șciuca</i>	
PL-8 09:00-09.30	Tudor Lupașcu	Synthesis and application of new adsorptive nanomaterials for environmental protection and human health
PL-9 09:30-10:00	Valeria Harabagiu	Plastics: Intercorrelated effects on economics, environment, health
PL-10 10:00-10:30	Viorica Gladchi	Self-purification processes in natural waters: ecochemical mechanisms and environmental protection perspectives
PL-11 10:30-11:00	Veaceslav Ursaki	Aero-semiconductor materials: preparation, properties and prospects for applications
PL-12 11:00-11:30	Maria Cazacu	2D Coordination polymers – a hybrid and more versatile alternative to layered inorganic materials
KN-5 11:30-11:45	Ionuț Melinte	Laboratorium
WS-1 11:45-12:00	Victor Richeard	OF System
	GROUP PHOTO	
12:00-14:00	LUNCH „Raisa Pacalo” Center of Excellence in Medicine and Pharmacy 28 Nicolae Testemitanu str., Chisinau	
14:00-16.00	ORAL COMMUNICATIONS Session <i>Moderators: Aculina Arîcu, Natalia Ușurelu</i>	
OL-1 14:00-14:15	Elena-Daniela Lotos	Reusable zwitterionic ion-exchange resins for the removal of heavy metals from contaminated water
OL-2 14:15-14:30	Melinda-Maria Bazarghideanu	Hybrid nanostructures based on AMP-g-PAA as mediator for in situ gold nanoparticles
OL-3 14:30-14:45	Mioara Murariu	Mechanistic insights into the turn-Off/On fluorescence behavior of a PEDOT–cyclodextrin supramolecular architecture toward metal ions
OL-4 14:45-15:00	Raluca A. Septean	Phospha(chalcogenoxo) phosphoranes, rich-electron building blocks for new organometallic and coordination compounds
OL-5 15:00-15:15	Cezara Zăgrean-Tuza	Porphyrin is mightier than corrin: reactivity tales of two tetrapyrroles
OL-6 15:15-15:30	Natalia Bolocan	Thermodynamic insights into synergistic enhancement of drug solubility
OL-7 15:30-15:45	Maria Stratan	The power of comprehensive genetic testing in one family case
WS-2 15:45-16:00	Victor Richeard	OF System
16:00-17:00	Coffee break	
16:00-17:00	POSTER Session	

16:00-17:00	WORKSHOP: Pipetting Excellence (<i>Laboratory USMF, floor 6</i>)	
17:00-18:00	PLENARY Session <i>Moderators: Tudor Lupășcu, Ninel Revenco</i>	
PL-13 17:00-17:30	Olga Tagadiuc	Free radicals in health and disease
PL-14 17:30-18:00	Călin Deleanu	NMR lipidomics in medicine, molecular sciences and environment
18:00-18:30	<i>Coffee break</i>	
18:30-20:00	Mircea Dumitru Daniel David Wilhelm Dancă	Debate-Dialog <i>„Despre Adevăr în Știință, Filosofie, Religie și Simțul comun”</i>
Wednesday, November 12		
08:30-09:00	Registration	
09:00-12:00	PLENARY Session <i>Moderators: Valeriu Cotea, Maria Cocu</i>	
PL-15 09:00-09:30	Rodica Sturza	Current food system problems and priority research directions in food science
PL-16 09:30-10:00	Roxana Ionete	From food security to forensic science: Stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) as tools for reconstructing diet and geographic provenance from human hair
PL-17 10:00-10:30	Aculina Arîcu	Terpene-heterocyclic hybrids as antimicrobial agents
KN-6 10:30-10:45	Nicoleta Chira	NMR spectroscopy as a tool in checking dairy foods for conformity: detecting the addition of oils and fats of non-dairy origin
KN-7 10:45-11:00	Liliana Cepoi	Optimized Porphyridium purpureum biomass as a source of reducing sugars for AgNPs biosynthesis
KN-8 11:00-11:15	Serghei Corcimaru	Soil microorganisms as indicators of soil pollution by POPs
KN-9 11:15-11:30	Rodica Siminiuc	Dietary patterns in Eastern Europe (2010–2022): Comparative FAOSTAT analysis and implications for non-communicable disease prevention
KN-10 11:30-11:45	Brîndușa Drăgoi	Bridging the gap between cancer research and clinical care with nanomedicine
KN-11 11:45-12:00	Adrian Crețu	ELTA90
12:00-14:00	LUNCH „Raisa Pacalo” <i>Center of Excellence in Medicine and Pharmacy</i> <i>28 Nicolae Testemitanu str., Chisinau</i>	
14:00-16:00	ORAL COMMUNICATIONS Session <i>Moderators: Rodica Sturza, Ina Palii</i>	
OL-8 14:00-14:15	Marius Gheorghe Miricioiu	Unveiling wine provenance: a metabolomic and isotopic approach for discriminating neighboring vineyards
OL-9 14:15-14:30	Cătălin Duduianu	NMR insights in tomatoes degradation
OL-10 14:30-14:45	Diana Văluță	Cervical screening, PAP-test vs HPV: opportunities, and priorities
OL-11 14:45-15:00	Adela Stamati	Genotype-phenotype relationships in the management of children with dilated cardiomyopathy
OL-12 15:00-15:15	Larisa Mocanu	Optimization and kinetic evaluation of catechol degradation in aqueous solutions using homogeneous processes
OL-13 15:15-15:30	Daniel Dmitriev	Caries risk assessment in children with congenital heart defects: perspectives on oral and systemic health

OL-14 15:30-16:00	Veronica Dragancea	Potential toxicological hazards of different types of plastic packaging
16:00-17:00	Coffee break	
16:00-17:00	POSTER Session	
16:00-17:30	WORKSHOP: Pipetting Excellence (Laboratory USMF, floor 6)	
19.00	Conference Dinner, Villa Garden Restaurant, Sala Panoramică, Bd. Decebal 16, Chişinău	
Thursday, November 13		
08:30-09:00	Registration	
09:00-12:00	PLENARY Session Moderators: Adrian-Nicolae Buzatu, Liliana Cepoi	
PL-18 09:00-09:30	Maria Puiu	Genomics as a driver of health development in Romania and Moldova
PL-19 09:30-10:00	Natalia Uşurelu	Metabolomic research in diagnosis of Inborn Errors of Metabolism
PL-20 10:00-10:30	Alina Nicolescu	NMR metabolomics in plants, animals and humans
KN-12 10:30-10:45	Vasilica Plăiaşu	Fusion of art, science and education: Kabuki phenotype
KN-13 10:45-11:00	Ana-Maria Gheorghe	A clinical study involving serum irisin assays in post-menopause: blood markers correlates (project IRI-OP-OB)
KN-14 11:00-11:15	Tatiana Raba	Diagnostic and therapeutic management of colonic papillomatosis associated with pediatric ulcerative colitis
KN-15 11:15-11:30	Adrian Bartoş	Robotic surgery in hepato-bilio-pancreatic tumor pathology: indications, advantages and future perspectives in research field
KN-16 11:30-11:45	Cristina Pojoga	Treatment of Upper Digestive Bleeding in Surgical Patients
KN-17 11:45-12:00	Lucian Cojocar	BIOgenetiX
12:00-14:00	LUNCH „Raisa Pacalo” Center of Excellence in Medicine and Pharmacy 28 Nicolae Testemitanu str., Chisinau	
14:00-16:00	KEYNOTES Session Moderators: Marcela Mihai, Fliur Macaev	
KN-18 14:00-14:15	Mirela Zaltariov	Deep eutectic solvents – A green route in composite materials
KN-19 14:15-14:30	Maria Gonța	Optimization of anionic surfactant removal using gallic acid-assisted fenton oxidation
KN-20 14:30-14:45	Ramona Danac	Design and synthesis of new (pyrrolo)indolizine derivatives as potential anticancer agents
KN-21 14:45-15:00	Costel Moldoveanu	The cycloaddition of benzimidazolium ylides to alkynes: the mechanism elucidation
KN-22 15:00-15:15	Mihaela Dascălu	Advancing the electromechanical performance of silicone dielectric elastomers
KN-23 15:15-15:30	Simona Nica	Crystal engineering of azulene-based organic and metal-organic cages
KN-24 15:30-15:45	Mihaela Florea	MXene-based catalysts for selective oxidation of methane at low temperatures
KN-25 15:45-16:00	Ahmed Dhifaoui	Jeol
16:00-17:00	Coffee break	

16:00-17:30	POSTER Session	
18:00-20:00	Eveniment social Opera “La Traviata” <i>National Opera and Ballet Theatre "Maria Biesu", 152 Stefan cel Mare and Sfint blvd., Chisinau</i>	
Friday, November 14		
08:30-09:00	Registration	
09:00-12:00	KEYNOTES Session <i>Moderators: Maria Cazacu, Olga Tagadiuc</i>	
KN-26 09:00-09:15	Viorica Bulgaru	Meat analogues: A sustainable solution for future food systems
KN-27 09:15-09:30	Nikita Siminel	Fully inkjet-printed transition metal dichalcogenide FET biosensors for express E. coli Detection
KN-28 09:30-09:45	Mariana Neamțu	Anti-glioblastoma activity and singlet oxygen generation of novel imidazole-based tetrachloroferrates
OL-15 09:45-10:00	Natalia Sucman	Synthesis and cytotoxic evaluation of novel naphthoquinones as potential anticancer agents
OL-16 10:00-10:15	Cojocari Daniela	Microbiostatic activity of berry powders and extracts on microorganisms responsible for food spoilage
OL-17 10:15-10:30	Garbuz Olga	Acaricidal efficacy of cobalt complex in beekeeping
OL-18 10:30-10:45	Nicolai Cupcea	The use of bioprotective yeasts to reduce sulfite consumption in winemaking
OL-19 10:45-11:00	Petru Spătaru	Improvement of the water quality of the Bâc River using the example of intensifying the process of purifying ammonia nitrogen in Chișinău MWWTP water
OL-20 11:00-11:15	Oleg Bogdevici	The study of Groundwater and Surface Water Interaction Using Geochemical and Isotope Composition
OL-21 11:15-11:30	Alina Beșliu	Current concepts on the therapeutic potential of kaempferol-loaded bionanocomposites in corneal regeneration
OL-22 11:30-11:45	Iulia Bozbei	Evaluation of total flavonoid content in Aronia melanocarpa (Michx.) Elliot
OL-23 11:45-12:00	Mihaela Olaru	FTIR and nano-FTIR spectroscopic insights into the photochemical stability of silsesquioxane hybrid coatings on archaeological ceramics
12:00-13:00	CONCLUSIONS	
12:00-14:00	LUNCH „Raisa Pacalo” <i>Center of Excellence in Medicine and Pharmacy</i> <i>28 Nicolae Testemitanu str., Chisinau</i>	
17:00-20:00	Excursion Tourist and Oenogastronomic Complex “Kingdom of Wine”, Cricova (Departure from the Academy of Sciences of Moldova, 1, Ștefan cel Mare blvd.)	
Saturday, November 15		
09:00-10:00	Networking Laboratory Visit	
10:00-18:00	Networking and trip to “Orheiul Vechi” with traditional meal (Departure from the Academy of Sciences of Moldova, 1, Ștefan cel Mare blvd.)	

POSTER PRESENTATIONS

<i>Chemistry (C1)</i>	
PP1.1	Antimicrobial activity of Iron(III) complexes incorporating schiff base ligands Olga Danilescu, ^{1, 2} <u>Maria Cocu</u> , ¹ Ion Bulhac ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² Technical University of Moldova, Chisinau, Republic of Moldova
PP1.2	Synthesis and characterization of 3,4-dihydropyrimidin-2-ones with biological potential, in the presence of organic catalysts Natalia Ciobanu, <u>Fliur Z. Macaev</u> Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova
PP1.3	Synthesis of new biologically active homodrimane sesquiterpenoids with phenothiazine fragment <u>Lidia Lungu</u> , ¹ Alexandru Ciocârlan, ¹ Nicoleta Vornicu, ² Aculina Aricu ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² Metropolitan Center of Research T.A.B.O.R., Iasi, Romania
PP1.4	Synthesis of low molecular weight prenylated acylguanidine derivatives as prospective antimicrobial agents <u>Marina Grinco</u> , Ana Popușoi, Valentin Gușilo, Alic Barba, Veaceslav Kulcițki Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova
PP1.5	Tuning the adsorptive properties of zinc-based MOFs through controlled synthesis conditions Silvia Melnic, ^{1,2} Dana Bejan, ³ Vadim Druță, ¹ Sergiu Shova, ¹ Vasile Lozan ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² "Nicolae Testemitanu" State University of Medicine and Pharmacy, Faculty of Pharmacy, Chisinau, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
PP1.6	Quinoline Derivatives with Potential Antimicrobial Activity <u>Violeta Mangalagiu</u> , ² Vasilichia Antoci, ¹ Dorina Amariuca-Mantu, ¹ Ionel I. Mangalagiu ¹ ¹ Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Iasi, Romania; ² Alexandru Ioan Cuza University of Iasi, CERNESIM Center, Iasi, Romania
PP1.7	Quantitative thermodynamic modeling of drug precipitation-dissolution in cyclodextrin-based multicomponent aqueous systems <u>Natalia Bolocan</u> , Oxana Spinu, Igor Povar Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova
PP1.8	¹H NMR studies of the interactions of three chromenol derivatives with Drew-Dickerson dodecamer <u>Elena Gorincioi</u> , ¹ Marina Ceabanova, ¹ Primož Šket, ² Janez Plavec, ^{2,4} Fliur Macaev ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² National Institute of Chemistry, Slovenian NMR Centre, Ljubljana, Slovenia; ³ University of Ljubljana, Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia; ⁴ Center of Excellence, EN-FIST, Ljubljana, Slovenia
PP1.9	Antiproliferative activity of a dinuclear Cu(II) complex with a cyclized carbohydrazone ligand <u>Natalia Talmaci</u> , ¹ Diana Dragancea, ^{1,2} Olga Garbuz, ³ Aurelian Gulea ⁴ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² "C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry of the Romanian Academy, Bucharest, Romania; ³ "Nicolae Testemitanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ⁴ Laboratory of Advanced Materials in Biopharmaceuticals and Technology, Institute of Chemistry, Moldova State University, Chisinau, Republic of Moldova
PP1.10	Quinoline functionalization for the obtaining of biologically useful compounds Ana-Maria Birgoanu, ¹ Claudiu Ticalac, ¹ Cătălina Ciobanu, ² Ionel Mangalagiu, ¹ Costel Moldoveanu, ¹ <u>Gheorghită Zbancioc</u> ¹ ¹ „Al. I. Cuza” University of Iași, Faculty of Chemistry, Iasi, Romania; ² „Al. I. Cuza” University of Iași, CERNESIM Centre, Iasi, Romania
PP1.11	Synthesis, characterization and enzymatic activity enhancement of the heterobimetallic complex [CaL₃][Co(NCS)₄] on <i>Rhizopus arrhizus</i> CNMN FD 03 <u>Dumitru Ureche</u> , ¹ Ion Bulhac, ¹ Alexandra Ciloci, ² Steliana Clapco ² ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² Technical University of Moldova, Institute of Microbiology and Biotechnology, Chisinau, Republic of Moldova
PP1.12	Infrared spectroscopy of human urinary stones in Republic of Moldova Diana Shepel Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova

PP1.13	Spectrophotometric method for quantitative determination of the drug "Mabipan" Diana Shepel <i>Moldova State University, Institute of Chemistry, Chishinau, Republic of Moldova</i>
PP1.14	Evaluation of antibacterial activity of 3d metal complexes with 1-(morpholin-4-yl)propane-1,2-dione 4-phenylthiosemicarbazone towards <i>Staphylococcus aureus</i> <u>Ianina Graur</u> , ¹ Vasilii Graur, ¹ Irina Usataia, ¹ Victor Tsapkov, ¹ Greta Balan, ² Carolina Lozan-Tirsu, ² Aurelian Gulea ¹ ¹ <i>Moldova State University, Institute of Chemistry, Laboratory of Advanced Materials in Biopharmaceutics and Technics, Chisinau, Republic of Moldova;</i> ² <i>"Nicolae Testemitanu" State University of Medicine and Pharmacy, Department of Preventive Medicine, Chisinau, Republic of Moldova</i>
PP1.15	Exploring the antifungal activity towards <i>Candida albicans</i> of copper(II) complexes with 2-benzoylpyridine 4-norbornylthiosemicarbazone <u>Vasilii Graur</u> , ¹ Ianina Graur, ¹ Irina Usataia, ¹ Greta Balan, ² Carolina Lozan-Tirsu, ² Aurelian Gulea ¹ ¹ <i>Moldova State University, Institute of Chemistry, Laboratory of Advanced Materials in Biopharmaceutics and Technics, Chisinau, Republic of Moldova;</i> ² <i>"Nicolae Testemitanu" State University of Medicine and Pharmacy, Department of Preventive Medicine, Chisinau, Republic of Moldova</i>
PP1.16	Spectral studies on some dextran-iron oxide nanoparticle composites <u>Ionut Radu Tigoianu</u> , ¹ Anton Airinei, ¹ Carmen Gherasim, ¹ Tamara Potlog, ² Ion Lungu ² ¹ <i>Petru Poni Institute of Macromolecular Chemistry, Laboratory of Physical Chemistry of Polymers, Iasi, Romania;</i> ² <i>Moldova State University, Laboratory of Organic/Inorganic Materials for Optoelectronics, Chisinau, Republic of Moldova</i>
PP1.17	HCl-induced opening of steroid epoxides: mechanism and products <u>Natalia Sucman</u> , Dmitri Bilan, Fliur Macaev <i>Moldova State University, Institute of Chemistry, Chisinau, Moldova</i>
PP1.18	Soluble nitrogen species in model of river or lake water samples as indicators of the state of the aquatic environment Alexandru Vişnevschi, <u>Petru Spătaru</u> <i>Moldova State University, Institute of Chemistry, Chisinau, Moldova</i>
PP1.19	The synthesis of triazolium salts 2h-chromene-2-ol <u>Marina Ceabanova</u> , Eugenia Stingaci, Fliur Macaev <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>
PP1.20	Antioxidant co-action of wine polyphenols and organic acids <u>Crina Vicol</u> , ¹ Simona Nica, ² Gheorghe Duca, ¹ Marius Andruh ² ¹ <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova;</i> ² <i>"C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania</i>
PP1.21	New collagen-based membranes for glioblastoma treatment <u>Ileana Rău</u> , ¹ Andreea Idu, ¹ Mădălina Albu Kaya, ² Nicoleta Radu ³ ¹ <i>National University of Science and Technology POLITEHNICA Bucharest, Romania;</i> ² <i>INCDTP - Division Leather & Footwear Research Institute, Collagen Dept, Bucharest, Romania;</i> ³ <i>National Institute of Chemistry & Petrochemistry R&D Bucharest, Bucharest, Romania</i>
PP1.22	Dihedral angles and conic projection under wave motion <u>C.-I. Mitan</u> , ¹ E. Bartha, ¹ M.-T. Caproiu, ¹ C. Draghici, ¹ C. Deleanu ¹ , Petru Filip, ¹ Robert M. Moriarty ² ¹ <i>"C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Roumania;</i> ² <i>University of Illinois at Chicago, Illinois, Chicago, USA</i>
PP1.23	Reduced forms of oxygen and their role in the redox-catalytic reactions <i>in vivo</i> <u>Gheorghe Duca</u> , Lidia Romanciuc, Olga Covaliova <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>
PP1.24	Oxidative polymerization of ortho-phenylenediamine and 1,4-benzenediol: A route to nano-sized oligomers <u>Ramil Rzayev</u> , ^{1,2,3} Ion Geru, ¹ Natalia Sucman, ¹ Bakhtiyar A. Mammadov, ³ Elvin Ibadov, ³ Fliur Macaev ¹ ¹ <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova;</i> ² <i>Baku Engineering University, Department of Chemical Engineering, Baku, Absheron, Azerbaijan Republic;</i> ³ <i>Azerbaijan National Academy of Sciences, Institute of Polymer Materials, Sumgait, Azerbaijan Republic</i>
PP1.25	DFT study of photoswitching systems based on fluorescent azulenyl-substituted dithienylcyclopentenes <u>Iolanta Balan</u> , ¹ Petru Filip, ² Marius Andruh, ² Gheorghe Duca, ¹ Simona Nica ² ¹ <i>Moldova State University, Institute of Chemistry, Chişinău, Republic of Moldova;</i> ² <i>"C. D. Nenitzescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Romania</i>

PP1.26	Copper(II) complexes of syn-2-pyridinealdoxime ligand for prospective biological applications <u>Eduard Coropceanu</u> , ¹ Aliona Vitiu, ² Polina Bouroș, ² ¹ "Ion Creanga" State Pedagogical University of Chisinau, Institute for Research, Innovation and Technology Transfer, Chisinau, Republic of Moldova; ² Moldova State University, Institute of Applied Physics, Chisinau, Republic of Moldova
PP1.27	Exploring limitations of 2D NMR quantitative experiments: variability of HSQC data depending on NMR probe and magnet power Vladilena Gîrbu, ¹ Adina Organ, ² Alexandr Dorif, ³ Alic Barbă, ¹ <u>Veaceslav Kulcițki</u> , ¹ Alina Nicolescu, ⁴ Calin Deleanu ^{4,5} ¹ Moldova State University, Institute of Chemistry, Chișinău, Republic of Moldova; ² "Nicolae Testemițanu" State University of Medicine and Pharmacy, Department of Preventive Medicine, Chisinau, Republic of Moldova; ³ IMSP Institute of Mother and Child, Chisinau, Republic of Moldova; ⁴ "Petru Poni" Institute of Macromolecular Chemistry, Iași, România; ⁵ "Costin D. Nenitescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
PP1.28	Determination of rosmarinic acid in salvia species. Comparison of quantitative NMR and HPLC data Adrian Topală, ¹ <u>Vladilena Gîrbu</u> , ¹ Alina Nicolescu, ² Călin Deleanu, ^{2,3} Veaceslav Kulcițki ¹ ¹ Moldova State University, Institute of Chemistry, Chișinău, Republic of Moldova; ² "Petru Poni" Institute of Macromolecular Chemistry, Iași, România; ³ "Costin D. Nenitescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
PP1.29	Quantitative determination of rosmarinic acids in oregano extracts. A comparative study of NMR and HPLC data Adrian Topală, ¹ Alic Barba, ¹ Zinaida Balmuș, ² Alina Nicolescu, ³ Călin Deleanu, ^{3,4} <u>Veaceslav Kulcițki</u> ¹ ¹ Moldova State University, Institute of Chemistry, Chișinău, Republic of Moldova; ² Moldova State University, Institute of Genetics, Physiology and Plant Protection, Chișinău, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iași, România; ⁴ "Costin D. Nenitescu" Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
PP1.30	Selective anticancer activity of mixed-ligand copper(II) complexes with salicylaldehyde 4-allyl-S-methylisothiosemicarbazone <u>Irina Usataia</u> , ¹ Vasiliu Graur, ¹ Ianina Graur, ¹ Garbuz Olga, ² Aurelian Gulea ¹ ¹ Moldova State University, Institute of Chemistry, Laboratory of Advanced Materials in Biopharmaceutics and Technics, Chisinau, Republic of Moldova; ² Moldova State University, Institute of Zoology, Laboratory of Systematics and Molecular Phylogenetics, Chisinau, Republic of Moldova
PP1.31	Synthesis and biological activity of novel coumarin and flavonoid derivatives: a structure-based approach <u>Emese Gal</u> , Nicoleta Andrian, Cezara Zagrean-Tuza, Maria Lehene, Balázs Brem, Bianca Stoean, Luiza Ioana Găina, Radu Silaghi-Dumitrescu Babeș-Bolyai University, Research Center on Fundamental and Applied Heterochemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, România
PP1.32	Zn(II) and Cu(II) complexes with a TMS-substituted indolo[2,3-c]quinoline Schiff Base – properties and cytotoxicity Christopher Wittmann, ¹ Oleg Palamarcu, ² <u>Mihaela Balan-Porcarasu</u> , ² Mihaela Dascalu, ² Sergiu Shova, ² Maria Cazacu, ² Vladimir B. Arion ^{1,2} ¹ University of Vienna, Institute of Inorganic Chemistry, Vienna, Austria; ² "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
PP1.33	Conjugated platinum(IV) complexes, potential prodrugs in cancer therapy Balazs Brem, Emese Gal, Adrian Nicoara, Castelia Cristea, Luminita Silaghi-Dumitrescu, Evamarie-Hey-Hawkins, <u>Luiza Gaina</u> Babeș-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania
PP1.34	Experimental and theoretical approaches to the biological activity of some Schiff bases and derived cobalt complexes <u>Alexandru-Constantin Stoica</u> , Madalin Damoc, Mihaela Dascalu, Maria Cazacu "Petru Poni" Institute of Macromolecular Chemistry, Department of Inorganic Polymers, Iasi, Romania
PP1.35	Synthesis, crystal structure and characterization of cobalt(II) coordination polymer derived from a 1,2,3-triazole-based tricarboxylate ligand <u>Viorina Gorinchoy</u> , ¹ G. Roman, ² Sergiu Shova, ² N. Nedelko, ³ Vasile Lozan ¹ ¹ Moldova State University, Institute of Chemistry, Chișinău, Republic of Moldova; ² "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; ³ Institute of Physics PAS, Warszawa, Poland
PP1.36	Coordination copper(II) compounds based on ortho- and para-methoxyphenyl thiosemicarbazones 2-formyl pyridines as inhibitors of cancer cell proliferation <u>Aliona Pîntea</u> , ¹ Roman Rusnac, ¹ Olga Garbuz, ² Aurelian Gulea ¹ ¹ Moldova State University, Institute of Chemistry, Laboratory of "Advanced Materials in Biopharmaceutics and Technics" Chisinau, Republic of Moldova; ² Moldova State University, Institute of Zoology, Chisinau, Republic of Moldova

PP1.37	<p>Novel Aminonaphthochinone Mannich bases Derived from Lawsone induce Cell Death on Human Malignant Melanoma Cell Line A375 by Apoptosis and/or Necrosis</p> <p>Danil Feldman,¹ Elena Gorincioi,¹ Dmitri Bilan,¹ Nicoleta Elena Dina,² Maria Suciu,³ Andrea Simion,² Natalia Sucman,¹ Fliur Macaev¹</p> <p>¹Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ²National Institute for Research and Development of Isotopic and Molecular Technologies, Department of Isotopic and Molecular Technologies (TIM), Cluj-Napoca, Romania; ³National Institute for Research and Development of Isotopic and Molecular Technologies, Department of Isotopic and Molecular Technologies (TIM), Microbiology and Cell Biology Laboratory, Cluj-Napoca, Romania</p>
PP1.38	<p>Synthesis, characterization and biological activity of novel platinum(IV) complexes with fatty acids</p> <p>Melinda Gal, Luiza Găină, Emese Gal, Maria Lehene, Cezara Zăgărean-Tuza, Radu Silaghi-Dumitrescu, Evamarie Hey-Hawkins</p> <p>Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania</p>
PP1.39	<p>From platinum to ruthenium: New chemical and clinical frontiers in ovarian cancer treatment</p> <p>Adelina Maria Buțincu,^{1,3} Sonia Nicorici^{2,3}</p> <p>¹“Grigore T. Popa” University of Medicine and Pharmacy, Faculty of Medicine, Iași, Romania; ²“Grigore Ghica” National College, Chemistry Departament, Dorohoi, Romania; ³“Alexandru Ioan Cuza” University, Faculty of Chemistry, Iași Romania</p>
PP1.40	<p>Development and characterization of new platinum(IV) complexes with nicotinic acid: synthesis, structural insights, computational studies and electrochemical properties</p> <p>Bianca Vasile, Luiza Găină, Emese Gal, Maria Lehene, Cezara Zăgărean-Tuza, Adrian Nicoară, Radu Silaghi-Dumitrescu, Evamarie Hey-Hawkins</p> <p>Babes-Bolyai University, Research Center on Fundamental and Applied Heterochemistry, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania</p>
PP1.41	<p>Experimental research on testing the sensitivity of indicator tubes for the detection of chemical warfare agents</p> <p>Nicoleta Petrea,¹ Raluca Elena Ginghină,¹ Liliana Rece,¹ Rodica Lungu,¹ Alexandru Bobeș-Tureac,¹ Vasile Șomoghi,² Aurel Pop²</p> <p>¹Research and Innovation Center for CBRN Defense and Ecology (CCIACBRNE), Bucharest, Romania; ²STIMPEX SA, Bucharest, Romania</p>
PP1.42	<p>Design, synthesis, and characterization of novel pyrrole–terpenic hybrids</p> <p>Natalia Simionescu,¹ Ashraf Al-Matarneh,^{1,2} Ana Popușoi,³ Alina Nicolescu,⁴ Veaceslav Kulcițki,³ Cristina M. Al-Matarneh¹</p> <p>¹Center of Advanced Research in Bionanoconjugates and Biopolymers, “Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, Iasi, Romania; ²Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Iasi, Romania; ³Moldova State University, Institute of Chemistry, Chișinău, Republic of Moldova; ⁴“Petru Poni” Institute of Macromolecular Chemistry of Romanian Academy, NMR Laboratory, Iasi, Romania</p>
PP1.43	<p>Synthesis of copper(II) coordination compounds with sulfanilamides and thiosemicarbazone 2,4-dihydroxybenzaldehyde with antioxidative activity</p> <p>Maria Bîrcă, Olga Garbuz, Victor Țapcov, Aliona Cotovaia, Aurelian Gulea, Alexandra Ranetchi</p> <p>Moldova State University, Laboratory of Advanced Materials in Biofarmaceutics and Technics, Chișinău, Republic of Moldova</p>
PP1.44	<p>The biological relevance of Pt(IV) prodrugs with specific axial ligands</p> <p>Nicoleta Andrian,¹ Bianca Stoean,¹ Melinda-Eva Gal,¹ Balazs Brem,¹ Evamarie Hey-Hawkins,^{1,2} Radu Silaghi-Dumitrescu¹</p> <p>¹Babeș-Bolyai University, Department of Chemistry, Cluj-Napoca, Romania; ²Universität Leipzig, Institute of Bioanalytical Chemistry, Faculty of Chemistry and Mineralogy, BBZ, Leipzig, Germany</p>
PP1.45	<p>Antioxidant properties of coordination compounds of Cu(II) and Bi(III) with aminopolycarboxylate and 2-formylpyridine 4-phenylthiosemicarbazone ligands</p> <p>Elena Neguta,^{1,2} Olga Garbuz,³ Aurelian Gulea,¹ Ion Bulimestru¹</p> <p>¹Moldova State University, Faculty of Chemistry and Chemical Technology, Chisinau, Republic of Moldova; ²Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ³Moldova State University, Institute of Zoology, Chisinau, Republic of Moldova</p>
PP1.46	<p>Personal kit for immediate decontamination</p> <p>Vasile Șomoghi,¹ Marcel Istrate,¹ Cătălin Enescu,¹ Nicoleta Petrea,² Liliana Rece,² Alexandru Bobeș-Tureac¹</p> <p>¹STIMPEX SA, Bucharest, Romania; ²Research and Innovation Center for CBRN Defense and Ecology (CCIACBRNE), Bucharest, Romania</p>

PP1.47	<p>Copper(II) complex with a redox-noninnocent Schiff base: synthesis, structure and catalytic oxidation of cyclohexane</p> <p>Christopher Wittmann,¹ Oleg Palamarcu,^{2,3} Mihaela Dascalu,² Maria Cazacu,² Dmytro S. Nesterov,⁴ Armando J. L. Pombeiro,⁵ Peter Rapt,⁶ Vladimir B. Arion^{1,2}</p> <p>¹University of Vienna, Institute of Inorganic Chemistry, Vienna, Austria; ²"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania; ³Moldova State University, Chişinău, Republic of Moldova; ⁴Instituto Politécnico de Lisboa, Instituto Superior de Engenharia de Lisboa, Portugal; ⁵Universidade de Lisboa, Instituto Superior Técnico, Lisboa, Portugal; ⁶Slovak University of Technology in Bratislava, Bratislava, Slovak Republic</p>
PP1.48	<p>Reactivity of vitamin B₁₂ and related compounds with small molecules</p> <p>Maria Lehen, Cezara Zagrean-Tuza, Radu Silaghi-Dumitrescu</p> <p>Babeş-Bolyai University, Department of Chemistry, Cluj-Napoca, Romania</p>
PP1.49	<p>Spectroscopic evaluation of the interaction of Myoglobin with biomedically relevant compounds</p> <p>Alexandra Mânzat, Nicoleta Andrian, Cezara Zăgrean-Tuza, Radu Silaghi-Dumitrescu</p> <p>Babeş-Bolyai, University, Faculty of Chemistry and Chemical Engineering, Department of Chemistry, Cluj-Napoca, Romania</p>
PP1.50	<p>Preparation of cinchonine-carboxylic acid co-crystals through a charge-assisted hydrogen bonding assembly process</p> <p>Mihai Deleanu,¹ Sergiu Shova,² Alina Nicolescu,^{1,2} Florina Dumitru³</p> <p>¹"Costin D. Nenitescu" Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania; ²"Petru Poni" Institute of Macromolecular Chemistry, Romanian Academy, Iasi, Romania; ³National University of Science and Technology Politehnica Bucharest, Bucharest, Romania</p>
PP1.51	<p>Japanese pagoda tree (<i>Sophora japonica</i> L.) growing in Moldova as a source of bio-organic compounds</p> <p>Alexandru Ciocarlan,¹ Lidia Lungu,¹ Aculina Aricu,¹ Ion Dragalin,¹ Grigoras Carolina,² Gonta Maria,² Inga Zinicovscaia^{3,4}</p> <p>¹Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ²Moldova State University, Chisinau, Republic of Moldova; ³Joint Institute for Nuclear Research, Dubna, Russia; ⁴Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Bucharest, Romania</p>
PP1.52	<p>Characterization of some metal phthalocyanines using transient absorption spectroscopy</p> <p>Ionut Radu Tigoianu,¹ Anton Airinei,¹ Carmen Gherasim,¹ Mihaela Avadanei,¹ Mirela Fernanda Zaltariov,¹ Mykhailo Bondarchuk,² Alexander Tarnovsky,² Tamara Potlog,³ Giulio Cerullo,⁴ Edoardo Carraro⁴</p> <p>¹Petru Poni Institute of Macromolecular Chemistry, Physical Chemistry of Polymers Laboratory, Iasi, Romania; ²Bowling Green State University, Center for Photochemical Sciences and Department of Chemistry, USA; ³Moldova State University, Laboratory of Organic/Inorganic Materials for Optoelectronics, Chisinau, Republic of Moldova; ⁴Politecnico di Milano, Physics Department, Milano, Italy</p>
PP1.53	<p>Structural diversity of sclareol degradation products and their medicinal chemistry potential</p> <p>Marina Grinco,¹ Ana Popusoi,¹ Vladilena Gîrbu,¹ Cristina M. Al-Matarneh,² Veaceslav Kulcitki¹</p> <p>¹Moldova State University, Institute of Chemistry, Chişinău, Republic of Moldova; ²"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</p>
Medicine (C2)	
PP2.1	<p>The biochemical pathways that lead to illicit drugs-induced stroke</p> <p>Dan Croitoru,¹ Ecaterina Pavlovski,² Sergiu Vişnveschi,¹</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmaceuticals, Chair of anatomy and clinical anatomy, Chisinau, Republic of Moldova; ²Nicolae Testemitanu State University of Medicine and Pharmaceuticals, Chair of biochemistry and clinical biochemistry, Chisinau, Republic of Moldova</p>
PP2.2	<p>Curcuma longa extracts optimized for wound care: antioxidant, antimicrobial, antibiofilm, anti-inflammatory and selective cytotoxic activity</p> <p>Diana-Mădălina Găboreanu,^{1,2,3} Ioana Cristina Marinas,² Irina Elisabeta Geana,⁴ Coralia Bleotu,⁵ Alice-Ştefania Şerbănoiu,¹ Bogdan Ispas,^{1,2} Andreea-Maria Pindaru,^{1,2} Mariana Carmen Chifiriuc^{1,2}</p> <p>¹University of Bucharest, Faculty of Biology, Botany and Microbiology, Bucharest, Romania; ²Research Institute of the University of Bucharest-ICUB, Bucharest, Romania; ³National Institute of Research and Development for Biological Sciences, Bucharest, Romania; ⁴National Research and Development Institute for Cryogenics and Isotopic Technologies, Ramnicu Valcea, Romania; ⁵Stefan S. Nicolau Institute of Virology, Department of Cellular and Molecular Pathology, Bucharest, Romania</p>
PP2.3	<p>Biochemical interactions of the gut-brain-axis in the first 1000 days of child development</p> <p>Victoria Cepraga,¹ Livia Bogonovschi,¹ Olesea Grin,^{1,2} Diana Cojocari,¹ Svetlana Hadjiu,^{1,2} Ninel Revenco^{1,2}</p> <p>¹„Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Pediatrics, Chisinau, Republic of Moldova; ²Mother and Child Institute, Chisinau, Republic of Moldova</p>

PP2.4	<p>Immunogenetic associations in axial involvement of juvenile idiopathic arthritis: A meta-analysis</p> <p><u>Grin Olese</u>,^{1,2} Foca Silvia Gabriela,² Revenco Ninel^{1,2}</p> <p>¹"Nicolae Testemitanu" State University of Medicine and Pharmacy of the Republic of Moldova; ²Institute of Mother and Child, Chişinău, Republica Moldova</p>
PP2.5	<p>The choice of the optimal composition of hard capsules with Dioxindolinone</p> <p><u>Tatiana Stefanet</u>,^{1,2} Eugenia Stîngaci,³ Fliur Macaev,^{2,3} Vadimir Valica^{1,2}</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmacy, Department of Pharmaceutical Chemistry, Chişinău, Republic of Moldova; ²Nicolae Testemitanu State University of Medicine and Pharmacy, Drug Development Center, Chişinău, Republic of Moldova; ³Institute of Chemistry, Moldova State University, Organic Synthesis Laboratory, Chişinău, Republic of Moldova</p>
PP2.6	<p>Evaluation of complexometric titration and atomic absorption spectroscopy in the assay of magnesium aspartate</p> <p><u>Ecaterina Mazur</u>,^{1,2} Vladimir Valica,^{1,2} Tatiana Mitina,³ Sergiu Pării,¹ Livia Uncu^{1,2}</p> <p>¹Drug Development Center, ²Department of Pharmaceutical Chemistry and Toxicology within Nicolae Testemitanu State University of Medicine and Pharmacy, Chişinău, Republic of Moldova; ³Moldova State University, Institute of Chemistry, Water Chemistry (ILAS), Chişinău, Republic of Moldova</p>
PP2.7	<p>Characteristic features of diabetes in NMR spectra</p> <p><u>Natalia Pălarie</u>,¹ Felicia Darii,¹ Adriana Botezatu,¹ Chiril Boiciuc,² Alina Nicolescu,³ Olga Tagadiuc,¹ Calin Deleanu³</p> <p>¹"Nicolae Testemitanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ²Mother and Child Institute, Chisinau, Republic of Moldova; ³"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</p>
PP2.8	<p>Preliminary results from the PoliGeNReg project: A bicentric cross-border inventory of ADPKD cases in Romania and the Republic of Moldova</p> <p><u>Stela Racoviță</u>,^{1,2} Cristina Rusu,³ Ramona G. Babici,^{3,4} Bogdan D. Agavriiloaei,^{3,4} Gianina Dodi,³ Irina L. Mititiuc,^{3,4} Pavel Banov,¹ Dorian Sasu,¹ Emil Ceban,¹ Adrian C. Covic^{3,4}</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmacy, Chişinău, Republic of Moldova; ²Nicolae Testemitanu SUMP, Genetics Laboratory of the Center for Personalized Medicine, Chişinău, Republic of Moldova; ³Grigore T. Popa University of Medicine and Pharmacy Iasi, Romania; ⁴Dr. C.I. Parhon University Hospital, Nephrology Clinic, Dialysis and Renal Transplant Center, Iasi, Romania</p>
PP2.9	<p>The role of salivary interleukins in the prediction of caries risk in children</p> <p><u>Svetlana Plamadeală</u>,¹ Olga Tagadiuc,² Tudorița Frăsineanu,¹ Olese Mihailov,¹ Alina Bănărescu,¹ Aurelia Spinei¹</p> <p>¹Nicolae Testemitanu" State University of Medicine and Pharmacy, Department of pediatric oro-maxillofacial surgery and pedodontics "Ion Lupan", Faculty of Stomatology, Chisinau, Republic of Moldova; ²Nicolae Testemitanu" State University of Medicine and Pharmacy Department of Biochemistry and Clinical Biochemistry, Faculty of Medicine No.1, Chisinau, Republic of Moldova</p>
PP2.10	<p>Mother-child salivary <i>Streptococcus mutans</i> levels: A key marker for early diagnosis of severe early childhood caries</p> <p><u>Elena Hristea</u>,¹ Zinaida Marin,² Alexandrina Zgîrcu,² Carolina Melnic,² Diana Stoeva, Laura Dînga,² Aurelia Spinei¹</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmacy, Department of pediatric oral and maxillofacial surgery and pedodontics „Ion Lupan”, Faculty of Stomatology,; ²Nicolae Testemitanu State University of Medicine and Pharmacy Faculty of Stomatology</p>
PP2.11	<p>Natural biomaterials-based formulations: aspects regarding their biocompatibility</p> <p><u>Bianca-Iulia Ciubotaru</u>,^{1,2} Mirela-Fernanda Zaltariov,² Ianoş Coreţchi,³ Alsaliem Sulaiman,⁴ Ecaterina Pavlovschi⁵</p> <p>¹Grigore T. Popa University of Medicine and Pharmacy, Department of Biomedical Sciences/Faculty of Medical Bioengineering, Iaşi, România; ²Petru Poni Institute of Macromolecular Chemistry, Department of Inorganic Polymers, Iaşi, România; ³Nicolae Testemitanu State University of Medicine and Pharmacy, Department of Pharmacology and clinical pharmacology, Chisinau, Republic of Moldova; ⁴Nicolae Testemitanu State University of Medicine and Pharmacy, Center for Personalized Medicine, Laboratory of genetics, Chisinau, Republic of Moldova; ⁵Nicolae Testemitanu State University of Medicine and Pharmacy, Chair of Biochemistry and clinical biochemistry, Chisinau, Republic of Moldova</p>
PP2.12	<p>A new generation of antimicrobial agents based on multicomponent systems</p> <p><u>Nicoleta Vornicu</u>,^{1,2} Ianoş Coreţchi,³ Mirela-Fernanda Zaltariov,¹ Dragos Peptanariu,⁴ Bianca-Iulia Ciubotaru,^{1,5} Ionela Grecu,¹ Alina Beşliu,³ Andrei Chiaburu³, Teofana Bibire⁶</p> <p>¹"Petru Poni" Institute of Macromolecular Chemistry, Department of Inorganic Polymers, Iasi, Romania; ²Metropolitan Center of Research T.A.B.O.R, Iasi, Romania; ³"Nicolae Testemitanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ⁴"Petru Poni" Institute of Macromolecular Chemistry, Center of Advanced Research in Bionanoconjugates and Biopolymers, Iaşi, Romania; ⁵"Gr. T. Popa" University of Medicine and Pharmacy, Department of Biomedical Sciences/ Faculty of Medical Bioengineering, Iasi, Romania; ⁶"Gr. T. Popa" University of Medicine and Pharmacy, Iaşi, Romania</p>

PP2.13	<p>“OncoSensLip” - Optimization of process and formulation variables in the design of pH-sensitive liposomes for anticancer drug delivery</p> <p><u>Ciobanu Cristina</u>,¹ Brîndușa Drăgoi,^{2,3}</p> <p>¹“Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Drug Technology, Center for Drug Development, Chisinau, Republic of Moldova; ²Regional Institute of Oncology, Nanotechnology Laboratory, Iasi, Romania; ³„Alexandru Ioan Cuza” University of Iasi, Faculty of Chemistry, Iasi, Romania</p>
PP2.14	<p>Erythrocyte glucose-6-Phosphate dehydrogenase activity in bronchial asthma: effects of sulfated polysaccharides</p> <p><u>Olga Mihalciuc</u>,¹ Lilia Andronache,¹ Oxana Nicolaeva,¹ Olga Tagadiuc,² Valentin Gudumac¹</p> <p>¹“Nicolae Testemitanu” State University of Medicine and Pharmacy, Biochemistry Laboratory, Chisinau, Republic of Moldova; ²“Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Biochemistry and Clinical Biochemistry, Chisinau, Republic of Moldova</p>
PP2.15	<p>The impact of diabetes mellitus on pulmonary tuberculosis through the lens of inflammation marker exegesis</p> <p><u>Marina Reabiseva</u>,¹ Oxana Nicolaeva,¹ Lilia Andronache,¹ Olga Mihalciuc,¹ Anatolie Visnevschi²</p> <p>¹“Nicolae Testemitanu” State University of Medicine and Pharmacy, Biochemistry Laboratory, Chisinau, Republic of Moldova; ²“Nicolae Testemitanu” State University of Medicine and Pharmacy, Laboratory Medicine Chair, Chisinau, Republic of Moldova</p>
PP2.16	<p>The potential use of spirulina derived substances in periodontal tissue regeneration</p> <p><u>Dan Zagnat</u>, Dragoș Baciuc, Maria-Mihaela Vovc, Valeria Vasiliu, Gheorghe Bordeniuc, Valeriu Fala</p> <p>“Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Interdisciplinary Dentistry and Oral Rehabilitation, Chisinau, Republic of Moldova</p>
PP2.17	<p>The potential application of the rapid aMMP-8 test in population-based periodontal screening</p> <p><u>Dragoș Baciuc</u>, Dan Zagnat, Maria-Mihaela Vovc, Valeria Vasiliu, Gheorghe Bordeniuc, Valeriu Fala</p> <p>“Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Interdisciplinary Dentistry and Oral Rehabilitation, Chisinau, Republic of Moldova</p>
PP2.18	<p>Caries risk assessment using the saliva check mutans microbiological test</p> <p><u>Vovc Maria-Mihaela</u>, <u>Vasiliu Valeria</u>, Dan Zagnat, Baciuc Dragoș, Bordeniuc Gheorghe, Fala Valeriu</p> <p>“Nicolae Testemitanu” State University of Medicine and Pharmacy, Department of Interdisciplinary Dentistry and Oral Rehabilitation, Chisinau, Republic of Moldova</p>
PP2.19	<p>Aseptic prostatitis – Histopathological identification of the optimal experimental model</p> <p><u>Mariana Creciun</u>,¹ Constantin Tataru,¹ Vladimir Topciu,^{2,3} Dorin Gorohovschi,¹ Ianoș Corețchi,^{2,3} Valeriu David,⁴ Ion Dumbrăveanu,¹ Iurie Arian,¹ Mihaela Ivanov,¹</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmacy, Laboratory of urology, andrology and reproductive medicine, Chișinău, Republic of Moldova; ²Nicolae Testemitanu State University of Medicine and Pharmacy, Department of pharmacology and clinical pharmacology, Chișinău, Republic of Moldova; ³Nicolae Testemitanu State University of Medicine and Pharmacy, Center of molecular medicine, Laboratory of advanced biomedical technologies, Chișinău, Republic of Moldova; ⁴Nicolae Testemitanu State University of Medicine and Pharmacy, Laboratory of morphology, Chișinău, Republic of Moldova.</p>
PP2.20	<p>A strategic framework for a bi-national ADPKD electronic registry for Romania and the Republic of Moldova: an open-source, interoperable approach for European integration</p> <p><u>Dorian Sasu</u>,¹ Emil Ceban,¹ Stela Racovița,^{1,2} Gianina Dodi,³ Ramona G. Babici,³ Pavel Banov¹</p> <p>¹Nicolae Testemitanu State University of Medicine and Pharmacy, Chișinău, Republic of Moldova; ²Genetics Laboratory of the Center for Personalized Medicine, Nicolae Testemitanu USMF, Chișinău, Republic of Moldova; ³Grigore T. Popa University of Medicine and Pharmacy Iasi, Romania</p>
PP2.21	<p>Patterns of biochemical disturbances in patients with suspected mitochondrial disease</p> <p><u>Doina Secu</u>,¹ Natalia Ușurelu,¹ Alina Nicolescu,² Daniela Blăniță,¹ Chiril Boiciuc,¹ Iulia Coliban,¹ Elena Gladun,¹ Dan Cristian Ușurelu,¹ Călin Deleanu,² Sergiu Gladun,¹ Victoria Sacară¹</p> <p>¹Institute of Mother and Child, Chisinau, Republic of Moldova; ²“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania</p>
PP2.22	<p>Diagnosis of Galactosemia by NMR spectroscopy</p> <p><u>Daniela Blanita</u>,¹ Natalia Ușurelu,¹ Alina Nicolescu,² Iulia Coliban,¹ Doina Secu,¹ Chiril Boiciuc,¹ Elena Gladun,¹ Ecaterina Pavlovski,^{1,3} Sergiu Gladun¹, Calin Deleanu.²</p> <p>¹Institution of Mother and Child, Chisinau, Republic of Moldova; ²“Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania; ³“Nicolae Testemitanu” University of Medicine and Pharmacy, Chisinau, Republic of Moldova</p>

PP2.23	Genetic screening in symptomatic patients: Distinguishing spinal muscular atrophy from metabolic disorders <u>Julia Coliban</u> , ¹ Daniela Blăniță, ² Doina Secu, ¹ Elena Gladun, ² Dan-Cristian Ușurelu, ² Chiril Boiciuc, ¹ Sergiu Gladun, ¹ Călin Deleanu, ³ Alina Nicolescu, ³ Natalia Ușurelu, ² Victoria Săcară ¹ ¹ PMSI Mother and Child Institute, Human Molecular Genetics Laboratory, Chisinau, Republic of Moldova; ² PMSI Mother and Child Institute, Laboratory for Prophylaxis of Hereditary Pathologies, Chisinau, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
PP2.24	Diagnosis of congenital disorder of glycosylation (CDG) <u>Chiril Boiciuc</u> , ^{1,2} Daniela Blăniță, ¹ Julia Coliban, ¹ Doina Secu, ¹ Elena Gladun, ¹ Dan Cristian Ușurelu, ¹ Sergiu Gladun, ¹ Călin Deleanu, ³ Alina Nicolescu, ³ Natalia Ușurelu ¹ ¹ Institute of Mother and Child, Chisinau, Republic of Moldova; ² "Nicolae Testemițanu" University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania
PP2.25	"Metabolomic evaluation for specific biomarkers in Phenylketonuria" <u>Ușurelu Dan-Cristian</u> , ^{1,2} Chiril Boiciuc, ² Daniela Blăniță, ² Ecaterina Pavlovschi, ¹ Natalia Ușurelu, ² Alina Nicolescu, ³ Calin Deleanu ³ ¹ IMSP Institute of Mother and Child, Chișinău, Republic of Moldova; ² USMF "Nicolae Testemițanu", Department of Biochemistry and Clinical Biochemistry, Chișinău, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry of Romanian Academy, Iași, Romania
PP2.26	Implementation of primary HPV testing in cervical screening Diana Valuța, ¹ <u>Uliana Tabuica</u> , ^{1,2} Elena Gladun, ¹ Calin Deleanu, ³ Natalia Ușurelu, ¹ Sergiu Gladun ¹ ¹ IMSP Institute of Mother and Child, Chisinau, Republic of Moldova; ² State University of Medicine and Pharmacy, "Nicolae Testemițanu", Chisinau, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania
PP2.27	Endocrino-metabolical features in childhood obesity <u>D. Munteanu</u> , ^{1,2} Lorina Vudu, ² Natalia Ușurelu, ¹ Kiril Boiciuc, ^{1,2} Daniela Blăniță, ¹ Alina Nicolescu, ³ Calin Deleanu ³ ¹ IMSP Institute of Mother and Child, Chisinau, Republic of Moldova; ² "Nicolae Testemițanu" State University of Medicine and Pharmacy, Chisinau, Republic of Moldova; ³ "Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania
PP2.28	Interplay between the microbiome and metabolome in the gastric precancerous transformation <u>Adriana Botezatu</u> , ¹ Victoria Țurcan, ¹ Olga Tagadiuc, ¹ Alina Nicolescu, ² Nicolae Bodrug, ¹ Călin Deleanu ² ¹ "Nicolae Testemițanu" State University of Medicine and Pharmacy, Chișinău, Moldova; ² "Petru Poni" Institute of Macromolecular Chemistry, Iași, Romania
Materials (C3)	
PP3.1	Laser-fabricated bioactive thin films: a versatile platform for advanced biomedical coatings <u>Irina Negut</u> , ¹ Carmen Ristoscu, ¹ Liliana Cepoi ² ¹ National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania; ² Technical University of Moldova, Chisinau, Republic of Moldova
PP3.2	From precipitate to thin films: Unveiling the structure of polydopamine coatings by solid-state NMR <u>Andrea Simion</u> , ^{1,2} Xenia Filip, ¹ Ioana G. Grosu, ¹ Ana M. R. Gherman, ¹ Claudia Lar, ¹ Claudiu Filip ¹ ¹ National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania; ² Faculty of Physics, Babes Bolyai University, Cluj-Napoca, Romania
PP3.3	Effects of incorporating a 3D coordination polymer with siloxane fragments on the properties of silicone <u>Alexandru-Constantin Stoica</u> , Mihaela Dascalu, Maria Cazacu Department of Inorganic Polymers, "Petru Poni" Institute of Macromolecular Chemistry Iasi, Romania
PP3.4	Hybrid cellulose nanofiber–PVTMS aerogels: ultralight, porous, and floatable materials <u>Andreea L. Chibac-Scutaru</u> , Gabriela Biliuta, Raluca I. Baron, Madalina E. Bistriceanu, Violeta Melinte, S. Coseri Petru Poni Institute of Macromolecular Chemistry, Polyaddition and Photochemistry Department, Iasi, Romania
PP3.5	Carbonaceous composites from plant materials: production and characterization <u>Irina Ceban</u> , ¹ Raisa Nastas, ¹ Oleg Petuhov, ¹ Nina Boldurescu, ¹ Serghei Moldovanu, ² Tudor Lupascu ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² Moldova State University, Institute of Applied Physics, Chisinau, Republic of Moldova

PP3.6	Obtaining activated carbon by chemical method by utilizing local waste <u>Irina Ceban</u> , Oleg Petuhov, Mihaela Buga, Eugenia Moraru <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>
PP3.7	Synthesis, crystal structure, and intermolecular interactions evaluation via Hirshfeld surface analysis of a copper(II) complex with 3-pyridine aldoxime <u>Elena Melnic</u> , ¹ Nicoleta Craciun, ¹ Diana Chisca, ² Marina S. Fonari ¹ ¹ <i>Moldova State University, Institute of Applied Physics, Chişinău, Moldova</i> ; ² <i>Ion Creangă State Pedagogical University of Chişinău, Faculty of Biology and Chemistry, Chişinău, Moldova</i>
PP3.8	Two Eu(III) compounds with biologically relevant triimidazo[1,2-a:1',2'-c:1'',5''-e][1,3,5]triazine luminophore <u>Anastasia Gorobet</u> , ¹ Victor Ch. Kravtsov, ¹ Marina S. Fonari, ¹ Elena Lucenti, ² Daniele Malpicci ³ ¹ <i>Moldova State University, Institute of Applied Physics Chisinau, R. of Moldova</i> ; ² <i>Institute of Chemical Sciences and Technologies "Giulio Natta" (SCITEC) of CNR, Milano, Italy</i> ; ³ <i>Department of Chemistry, Università degli Studi di Milano, Milano, Italy</i>
PP3.9	Structural diversity of Co(II, III) compounds assembled from pivalate and hexamethylenetetramine ligands <u>Ecaterina Beleaeu</u> , Victor Ch. Kravtsov, Svetlana G. Baca <i>Institute of Applied Physics, Moldova State University, Chisinau, Republic of Moldova</i>
PP3.10	The influence of selenium oxide, cerium oxide and molybdenum oxide on some properties of apatite-wollastonite glass ceramics <u>Andrei Cioineag</u> , ¹ <u>Stefania Stoleriu</u> , ² ¹ <i>National University of Science and Technology POLITEHNICA Bucharest, Faculty of Medical Engineering, Bucharest, Romania</i> ; ² <i>National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, Bucharest, Romania</i>
PP3.11	Compatibility assessment and characterization of non-hydraulic binder mortars in heritage church structures <u>Cristina Orbeci</u> , Margareta Elena Nica (Morogan), Liliana Bobirică, Constantin Bobirică, Giovanina-Iuliana Ionică <i>National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, Department of Analytical Chemistry and Environment Engineering, Bucharest, Romania</i>
PP3.12	Antimicrobial chitosan-based cross-linked networks with re-mendable thermoresponsive properties <u>Oana Ursache</u> , Constantin Gaina, Maria Valentina Dinu <i>"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</i>
<i>Ecological Chemistry and Environmental Protection (C4)</i>	
PP4.1	Hydrogen peroxide-induced photolysis of vitamin B₉ in aquatic systems <u>Angela Lis</u> , Viorica Gladchi, Elena Bunduchi, Vladislav Blonschi <i>Moldova State University, Faculty of Chemistry and Chemical Technology, Chisinau, Republic of Moldova</i>
PP4.2	Eco-efficiency of caffeine production methods <u>Elena Bunduchi</u> , Valentin Bobeica <i>Moldova State University, Faculty of Chemistry and Chemical Technology, Chisinau, Republic of Moldova</i>
PP4.3	Determination of humic substances content in the wastewater of the treatment facilities of Cricova, Republic of Moldova <u>Diana Shepel</u> , Alexandru Vişnevschi, Petru Spătaru <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>
PP4.4	Biogas from vegetal wastes - experimental study at laboratory scale <u>Dumitru Auras Marius</u> , ¹ Banu Ionuţ, ² Isopencu Gabriela Olimpia, ² Lavric Vasile ² ¹ <i>POLITEHNICA Bucharest, Doctoral School "Chemical Engineering and Biotechnologies", Bucharest, Romania</i> ; ² <i>National University of Science and Technology POLITEHNICA Bucharest; Faculty of Chemical Engineering and Biotechnologies; Bucharest, Romania</i>
PP4.5	Synthesis of TiO₂-coated fiberglass material for degradation of pharmaceutical contaminants from wastewater <u>Giovanina-Iuliana Ionică</u> , Liliana Bobirică, Cristina Orbeci, Constantin Bobirică <i>National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, Department of Analytical Chemistry and Environmental Engineering, Bucharest, Romania</i>
PP4.6	Modified carbonaceous adsorbents for removal of sulphide and nitrite ions from water <u>Raisa Nastas</u> , Irina Ceban, Tatiana Goreacioc, Tudor Lupascu <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>
PP4.7	Testing of carbonaceous composites obtained by the hydrothermal method for the removal of nitrite ions from water <u>Irina Ceban</u> , Raisa Nastas <i>Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova</i>

PP4.8	The remediation of high contaminated soil by POPs using biotechnology approach. <u>Bogdevici Oleg,¹ Rastimesina Inna,² Postolachi Olga,² Culighin Elena,¹ Nicolau Elena,¹ Grigoras Marina¹</u> ¹ Moldova State University, Institute of Chemistry Chisinau, Republic of Moldova; ² Technical University of Moldova, Institute of Microbiology and Biotechnology, Chisinau, Republic of Moldova
PP4.9	Chemical composition and pollution level of the Dniester River in the section town of Dubăsari – town of Vadul lui Vodă. Period 2020-2024 <u>Viorica Gladchi,¹ Vladislav Blonschi,¹ Angela Lis,¹ Elena Bunduchi,¹ Gheorghe Duca²</u> ¹ Moldova State University, Faculty of Chemistry and Chemical Technology, Chişinău, Republic of Moldova; ² Moldova State University, Institute of Chemistry, Chişinău, Republic of Moldova
PP4.10	Radon under observation: an example of participatory involvement in monitoring and remediation <u>Raluca Ciur, Tiberius Dicu</u> UNIVERSITATEA „BABEŞ - BOIYAI” CLUJ – NAPOCA, Facultatea de Ştiinţa şi Ingineria Mediului
Biotechnology, Food and Plant Sciences (C5)	
PP5.1	Affordable and rapid ELISA methods for determining allergens in food products <u>Veronica Dragancea,¹ Tatiana Trili,² Angela Gurev¹</u> ¹ Technical University of Moldova, Department of Oenology and Chemistry, Chişinău, Republic of Moldova; ² IMUNOTEHNOMED, Department Food & Feed Diagnostic Chişinău, Republic of Moldova
PP5.2	Microencapsulation of Jostaberry extract in combined biopolymer carrier agents <u>Angela Gurev, Viorica Bulgaru, Aliona Ghendov-Mosan</u> Technical University of Moldova, Chisinau, Republic of Moldova
PP5.3	Antioxidant activity assessed through simulated <i>in vitro</i> digestion of high-protein raw materials <u>Iana Ciugureanu, Angela Gurev, Viorica Bulgaru, Aliona Ghendov-Moşanu</u> Technical University of Moldova, Department of Food Technology, Faculty of Food Technology, Chişinău, Republic of Moldova
PP5.4	The influence of long-term aging on the quality parameters of red wines stored in the Mileşti Mici underground cellar <u>Alexandra Arseni, Larisa Necula, Elena Balanuţă</u> Technical University of Moldova, Chisinau, Republic of Moldova
PP5.5	Characterization of phenolic compounds and chromatic properties of local red wines <u>Alexandra Arseni, Nadejda Botezatu, Georgeta Moga</u> Technical University of Moldova, Chisinau, Republic of Moldova
PP5.6	Quality of confectionery products using jostaberry extract as a natural colorant <u>Olga Smerea, Viorica Bulgaru, Olga Boeştean, Aliona Ghendov-Moşanu</u> Technical University of Moldova, Department of Food Technology, Faculty of Food Technology, Chisinau, Republic of Moldova
PP5.7	Non-dairy probiotic drinks based on local raw materials <u>Silvia Rubţov,¹ Alexandra Arseni,¹ Georgeta Moga,¹ Ana-Maria Georgescu,² Diana Carmen Mirilă,² Sturza Rodica,¹ Nistor Ileana Denisa²</u> ¹ Technical University of Moldova, Faculty of Food Technology, Chisinau, Republic of Moldova; ² ”Vasile Alecsandri” University of Bacău, Faculty of Engineering, Bacău, Romania
PP5.8	The susceptibility of orange wines to oxidation <u>Aliona Sclifos, Iurie Scutaru, Maria Kurteva</u> Technical University of Moldova, Chişinău, Republic of Moldova
PP5.9	Application of a new herbal drug based on fennel seed extract for the treatment of dental diseases <u>Diana Shepel</u> Moldova State University, Institute of Chemistry, Chishinau, Republic of Moldova
PP5.10	Application of thin layer chromatography for the analysis of sclareol in clary sage concrete <u>Diana Shepel</u> Moldova State University, Institute of Chemistry, Chishinau, Republic of Moldova
PP5.11	Protective role of carotenoid-rich berry extracts against lipid oxidation in sunflower oil <u>Aliona Ghendov-Mosan,¹ Adela Pinte, ² Rodica Sturza,¹</u> ¹ Technical University of Moldova, Faculty of Food Technology, Chişinău, Republic of Moldova; ² University of Agricultural Sciences and Veterinary Medicine, Faculty of Veterinary Medicine, Cluj-Napoca, Romania
PP5.12	Optimized extraction of water-soluble bioactives from sea buckthorn pomace using green techniques <u>Irina Dianu, Tatiana Cuşmenco, Iuliana Sandu, Natalia Netreba</u> Technical University of Moldova, Department of Food Technology, Chisinau, Republic of Moldova

PP5.13	Sensory improvement of low-fat cheesecake using β-glucans from Merlot wine yeast <u>Alina Boiștean</u> , Aurica Chirsanova, Ana Chioru <i>Technical University of Moldova, Department of Food and Nutrition, Faculty of Food Technology, Chisinau, Republic of Moldova</i>
PP5.14	Extraction of liposoluble bioactive compounds from sea buckthorn pomace: optimization and antioxidant evaluation <u>Irina Dianu</u> , Artur Macari, Alexei Baerle <i>Technical University of Moldova, Department of Food Technology, Chisinau, Republic of Moldova</i>
PP5.15	Phytochemical characterization and functional development of an antioxidant digestive shot based on <i>Salvia officinalis</i> L. <u>Tatiana Capcanari</u> , Eugenia Covaliov, Violina Popovici, Oxana Radu <i>Technical University of Moldova, Food and Nutrition Department, Chisinau, Republic of Moldova</i>
PP5.16	Development and evaluation of wheat flour substitutes with hemp (<i>Cannabis sativa</i> L.) cake and inflorescence in functional noodles <u>Tatiana Capcanari</u> , Eugenia Covaliov, Violina Popovici, Cătălina Negoita, Alexandrina Cojocari <i>Technical University of Moldova, Food and Nutrition Department, Chisinau, Republic of Moldova</i>
PP5.17	Investigation of the immunostimulatory potential of novel triazole-based preparative forms on tomato seeds under <i>Fusarium spp.</i>-infected soil conditions <u>Sucman Natalia</u> , ¹ Grajdieru Cristina, ² Pogrebnoi Vsevolod, ¹ Cojocari Sergiu, ¹ Cazacu Lilia ¹ ¹ Moldova State University, Institute of Chemistry, Chisinau, Republic of Moldova; ² Moldova State University, Institute of Genetics, Physiology and Plant Protection, Chisinau, Republic of Moldova
PP5.18	Valorization of unfermented red grape pomace: <i>Cabernet Sauvignon</i> and <i>Rara Neagră</i> in the context of circular economy <u>Nadejda Botezatu</u> , Alexandra Arseni, Ecaterina Covaci <i>Technical University of Moldova, Department of Enology and Chemistry, Faculty of Food Science, Chisinau, Republic of Moldova</i>
PP5.19	Alfalfa protein concentrate - functional ingredient for the food industry <u>Angela Gurev</u> , <u>Iana Ciugureanu</u> , Viorica Bulgaru, Aliona Ghendov-Mosanu <i>Technical University of Moldova, Faculty of Food Technology, Chişinău, Republic of Moldova</i>
PP5.20	Butyric fraction of dairies as determined from ¹³C-NMR data <u>Mihaela Tociu</u> , ¹ Carmen-Nicoleta Nechita, ¹ Nicoleta-Aurelia Chira, ¹ Aurelia Bratu, ¹ Cristina Elena Stavarache, ^{2,3} Mihaela-Liliana Mihalache ¹ ¹ National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, “Costin D. Nenitescu” Department of Organic Chemistry, Bucharest, Romania; ² National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, Advanced Polymer Materials Group, Bucharest, Romania; ³ “Costin D. Nenitescu” Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
PP5.21	Spectral characterization of the volatile fatty acids in dairy products: ¹H-, ¹³C- and 2D experiments <u>Aurelia Bratu</u> , ¹ Nicoleta-Aurelia Chira, ¹ Mihaela Tociu, ¹ Cristina Elena Stavarache, ^{2,3} Mihaela-Liliana Mihalache ¹ ¹ National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, “Costin D. Nenitescu” Department of Organic Chemistry, Bucharest, Romania; ² National University of Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnology, Advanced Polymer Materials Group, Bucharest, Romania; ³ “Costin D. Nenitescu” Institute of Organic and Supramolecular Chemistry, Bucharest, Romania
PP5.22	Influence of rice type and boiling duration on glycemic index: implications for glycemic control and personalized dietary recommendations <u>Anna Vîrlan</u> , <u>Dinu Turcanu</u> , <u>Rodica Siminiuc</u> <i>Technical University of Moldova, Faculty of Food Technology, Food and Nutrition Department, Chişinău, Republic of Moldova</i>
PP5.23	Spectral fingerprint of traditional Romanian dry cured salami – case study of <i>Poiana Marului</i> Salami <u>Cristina Todaşcă</u> , ¹ Ioana Penciu, ¹ Mihaela Tociu, ¹ Fulvia Manolache, ² Ileana Rău ¹ ¹ National University of Science and Technology POLITEHNICA Bucharest/ Faculty of Chemical Engineering and Biotechnology, Bucharest, Romania; ² National Research & Development Institute for Food Bioresources – IBA, Bucharest, Romania
PP5.24	The effect of a Seaweed-based biostimulant on vitamin synthesis in <i>Momordica Charantia</i> <u>Stefanica Ostaci</u> , Cristina Slabu, Alina Elena Marta, Mihaela Covaşă, Carmenica Doina Jităreanu <i>Department of Plant Science, Iasi University of Life Sciences, 700490 Iasi, Romania</i>
PP5.25	Biotechnological production of ethanol from vegetable waste <u>Vladislav Blonschi</u> , Nicoleta Munteanu <i>Moldova State University, The Faculty of Chemistry and Chemical Technology, Chisinau, Republic of Moldova</i>

PP5.26	Exploring consumer preferences of plant-based alternatives: Insights from a Moldavian study <u>Cristina Popovici</u> , ¹ Jasmina Lukinac, ² Marko Jukić ² ¹ Technical University of Moldova, Faculty of Food Technology, Department of Food and Nutrition, Chisinau, Republic of Moldova; ² Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology, Osijek, Croatia
PP5.27	Walnut agricultural waste to value added bioactive compounds <u>Cristina Popovici</u> , ¹ Jasmina Lukinac, ² Marko Jukić ² ¹ Technical University of Moldova, Faculty of Food Technology, Department of Food and Nutrition, Chisinau, Republic of Moldova; ² Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology, Osijek, Croatia
PP5.28	Biological protection of plants in strengthening the "One Health" concept <u>Leonid Volosciuc</u> Moldova State University, Institute of Genetics, Physiology and Plant Protection, Chisinau, Republic of Moldova
PP5.29	Productive potential of <i>Saccharomyces</i> yeasts and antifungal properties of their exopolysaccharides Natalia Chiselița, Oleg Chiselița, Nadejda Efremova, <u>Pavel Magaz</u> , Ana Rozlovan, Evelina Țîbîrnac, Elena Tofan Technical University of Moldova, Institute of Microbiology and Biotechnology, Chisinau, Republic of Moldova
PP5.30	Technological and functional potential of cereal and legume flours for the formulation of fermented food prototypes <u>Eugenia Covaliov</u> , Violina Popovici, Tatiana Capcanari, Oxana Radu, Catalina Negoita Technical University of Moldova, Chisinau, Republic of Moldova
PP5.31	Stability and functionality of liposomes as carriers of polyphenols in foods <u>Violina Popovici</u> , Rodica Sturza, Raisa Druta, Iurie Subotin Technical University of Moldova, Food and Nutrition Department, Faculty of Food Technology, Chisinau, Moldova
PP5.32	Fortification strategies of food products using carotenoid-loaded liposomes <u>Violina Popovici</u> , Eugenia Covaliov, Tatiana Capcanari, Alexandrina Cojocari, Oxana Radu Technical University of Moldova, Food and Nutrition Department, Faculty of Food Technology, Chisinau, Moldova
PP5.33	Residual yeasts from winemaking: A valuable source of biologically active substances with multifunctional properties <u>Aurica Chirsanova</u> , Alina Boiștean, Ana Chioru Technical University of Moldova, Department of Food and Nutrition, Faculty of Food Technology, Chisinau, Republic of Moldova
PP5.34	Microbial strains with antifungal properties Tamara Sîrbu, <u>Maxim Bîrsa</u> , Cristina Moldovan, Svetlana Burțeva Technical University of Moldova, Institute of Microbiology and Biotechnology, Chisinau, Republic of Moldova
PP5.35	Oleogels in the food industry: innovative solutions for healthy nutrition and sustainable development <u>Natalia Netreba</u> , ¹ Iana Ciugureanu, ¹ Mircea Adrian Oroian, ² Sorina Ropciuc, ² Viorica Bulgaru ¹ ¹ Technical University of Moldova, Chisinau, Republic of Moldova; ² University Stefan cel Mare, Suceava, Romania
PP5.36	Horseradish leaves – a new promising source for obtaining kaempferol Igor Casian, ¹ <u>Ana Casian</u> , ¹ Mirela-Fernanda Zaltariov, ² Mihaela Bălan-Porcărașu, ³ Dragoș Peptanariu, ⁴ Ianoș Corețchi ⁵ ¹ "Nicolae Testemitanu" State University of Medicine and Pharmacy, Centre for Drug Development, Chisinau, Republic of Moldova; ² "Petru Poni" Institute of Macromolecular Chemistry, Department of Inorganic Polymers, Iași, Romania; ³ "Petru Poni" Institute of Macromolecular Chemistry, Department of Polycondensation and Thermostable Polymers, Iași, Romania; ⁴ "Petru Poni" Institute of Macromolecular Chemistry, Center of Advanced Research in Bionanoconjugates and Biopolymers, Iași, Romania; ⁵ "Nicolae Testemitanu" State University of Medicine and Pharmacy, Department of Pharmacology and clinical pharmacology, Chisinau, Republic of Moldova
PP5.37	HPLC-MS analysis of phenolic compounds in <i>Solidago</i> species from the flora of the Republic of Moldova <u>Cornelia Fursenco</u> , ¹ Floricuta Ranga, ² Doina Clapa, ² Tatiana Calalb, ¹ Livia Uncu ¹ ¹ Nicolae Testemitanu State University of Medicine and Pharmacy, Faculty of Pharmacy, Scientific Centre for Drug Research, Chisinau, Republic of Moldova; ² University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, Life Science Institute "Regele Mihai I al României", Cluj-Napoca, Romania

PP5.38	<p>Comprehensive monitoring of pesticide residues in Romanian fresh products <u>Diana Ionela Popescu (Stegarus)</u>,¹ Violeta-Carolina Niculescu,¹ Corina Mihaela Oprita (Cioara),² Marius Miricioiu,¹ Roxana Elena Ionete¹ ¹National Research and Development Institute for Cryogenic and Isotopic Technologies-ICSI Ramnicu Valcea, Ramnicu Valcea, Romania; ²Ovidius University Constanta, Doctoral School of Applied Sciences, Constanta, Romania</p>
PP5.39	<p>Chemistry in service of nutrition: multi-marker profiling of raspberries for safe and functional food development Oana Botoran,¹ <u>Roxana Elena Ionete</u>,¹ Diana Costinel,¹ Claudia Șandru,¹ Irina Geană,¹ Corina Ciucure,¹ Andreea Iordache,¹ Nadia Păun,¹ Mirabela-Augustina Pruteanu,² Emilia-Cornelia Dunca,³ Gabriela-Elena Bahrin⁴ ¹National Research and Development Institute for Cryogenic and Isotopic Technologies – ICSI Rm. Valcea, ICSI Analytics Department, Râmnicu Vâlcea, Romania; ²National Research Development Institute for Machines and Installations Designed to Agriculture and Food Industry, Bucharest, Romania; ³University of Petrosani, Faculty of Mining, University, Petrosani, Romania; ⁴Dunarea de Jos University of Galati, Faculty of Food Science and Engineering, Galati, Romania</p>
PP5.40	<p>Extended reproducibility assessment for metabolomics experiments <u>Cătălin Duduianu</u>,^{1,2,3} Gabriela Liliana Ailiesei,³ Mihaela Balan-Porcărașu,³ Ana-Maria Macsim,³ Mihaela Cristea,³ Mara Isvoranu,² Daniela Blăniță,⁴ Doina Secu,⁴ Iulia Coliban,⁴ Elena Gladun,⁴ Dan Cristian Ușurelu,⁴ Adriana Botezatu,⁵ Natalia Pălărie,⁵ Felicia Darii,⁵ Chiril Boiciuc,^{4,5} Vladilena Gîrbu,⁶ Adina Organ,⁶ Alexandr Dorif,^{4,6} Ecaterina Pavlovschi,^{4,5} Sergiu Gladun,⁴ Veaceslav Kulcițki,⁶ Olga Tagadiuc,⁵ Natalia Ușurelu,⁴ Alina Nicolescu,^{2,3} Calin Deleanu^{2,3} ¹National University for Science and Technology POLITEHNICA Bucharest, Faculty of Chemical Engineering and Biotechnologies, Bucharest, Romania; ²“Costin D. Nenitescu” Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania; ³“Petru Poni” Institute of Macromolecular Chemistry, Romanian Academy, Iași, Romania; ⁴Institution of Mother and Child, Chisinau, Republic of Moldova; ⁵“Nicolae Testemitanu” University of Medicine and Pharmacy, Chisinau, Moldova; ⁶Moldova State University, Institute of Chemistry, Republic of Moldova.</p>
PP5.41	<p>Study of high protein biological matrices by NMR spectroscopy Alina Nicolescu,^{1,2} Mihaela Balan-Porcărașu,² <u>Mihaela Cristea</u>,² Adina-Mirela Ariton,³ Silviu-Ionuț Borș,³ Calin Deleanu^{1,2} ¹ “Costin D. Nenitescu” Institute of Organic and Supramolecular Chemistry, Romanian Academy, Bucharest, Romania; ² “Petru Poni” Institute of Macromolecular Chemistry, Romanian Academy, Aleea Grigore Ghica Vodă, Iași, Romania; ³ Research and Development Station for Cattle Breeding Dancu, Iasi, Romania</p>