



## **The 9<sup>th</sup> Universal Scientific Education and Research Network Congress (USERN 2024)**

**Plovdiv, BULGARIA  
8-10 November 2024**

**Venue:  
Medical University of Plovdiv,  
Auditorium complex, 15 A Vassil Aprilov blvd. 4000**

*Organized by Universal Scientific Education and Research Network (USERN)  
and the Medical University of Plovdiv, Bulgaria*

**“Bringing Science to Life”**

The stage is set for the 9<sup>th</sup> USERN Congress 2024. The program includes keynote lectures, workshops, meet-the-expert sessions, Prize Festival, Closing Ceremony and Awarding Festival of the International Festival of Paintings for Pediatric Patients (IFPPP), as well as oral presentation and poster presentation sessions.

# SCIENTIFIC PROGRAM

## NOV 8<sup>TH</sup> (FRIDAY) AFTERNOON

**14:00-15:00 Auditorium I (floor 1, Auditorium complex of MU-Plovdiv)**

**Opening session, Welcome Messages (30 min)**

– Rector of Medical University of Plovdiv – Angel Uchikov

– President of USERN – Tommaso Dorigo

– Founder of USERN – Nima Rezaei

***Chairs:* Mariya Tokmakova, Marianna Murdjeva**

**Keynote Lecture 1**– Timothy Lyons, US (30 min)

Advances in Astrobiology: How Earth's early oceans and atmosphere help guide the search for life beyond our solar system

**15:00-16:00 Auditorium I (floor 1, Auditorium complex of MU-Plovdiv)**

**IFPPP Festival presentation** – Nima Rezaei (60 min)

**16:00-16:30 Coffee Break**- 30 min

Coffee Area (floor 1, lounge)

**16:30-18:00 Auditorium I (Auditorium complex of MU-Plovdiv)**

**Keynote Lecture 2**– Frank Sellke, USA (30 min)

What can we do when there are no interventional options for the treatment of cardiovascular disease: Are regenerative therapies an option?

**Oral presentation session 1 – Update in Psychoneurological Sciences (60 min)**

***Chairs:* Nima Rezaei, Mariya Ivanovska**

***Juries:* Frank Sellke, Maria Maisano, Tiziana Cappello, Gonzalo Cordova, Jessica Vargas Gallarce, Andrea Luppi, Dragana Ciric**

**16:30-18:00 Department of Medical Microbiology and Clinical Immunology, Hall 3**

**Workshop 1. Art agar with microbial world** (drawing with bacteria and fungi on agar plates)

***Mentors:* Radoslav Tashev, Zoya Rachkovska, Michael Petrov**

***Chair:* Marianna Murdjeva**

**16:30-18:00 Roundtable (floor 2, Auditorium V, Auditorium complex of MU-Plovdiv)**

**Workshop 2. AI-assisted design and its impact on society**

***Speakers:* Tilman Plehn, Germany; Lara Lloret Iglesias**

***Chairs:* Tommaso Dorigo, Italy; Pietro Vischia, Spain**

**16:30-18:00 Exhibition Area (floor 1, Auditorium complex of MU-Plovdiv)**

**Poster presentation session 1– In vitro and Animal Studies in Pharmaceutical Sciences (90 min)**

***Chairs:*** Alexander Leemans, Hassan Burnusuzov

***Juries:*** Timothy Lyons, Ute Romling, Dongliang Chao, Ewa Szumowska, Fabiana Corsi-Zuelli

**18:30-21:00 Virtual Session 1 (Zoom platform)**

**Virtual Lectures on Physical and Chemical Sciences**

*Kotohiro Nomura, Japan*

Chemical Recycling and Upcycling of Polyesters by Catalysis

*Chua KJ Ernest, Singapore*

Breakthrough Processes: Innovations in Thermal Cooling and Dehumidification

*Elisabetta Comini, Italy*

Sustainability and Metal Oxide Materials: Challenges and Capabilities

*James J. Collins, USA*

Deep Learning for Antibiotic Discovery

*Brian Cantor, UK*

Nanostructures in Multicomponent High-Entropy Cantor Alloys

*Alberto Ruiz, Spain*

From Accelerator Physics to Medical Therapy

*Artem Oganov, Russia*

Predicting and Rationalizing New Materials and New Phenomena

## **NOV 9<sup>TH</sup> (SATURDAY) MORNING**

### **9:00-10:30 Auditorium I**

**Keynote Lecture 3**– Nima Rezaei, Iran (20 min)

Approach to patients with inborn errors of immunity: From bench to bedside

**Keynote Lecture 4**– Hassan Abolhassani, Sweden (20 min)

Inborn errors of immunity reveal the molecular requirements for the generation and maintenance of human Th subsets

**Oral presentation session 2 – Stem Cell, Tissue Engineering, and Novel Therapeutic Targets (50 min)**

*Chairs: Marianna Murdjeva, Ute Romling*

*Juries: Nima Rezaei, Dongliang Chao, Gonzalo Cordova, Jessica Vargas Gallarce, Hassan Abolhassani*

### **9:00-10:30 Simulation Training Center of MU-Plovdiv (floor 3)**

**Workshop 3.** Simulation medical training – virtual experience

<https://mu-plovdiv.bg/en/about-us/centres/simulation-centre/simulators/>

*Chair: Milena Sandeva*

### **9:00-10:30 Roundtable (floor 2, Auditorium V, Auditorium complex of MU-Plovdiv)**

**Meet the Expert 1.** How to Prepare Applied Research Scientific Project aimed at innovation or intellectual property for Funding?

*Radmilla Fileva, Project Consultant MU-Plovdiv, Expert and Jury Member in the European Innovation Accelerator in EC*

*Drew O’Sullivan, Guest – Expert, Deep Tech Venture Capital Investor, an Angel Investor (Supported by the Strategic Innovation Program of Medical University - Plovdiv)*

**Meet the Expert 2.** Challenges in Medical Imaging

*Alexander Leemans, Associate Professor, UMC Utrecht, The Netherlands*

### **9:00-10:30 Exhibition Area (lounge, floor 1, Auditorium complex of MU-Plovdiv)**

**Poster presentation session 2– Translational Biological and Medical Reviews (90 min)**

*Chairs: Joseph Firth, Ralitsa Raycheva*

*Juries: Andrea Luppi, Fabiana Corsi-Zuelli, Ewa Szumowska, Maria Maisano, Tiziana Cappello, Dragana Ciric*

### **10:30-11:00 Coffee Area (lounge, floor 1, Auditorium complex)**

Coffee Break

**11:00-12:30 Auditorium I**

**Keynote lecture 5**– Elissaveta Naumova, Bulgaria (20 min)

Primary Immunodeficiency in Bulgaria - challenges in assigning the correct diagnosis

**Keynote Lecture 6**– Snezhina Kandilarova, Bulgaria (20 min)

Experience in treatment of Primary immune deficiencies in Bulgaria

**Oral presentation session 3. Immune deficiencies and translational science – present state and future perspectives (joint session with the Bulgarian association of clinical immunology and J project) (50 min)**

**Chairs:** Nima Rezaei, Margarita Genova

**Juries:** Marianna Murdjeva, Elissaveta Naumova, Snezhina Kandilarova, Ute Romling, Hassan Abolhassani, Fabiana Corsi-Zuelli

**11:00-12:30 Auditorium IV**

**Keynote Lecture 7**– Alexander Leemans, the Netherlands (30 min)

Charting the brain's network with magnets and the diffusion of water molecules

**Oral presentation session 4 – Future of Artificial Intelligence (60 min)**

**Chairs:** Pietro Vischia, Joseph Firth

**Juries:** Alexander Leemans, Timothy Lyons, Maria Maisano, Andrea Luppi, Ewa Szumowska

**11:00-12:30 Hall 3 (Department of Microbiology and Immunology)**

**Workshop 4.** mPCR in detection of infectious syndromes

*(Supported by the Strategic Innovation Program of Medical University - Plovdiv)*

**Mentors:** Eli Hristozova, Andreana Angelova (Dept. Medical Microbiology and Immunology)

**Chair:** Michael Petrov

**11:00-12:30 Roundtable (floor 2, Auditorium V, Auditorium complex of MU-Plovdiv)**

**Meet the Expert 3.** How AI could affect the future of research worldwide?

*Tommaso Dorigo, USERN President, Italy*

**Meet the Expert 4.** Targeted and immunotherapy in pediatric oncology - who, when, and how?

*Mariya Spassova, Head of Pediatric Oncohematology Division, Bulgaria*

**11:00-12:30 Exhibition Area (lounge, floor 2, Auditorium complex of MU-Plovdiv)**

**Poster presentation session 3– Original Studies in Medical Sciences (90 min)**

**Chairs:** Frank Sellke, Emil Slavov

**Juries:** Gonzalo Cordova, Tiziana Cappello, Fabiana Corsi-Zuelli, Jessica Vargas Gallarce, Dongliang Chao, Tiziana Cappello

**12:30-13:30 Lunch**

## **NOV 9<sup>TH</sup> (SATURDAY) AFTERNOON**

### **13:30-15:00 Auditorium I**

**Keynote Lecture 8**– Ute Romling, Sweden (20 min)

The ubiquitous second messenger cyclic di-GMP - what have we learned and can still learn from this fascinating molecule

**Keynote Lecture 9**– Marianna Murdjeva, Bulgaria (20 min)

Syndromic microbiological approach for diagnosis of infections – new horizons

**Oral presentation session 5. Strategic Innovation program of MU-Plovdiv. Modern approaches in diagnosis of infectious syndromes and inflammatory disorders (50 min)**

**Chairs:** *Nikoleta Traykova, Ute Romling*

**Juries:** *Mariya Ivanovska, Tiziana Cappello, Fabiana Corsi-Zuelli, Ewa Szumowska*

### **13:30-15:00 Department of Medical Biology**

**Workshop 5.** Molecular diagnosis of mitochondrial dysfunction

**Mentors:** *Yordan Sbirkov, Maria Gevezova*

**Chairs:** *Hassan Abolhassani, Maria Kazakova*

### **13:30-15:00 Auditorium IV**

**Workshop 6.** Scientific writing

European Funding Opportunities for Early Career Researchers

*Jessica Vargas Gallarce, the Netherlands*

The Path to a Successful Publication

*Gonzalo Cordova, the Netherlands*

**Chair:** *Nima Rezaei*

### **13:30-15:00 Roundtable (floor 2, Auditorium V, Auditorium complex of MU-Plovdiv)**

**Meet the Expert 5.** Interface between Physical and Mental Health

*Joseph Firth, Presidential Fellow at the University of Manchester, UK*

**Meet the Expert 6.** Surgery – Challenges and Opportunities in Life

*Frank Sellke, Chief of cardiothoracic surgery at Rhode Island Hospital, USA*

### **13:30-15:00 Exhibition Area (lounge, floor 2, Auditorium complex of MU-Plovdiv)**

**Poster presentation session 4– Innovation and Novelty in Interdisciplinary Sciences (90 min)**

**Chairs:** *Tommaso Dorigo, Pietro Vischia*

**Juries:** *Timothy Lyons, Maria Maisano, Andrea Luppi, Dongliang Chao, Dragana Ciric*

**15:00-15:30**- Coffee break

### **15:30-17:00 Auditorium I**

**Keynote Lecture 10**– Joseph Firth, UK (20 min)

Using AI to Enhance Digital Mental Healthcare: Current Evidence and Priorities

**Keynote Lecture 11**– Dragana Ciric, Serbia (20 min)

Novel Approaches to Research and Learning: Architecturally Articulated Information and Complex Design Systems.

**Oral presentation session 6 – Transdisciplinarity (50 min)**

*Chairs: Alexander Leemans, Drozdstoy Stoyanov*

*Juries: Tommaso Dorigo, Joseph Firth, Ewa Szumowska, Hassan Abolhassani, Dragana Ciric*

**15:30-17:00 Roundtable (floor 2, Auditorium V, Auditorium complex of MU-Plovdiv)**

**Meet the Expert 7.** Hashimoto thyroiditis – pathogenesis and co-morbidities

*Maria Orbetsova, Professor in Endocrinology, MU-Plovdiv and Director of Endocrinology Hospital – Sofia, Bulgaria*

**Meet the Expert 8.** Advances in Astrobiology

*Timothy Lyons, Distinguished Professor of Biogeochemistry, UC Riverside, USA*

**15:30-17:00 Exhibition Area (lounge, floor 2, Auditorium complex of MU-Plovdiv)**

**Poster presentation session 5– Multidisciplinarity: From Formal to Social Sciences (90 min)**

*Chairs: Frank Sellke, Nikolay Mehterov*

*Juries: Mariya Ivanovska, Maria Maisano, Pietro Vischia, Andrea Luppi, Dongliang Chao*

**17:30-19:00 Cocktail and cultural program. Lounge, floor 1, Study complex 1**

**Lyrical Gala**

*Tommaso Dorigo (Piano), Kalliopi Petrou (Soprano), Italy*

**18:30-21:00 Virtual Session 2 (Zoom platform)**

**Virtual Lectures on Medical Sciences**

*Nathan D. Wong, USA*

Strategies for Reducing Atherosclerotic Cardiovascular Disease Residual Risk

*Reza Malekzadeh, Iran*

Update on Polypill for prevention of CVD

*Richard J Johnson, USA*

Climate change and its impact on kidney disease

*George Perry, USA*

Brain Aging at a Crossroads: Where do we go from three decades of failed therapeutics?

*Domenico Pratico, USA*

Extra virgin olive oil and Alzheimer's disease: from Bench to Bedside

*Larry Lavery*

*David J. Greenblatt, USA*

## **NOV 10<sup>TH</sup> (SUNDAY) MORNING**

**9:00-10:30 Auditorium I**

**USERN Festival**

**USERN Talk Theater 2024**

**USERN Awarding Festival 2024**

**Announcing the Host of USERN 2025**

*Chairs: Nima Rezaei, Mariya Ivanovska*

**10:30-11:00 Coffee Area (lounge, floor 1, Auditorium complex)**

Coffee Break

**11:00-13:00 Auditorium I**

**USERN Laureates Talks**

**USERN Laureate Talk in Formal Sciences (20 min)**

**USERN Laureate Talk in Physical and Chemical Sciences (20 min)**

**USERN Laureate Talk in Biological Sciences (20 min)**

**USERN Laureate Talk in Medical Sciences (20 min)**

**USERN Laureate Talk in Social Sciences (20 min)**

**Closing Ceremony**

*Chairs: Nima Rezaei, Tommaso Dorigo, Maria Tokmakova, Marianna Murdjeva*

**13:00-14:00 Lunch**

**18:30-21:00 Virtual Session 3 (Zoom platform)**

**Virtual Lectures on Biological and Social Sciences**

*Jean-Marc Cavaillon, Canada*

The Cell, the Organ, the Individual, the Society, the Planet Facing Stress and Inflammation

*Christopher Wlezien, USA*

Negativity & Misinformation in News Coverage

*Rudolf Valenta, Austria*

Molecular allergology

*Carlos Camargo, USA*

Update on Moderate Alcohol Drinking and Health

*Katrien Fransen, Belgium*

The Power of Empowerment: Shared Leadership in Sport Teams and Beyond

*Stefan G. Hofmann, Germany*

An Evolutionary Science Approach to Psychotherapy



## SESSION TYPES AND SCIENTIFIC FORMATS

USERN Congress 2024 will include different session formats that are targeted to participants with different levels of experience and professional backgrounds. A brief description for each of them is presented.

This year the scientific theme of the congress is *“Bringing Science to Life”*.

### 1. Keynote Lectures (11)

This targets a broad audience of specialists and non-specialists. The speaker is internationally renowned and respected leader in their fields. The speaker is invited to present a state-of-the-art review of a specific “hot” topic on cutting-edge science in medicine, biology, and interdisciplinary fields. 20-30 min presentation of the keynote lecturers.

### 2. Oral presentation sessions (6)

These sessions present the most recent scientific findings with original results. The speakers share details about their research questions, methodology, findings, applications, etc. Each oral presentation session includes two types of presentations: at the first of each session - 1-2 senior presentations (each 20 minutes), then, short junior presentations (each 6-10 minutes)

Two chairpersons from 2 different countries.

### 3. Meet-the expert sessions (roundtables) (8)

These are educational sessions and usually target a smaller audience. The topics are intended to be with practical relevance. The sessions should allow for discussion with the experts and include the exchange of personal views, direct interaction, discussion of cases. A speaker gives short introductory talk (10 min), on a practical topic, followed by interactive discussion and audience engagement.

### 4. Poster presentations (5)

They include presentation of accepted abstracts that have not been assigned to oral sessions. This provides an opportunity for juniors to present their experiences as poster presentations.

### 5. Workshops (6)

They provide both the area and tools required for practical approach for testing and performance of techniques. “Art agar” is drawing on agar plates, similar to the American Agar Art Contest of the American Society of Microbiology (<https://asm.org/Events/ASM-Agar-Art-Contest/Home>). In Bulgaria this form of art was set up in 2016, when the Journal “Bulgarian science” and pharmaceutical company Ridacom organized the first competition in the country “Art agar”. There will be more workshops on different topics.

### 6. USERN Prize Awarding festival (1)

USERN Prize has been established to identify the most talented qualified junior scientists in all areas of science, who have devoted their times to science promotion and performed outstanding scientific projects so far. The bests in each field will be awarded each year to be distinguished to the scientific world and to be acknowledged for their humanitarian efforts. The *USERN Prize Awarding Festival* is held annually on *November 10th, the Global Day of Science for Peace and Development*.

<b>Oral presentation session 1. Update in Psychoneurological Sciences (60 min)</b>	
Tara Shahmoradi	Golden years blues: Neurotransmitter dynamics in depression and anxiety among seniors
Ali Rezvanimehr	Exploring the role of vault complex in the nervous system
Marjan Falahati	Gray matter alternations in alzheimer and multiple sclerosis
Parsa Alijanizadeh	TLR4-mediated multiepitope chimeric vaccine targeting bacterial infections linked to alzheimer's disease and cognitive impairment using advanced immunoinformatics
Melika Abrishami	Investigating exosomethropy as a novel therapeutic approach for multiple sclerosis
Kimia Kazemzadeh	The possible use of arterial spin labeling for predicting brain amyloidosis
Elaheh Mousavialmaleki	Graphene based nanomaterials for synergistic immunotherapy in glioma treatment
Mohammadreza Mirzaee Goodarzi	The potentials of high-intensity ultrasound in therapeutic approaches against pediatric Glioma
<b>Oral presentation session 2. Stem Cell, Tissue Engineering, and Novel Therapeutic Targets (50 min)</b>	
Nima Beheshtizadeh	Design, manufacturing, and performance evaluation of portable hand-held 3D bioprinter for various tissue engineering applications
Sahel Noorikoloori	From lab to life: Targeting cancer with precision nanoparticles
Ali Faegh	Current role of using stem cells in bladder regeneration
Alireza Bolouriyari	Evaluation the effects of mesenchymal stem cells carrying Newcastle oncolytic virus were treated with Lactobacillus casei probiotic extract in the treatment of mice model colorectal cancer
Helia Sharif	Steel-based regenerative approaches for the treatment of cleft lip and palate
Yashmin Afshar	Enhancing maxillary growth and scar management in cleft palate repair post-palatoplasty: A regenerative medicine perspective
Kamran Shirbache	Ultra-overt therapy: A novel medical approach centered on patient consciousness
Kosar Zolfaghari	Network pharmacology for identifying drug repurposing candidates in rare diseases
<b>Oral presentation session 3. Immune deficiencies and translational science – present state and future perspectives (joint session with the Bulgarian association of clinical immunology and J project) (50 min)</b>	
Mina Pencheva	Vitamin D and Interleukin-17A as Biomarkers for the Diagnosis and Monitoring of Rheumatoid Arthritis
Mahsa Zargarani	Bronchiectasis in Common Variable Immunodeficiency (CVID) Patients
Snezhina Kandilarova	Clinical spectrum of immune dysregulation in Familial Mediterranean Fever
Maryam Sadat Fakhri Bafghi	Monogenic SLE from Genetic Etiologies to Treatment in a Prospective Era
Reyhaneh Abdi Andarabi	Gene Therapy Innovations for Dystrophic Epidermolysis Bullosa
Amirreza Jabbaripour Sarmadian	Prevalence of Medication-Free Remission and its Predictive Factors in Patients with Rheumatoid Arthritis: A Real-World Longitudinal Cohort Study
Amir Hakimjavadi	Psychoanalytically-Translated Immunology: A Hypothetical Framework for Immune System Behavior and Psychological Subjectivity in Psychoneuroimmunology
<b>Oral presentation session 4. Future of Artificial Intelligence (60 min)</b>	
Mohammad Sedaghati Jahromi	Entrepreneurial strategies for AI startups
Laleh Shadman	Psychology with AI

Nazanin Zahra Keshvari	AI-Enabled Targeted Drug Delivery Systems: neurodevelopmental disorders, neurocognitive disorders, neurodegenerative disorders
Seyedeh Saba Sajadi Tabar	Animating Recovery: The Role of AI in Precision Physiotherapy
Mojtaba Heydari	The Efficacy of Peer Education of Smartphone Use on the Function and Quality of Life of Visually Impaired Patients
Fateme Mazloomrezaei	Using Automated Machine Learning Approach for Skin Disease Diagnosis: A Feasibility Study of Classification of Acne and Normal Skin Images

**Oral presentation session 5. Strategic Innovation program of MU-Plovdiv. Modern approaches in diagnosis of infectious syndromes and inflammatory disorders (50 min)**

Niloufar Yazdanpanah	COVID-19 Aftermath
Mehrnaz Olfat	On-admission Anemia and Severe Outcomes in Critically Ill Children With COVID-19: Report From a PICU in Iran
Milena Rupcheva	Complicated urinary tract infections - how polymicrobial are they?
Miglena Milusheva	When 2 Becomes 1: Assembling Novel Drug Molecules for IBS Treatment
Kiarash Saleki	In silico design of a rapid immunoassay against etiology of Crimean-Congo Hemorrhagic Fever (CCHF) as a possible candidate for the next pandemic
Ivaylo Mourdjiev	Effectiveness of vacuum assisted therapy of diabetic ulcers compared to conventional gauze dressing
Mohammad Yazdi	Exploring the Complicated Dialogue between Gut Microbiota and Immune Checkpoint Inhibition

**Oral presentation session 6. Transdisciplinarity (50 min)**

Navid Ravan	Metaphors In Medicine: Up, Down, and Sideways
Milad Samari	Effects of Green Buildings On Social Behaviors During Pandemics
Nioofar Ziadali	"Artistic Smiles: The Intersection of Aesthetics and Dentistry in Cosmetic Dentistry"
Shaghayegh Mohammadioun	The age of Quantument.
Sara Asl Motaleb Nejad Sarkhab	From Space to Cancer Cells: Advancements in Cancer Research Under Microgravity Conditions
Maryam Sadat Tonekaboni	Bio-Inspired Materials: Innovations for Sustainable Applications
Zeinab Sekhavati	Medical Illustration: One Picture Is Worth a Thousand Words'

**Poster presentation session 1: In vitro and Animal Studies in Pharmaceutical Sciences**

Fatemeh Rezaee	Evaluation of Coenzyme Q10 protective effects on tetracycline-induced hepatotoxicity in Male Rats
Ftemeh Kefayat Manesh	The effect of metanolic abstract of Hypericum scabrum on diabetes mellitus and diabetic inflammation in wistar male rats
Mohammad Mehdi Gravandi	Rutin-loaded chitosan nanoparticles ameliorated Freund's adjuvant-induced rheumatoid arthritis in Wistar rats by regulating oxidative stress and inflammatory markers.
Melika Alijani	Comparative Study of Almond Milk and Cow's Milk: Impact on Enamel Microhardness of primary molar after acidic challenge. An In vitro study
Maedeh Tahvilian	The Neuropharmacological Mechanisms, Molecular Targets, Therapeutic Potentials, and Clinical Viewpoint of Polydatin's Neuroprotective Role
Morteza Rajabi	Epirubicin-Induced Alterations in miR-143-3p Expression in MCF-7 and MDA-MB-231 Breast Cancer Cells

Zeynab Asgari	Identification of microRNAs involved in PI3K-AKT signalling pathway in HTLV-1 associated Adults T cell leukemia lymphoma (ATLL)
Ala Tahvilian	Utilizing chitosan-carboxymethyl cellulose nanogel as a transdermal delivery vehicle, Nigella sativa oil and atorvastatin are dual loaded
Amirhossein Ghazizadeh Khosroshahi	Determining and Comparing Pharmacists' professional performance in Tehran pharmacies managing the provision of non-prescription drugs
Ralitsa Nikolova	The Role of Gut Microbiome in Chronic Fatigue Syndrome: An overview
<b>Poster presentation session 2: Translational Biological and Medical Reviews</b>	
Rozhin Bakhshi	PiRNAs; Epigenetic factors affecting colorectal cancer
Hamoon Baghaei	Effects of lncRNAs on main cause of colorectal cancer: Wnt/ $\beta$ catenin signaling pathway
Shaghayegh Mousavi	The Role of microRNAs on IBD-related colorectal cancer
Mihaela Stoyanova	Revolutionary Approaches in IBS Treatment with Silver Nanoparticles
Steliyan Petrov	Prognostic Insights: GRP78 Levels and CD8+ T Cell Correlations in COVID-19
Spas Kitov	Arrhythmogenic load in metabolic syndrome
Sepideh Radvar	The Effect of Vitamin E in Pediatrics with Non-alcoholic Fatty Liver Disease: A Systematic Review and meta-analysis
Seyed Nikan Seyed Ghiasi	Lipid profile and mortality in patients with pulmonary thromboembolism; a systematic review and meta-analysis.
Sama Jabbaripour	Overutilization of head computed tomography in cases of mild traumatic brain injury: a systematic review and meta-analysis
Ashkan Ghonuei Rastgar	Management of allergy to anesthesia in dentistry
Mahsa Hosseini Kakroudi	Delirium in Patients Undergoing Valve Replacement
<b>Poster presentation session 3: Original Studies in Medical Sciences</b>	
Marzieh Pirzadeh	The evaluation of autologous conjunctival graft perfusion after pterygium surgery using Optical coherence tomography angiography (OCTA)
Mehdi Pasalar	A randomized, double-blind clinical study examining the impact of ajwain on peripheral neuropathy in cancer patients
Abdolkarim Haji Ghadery	Western Ontario and McMaster Universities Arthritis Index (WOMAC) Optimal Value in Diagnosing Overlapping Fibromyalgia: A Multivariate Study on Knee Osteoarthritis
Mohammad Rezapour Tougheri	Therapeutic plasma exchange for severe covid-19; retrospective case-cohort study in 100 patients
Ghazal Roostaei	Indwelling Pleural Catheter Efficacy and Safety in Malignant vs. Non-Malignant Pleural Effusions: A Prospective Study
Khashayar Danandeh	Efficacy and Outcomes of Salvage Therapy with Etoposide and Mitoxantrone in Refractory Acute Myeloid Leukemia: A Retrospective Cohort Study
Arshiya Danandeh	Trends and Impact of Alcohol Use Disorder and Related Diseases in Iran: Insights from the Global Burden of Disease Study 1990-2019
Sara Gholami	The burden associated with iodine deficiency in Iran from 1990 to 2019: insights derived from the Global Burden of Disease study
Kosar Sadat Hosseini Kolbadi	Evaluating the Recurrence of Chronic Myeloid Leukemia in Iranian Patients After Treatment-Free Remission: A 10-Year Retrospective Study
Nazanin Abbasi	Frequency of Anxiety, Depression and Social Support in Women with A History of Recurrent Miscarriage Referred to a Public Infertility Center in Mashhad in 2022
Sara Ahtari	The evaluation of clinicopathological and response to treatment in patients with toxic epidermal necrolysis in Razi and Imam Khomeini hospital complex from 2012 to 2021
Abdullah Al Lawati	Prevalence of cervical ribs and elongated transverse processes in Omani population: a computed tomography-based study
Mohammad Hashem Hashempur	Patterns of use and disclosure of complementary and alternative medicine among hypertensive patients: An Iranian cross-sectional survey

<b>Poster presentation session 4: Innovation and Novelty in Interdisciplinary Sciences</b>	
Nadia Rahimzadeh	Nano-messengers of health: Exosome's role in bringing science to life
Hanieh Kolahi Azar	Increasing anticancer effectiveness with docetaxel-loaded nanoplateforms: from cancer therapy to regenerative approach
Mohammadamin Balibegloo	Innovative BCI Methods for the Management of ADHD: Current Trends and Future Directions
Azin Qanbari	Innovations in Dental Care: Bridging Science and Smiles
Alexandra Baldzhieva	Optimizing Flow Cytometry Analysis in Childhood Acute Lymphoblastic Leukemia: A Comprehensive Evaluation of FlowJo, Diva, and Infinicyt Softwares
Krasimira Nancheva-Koleva	Impact of working condition on CD4+CD161+ and CD8+CD161+ subpopulation in healthy workers
Tina Shahidi Bonjar	Advantages and disadvantages of using virtual reality in physical and psychological rehabilitation of patient with Multiple sclerosis.
Velislava Todorova	The marvels of Leuzea: From Traditional Applications to Modern Relevance
Spaska Nacheva	Schmidt syndrome - autoimmune polyglandular syndrome type 2: Addison's disease with Hashimoto's autoimmune thyroiditis and co-morbidity of pernicious anemia and gastritis
Georgi Hristov	Outcomes with holmium: Yag laser transurethral enucleation of the prostate gland
Shiva Ashraf	A review on environmental sustainability of synthetic textile garments compared to 3D printed garments
Muhammad Awais Khan	Highly Efficient Ruddlesden-Popper (RP) Perovskites as Electron Selective Layers Yielding over 20% efficiency in Organic-Inorganic Perovskite Solar Cells
<b>Poster presentation session 5: Multidisciplinarity: From Formal to Social Sciences</b>	
Behzad Moharrami	The Role of Artificial Intelligence in Personalized Medicine
Fatemeh Tajafrooz	The Role of AI and Robotics in Modern Dental Care
Hadi Vahedi	Artificial intelligence application in diabetic retinopathy diagnosis: an umbrella review of systematic reviews
Arian Hajiahmadi	Optimizing the PTBD procedure to identify factors associated with technical success, clinical efficacy, and complications using Artificial Intelligence
Roya Hajimalek	Brain Cancer Detection Using MRI Imaging and Artificial Intelligence: a systematic review
Hooman Nekoonam	The potentials of artificial intelligence in addressing bipolar mental disorder in adolescences
Alireza Motamedi	Using Artificial Intelligence in Hemodialysis to Predict Blood Pressure Crises in Tabriz, Iran
Azin Nateghian	Overcoming the Limitations of Traditional Psychoeducation: Innovative Strategies Leveraging Technology and Experiential Learning
Hosein Moghimi	The Effect of The Type of Coffee on Emotions: What Kind of Coffee Do You Drink?
Sara Fattahi	The Impact of Childhood Trauma, Mentalization, and Alexithymia on Depression and Suicidal Ideation in Women Experiencing Marital Infidelity Trauma

## **Lyrical Gala**

**Charles Gounod** (1818-1893)

Aria of Juliet: *Je veux vivre*, from the opera

“**Roméo et Juliette**”

**Vincenzo Bellini** (1801-1835)

Aria of Giulietta: *Eccomi in lieta vesta...Oh quante volte*,

from the opera “**I Capuleti e i Montecchi**”

**Robert Schumann** (1810-1856)

Kinderszenen, op. 15

*n.1, Von fremden Landern und Menschen;*

*n. 7, Traumerei*

**Vincenzo Bellini** (1801-1835)

Aria of Norma: *Casta Diva* from the opera “**Norma**”

**Giocchino Rossini** (1792-1868)

Aria of Rosina : *Una voce poco fa*

from the opera il “**Il barbiere di Siviglia**”

**Robert Schumann** (1810-1856)

Kinderszenen, op. 15

*n.5, Furchtenmachen*

*Kreisleriana, op. 16 n.1*

**Giocchino Rossini** (1792-1868)

Aria of Fiorilla : *Non si dà follia maggiore*

from the opera “**Il turco in Italia**”

**Giacomo Puccini** (1858-1924)

Musetta's Waltz : *Quando me'n vo'*

from the opera " **La Bohème** "

**Fredrik Chopin** (1810-1849)

Prelude op.28 n.4

Etude op. 10 n.3, «Tristesse»

**Kurt Weill** (1900–1950)

(From the cycle «trois chansons»)

*Je ne t'aime pas*, poem by Maurice Magre

*Youkali*, poem by Roger Fernay