



**The 17<sup>th</sup> International & 23<sup>rd</sup> National Congress  
on Quality Improvement in Clinical Laboratories**

**The First Symposium of Extracellular Vesicles**

**هفدهمین کنگره بین المللی و بیست و سومین کنگره ملی  
ارتقای کیفیت خدمات آزمایشگاهی تشخیص پزشکی ایران**

**اولین سمپوزیوم وزیکول های خارج سلولی**

**کیفیت را پایانی نیست**

**QICL**  
Tehran - Iran  
Milad Tower International Convention Center



# FROM PRECISION TO PREDICTION: THE ROLE OF LABORATORY IN THE FUTURE OF HEALTH

Bridging Lab and Clinic: Solving Tomorrow's  
Health Challenges Today

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## **Date and Venue**

1-4 September, 2026

Milad Tower International Convention Center



## The Message from the Congress Chairman

### In the Name of Allah

Distinguished colleagues, esteemed professors, respected researchers, and professionals in the field of laboratory sciences

It is with great honor that I announce the 17th International and 23rd National Congress on Quality Improvement in Clinical Laboratories, to be held with the scientific theme: **From Precision to Prediction: The Role of the Laboratory in the Future of Health**

This congress will take place from 1-4 September, 2026, at the Milad Tower International Convention Center, Tehran.

The congress has been designed and planned with the aim of elucidating the strategic role of medical diagnostic laboratories in the transformation of the health system, from accurate diagnosis toward prediction, decision support and intelligent interventions.

The scientific themes of the congress reflect a comprehensive and forward-looking spectrum of challenges and opportunities in laboratory sciences. Innovative topics such as artificial intelligence in laboratory diagnostics, evidence-based medicine, intelligent molecular diagnostics, modern virology, the microbiome, molecular biomarkers, standardization, quality improvement, and accreditation occupy a central place in the scientific program, highlighting the decisive role of laboratories in strengthening national and international trust in health outcomes.

Within this framework, the First Extracellular Vesicles Symposium will be held concurrently with the congress as a pioneering scientific event. Focusing on the latest research achievements and diagnostic and therapeutic applications of extracellular vesicles, this symposium will outline new horizons in future medicine, next-generation diagnostics, and personalized medicine, while fostering effective interaction among basic, clinical, and laboratory researchers.

In addition, the Iran Clinical Lab Expo, as the technological and industrial component of this event, will provide a valuable platform for showcasing capabilities, innovations, equipment, and advanced laboratory solutions, thereby creating an effective link between knowledge, technology, and the delivery of standardized, high-quality diagnostic services.

Undoubtedly, medical diagnostic laboratories in Iran have faced numerous challenges in recent years under difficult and complex conditions. Nevertheless, the professional resilience, scientific commitment, and exemplary sense of responsibility of the laboratory community have ensured the continued delivery of accurate, standardized, and reliable diagnostic services – an invaluable asset that plays an undeniable role in safeguarding public health and sustaining the health system, and one that deserves sustained attention, support, and reinforcement at decision-making and policy levels.

It is hoped that this congress, through the active participation of professors, specialists, managers, and industry stakeholders, will provide an effective opportunity for knowledge exchange, the presentation of challenges, collective reflection, and the proposal of practical solutions, and will represent a lasting step toward improving the quality of laboratory services and shaping a smart, sustainable, and science-based future for public health.

**Dr. F. Shayegan**  
DCLS





### **The Message from the Congress Scientific Chair**

#### **Dear Participants, Esteemed Colleagues and Honored Guests,**

It is with great pride and pleasure that I, as the Scientific Secretary of the 17th International & 23rd National Congress on Quality Improvement in Clinical Laboratories, extend a warm welcome to each of you.

This year, our congress theme is “**From Precision to Prediction: The Laboratory’s Role in the Future of Health,**” a theme that envisions a bright and transformative future for laboratory sciences.

In an era where technology is advancing at an unprecedented pace, the role of laboratories has evolved beyond delivering accurate and reliable results toward prediction, prevention, and personalized health care. The convergence of artificial intelligence, big data, and next-generation diagnostic technologies has positioned the laboratory at the heart of forward-looking medical decision-making.

This congress presents a valuable opportunity to discuss the latest scientific achievements, existing challenges, and future prospects together. From keynotes and workshops to innovative research presentations, all are designed to advance quality and excellence in laboratory services.

I hope this gathering will not only foster knowledge and experience exchange but also pave the way for more effective collaborations among professionals, researchers, and industry leaders in the field.

Thank you for your valuable presence, and I wish you all a fruitful and inspiring congress.

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**Prof. A. Gharehbaghian**  
DCLS, PhD





### The Message from the Congress Executive Chair

The 17<sup>th</sup> International & 23<sup>rd</sup> National Congress on Quality Improvement in Clinical Laboratories stands as the country's largest and most prominent annual gathering in the field of laboratory medicine. Held at the beginning of the Iranian Solar Hijri year and bringing together the latest scientific advances and developments from around the world, the Congress provides a unique platform for laboratory professionals from academic, governmental, and private sectors to come together, exchange knowledge and experience, renew professional relationships, and establish new connections.

Such a valuable opportunity deserves thoughtful planning. Throughout the four days of the Congress, the Congress mobile application and program booklets will serve as essential guides for making the most of your time. A truly rewarding experience begins with a clear understanding of the scientific program – including the themes of the panels and workshops, their dates and times, and the distinguished faculty members presenting at each session. With 25 scientific panels and approximately 50 workshops, featuring leading Iranian and international experts, the Congress offers an extraordinary breadth of topics and perspectives. Will you explore the laboratory aspects of geriatric medicine, or focus on laboratory accreditation? Will you examine the challenges of laboratory economics and management, or turn your attention to the laboratory diagnosis of myocardial infarction, tumors, allergic disorders, thrombosis, parasitic diseases, viral infections, and many other conditions? Will you explore the fascinating relationship between the immune system, reproduction, and disease, or examine strategies for laboratory test utilization and productivity management? Will you delve into the rapidly expanding field of microbiome research, or discover the latest advances in newborn screening?

Perhaps gene therapy will capture your interest, or perhaps you will immerse yourself in the complex world of hematologic malignancies and hemoglobin disorders. You may choose to explore platelet disorders and non-malignant white blood cell disorders, investigate emerging challenges in immunohematology, or discover the transformative potential of artificial intelligence in laboratory medicine. And among this rich scientific program, do not miss one of the Congress highlights of this year: the First Symposium on Extracellular Vesicles. With distinguished experts and an emerging field of major scientific importance, this symposium promises to be one of the unique features of this year's Congress. The Congress Poster Exhibition offers yet another opportunity for scientific discovery. Every year, the first floor of the Milad Tower International Convention Center comes alive with research findings, innovative ideas, and professional experiences presented through scientific posters. Although posters may speak quietly, they often have much to say. Take the time to walk through the exhibition, explore the presented research, exchange ideas with fellow researchers, and discover perspectives and experiences beyond the formal scientific sessions. The opportunity is certainly worth your time.

The QICL is not merely a premier scientific gathering. It is also a valuable opportunity to discover the latest technologies, diagnostic solutions, instruments, reagents, and products available in the field of laboratory medicine, presented by leading Iranian and international brands.

The synergy between up-to-date scientific knowledge and the latest technological developments gives the Iran Clinical Lab Expo (ICLE) its distinctive character. With the participation of approximately 240 reputable companies, ICLE provides a comprehensive platform for laboratory professionals, decision-makers, laboratory managers, and healthcare organizations to explore emerging technologies, compare products and services, and establish direct professional connections with leading companies in the field. Equally valuable is the opportunity to interact directly with distinguished laboratory medicine experts, experienced laboratory managers, industry specialists, and government officials. The presence of leading companies alongside a large and diverse professional audience, the wide range of products and technologies on display, a dynamic competitive environment, extensive professional networking, and the opportunity to discover innovative solutions from newly established companies all contribute to making the Congress Exhibition one of the most significant events in Iran's laboratory medicine calendar.

For the first time, a laboratory-inspired interactive installation will be created at the entrance of Milad Tower, offering visitors and passersby an opportunity to experience the world of laboratory medicine in an engaging and accessible way.

Visitors will be able to participate in simple laboratory activities, including blood group testing, and explore microscopic images of blood cells. This hands-on experience will offer a glimpse into the fascinating world of laboratory diagnostics and may inspire visitors to learn more about the vital role laboratories play in modern healthcare. Before leaving, visitors will also have the opportunity to take a memorable photograph wearing a white laboratory coat alongside distinguished figures from the field of diagnostic medicine – a symbolic and lasting souvenir of their encounter with laboratory science.

Finally, we must not overlook another important tradition of the Congress: the Hakim Jorjani Festival and the ceremony honoring a Distinguished Figure in Laboratory Sciences. The Festival provides an opportunity to recognize excellence, innovation, dedication, and outstanding achievements across different areas of laboratory medicine.

The Festival categories include: Outstanding Laboratory Medical Director, Outstanding Laboratory Staff, Outstanding Student Scientific Work, Outstanding Innovator and Technology Developer, Outstanding Book, Outstanding Blood Bank

Although reaching every colleague may require extensive communication – including emails, official correspondence with universities and relevant organizations, text messages, and telephone calls – we believe that recognizing and celebrating excellence is well worth the effort. We sincerely hope that the active participation of all members of the laboratory medicine community, healthcare professionals, academic institutions, governmental organizations, and industry partners will contribute to making the Quality Improvement Congress an even more successful and memorable event. Let us come together to share knowledge, celebrate innovation, strengthen professional relationships, and advance the quality of laboratory medicine.

And above all, let us keep alive the memory of our friends, colleagues, and healthcare heroes who stood beside us in previous years and whose dedication and contributions continue to inspire the laboratory medicine community.

**Dr. M. Javid**  
**DCLS**





**The Message from the Congress International Secretary Chair**  
**Dear Participants, Esteemed Colleagues and Honored Guests,**

It is with great pride that I announce the 17th International Congress and 23rd National Congress for the Promotion of Quality in Iran's Medical Diagnostic Laboratory Services, held under the scientific theme:

“From Accuracy to Prediction: The Role of the Laboratory in the Future of Health”

I am pleased to inform all those interested and active in the field of Iranian laboratory sciences that this congress will be held from Shahrivar 10–13, 1405 (August 2026) at the Milad Tower International Convention Center in Tehran. It has been designed and planned with the aim of clarifying the strategic role of medical diagnostic laboratories in the transformation of the healthcare system – moving from precise diagnosis toward prediction, intelligent decision-making, and knowledge-based interventions.

The scientific themes of this congress cover a comprehensive and forward-looking range of challenges and opportunities in laboratory sciences. Emerging topics such as artificial intelligence in laboratory diagnostics, evidence-based medicine, intelligent molecular diagnostics, modern virology, the microbiome, molecular biomarkers, standardization, quality improvement, and accreditation highlight the laboratory's decisive role in building national and international trust in health outcomes.

Given the growing importance of this field, the First Symposium on Extracellular Vesicles will also be held alongside the congress. Focusing on the latest research achievements and the diagnostic and therapeutic applications of extracellular vesicles, this symposium will chart new horizons in the future of medicine, next-generation diagnostics, and personalized medicine, and will foster effective interaction among researchers in basic, clinical, and laboratory sciences.

On the international front, distinguished scientific authorities and experts in laboratory sciences from Canada, Australia, Brazil, Germany, India, Turkey, Tunisia, Nepal, and Taiwan – who have expressed interest in presenting on the congress's core topics – have been invited. These experts will deliver their presentations online, an approach that extends the boundaries of knowledge and scholarly exchange beyond geographical limitations.



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**Dr. A. R. Lotfi-Kian**  
**DCLS**



## Congress Officials



|                                                                |
|----------------------------------------------------------------|
| <b>Congress Chairman:</b>                                      |
| Dr. Fariba Shayegan, DCLS                                      |
| <b>Scientific Chair:</b>                                       |
| Prof. Ahmad Gharehbaghiyan, DCLS, PhD                          |
| <b>International Chair:</b>                                    |
| Dr. Ali-Reza Lotfi-Kian, DCLS                                  |
| <b>Executive Chair:</b>                                        |
| Dr. Mahmoud Javid, DCLS                                        |
| <b>Workshops Scientific Secretary Assistants:</b>              |
| Dr. Ali Shirin, DCLS<br>Dr. Seyedeh Robabeh Seyedjavadin, DCLS |
| <b>Poster Presentation Coordinators:</b>                       |
| Dr. Farzaneh Aziz-Mohseni, DCLS                                |
| <b>Jorjani Festival Coordinator:</b>                           |
| Dr. Yousef Poorkhoshbakht, DCLS                                |





### Opening Program (1-4 September, 2026)

| From  | To    | Title                                                         |
|-------|-------|---------------------------------------------------------------|
| 10:30 | 10:35 | Recitation of The Holy Quran                                  |
| 10:35 | 10:40 | The National Anthem of The Islamic Republic of IRAN           |
| 10:40 | 10:45 | Program Announcement                                          |
| 10:45 | 10:55 | Welcome Address by the Congress Chairman                      |
| 10:55 | 11:05 | Scientific Chair Speech                                       |
| 11:05 | 11:15 | Executive Chair Speech                                        |
| 11:15 | 11:45 | Invited Speakers                                              |
| 11:45 | 11:50 | Memorial Ceremony for the Deceased Members of IACLD           |
| 11:50 | 12:00 | Introducing the Distinguished Members of IACLD                |
| 12:00 | 12:15 | In Honor of Memorable Figure                                  |
| 12:15 | 12:30 | Introducing the Elected Winners of the Hakim Jorjani Festival |



**Tuesday. September 01, 2026**

|                                              | Hafez Hall                                                                                                                              | Sa'adi Hall                                                                                                | Roudaki Hall                                                                                                  | Room 1                                                                                                                                                                                              | Room 3                                                                                                     | Room 4                                                                                                                                           | Room 5                                                                                                                                                   | Room VIP                                                                                                                                                                                                                                |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EDUW 8:00-10:00</b>                       | <b>Future Scientific Outlook:<br/>How Extracellular Vesicles Are Redefining the Diagnostic Landscape?</b><br><u>Prof. A. H. Zarnani</u> | <hr/>                                                                                                      | <hr/>                                                                                                         | <b>EDUW 1<br/>Design and Monitoring of Quality Indicators in Medical Diagnostic Laboratories: A Practical Approach Based on ISO 15189:2022 and CLSI QMS12:2022</b><br><u>Dr. N. Babadaei-Samani</u> | <b>EDUW 2<br/>Tax Regulations for Medical Laboratories</b><br><u>Eng. M. Zarghami</u>                      | <b>EDUW 3<br/>Microbiome-Based Interventions in Health Quality Improvement: Practical and Clinical Approaches</b><br><u>Dr. F. Khajavi-Rad</u>   | <b>EDUW 4<br/>Evidence-Based Hematology: The Laboratory Role in Clinical Decision Making</b><br><u>Dr. F. Kiani</u><br><u>Dr. A. Maleki</u>              | <b>EDUW 5<br/>From Challenges to Growth: Developing a Laboratory Development Plan</b><br><u>Dr. B. Barati-Sedeh</u>                                                                                                                     |
| <b>Future Scientific Outlook 09:30-10:15</b> |                                                                                                                                         |                                                                                                            |                                                                                                               |                                                                                                                                                                                                     |                                                                                                            |                                                                                                                                                  |                                                                                                                                                          |                                                                                                                                                                                                                                         |
| <b>10:30-12:30</b>                           | <b>Opening Ceremony</b>                                                                                                                 |                                                                                                            |                                                                                                               |                                                                                                                                                                                                     |                                                                                                            |                                                                                                                                                  |                                                                                                                                                          |                                                                                                                                                                                                                                         |
| <b>12:30-14:00</b>                           | <b>Lunch</b>                                                                                                                            |                                                                                                            |                                                                                                               |                                                                                                                                                                                                     |                                                                                                            |                                                                                                                                                  |                                                                                                                                                          |                                                                                                                                                                                                                                         |
| <b>14:00-16:00</b>                           | <b>Panel 1<br/>The Clinical Importance and Application of Accurate Measurement of Low Hormone Levels</b><br><u>Dr. H. Bayat</u>         | <b>Panel 2<br/>Diagnostic Methods of Prevalent Parasitic Diseases in Iran</b><br><u>Prof. M. Mohebbali</u> | <b>Panel 3<br/>Coagulation Disorders &amp; Thrombosis</b><br><u>Prof. P. Eshghi</u><br><u>Dr. M. Shahbazi</u> | <b>EDUW 6<br/>External Quality Assessment Program: Analyzing the Past to Shape the Future</b><br><u>Prof. M. M. Mohammadi</u><br>(And other Program Managers of the EQAP)                           | <b>EDUW 7<br/>The Impact of Organizational Culture on Laboratory Accreditation</b><br><u>Dr. F. Eslami</u> | <b>EDUW 8<br/>Costing of Laboratory Tests: Basis for Tariff Decision-Making</b><br><u>Prof. M. Barouni</u><br><u>Dr. S. M. H. Hashemi-Madani</u> | <b>EDUW 9<br/>Operational Quality Control and Comparability of Results</b><br><u>Dr. A. Karkhaneh</u><br><u>M. Izadyar</u><br>(IACLD Accreditation Body) | <b>EDUW 10<br/>Standardization and Quality Assurance Challenges in the Coagulation Laboratory: 2025 Updates and Best Practices</b><br><u>Dr. D. Bashash</u><br><u>Dr. A. Asri</u><br>(Iranian Society of Hematology & Medical Oncology) |

Coffee Break 10:00- 10:30 & 16:00-16:30



Wednesday, September 02, 2026

|             | Hafez Hall                                                                                                                                                                  | Sa'adi Hall                                                                                                                                                         | Roudaki Hall                                                                                                               | Room 1                                                                                                                                                                          | Room 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Room 4                                                                                                                                                                                                                         | Room 5                                                                                                                                                                                                | Room VIP                                                                                                                                                                                            |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00-10:00  | Panel 4<br>The Role of Medical Laboratories in Screening and Diagnosing Diseases in Newborns<br><u>Dr. M. R. Mahdavi-Amiri</u>                                              | Panel 5<br>Quality Improvement in the Clinical Biochemistry Department of the Laboratory<br><u>Prof. Kh. Adeli (Canada)</u>                                         | Panel 6<br>The Role of the Laboratory in Diagnosing Myocardial Infarctions<br><u>Dr. R. Mohammadi</u>                      | EDUW 11<br>Body Microbiome and Their Impact on Health and Disease<br><u>Dr. B. Oboudi</u><br><u>Dr. L. Barkhordari</u>                                                          | EDUW 12<br>The Impact of Air Pollution on Human Health: Intracellular and Extracellular Changes and Laboratory Findings<br><u>Dr. N. Iranmanesh</u><br><u>Dr. S. Faridi</u>                                                                                                                                                                                                                                                                                                   | EDUW 13<br>Reawakening Ancient Viruses: The Role of HERVs in Carcinogenesis<br><u>Dr. R. Soleimani-Jelodar</u><br><u>Dr. B. Pour-Hossein</u><br>(Iranian Society for Virology)                                                 | EDUW 14<br>WHONET Software<br><u>Dr. A. R. Dolatyar</u>                                                                                                                                               | EDUW 15<br>Sample Collection and Management in Fungal Diseases: From Bedside to Lab<br><u>Prof. M. T. Hedayati</u>                                                                                  |
| 10:30-12:30 | Panel 7<br>Molecular and Epigenetic Biomarkers in Allergic Disease<br><u>Prof. A. R. Ranjbar (Germany)</u>                                                                  | Panel 8<br>Optimizing Laboratory Test Selection Through Evidence-Based Laboratory Medicine<br><u>Dr. A. R. Lotfi-kian</u>                                           | Panel 9<br>Artificial Intelligence in Laboratory Medicine: From Algorithms to Clinical Trust<br><u>Dr. M. R. Bakhtiari</u> | EDUW 16<br>Interpretation of Flow Cytometry Graphs Along with the Analysis of Some Cases of Hematological Disorders<br><u>Dr. A. Norouzi-Aghideh</u><br><u>Dr. M. Farrokhan</u> | EDUW 17<br>Design and Implementation of a Performance-Based Incentive Payment System in Medical Laboratories: A Framework for Quality Improvement, Productivity, and Organizational Equity<br><u>Dr. Gh. R. Hamzehloo</u>                                                                                                                                                                                                                                                     | EDUW 18<br>A Process-Based Approach to Microbiology Laboratory Practice: From Requirements to Continuous Improvement Based on ISO 15189<br><u>Dr. S. Mobasherizadeh</u><br><u>Dr. M. Doraghi</u><br>(IACLD Accreditation Body) | EDUW 19<br>Oncogenic Viruses in Iran: A Practical Approach to Screening Program Management and Specimen Collection<br><u>Dr. M. Fazeli</u><br><u>Dr. M. Norouzi</u><br>(Iranian Society for Virology) | SYM 1<br>A Critical Comparison of EV Isolation and Characterization Techniques<br><u>Dr. F. Shekari (Canada)</u><br><u>Dr. H. Ghanbarian</u><br><u>Dr. R. Ramezani</u>                              |
| 12:30-14:00 | Lunch                                                                                                                                                                       |                                                                                                                                                                     |                                                                                                                            |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                |                                                                                                                                                                                                       |                                                                                                                                                                                                     |
| 14:00-16:00 | Panel 10<br>The Impact of Laboratory Accreditation on the International Credibility and Acceptance of Laboratory Results.<br><u>Dr. A. Shirin</u><br><u>Dr. Sh. Hemmati</u> | Panel 11<br>Laboratory Economics in Normal and Crisis Conditions<br><u>Prof. A. R. Oliyaei-Manesh</u><br><u>Prof. A. Akbari-Sari</u><br><u>Dr. Gh. R. Hamzehlou</u> | Panel 12<br>Phylogenetic Studies of Viruses and Recent Advances in Virology<br><u>Dr. S. Soltani</u>                       | EDUW 20<br>Smart Management of Patient and Physician Relationships Using CRM Software in Medical Laboratories<br><u>Dr. M. Vanaki</u><br><u>M. R. Munesi</u>                    | EDUW 21<br>14:00-15:00<br>Foundations and Practical Principles of the Immunofluorescence Assay (IFA) Method in the Identification and Detection of Autoantibodies in Modern Medical Diagnostic Tests<br><u>Dr. M. Shekarahi</u><br><u>M. Masoodian</u><br>EDUW 22<br>15:00-16:00<br>Calibration in Automated Laboratory Systems (Immunochemistry): Interpretation, Correction, and Enhancing Quality Control Performance<br><u>Dr. M. Khosh-Mirsafa</u><br><u>A. Dehghani</u> | EDUW 23<br>Comprehensive Reference for Laboratory Monitoring of Athletes in Various Conditions (Physiological and Clinical Health, During Intense Training, etc.)<br><u>Dr. S. R. Seyedjavadin</u>                             | EDUW 24<br>Optimization and Troubleshooting in Real-Time PCR<br><u>Dr. E. Kakavandi</u>                                                                                                               | SYM 2<br>EVs Engineering for Therapeutic Delivery and Clinical Applications<br><u>Dr. S. M. Masiha Hashemi</u><br><u>Dr. R. Rahbarghazi</u><br><u>Dr. T. Taheri</u><br><u>Dr. M. Le (Singapore)</u> |

Coffee Break 10:00- 10:30 & 16:00-16:30



Thursday. September 3 ,2026

|             | Hafez Hall                                                                                                                           | Sa'adi Hall                                                                                                                                                            | Roudaki Hall                                                                                                 | Hormoz<br>Next to Exhibition Site A                                                                          | Room 1                                                                                                                                                                                                                          | Room 3                                                                                                                                                                                                                      | Room 4                                                                                                                                                      | Room 5                                                                                                                                                                                         | Room VIP                                                                                                                                                                                 |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00-10:00  | Panel 13<br>Challenges in<br>Immunohematology<br><u>Prof. A. Gharchbaghian</u>                                                       | Panel 14<br>Modern Challenges<br>in Platelets Disorders:<br>Laboratory Diagnosis<br>& Therapeutic Strategies<br><u>Prof. M. Faranoush</u><br><u>Prof. M. Hamidpour</u> | Panel 15<br>Abnormal Hemoglobin<br>Syndromes<br><u>Prof. A. Azar-Keivan</u><br><u>Prof. H. Najm-Abadi</u>    | 8:00-11:00<br><b>The 1st Iranian<br/>Congress of Medical<br/>Laboratory Sciences<br/>Students and Alumni</b> | EDUW 25<br>From KPIs to Decisions:<br>Measuring and Tracking<br>Laboratory Growth<br><u>Eng. H. Babaki</u>                                                                                                                      | EDUW 26<br>Implementing Intelligent<br>Quality Monitoring<br>System: The Experience of<br>"Peer Group"<br>Program in Iranian<br>Clinical Laboratories<br><u>Dr. Gh. R. Hamzehloo</u>                                        | EDUW 27<br>Management Requirements,<br>Risk Strategy,<br>and Reports of Result<br><u>Dr. M. Vanaki</u><br><u>Dr. S. Roohi</u><br>(IACLD Accreditation Body) | EDUW 28<br>A Semi-Workshop on:<br><b>SKIN<br/>IMMUNODIAGNOSTIC<br/>TESTS</b><br>(Emphasizing Mantoux<br>Tuberculin Test in Practice)<br><u>Prof. M. M. Mohammadi</u><br><u>Dr. A. Khosravi</u> | EDUW 29<br>Microbiology Quality<br>Control in the Laboratory<br>Quality Management<br>System Based on<br>ISO 15189 and CLSI<br><u>P. Eslami</u><br><u>R. Saboorian</u>                   |
| 10:30-12:30 | Panel 16<br>Diagnosis and Therapy<br>Monitoring in Acute<br>Hematopoietic Neoplasms<br><u>Dr. A. Eghbali</u><br><u>Dr. B. Poopak</u> | Panel 17<br>Clinical Translation<br>of Reproductive<br>Immunology in<br>Laboratory Medicine<br><u>Dr. A. A. Delbandi</u>                                               | Panel 18<br>Immune System<br>Dysregulation in Diseases<br><u>Prof. N. Rezaei</u>                             |                                                                                                              | EDUW 30<br>The Myers-Briggs<br>Type Indicator (MBTI)<br>and its Application in<br>Managing Communication<br>with Medical Laboratory<br>Stakeholders Based on<br>Clauses 5, 6, and 8<br>of ISO 15189:2022<br><u>Dr. M. Javid</u> | EDUW 31<br>How to Manage Patients<br>Suspected to Human<br>Papillomavirus<br>(HPV) Infection in<br>the Molecular Laboratories?<br>Sampling Principles<br><u>Dr. S. M. Jazayeri</u>                                          | EDUW 32<br>Preliminary Quality<br>Control Workshop<br><u>Dr. N. Vazifeh-Shiran</u>                                                                          | EDUW 33<br>NGS-Based Diagnostic<br>Genomics in Liquid Biopsy<br><u>Dr. E. Keramati</u><br><u>Dr. M. Sholeh</u><br>(Mana Tak Co.)                                                               | SYM 3<br>Current Status and<br>Future of EVs as Diagnosis<br>and Prognosis Biomarkers<br><u>Dr. M. Vosough</u><br><u>Dr. J. Rezaei</u><br><u>Dr. S. M. Salehi</u><br><u>Dr. H. Seydi</u> |
| 12:30-14:00 | <b>Lunch</b>                                                                                                                         |                                                                                                                                                                        |                                                                                                              |                                                                                                              |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                                                                |                                                                                                                                                                                          |
| 14:00-16:00 | Panel 19<br>The Role of Medical<br>Laboratories in the<br>Diagnosis and Monitoring<br>of Common Diseases<br><u>Dr. M. Shanaki</u>    | Panel 20<br>Cell Therapy and<br>Gene Therapy:<br>From Laboratory<br>Standards to Clinical Impact<br><u>Prof. A. Haji-Fathali</u><br><u>Prof. H. Abolghasemi</u>        | Panel 21<br>Intelligent Molecular<br>Diagnosis in Cancer<br>and Infectious Diseases<br><u>Dr. E. Maserat</u> |                                                                                                              | EDUW 34<br>Coagulopathies: From<br>Diagnosis to Interpretation<br>and Commenting<br><u>Dr. A. R. Lotfi-Kian</u><br><u>Dr. Sh. Tabibian</u>                                                                                      | EDUW 35<br>The Role of the Laboratory<br>in the Diagnosis of Bleeding<br>Disorders and Quality<br>Control of Molecular<br>Testing and Prenatal Diagnosis<br><u>Dr. A. R. Afrasiabi</u><br><u>Dr. O. Seyedizadeh (Italy)</u> | EDUW 36<br>Advanced Quality<br>Control Workshop<br><u>Dr. N. Vazifeh-Shiran</u>                                                                             | EDUW 37<br>Uncertainty of Quantitative<br>Results Based on ISO 20914<br><u>Dr. H. Bayat</u>                                                                                                    | SYM 4<br>Extracellular Vesicles-Based<br>Therapy: Key Challenges,<br>Limitations, and<br>Future Directions<br><u>Dr. S. Babashah</u><br><u>Dr. Sh. Torabi</u><br><u>Dr. L. Roshangar</u> |

Coffee Break 10:00- 10:30 & 16:00-16:30



## Friday. September 4 ,2026

|             | Hafez Hall                                                                                                     | Sa'adi Hall                                                                                                                                                   | Roudaki Hall                                                                                                                                                             | Room 1                                                                                                         | Room 3                                                                                                                                                 | Room 4                                                                                                                                                  | Room 5                                                                                                                                | Room VIP                                                                                                                         |
|-------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 8:00-10:00  | <b>Panel 22</b><br><b>Microbiomes and Their Impact on Health and Disease</b><br><u>Prof. M. Rahim-Khani</u>    | <b>Panel 23</b><br><b>Geriatric Medicine and the Role of Medical Diagnostic Laboratories in Promoting Healthy Aging in Iran</b><br><u>Dr. S. M. Bolourchi</u> | <b>EDUW 38</b><br><b>Statistical Quality Control Using a Sigma Metric Approach</b><br><u>Dr. M. Jabbari</u>                                                              | <b>EDUW 39</b><br><b>Necessary Steps in the Laboratory to Obtain ISO 15189</b><br><u>Dr. M. Baghbanha</u>      | <b>EDUW 40</b><br><b>Clinical Importance of Accurate Low-Level Measurement of Hormones and Critical Biomarkers</b><br><u>Dr. S. R. Jooya</u>           | <b>EDUW 41</b><br><b>PGTA and ERT in Practice: A Comprehensive Workshop on Personalized IVF</b><br><u>Dr. M. Garshasbi</u><br><u>Dr. S. N. Almadani</u> | <b>EDUW 42</b><br><b>Cell counter QC materials ; Challenges and Solutions</b><br><u>Dr. H. Sojoudi-Moghaddam</u><br><u>A. Amrooni</u> | <b>EDUW 43</b><br><b>The Importance of Micronutrients in Health</b><br><u>Dr. A. R. Absalan</u><br><u>Dr. S. R. Seyedjavadin</u> |
| 10:30-12:30 | <b>Panel 24</b><br><b>Non-Malignant Leukocyte Disorders</b><br><u>Prof. S. Alavi</u><br><u>Dr. S. Hosseini</u> | <b>Panel 25</b><br><b>Selected Articles: Applied Research from the Laboratory to the Clinic</b><br><u>Dr. M. Vanaki</u>                                       | <b>EDUW 44</b><br><b>Artificial Intelligence in Embryology and Andrology: Applications, Methods, and Challenges</b><br><u>Dr. H. Choobineh</u><br><u>Dr. H. Homayoun</u> | <b>EDUW 45</b><br><b>A Review of Blood Cells in Pathologic Conditions</b><br><u>Dr. M. R. Fooladi (Canada)</u> | <b>EDUW 46</b><br><b>Employee Compensation, Benefits, and Labor &amp; Social Security Issues in Clinical Laboratories</b><br><u>Dr. M. Mohammadian</u> | <b>EDUW 47</b><br><b>Management of a Patient with Diabetic Ketoacidosis (DKA)</b><br><u>Dr. S. H. R. Farnoodi</u>                                       | <b>EDUW 48</b><br><b>Antibody and Peptide Bioconjugation: Techniques and Biomedical Applications</b><br><u>Dr. J. Mahmoodian</u>      | <b>EDUW 49</b><br><b>Interference of Abnormal Hemoglobins in HbA1c Measurement</b><br><u>Dr. M. Lakzaei</u>                      |
| 12:30-13:30 | <b>Ceremony Closing</b>                                                                                        |                                                                                                                                                               |                                                                                                                                                                          |                                                                                                                |                                                                                                                                                        |                                                                                                                                                         |                                                                                                                                       |                                                                                                                                  |

Coffee Break 10:00- 10:30



## Future Scientific Outlook: Tuesday, September 1, 2026

Hafez Hall 9:30-10:15

Prof. A. H. Zarnani, DCLS, PhD, Immunology

### Professional Biography:

1<sup>st</sup> place in doctorate degree in laboratory sciences from Shahid Beheshti University of Medical Sciences in 1992, first place in Ph.D. of Immunology from Tarbiat Modares University in 2004, Reproductive Immunology Fellowship from Avicenna Research Institute (ARI) in 2005, winner of the best Ph.D thesis in Basic Medical Sciences in the Razi Festival 2004, winning the title of the country's chosen researcher by the Ministry of Science in 2018, winning prestigious FOCIS and ICI international awards in the immunology congresses of Canada and Japan in 2004 and 2012, winning the book of the year award for authoring a book on reproductive immunology in 2014, selected as the best researcher of Avicenna Research Institute in 2012, selected as the best researcher of Razi Festival in 2014 and collaborator of two selected projects of Razi Festival in 2019, authoring more than 275 articles in prestigious international journals and seven book volumes in the specialized fields of immunology and presenting more than 300 lectures and posters in national and international congresses, registration of more than 10 inventions, selected as the best researcher of Iran University of Medical Sciences in 2008 and 2014, selected as the distinguished laboratory physician by the Islamic Republic of Iran Medical Council, selected as the distinguished laboratory physician by the Iranian Society for Clinical Laboratory in 2024, winning the Royan International Festival award, Awarded by the National Embryology Association and the Yazd Reproductive Medicine Festival, member of the Elite Foundation, scientific secretary of the 8 International Congresses, member of the editorial board of 5 international medical journals, member of several working groups in the Ministry of Health including the Biotechnology Working Group and the research-oriented Ph.D. program, establishment of the country's first reproduction immunology research center in ARI, training more than 100 students in master's degree and Ph.D. in immunology, full professor of Tehran University of Medical Sciences, The former head of the Nano Biotechnology Research Center of ARI, the head of the immunology department of the School of Public Health; Tehran University of Medical Sciences, director of the Reproductive Immunology Research Center and Tissue Engineering department of ARI, establishment of the immunology research center of the Iran University of Medical Sciences in 2007, a member of the laboratory science evaluation committee, a member of the Data and Safety Monitoring Committee (DSMB) of Pastocovac vaccine, launching a knowledge-based manufacturing company with more than 150 high-tech laboratory products.

### Lecture Abstract:

Extracellular vesicles (EVs) are rapidly reshaping the diagnostic paradigm, offering a compelling alternative to conventional tissue biopsies and diagnostic methods through the rise of minimally invasive liquid biopsies. Secreted by nearly every cell type, these vesicles act as sophisticated messengers in intercellular communication, carrying a complex molecular payload comprising proteins, lipids, and various nucleic acids such as mRNA, miRNA, and DNA that closely reflects the biological state of their cells of origin. Their remarkable stability across a range of biofluids, combined with their ready accessibility in circulation, makes them uniquely suited for real-time, repeated monitoring of disease progression. Thanks to recent breakthroughs in isolation techniques, characterization methods, and high-throughput omics technologies, EVs are now being rigorously evaluated as promising tools for assessing biomarkers across a broad spectrum of diseases, with particularly encouraging progress in oncology, neurodegenerative disorders, and cardiovascular medicine. In this presentation, I synthesize the current state of EV-based diagnostics, emphasizing how key technological innovations are bridging the gap between basic biology and clinical application. Indeed, I go on to highlight the distinct advantages that EVs hold over traditional biomarkers to facilitate early detection, sharpen prognostic accuracy, predict therapeutic outcomes, and track recurrence with greater sensitivity. I will argue, EVs are poised to become cornerstones of next-generation precision medicine, fundamentally redefining how we detect, classify, and manage diseases.





## Tuesday's Panels September 1, 2026

### Panel 1

**The Clinical Importance and Application of Accurate Measurement of Low Hormone Levels**

**Coordinator: Dr. H. Bayat**

- |                |                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>20 Min.</b> | <b>Detection Capabilities in the Lower Measurement Range of Analytical Techniques (LOB, LOD, LOQ)</b><br>Dr. H. Bayat |
| <b>25 Min.</b> | <b>Clinical Importance and Application of Accurate Measurement of Low TSH Levels</b><br>Dr. A. R. Korourian           |
| <b>25 Min.</b> | <b>Clinical Importance and Application of Low-Level Steroid Hormone Measurements</b><br>Dr. A. Sadeghi-Tabar          |
| <b>25 Min.</b> | <b>Evaluation of the Performance of Various Techniques for Measuring Low Hormone Levels</b><br>Dr. M. Dolatkhah       |
| <b>15 Min.</b> | <b>Discussion and Conclusion</b>                                                                                      |

**Tuesday, September 1, 2026    Hafez Hall    14:00-16:00**

### Panel 2

**Diagnostic Methods of Prevalent Parasitic Diseases in Iran**

**Coordinator: Prof. M. Mohebbali**

- |                |                                                                                                                              |
|----------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>25 Min.</b> | <b>Clinical Manifestations of Human Leishmaniasis<br/>Diagnostic Laboratory Methods and Challenges</b><br>Prof. M. Mohebbali |
| <b>25 Min.</b> | <b>Diagnostic Methods of Human Intestinal Coccidiosis</b><br>Prof. A. Haghighi                                               |
| <b>25 Min.</b> | <b>New Methods for the Diagnosis of Human Cystic Echinococcosis</b><br>Prof. M. Fasihi-Harandi                               |
| <b>25 Min.</b> | <b>Novel Laboratory Diagnostic Methods for Human Parasitic Infections</b><br>Dr. B. Nik-Manesh                               |
| <b>20 Min.</b> | <b>Discussion and Conclusion</b>                                                                                             |

**Tuesday, September 1, 2026    Sa'adi Hall    14:00-16:00**



**Panel 3****Coagulation Disorders & Thrombosis****Coordinators: Prof. P. Eshghi- Dr. M. Shahbazi**

- 20 Min.**      **Immunofluorescence and Light Microscopy of Blood Smears in the Diagnosis of Inherited Platelet Disorders**  
Dr. M. Shahbazi
- 20 Min.**      **Diagnostic Algorithms and Laboratory Testing in Thromboembolism**  
Dr. Gh. R. Toogeh
- 20 Min.**      **Laboratory Diagnostic Panel for Heparin-Induced Thrombocytopenia (HIT)**  
Dr. M. Shahbazi
- 20 Min.**      **Anticoagulant Drugs: Laboratory Monitoring and Therapeutic Control**  
Prof. P. Eshghi
- 40 Min.**      **Discussion and Conclusion**

**Tuesday. September 1, 2026    Roudaki Hall    14:00-16:00**



## Wednesday's Panels & Symposiums September 2, 2026

### Panel 4

**The Role of Medical Laboratories in Screening and Diagnosing Diseases in Newborns**

**Coordinator:** Dr. M. R. Mahdavi-Amiri

**20 Min. Important Points About Screening and Specialized Tests for Metabolic Diseases in Newborns**

Dr. M. R. Mahdavi-Amiri

**20 Min. Newborn Screening: Significance and Challenges of Early Detection of Genetic, Metabolic, and Immunological Diseases and its Impact on the Future of Healthcare Systems**

Prof. A. R. Ranjbar (Germany)

**20 Min. Newborn Screening for Severe Combined Immunodeficiency Using TREC Assay: Opportunities and Challenges for Laboratory Implementation**

Dr. Z. Chavoshzadeh

**20 Min. Genetic Screening Methods in Newborn Screening of Inherited Metabolic Disorders: Current Guidelines and Emerging Directions**

Dr. S. Talebi

**40 Min. Discussion and Conclusion**

**Wednesday, September 2, 2026    Hafez Hall    8:00-10:00**

### Panel 5

**Quality Improvement in the Clinical Biochemistry Department of the Laboratory**

**Coordinator:** Prof. Kh. Adeli (Canada)

**25 Min. Future Visions of External Quality Assurance and Quality Control – Integrate IQC and EQA**

Dr. T. Badrick (Australia)

**25 Min. Challenges in Standardization and IQC & EQC of Urinary and Blood Biomarkers**

Prof. Kh. Adeli (Canada)

**25 Min. Pre and Post-analytical Challenges in Clinical Laboratories and Standardization Strategies**

Dr. P. Kumar-Dabla (India)

**25 Min. Continuous Education and Development of Technical Skills in Medical Laboratories**

Dr. J. A. Tesser- Poloni (Brazil)

**20 Min. Discussion and Conclusion**

**Wednesday, September 2, 2026    Sa'adi Hall    8:00-10:00**



**Panel 6****The Role of the Laboratory in Diagnosing Myocardial Infarctions****Coordinator: Dr. R. Mohammadi**

- 20 Min.**      **Guidelines for Diagnosis of Myocardial Infarction**  
Dr. Z. Jozani-Kohan
- 20 Min.**      **Challenges in Interpretation of Serum Troponin Results in the Diagnosis of Myocardial Infarction**  
Dr. R. Mohammadi
- 20 Min.**      **The Evolution of Cardiac Troponin Assays and the Pivotal Role of High-Sensitivity Methods (hs-cTn)**  
Dr. M. Gholamzad
- 20 Min.**      **Novel Biomarkers in the Diagnosis and Evaluation of Acute Myocardial Infarction (AMI)**  
Dr. M. Sh. Norouzi
- 30 Min.**      **Discussion and Conclusion**

**Wednesday. September 2, 2026    Roudaki Hall    8:00-10:00****Panel 7****Molecular and Epigenetic Biomarkers in Allergic Disease****Coordinator: Prof. A. R. Ranjbar (Germany)**

- 20 Min.**      **Molecular and Epigenetic Biomarkers in Allergic Diseases: An overview of Current Insights and Future Directions**  
Prof. A. R. Ranjbar (Germany)
- 20 Min.**      **Foundations of the Allergic Epigenome: How Environment Rewires Gene Expression**  
Dr. M. Asgharian
- 20 Min.**      **Novel Approaches for Diagnosis of Allergic Diseases**  
Dr. M. Ahmadi
- 20 Min.**      **The Microbiome as a Diagnostic Tool: From Gut to Skin in Allergic Disease**  
Prof. P. Mansouri
- 20 Min.**      **The Power of Data Integration: Building Multi-Omics Diagnostic Models for Allergic Diseases**  
Prof. F. Nourbakhsh
- 20 Min.**      **Discussion and Conclusion**

**Wednesday. September 2, 2026    Hafez Hall    10:30-12:30**



**Panel 8****Optimizing Laboratory Test Selection Through Evidence-Based Laboratory Medicine****Coordinator:** Dr. A. R. Lotfi-kian

- 25 Min.**      **Scientific Principles for Managing Laboratory Test Requests**  
Dr. J. Rasti-Ardakani
- 25 Min.**      **Evidence- and Clinically-Based Optimization of Laboratory Test Requests**  
Dr. A. R. Lotfi-kian
- 25 Min.**      **Threats and Opportunities for Medical Laboratories in the Context of Rational Test Ordering**  
Dr. M. Vanaki
- 25 Min.**      **Formulation of Diagnostic Guidelines and the Role of Laboratories in Integrated Laboratory–Clinical Care Pathways**  
Dr. B. Bolboli
- 20. Min.**      **Discussion and Conclusion**

**Wednesday, September 2, 2026    Sa'adi Hall    10:30-12:30****Panel 9****Artificial Intelligence in Laboratory Medicine: From Algorithms to Clinical Trust****Coordinator:** Dr. M. R. Bakhtiari

- 30 Min.**      **The Future of Medical Lab Results Interpretation: The Role of Artificial Intelligence in Clinical Decision-Making**  
Dr. M. R. Bakhtiari
- 20 Min.**      **Artificial Intelligence for Predicting and Monitoring Immune Response to HPV Vaccination**  
Dr. A. Daemi (Türkiye)
- 20 Min.**      **Deep Learning Algorithms for the Detection of Abnormal Blood Cells**  
Dr. A. Jodeiri
- 20 Min.**      **Legal, Ethical, and Standardization Challenges in Implementing Artificial Intelligence in the Medical Laboratory**  
Prof. H. R. Rabiee
- 30. Min.**      **Discussion and Conclusion**

**Wednesday, September 2, 2026    Roudaki Hall    10:30-12:30**



**Panel 10**

**The Impact of Laboratory Accreditation on the International Credibility and Acceptance of Laboratory Results.**

**Coordinators: Dr. A. Shirin- Dr. Sh. Hemmati**

**20 Min. A Structured Model for Ensuring the Quality of Laboratory Results and Reporting Processes to Meet 15189:2022 Requirements**

Dr. J. Ghanbili

**20 Min. The Role of Accreditation on the International Acceptance of Results from Accredited Laboratories**

Dr. M. Sahlolbei

**25 Min. Elucidating the Global Health Vision and the Role of Laboratories**

Dr. M. Barak (Tunisia)

**25 Min. Linking Laboratory Accreditation to Measurable Clinical Outcomes**

Dr. V. Pant (Nepal)

**30. Min. Discussion and Conclusion**

**Wednesday. September 2, 2026 Hafez Hall 14:00-16:00**

**Panel 11**

**Laboratory Economics in Normal and Crisis Conditions**

**Coordinators: Prof. A. R. Oliyaei-Manesh- Prof. A. Akbari-Sari - Dr. Gh. R. Hamzehlou**

**25 Min. Balancing Quality and Cost in Health Services: The Role of the Supreme Health Insurance Council in Determining Laboratory Economic Approaches**

S. Ma'navi

**20 Min. Cost-Benefit Analysis in Medical Laboratories**

Prof. M. Barouni

**20 Min. The Impact of Digital Transformation and New Technologies (Artificial Intelligence, Automation, Data Integration) on Improving the Economic Resilience of Laboratories**

Dr. S. R. Mazhari

**25 Min. The Role of Scientific Associations of Iranian Medical Diagnostic Laboratories in Improving Budgeting, Tariff Setting, Quality, and Access to Enhanced Services in Normal and Crisis Conditions**

Dr. Gh. R. Hamzehlou

**30. Min. Discussion and Conclusion**

**Wednesday. September 2, 2026 Sa'adi Hall 14:00-16:00**



**Panel 12****Phylogenetic Studies of Viruses and Recent Advances in Virology****Coordinator: Dr. S. Soltani**

- 30 Min.**      **The Development and Validation of Novel Molecular Methods (NGS, CRISPR, LAMP, Multiplex PCR, and Real-Time PCR) for the Diagnosis and Monitoring of Viral Infections**  
Dr. S. Soltani
- 20 Min.**      **Evaluation and Monitoring of Opportunistic Viral Infections in Transplant Patient Cohorts (BK Virus, EBV, CMV)**  
Dr. S. H. R. Mozhgani
- 20 Min.**      **Development of Rapid Diagnostic Technologies and Nanosensors in the Form of Rapid Test Kits**  
Dr. A. R. Tabibzadeh
- 20 Min.**      **Diagnostic Virology in the Post-Pandemic Era**  
Dr. A. Zebardast
- 30. Min.**      **Discussion and Conclusion**

**Wednesday. September 2, 2026    Roudaki Hall    14:00-16:00**



**Symposium 1****A Critical Comparison of EV Isolation and Characterization Techniques****Coordinator: Dr. R. Ramezani**

**35 Min.      Methods for Purification and Characterization of Extracellular Vesicles Based on MISEV Guidelines**  
Dr. F. Shekari (Canada)

**35 Min.      Introduction to Novel Methods for Isolation and Purification of Extracellular Vesicles from Clinical Samples**  
Dr. H. Ghanbarian

**35 Min.      Challenges in Extracellular Vesicle Purification and Characterization Based on its Protein Corona Structure**  
Dr. R. Ramezani

**15. Min.      Discussion and Conclusion**

**Wednesday, September 2, 2026    VIP Hall    10:30-12:30**

**Symposium 2****EVs Engineering for Therapeutic Delivery and Clinical Applications****Coordinator: Prof. S. Rafati**

**25 Min.      Extracellular Vesicles Derived from Regulatory Immune Cells in the Treatment of Autoimmune and Inflammatory Diseases**

Dr. S. M. Masiha-Hashemi

**25 Min.      Extracellular vesicles as Promising Theranostic and Delivery Platform in Cardiovascular Diseases**  
Dr. R. Rahbarghazi

**25 Min.      Extracellular Vesicles Engineering and its Application in Vaccine Development Against Leishmaniasis**  
Dr. T. Taheri

**25 Min.      Post-Purification Engineering of Extracellular Vesicles for Therapeutic Applications**  
Dr. M. Le (Singapore)

**20. Min.      Discussion and Conclusion**

**Wednesday, September 2, 2026    VIP Hall    14:00-16:00**



## Thursday's Panels & Symposiums September 3, 2026 Panel 13

**Challenges in Immunohematology**  
**Coordinator: Prof. A. Gharehbaghian**

- 25 Min.      Rare Blood Groups and their Challenges**  
Prof. A. Gharehbaghian
- 25 Min.      Immunohematology Challenges in Multi Transfused Patients**  
Dr. F. Mohammad-Ali
- 20 Min.      Laboratory Challenges of Autoantibodies in Immunohematology**  
Dr. A. Oodi
- 20 Min.      Patient Blood Management in Elective Surgery**  
Dr. A. Chegini
- 30 Min.      Discussion and Conclusion**

**Thursday. September 3, 2026    Hafez Hall    8:00-10:00**

## Panel 14

**Modern Challenges in Platelets Disorders: Laboratory Diagnosis & Therapeutic Strategies**

**Coordinators: Prof. M. Faranoush- Prof. M. Hamidpour**

- 20 Min.      Hereditary Platelet Disorders: Laboratory Diagnostic Algorithms and Principles of Management**  
Prof. M. Faranoush
- 30 Min.      Platelet Exhaustion in Immune Thrombocytopenia: Interpretation of Laboratory Findings and Clinical Impact**  
Prof. M. Ghasemzadeh
- 20 Min.      Antiplatelet Drugs: Principles of Laboratory Monitoring and Clinical Application**  
Dr. N. Vazifeh-Shiran
- 25 Min.      Modern Platelet Function Testing: Advantage, Limitation and Clinical Utility**  
Prof. Sh. Alizadeh
- 25 Min.      Discussion and Conclusion**

**Thursday. September 3, 2026    Sa'adi Hall    8:00-10:00**



**Panel 15****Abnormal Hemoglobin Syndromes****Coordinators:** Prof. A. Azar-Keivan- Prof. H. Najm-Abadi

- 20 Min.**      **From Clinical Assessment and Complete Blood Count to Molecular Diagnosis of Thalassemia and Hemoglobinopathies**  
Dr. Gh. R. Bahoush
- 20 Min.**      **The Role of Clinical Laboratories in National Screening Programs for Abnormal Hemoglobin Syndromes and Prenatal Diagnosis**  
Prof. H. Najm-Abadi
- 20 Min.**      **Differential Diagnosis of Thalassemia and Iron Deficiency Anemia: From Clinical Evaluation to Specialized Laboratory Tests**  
Dr. M. Ajami
- 20 Min.**      **Case Report & Role of Blood Transfusion in Abnormal Hemoglobin Syndromes**  
Prof. A. Azar-Keivan
- 40 Min.**      **Discussion and Conclusion**

**Thursday, September 3, 2026    Roudaki Hall    8:00-10:00****Panel 16****Diagnosis and Therapy Monitoring in Acute Hematopoietic Neoplasms****Coordinators:** Dr. A. Eghbali- Dr. B. Poopak

- 20 Min.**      **From Bedside and CBC to the Molecular Diagnosis of Acute Leukemias**  
Dr. A. Eghbali
- 20 Min.**      **Diagnosis and Classification of Acute Leukemias and Their Challenges**  
Dr. D. Bashash
- 20 Min.**      **Monitoring Treatment Response or Measurable Residual Disease(MRD) in Acute Leukemias**  
Dr. B. Poopak
- 20 Min.**      **Standardization of Hematology Reports in Acute Leukemias for Therapeutic Decision-Making**  
Dr. M. H. Mohammadi
- 20 Min.**      **Review of Some Challenging Hematologic Neoplasm**  
Dr. M. Pourabdollah (Canada)
- 20 Min.**      **Discussion and Conclusion**

**Thursday, September 3, 2026    Hafez Hall    10:30-12:30**



**Panel 17****Clinical Translation of Reproductive Immunology in Laboratory Medicine****Coordinator:** Dr. A. A. Delbandi

- 20 Min.**      **How is the Immune System Linked to the Reproductive Failure?**  
Dr. A. A. Delbandi
- 20 Min.**      **Immunodiagnostic Evaluation in Women with Reproductive Failure**  
Dr. M. Tavakkoli
- 20 Min.**      **The Male Contribution to Infertility: A Look Beyond Conventional Parameters**  
Prof. M. A. Sadighi-Gilani
- 20 Min.**      **Artificial Intelligence: A Revolution in the Diagnosis and Treatment of Infertility**  
Dr. M. Sabbaghian
- 40 Min.**      **Discussion and Conclusion**

**Thursday. September 3, 2026    Sa'adi Hall    10:30-12:30****Panel 18****Immune System Dysregulation in Diseases****Coordinator:** Prof. N. Rezaei

- 30 Min.**      **Diagnostic Approaches to Inborn Errors of Immunity (IEI)**  
Prof. N. Rezaei
- 20 Min.**      **Laboratory Evaluation of Autoimmune Rheumatic Diseases**  
Prof. F. Nourbakhsh
- 20 Min.**      **Autoinflammatory Disorders: Current Concepts in Diagnosis and Precision Treatment**  
Dr. M. Movahhedi
- 20 Min.**      **Microbiome Analysis and its Impact on Immune-Mediated Diseases**  
Dr. F. Sabzehei
- 40 Min.**      **Discussion and Conclusion**

**Thursday. September 3, 2026    Roudaki Hall    10:30-12:30**



**Panel 19****The Role of Medical Laboratories in the Diagnosis and Monitoring of Common Diseases****Coordinator: Dr. M. Shanaki**

- 20 Min.**      **Diagnosis and Monitoring of Metabolic Dysfunction Associated Steatotic Liver Disease (MASLD)**  
Dr. M. Shanaki
- 20 Min.**      **Cardiac Biomarkers and Management of Heart Failure**  
Dr. S. Ahmadi-Renani
- 30 Min.**      **Analytical Challenges and Advances in Laboratory Assessment of Thyroid Disorders: The Evolving Role of the Clinical Laboratory Specialist**  
Dr. S. Gorgani-Firouzjaee
- 20 Min.**      **Key Biomarkers in Diabetes and Diabetic Nephropathy: Applications and Limitations**  
Dr. L. Mahmoudieh
- 30 Min.**      **Discussion and Conclusion**

**Thursday, September 3, 2026    Hafez Hall    14:00-16:00****Panel 20****Cell Therapy and Gene Therapy: From Laboratory Standards to Clinical Impact****Coordinators: Prof. A. Haji-Fathali- Prof. H. Abolghasemi**

- 20 Min.**      **Predictive Biomarkers of Drug Resistance in Immunotherapy and Targeted Therapies**  
Dr. S. Parkhideh
- 20 Min.**      **Immune Monitoring of Patients Undergoing Cellular Therapies: The Role of the Laboratory in Early Detection of Adverse Effects and Decline in Therapeutic Efficacy**  
Dr. A. Kazemi-Zahrani
- 20 Min.**      **Positioning and its Importance in Specialized cell Therapy Laboratories**  
Dr. E. Roshandel
- 20 Min.**      **Laboratory Technologies: Advancements of Next-Generation Technologies in Diagnosis, Monitoring, and Clinical Decision Support**  
Dr. S. Mohammadi
- 40 Min.**      **Discussion and Conclusion**

**Thursday, September 3, 2026    Sa'adi Hall    14:00-16:00**



## Panel 21

### Intelligent Molecular Diagnosis in Cancer and Infectious Diseases

Coordinator: Dr. E. Maserat

- |                |                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>25 Min.</b> | <b>Artificial Intelligence from Data to Data-Driven Medical Decisions in Future Laboratories</b><br>Dr. E. Maserat                                                 |
| <b>25 Min.</b> | <b>Artificial Intelligence for Disease Trajectory Prediction Using Multimodal Data</b><br>Dr. F. Rahimi                                                            |
| <b>20 Min.</b> | <b>Precision Medicine in Oncology: A Comprehensive Review on Integrating Molecular and Clinical Data for Enhanced Therapeutic Decision-Making</b><br>Dr. R. Rahimi |
| <b>20 Min.</b> | <b>Artificial Intelligence Role in Molecular Diagnosis</b><br>Dr. S. M. Ayyoubzadeh                                                                                |
| <b>30 Min.</b> | <b>Discussion and Conclusion</b>                                                                                                                                   |

Thursday, September 3, 2026   Roudaki Hall   14:00-16:00



**Symposium 3****Current Status and Future of EVs as Diagnosis and Prognosis Biomarkers****Coordinator: Dr. M. Vosough**

- 25 Min.**      **Extracellular Vesicles: A New Frontier for the Diagnosis of Autoimmune Diseases**  
Dr. M. Vosough
- 25 Min.**      **Extracellular Vesicles as Potential Biomarkers in Cancer**  
Dr. J. Rezaei
- 25 Min.**      **From Bench to Bedside: The Translation of Extracellular Vesicle-Based Diagnostic Assays**  
Dr. S. M. Salehi
- 25 Min.**      **Diagnostic Applications of Extracellular Vesicles with a Focus on Neurodegenerative Diseases**  
Dr. H. Seydi
- 20 Min.**      **Discussion and Conclusion**

**Thursday. September 3, 2026    VIP Hall    10:30-12:30.****Symposium 4****Extracellular Vesicles-Based Therapy: Key Challenges, Limitations, and Future Directions****Coordinator: Dr. Sh. Torabi**

- 35 Min.**      **Stromal-Immune Crosstalk in Breast Cancer: The Significance of Extracellular Vesicles as a Novel Therapeutic Target**  
Dr. S. Babashah
- 35 Min.**      **Source-Dependent Therapeutic Potential of Extracellular Vesicles**  
Dr. Sh. Torabi
- 35 Min.**      **Current Challenges and Translational Barriers in Extracellular Vesicles-Based Therapeutics**  
Dr. L. Roshangar
- 15 Min.**      **Discussion and Conclusion**

**Thursday. September 3, 2026    VIP Hall    14:00-16:00**



**Friday's Panels**  
**September 4, 2026**  
**Panel 22**

**Microbiomes and Their Impact on Health and Disease**

**Coordinator: Prof. M. Rahim-Khani**

- |                |                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>25 Min.</b> | <b>Future of Microbiome - Based Prevention and Treatment</b><br>Dr. S. M. Boutorabi                                                         |
| <b>25 Min.</b> | <b>Understanding the Types of Microbiomes and Their Impact on the Immune System and Physiological Function</b><br>Dr. M. Navidinia          |
| <b>20 Min.</b> | <b>Gut Microbiota and Chronic, Metabolic and Mental Disorders</b><br>Prof. M. Rahimkhani                                                    |
| <b>20 Min.</b> | <b>Novel Therapies Such as Fecal Microbiota Transplantation (FMT) and Microbiome-Based Approaches in Disease Treatment</b><br>Dr. Z. Rajabi |
| <b>30 Min.</b> | <b>Discussion and Conclusion</b>                                                                                                            |

**Friday. September 4, 2026    Hafez Hall    8:00-10:00**

**Panel 23**

**Geriatric Medicine and the Role of Medical Diagnostic Laboratories in Promoting Healthy Aging in Iran**

**Coordinator: Dr. S. M. Bolourchi**

- |                |                                                                                                                           |
|----------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>20 Min.</b> | <b>Elderly Health in Iran; Challenges and Strategies</b><br>Prof. R. Saeedi                                               |
| <b>30 Min.</b> | <b>From Diagnosis to Prevention: The Evolving Role of Laboratories in Addressing the Aging Crisis</b><br>Dr. A. Delbari   |
| <b>20 Min.</b> | <b>Frailty Index Derived from Laboratory Data: A Tool to Evaluate its Impact on Health Outcomes</b><br>Dr. S. Saeedi-Mehr |
| <b>20 Min.</b> | <b>Biomarkers in Neurodegenerative Disorders</b><br>Dr. M. Nik-Solat                                                      |
| <b>30 Min.</b> | <b>Discussion and Conclusion</b>                                                                                          |

**Friday. September 4, 2026    Sa'adi Hall    8:00-10:00**



**Panel 24****Non-Malignant Leukocyte Disorders****Coordinators: Prof. S. Alavi- Dr. S. Hosseini**

- 20 Min.      Classification and Clinical Manifestations of Non-Malignant White Blood Cell Disorders**  
Prof. S. Alavi
- 20 Min.      Laboratory Diagnosis of Inherited Non-Malignant White Blood Cell Disorders: From Clinic and Morphology to Novel Tests**  
Dr. S. Hosseini
- 20 Min.      Acquired Changes in White Blood Cells: Implications for Diagnosis and Therapy Monitoring**  
Dr. M. Ajami
- 20 Min.      Advanced Laboratory Tests in Non-Malignant White Blood Cell Changes**  
Dr. M. Ghorbani
- 40 Min.      Discussion and Conclusion**

**Friday. September 4, 2026    Hafez Hall    10:30-12:30**



**Panel 25****Selected Articles: Applied Research from the Laboratory to the Clinic****Coordinator: Dr. M. Vanaki**

- 20 Min.      Designing an X-ray Irradiation System for Platelet Products Using a Linear Accelerator Device**  
Prof. E. S. Hosseini
- 20 Min.      The Role of Artificial Intelligence Agents in Next-Generation Medical Laboratories and Quality Assurance**  
Dr. M. Vanaki
- 20 Min.      Prevalence of Weak D Phenotype in Iranian Blood Donors: Manual and Automated Serologic Approaches**  
Mr. Y. Sadeghi-Bojd
- 20 Min.      Feasibility and Performance Evaluation of Artificial Intelligence–Based Patient Real-Time Quality Control (AI-PBRTQC) in a Resource-Limited Clinical    Laboratory: A Prospective Implementation Study from a Developing Country**  
Dr. H. Babaei
- 20 Min.      Advancements in Diagnosis of Cutaneous Leishmaniasis: from Microscopy to Molecular tools**  
Dr. Y. Taslimi
- 20 Min.      Discussion and Conclusion**

**Friday, September 4, 2026    Sa'adi Hall    10:30-12:30**





| Associates of the Executive Committees of the Congress |
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| H. Maleki                                              |
| A. Motevalli                                           |
| M. Moradi                                              |
| A. Moghaddami                                          |
| Eng. N. Molla-Mohammad                                 |
| Dr. A. Maleki                                          |
| Dr. K. Mohajerani                                      |
| Eng. F. Nasri                                          |
| R. Nikpour                                             |
| Dr. F. Vazirian                                        |



| Poster Presentation Schedule<br>Tuesday, 1 September, 2026 |                             |             |                                                                                                                                                                                                                                          |
|------------------------------------------------------------|-----------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                        | Presenter                   | Time        | Article Title                                                                                                                                                                                                                            |
| 1                                                          | Fatemeh Fakhar              | 09:00-09:30 | Integrating Platelet-Mimicking Nanoparticles and Advanced Molecular Diagnostics for Precision Management of Inherited and Acquired Platelet Disorders                                                                                    |
| 2                                                          | Atefeh Bahmei               | 09:00-09:30 | Deciphering Landscapes of Platelet Functions via Up-to-Dated Technologies in Hematology Laboratory                                                                                                                                       |
| 3                                                          | Amir Abbas Ghahramani       | 09:00-09:30 | Comparative study of platelet reduction and its relationship with microorganism found in the blood of patients admitted to the ICU department of Besat Hospital in hamadan in 2023                                                       |
| 4                                                          | Fatemeh Shajari             | 09:00-09:30 | Glycoprotein VI Deficiency: A First Iranian Case Series of Two Patients                                                                                                                                                                  |
| 5                                                          | Dr Kazem Ghaffari           | 09:00-09:30 | Impact of TauroLock™-HEP500 versus unfractionated heparin for prevention of catheter complications in children with malignancy: a prospective, randomized, controlled study                                                              |
| 6                                                          | Zahra Taghinejad            | 09:00-09:30 | Evidence-based Correction of Coagulopathy as a vital pillar of Patient Blood Management in Critical Bleeding                                                                                                                             |
| 7                                                          | Mehrnaz Gol Mohammadi       | 09:30-10:00 | A Comparative Study on the Effect of Temperature Changes on the Storage of Platelet Concentrates                                                                                                                                         |
| 8                                                          | Fatemeh Jangi Gharch Shiran | 09:30-10:00 | Assessment of Venous Thromboembolism Prevention Practices in Hospitals of Tehran: From Guidelines to Implementation                                                                                                                      |
| 9                                                          | Yashar Shiri                | 09:30-10:00 | Investigation of the relationship between the expression of pro-apoptotic genes (BAK, BAX) and the viability of platelet concentrate (PC) during storage                                                                                 |
| 10                                                         | Mohammad Reza Jafar Pouri   | 09:30-10:00 | Investigation of the relationship between the expression of pro-inflammatory cytokine genes (TNF, IL-6, IL-8) and the viability of platelet concentrate (PC) during storage                                                              |
| 11                                                         | Mehrnaz Gol Mohammadi       | 09:30-10:00 | Evaluation of Mitochondrial DNA levels in Red Blood cell bags and their correlation with expiration                                                                                                                                      |
| 12                                                         | Amir Hossein Alizadeh       | 09:30-10:00 | Heparin-induced thrombocytopenia and its correlation with clinical outcome in patients admitted to Hamedan Besat hospital in 2023                                                                                                        |
| 13                                                         | Seyed Mehrab Safdari        | 10:00-10:30 | Factor VII Padua Variant: A Comprehensive Systematic Review of Reported Cases, Diagnostic Approaches, Clinical Presentations, and Treatment Considerations                                                                               |
| 14                                                         | Laleh Khakzad               | 10:00-10:30 | Diagnostic Value of Normal or Near-Normal Factor VIII Levels in Excluding Bleeding Disorders                                                                                                                                             |
| 15                                                         | Yasamin Mohamadparast       | 10:00-10:30 | Hemophilia A and Mim8 in Prophylactic Treatment                                                                                                                                                                                          |
| 16                                                         | Dr Alireza Pourreza         | 10:00-10:30 | Pharmacokinetics of Levothyroxine and Antithyroid Drugs :Absorption Challenges, Immunoassay Interferences, Epitope/Paratope Variability Across Assay Generations, and Interpretation of Thyroid Function Tests – A Comprehensive Review. |

| Poster Presentation Schedule<br>Tuesday, 1 September, 2026 |                           |             |                                                                                                                                                                           |
|------------------------------------------------------------|---------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                        | Presenter                 | Time        | Article Title                                                                                                                                                             |
| 17                                                         | Saeideh Sadeghi Neshat    | 10:00-10:30 | Green Synthesis of Copper Oxide Nanoparticles Using Pomegranate Peel Extract and Their Application as a Sensor for Ascorbic Acid Detection                                |
| 18                                                         | Pejman Zohrehvand         | 10:00-10:30 | Prevalence and Some Associated Risk Factors of Oral Cavity Protozoa Among Autoimmune Disease Patients with Oral Lesions in Kashan, Iran <sup>۲۰۲۳</sup> ,                 |
| 19                                                         | Dr Mohammad Taghi Ahady   | 10:30-11:00 | Nanotechnology in Diagnosis of Cryptosporidiosis: Improving the Quality of Laboratory Services in Rural Communities in Iran                                               |
| 20                                                         | Mahnaz Jafari             | 10:30-11:00 | In Vitro Evaluation of Apigenin-Coated Silver Nanoparticles Against Trichomonas vaginalis: A Potential Alternative to Metronidazole                                       |
| 21                                                         | Prof Sharif Maraghi       | 10:30-11:00 | Ectopic demodicosis: case series                                                                                                                                          |
| 22                                                         | Dr Mohammad Barati        | 10:30-11:00 | Investigation of the Expression Levels of miR-155, miR-133a, and miR-146b in the Serum of Acute and Chronic Forms of Cutaneous Leishmaniasis                              |
| 23                                                         | Maryam Pourzand Khanooki  | 10:30-11:00 | Modeling the impact of climate change on cutaneous leishmaniasis using artificial neural networks                                                                         |
| 24                                                         | Dr Ali Noroozi Aghideh    | 10:30-11:00 | Walking Blood Bank System for Mass Casualty management in War and Disasters                                                                                               |
| 25                                                         | Mehrab Rajabi Dizaj       | 11:00-11:30 | The Role of Digital Financial Innovation in Enhancing Efficiency, Transparency, and Economic Sustainability in Medical Diagnostic Laboratories                            |
| 26                                                         | Dr Asieh Emami Nejad      | 11:00-11:30 | Management of Laboratory Interferences in Immunoassays: A Systematic Review Focusing on Macroprolactin and Macro-TSH                                                      |
| 27                                                         | Atefeh Eivazi             | 11:00-11:30 | Association of Rs7217186 Polymorphism of Arachidonic Acid 15-Lipoxygenase) ALOX15 (Gene with Susceptibility to Allergic Rhinitis                                          |
| 28                                                         | Mohammad Sharif Sharifani | 11:00-11:30 | The Epigenetic Code of Allergy: A Systematic Review of DNA Methylation and Non-Coding RNAs in Immune Dysregulation                                                        |
| 29                                                         | Dr Maryam Ashourpour      | 11:00-11:30 | Title: CXCL10 as a Key Biomarker in Systemic Lupus Erythematosus) SLE(                                                                                                    |
| 30                                                         | Maryam Daneshi            | 11:00-11:30 | Acute Leukemia of Ambiguous Lineage: Immunophenotypic Characterization of a Mixed Phenotype Acute Leukemia Case                                                           |
| 31                                                         | Fatemeh Mosafa Jahromi    | 11:30-12:00 | Some virulence genes are associated with antibiotic susceptibility in Enterobacter cloacae complex                                                                        |
| 32                                                         | Nilofar Faraji            | 11:30-12:00 | Upregulation of CASP8 Expression and Caspase-3 Activation Induced by Glucose- and Menthol-Conjugated Cobalt Oxide Nanoparticles in the SW480 Human Colon Cancer Cell Line |



| Poster Presentation Schedule<br>Tuesday, 1 September, 2026 |                               |             |                                                                                                                                                                                                               |
|------------------------------------------------------------|-------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                        | Presenter                     | Time        | Article Title                                                                                                                                                                                                 |
| 33                                                         | Shirin Shokouhi pour          | 11:30-12:00 | A quantitative comparative study of the expression of genes encoding paraoxonase-1 and spermine oxidase enzymes in the first and second stages of breast cancer in clinical samples of the Iranian population |
| 34                                                         | Ali Reyhani                   | 11:30-12:00 | Urinary Extracellular Vesicle miR-126: A Promising Early Biomarker for Diabetic Nephropathy in Type 2 Diabetes                                                                                                |
| 35                                                         | Dr Ehsan Kakavandi            | 11:30-12:00 | Droplet Digital PCR as a Novel Tool for Infectious Agent Detection                                                                                                                                            |
| 36                                                         | Ali Reyhani                   | 11:30-12:00 | Plasma Exosomal miR-21, miR-155 and miR-122 as an Integrated Smart Panel for Non-Invasive Discrimination of Hepatocellular Carcinoma from Cirrhosis                                                           |
| 37                                                         | Banfsheh Safizad Khanvaneh    | 12:00-12:30 | Title: Aptamer-Functionalized Magnetic Beads for Selective Isolation of Circulating Tumor Cells in Lung Cancer                                                                                                |
| 38                                                         | Homa Sadat Farzaneh           | 12:00-12:30 | Impact of Oxygen Tension on Stem Cell-Derived Extracellular Vesicles: A Systematic Review of Quantity, Cargo, and Angiogenic Pathway Modulation                                                               |
| 39                                                         | Afsaneh Bazgir                | 12:00-12:30 | Transcript-Dependent Post-Transcriptional Regulation of RHOA in Breast Cancer                                                                                                                                 |
| 40                                                         | Ali Karami                    | 12:00-12:30 | The IGF-I/IGF-1R Axis in Peripheral Blood Mononuclear Cells and Serum: Diagnostic, Prognostic, and Therapeutic Significance in Lung Cancer                                                                    |
| 41                                                         | Zahra Zafari                  | 12:00-12:30 | BMI-1 Gene Expression in Patients with Acute and Chronic Myeloid Leukemia in the Northeast of Iran                                                                                                            |
| 42                                                         | Dr Mohammad Jafari            | 12:00-12:30 | Diagnostic Performance of Multiplex PCR versus Culture for Rapid Identification of Common Gram-Negative Uropathogens in Urine Samples                                                                         |
| 43                                                         | Mohammad Amin Vaezi           | 13:30-14:00 | Evaluating the local gene and protein expression of matrix metalloproteinase-9 in osteosarcoma patients and its association with clinicopathologic features                                                   |
| 44                                                         | Erfan Golestannejad           | 13:30-14:00 | Downregulated extracellular matrix-associated CILP and MFAP4 genes reveal link to prognostic value in colorectal cancer                                                                                       |
| 45                                                         | Hamed Irandoost               | 13:30-14:00 | Antisense oligonucleotides: targeting oncogenic long non-coding RNAs for cancer therapy                                                                                                                       |
| 46                                                         | Yasaman Baghi                 | 13:30-14:00 | Improving the Quality of Molecular Diagnosis of Antibiotic Resistance Using Bacterial membrane vesicles, CRISPR, and Metagenomics                                                                             |
| 47                                                         | Dr Shahrbanoo Nandoust Kenari | 13:30-14:00 | Study of the prevalence of human papillomavirus in samples of symptomatic patients referred to private laboratories affiliated with Mazandaran University of Medical Sciences in 2024-2025                    |
| 48                                                         | Fatemeh Olya                  | 13:30-14:00 | Extracellular Vesicle-Derived MicroRNAs as Emerging Biomarkers for Early Diagnosis and Risk Stratification of Sepsis: A Systematic Review                                                                     |

| Poster Presentation Schedule<br>Tuesday, 1 September, 2026 |                               |             |                                                                                                                                                                                                       |
|------------------------------------------------------------|-------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                        | Presenter                     | Time        | Article Title                                                                                                                                                                                         |
| 49                                                         | Dr Kazem Ghaffari             | 14:00-14:30 | Hematologic malignancies and an overview of emerging therapies for hematologic malignancies: a systematic review                                                                                      |
| 50                                                         | Hanieh Fadakar                | 14:00-14:30 | The Role of Exosomal PD-L1 in AML: A Key Mediator of Immune Evasion and Novel Therapeutic Target                                                                                                      |
| 51                                                         | Parsa Sheybani                | 14:00-14:30 | Association of Telomere Biology Markers with Diagnosis and Prognosis in Acute Lymphoblastic Leukemia: A Systematic Review and Meta-Analysis                                                           |
| 52                                                         | Mohammad Reza Mohammadi Maram | 14:00-14:30 | Evaluating the Spectrum of Germline Predisposition in Acute Myeloid Leukemia: A Comprehensive Study of WHO/ELN Recommended Genes Using ClinVar Database                                               |
| 53                                                         | Mohammad Reza Mohammadi Maram | 14:00-14:30 | Targeted Screening of Germline Variants and Gene Expression Profiling in AML with t(8;21): A Novel Scoring System Approach to Overcome NGS Limitations                                                |
| 54                                                         | Atefeh Moghassem              | 14:00-14:30 | The Role of Prognostic Exosomal miRNAs in Acute Myeloid Leukemia: Emerging Biomarkers for Early Detection and MRD Monitoring                                                                          |
| 55                                                         | Zeynab Eftekhari              | 14:30-15:00 | Association of BMI1 Gene rs1042059 and rs11591377 Polymorphisms with Leukemia: Diagnostic and Prognostic Implications                                                                                 |
| 56                                                         | Dr Mehran Gholamin            | 14:30-15:00 | Acute Myeloid Leukemia: Advances in Diagnostic and Monitoring Strategies                                                                                                                              |
| 57                                                         | Hanieh Fadakar                | 14:30-15:00 | Beta-Catenin-Associated Transcriptional Signatures and Prognostic Hubs in Acute Myeloid Leukemia CD34 <sup>+</sup> Cells                                                                              |
| 58                                                         | Somayeh Yazdanparast          | 14:30-15:00 | cdDNA as an Emerging Tool for Precision Measurable Residual Disease Monitoring in Acute Myeloid Leukemia After Transplantation: Current Advantages and Challenges                                     |
| 59                                                         | Fatemeh Monjezi               | 14:30-15:00 | From Inflammation to Prognosis: Calprotectin and Oncogenic lncRNAs PVT1 and CRNDE as a Convergent Biomarker Signature in Multiple Myeloma                                                             |
| 60                                                         | Azam Moslemi                  | 14:30-15:00 | Whole-genome sequencing and antifungal susceptibility of a multidrug-resistant Candida auris isolate from a patient with acute myeloid leukemia in an intensive care unit                             |
| 61                                                         | Mohammadreza Eslami           | 15:00-15:30 | A Novel 6-Gene Biomarker Signature Predicts "Double-Hit" Immune Evasion in AML                                                                                                                        |
| 62                                                         | Zahra Nazari                  | 15:00-15:30 | Impact Of Acute Myeloid Leukemia-Derived Extracellular Vesicles On Expression Of CTNBB1, TGF- $\beta$ , and VEGF Genes In Bone Marrow Mesenchymal Stem Cells: Insight Into Leukemia Pathogenesis      |
| 63                                                         | Reza Biglari                  | 15:00-15:30 | Investigating the Effect of Stearoyl-CoA Desaturase 1 (SCD1) Inhibition on Wnt/ $\beta$ Catenin Target Gene Expression and Apoptosis in the Jurkat E6.1 T-Cell Acute Lymphoblastic Leukemia Cell Line |
| 64                                                         | Taraneh Hoseinnezhad          | 15:00-15:30 | The investigation of Cassiopea andromeda crude venom on the expression of microRNA 506 and selected down stream targets in the T Acute Lymphoblastic Leukemia Cell Line                               |
| 65                                                         | Fatemeh Shajari               | 15:00-15:30 | Platelet-Derived Microparticles Confer Ferroptosis Resistance in Acute Promyelocytic Leukemia via Inter-cellular Iron and Lipid Transfer                                                              |



| Poster Presentation Schedule<br>Wednesday, 2 September, 2026 |                                   |             |                                                                                                                                                                   |
|--------------------------------------------------------------|-----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                          | Presenter                         | Time        | Article Title                                                                                                                                                     |
| 66                                                           | Dr Paridokht Karimian             | 09:00-09:30 | Targeting CD147 in keloid fibrosis: opportunities, limitations, and combination therapeutic strategies                                                            |
| 67                                                           | Maryam Jadid Tavaf                | 09:00-09:30 | Berberine Enhances Immunomodulatory Responses and Attenuates Neuroinflammation in an Experimental Model of Multiple Sclerosis via Expansion of Treg and Th2 Cells |
| 68                                                           | Mehrnaz Asayesh                   | 09:00-09:30 | Chimeric Antigen Receptor T Cell Therapy in Rheumatoid Arthritis: A Systematic Review of Clinical and Immunological Evidence                                      |
| 69                                                           | Mahtab Didehban                   | 09:00-09:30 | Immune System Dysregulation in Pediatric and Adult Patients with Inborn Errors of Immunity (IEI): A Narrative Review                                              |
| 70                                                           | Kouthar Rahimi                    | 09:00-09:30 | Human Umbilical Cord-Derived MSCs Restore Immune Tolerance in SLE via Treg Induction: A 2025 Nobel Prize Perspective and Implications for Laboratory Medicine     |
| 71                                                           | Golnaz Enayat                     | 09:00-09:30 | Immune Dysregulation in Rheumatoid Arthritis: A Systematic Review of Synovial Microenvironment Dynamics and Peripheral Biomarkers                                 |
| 72                                                           | Seyed Mohammad Kasra Esfahani     | 09:30-10:00 | Dysregulated JAK/STAT Pathway as a Driver of Immune Evasion and Tumor Progression in Gastrointestinal Cancers                                                     |
| 73                                                           | Ali Taheri                        | 09:30-10:00 | Hematological Complications in Familial Mediterranean Fever: A Case Report and Literature Review                                                                  |
| 74                                                           | Sara Vahedniari                   | 09:30-10:00 | The Role of Autoantibodies in the Pathophysiology of Schizophrenia                                                                                                |
| 75                                                           | Dr Hayedeh Javadzadeh Shahshahani | 09:30-10:00 | Frequency of Red Blood Cell Antibodies and Their Association with Transfusion History and Clinical Diagnosis                                                      |
| 76                                                           | Dr Fatemeh Roshanzamir            | 09:30-10:00 | Quality Comparison of the Leukocyte-Reduced Red Blood Cell Products Derived from Different Leukocyte Filtration Sets                                              |
| 77                                                           | Zeynab Asgari                     | 09:30-10:00 | The TGFβ signaling pathway could be effective in the pathogenesis of human lymphotropic virus type 1 evidence from a systems biology study                        |
| 78                                                           | Mobina Nakhaei Shamahmood         | 10:00-10:30 | Prevalence of RhD negative and weak D phenotype in blood donors in South Khorasan Province                                                                        |
| 79                                                           | Dr Hayedeh Javadzadeh Shahshahani | 10:00-10:30 | Distribution of ABO, Rh, and Kell Blood Group Antigens Among Voluntary Blood Donors in Yazd, Iran                                                                 |
| 80                                                           | Fatemeh Jangi Ghareh Shiran       | 10:00-10:30 | Effectiveness of Targeted Interventions to Increase Recruitment and Retention of Young Blood Donors: A Scoping Review                                             |
| 81                                                           | Taraneh Zeynali                   | 10:00-10:30 | Comorbidity Between Obesity and Anemia in the PERSIAN Guilan Cohort Study Population                                                                              |

| Poster Presentation Schedule<br>Wednesday, 2 September, 2026 |                             |             |                                                                                                                                                                                                 |
|--------------------------------------------------------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Row                                                          | Presenter                   | Time        | Article Title                                                                                                                                                                                   |
| 82                                                           | Mohammad Mahdi Behzadifar   | 10:00-10:30 | Investigation of clinical symptoms and laboratory results of blood transfusion complications and related factors: A retrospective study in Mashhad, Iran.(۲۰۱۹-۲۰۲۲)                            |
| 83                                                           | Younes Sadeghi Bojd         | 10:00-10:30 | Resolving Complex ABO Discrepancies: Serologic and Molecular Insights into the Rare B(A) Phenotype                                                                                              |
| 84                                                           | Fatemeh Jangi Ghareh Shiran | 10:00-10:30 | Investigate the trend of Transfusion-Transmitted Infections (HIV, HCV, HBV) among Blood Donors in Tehran during 2015-2025.                                                                      |
| 85                                                           | Niloufar Kazemi Babaahmadi  | 10:30-11:00 | Neutralizing Anti-SARS-CoV-2 Antibody Responses in Regular Versus First-Time Plateletpheresis Donors During the COVID-19 Pandemic                                                               |
| 86                                                           | Mohadeseh Ghanadha          | 10:30-11:00 | Investigation of the Trend of Temporary and Permanent Deferrals among Blood Donors in Tehran Province-۲۰۱۵) (۲۰۲۲                                                                               |
| 87                                                           | Mandana Shirdarch           | 10:30-11:00 | Evaluation of a Rapid Approach to Resolve Cold Agglutinin Interference in CBC Testing                                                                                                           |
| 88                                                           | Fatemeh Ramezani            | 10:30-11:00 | Comparison of the Efficacy of Ferric Carboxymaltose versus Iron Sucrose in Correcting Iron Deficiency Anemia and Reducing Blood Transfusion in Patients Undergoing Cardiac Surgery              |
| 89                                                           | Zahra Taghinejad            | 10:30-11:00 | A systematic review of the thrombotic events in anti-CD19 chimeric antigen receptor T cell therapies                                                                                            |
| 90                                                           | Zahra Khoshnegah            | 11:00-11:30 | Ferroptosis-Engineered Extracellular Vesicles Co-delivering siGPX4 and Iron Oxide Nanoparticles: In Vitro Evaluation of Ferroptosis Resistance Mechanisms in KG-1 Cells                         |
| 91                                                           | Amin Golestani              | 11:00-11:30 | Nanoengineered Exosome-Based PD-1/TIGIT siRNA Delivery System :Comparative Analysis of Checkpoint Relief and Immune Synergy Across HL-60 Cell Line Model with Patient-Derived Primary AML Cells |
| 92                                                           | Davood Rajabian             | 11:00-11:30 | Transforming Blood Product Waste into Advanced Biomaterials for Regenerative Medicine                                                                                                           |
| 93                                                           | Mahsa Shirani               | 11:00-11:30 | The Evolving Genetic Landscape of CML: Implications for Resistance and Progression                                                                                                              |
| 94                                                           | Sanaz Jamshidi              | 11:00-11:30 | Dual-Targeted (CD19/CD20) CAR-NK Cells for B-Cell Malignancies :Advances in Microfluidic-Mediated Gene Transduction                                                                             |
| 95                                                           | Fatemeh Sadeghi             | 11:00-11:30 | Reviewing the Standard quality control guidelines for Extracellular vesicles entering the pharmaceutical production phase and clinical application in Iran                                      |
| 96                                                           | Dr Reza Afrisham            | 11:30-12:00 | Potential of Extracellular Vesicle-Derived MicroRNAs in Relieving Diabetic Peripheral Neuropathy: A Systematic Review                                                                           |
| 97                                                           | Amir Hossein Zeynal Abadi   | 11:30-12:00 | Cytoprotective Core-Shell Hydrogels: Enhancing Wharton's Jelly-Derived MSC Viability via Chitosan-Coated Alginate-Hyaluronic Acid Microbeads                                                    |



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| Row                                                          | Presenter                | Time        | Article Title                                                                                                                                                                             |
| 98                                                           | Mahsa Mottaghizadeh Jazi | 11:30-12:00 | Synthesis and Characterization of a pH-Sensitive Hydrogel Containing CuO-GO Nanocomposite and Human Platelet Lysate as a Carrier of Mesenchymal Stem Cells for Wound Healing Applications |
| 99                                                           | Fatemeh Mikanik          | 11:30-12:00 | Effect of Interleukin-15 on Activation and Cytotoxicity of Natural Killer Cells                                                                                                           |
| 100                                                          | Zeinab Davoodi Moghaddam | 11:30-12:00 | Advancements in gene therapy for human diseases: Trend of current clinical trials                                                                                                         |
| 101                                                          | Lavin Sarshivi           | 11:30-12:00 | CRISPR/Cas: A Platform for Precision Diagnostics and Therapeutic Validation in Hematologic Disorders                                                                                      |
| 102                                                          | Narjes Seddighi          | 12:00-12:30 | Exosome Derived Non Coding RNAs: Novel Biomarkers for Precision Diagnosis and Therapy in Leukemia                                                                                         |
| 103                                                          | Faezeh Shokrollahi       | 12:00-12:30 | Folate-Functionalized PAMAM G4 Dendrimer Nanocarrier for Targeted Delivery of Silver and Iron Oxide Nanoparticles to Leukemia Cells                                                       |
| 104                                                          | Narjes Seddighi          | 12:00-12:30 | BMMSC-Derived Extracellular Vesicles in Hypoxia-Conditioned Modulate Angiogenesis-Related Gene Expression in Jurkat T-Cells                                                               |
| 105                                                          | Fatemeh Shajari          | 12:00-12:30 | Therapeutic Applications of Platelet-Derived Exosomes for Wound Regeneration: A Review of Cell-Based Approaches                                                                           |
| 106                                                          | Behnaz Bozorgmehr        | 12:00-12:30 | Safety and Efficacy of CAR-T Cell Therapy in Relapsed/Refractory Acute Myeloid Leukemia: A Systematic Review Based on the Latest Clinical Trial Data                                      |
| 107                                                          | Zahra Pooraskari         | 12:00-12:30 | Cyanidin-3-glucoside Reduces Angiogenesis of Myeloma Cells with HUVECs Mediated by Extracellular Vesicles                                                                                 |
| 108                                                          | Zahra Sadat Hosseini     | 13:30-14:00 | Emerging Non-Coding RNA-Directed Therapeutics in Solid Tumors: A Systematic Review of Clinical Efficacy and Safety                                                                        |
| 109                                                          | Ali Falahatdoust         | 13:30-14:00 | Harnessing The Synergistic Potential Of TRAIL and SAHA To Overcome Apoptosis Resistance In KG-1 Cells                                                                                     |
| 110                                                          | Atefeh Bahmei            | 13:30-14:00 | First Case Report of Hb Archarnes in a Homozygous Genotype in Southern Iran                                                                                                               |
| 111                                                          | Zahra Taghinejad         | 13:30-14:00 | A Case Report of Combined Severe Iron Deficiency Anemia and Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency in Pregnancy                                                              |
| 112                                                          | Melika Zarifi            | 13:30-14:00 | Comparison of the Efficacy of Serum Ferritin Measurement Index with MRI Method in Assessing Iron Overload in $\beta$ -Thalassemia Patients                                                |
| 113                                                          | Maryam Mohammadpour      | 13:30-14:00 | Significant association of polymorphism in TRIM21 gene in Iranian alloimmunization in thalassemia                                                                                         |

| Poster Presentation Schedule<br>Wednesday, 2 September, 2026 |                                  |             |                                                                                                                                                                                          |
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| Row                                                          | Presenter                        | Time        | Article Title                                                                                                                                                                            |
| 114                                                          | Ali Atefniya                     | 14:00-14:30 | Development And Localization Of An Implementable Hospital Antimicrobial Stewardship Protocol In Iran: Evidence-Based Adaptation Of International Frameworks                              |
| 115                                                          | Dr Hossein Babaei                | 14:00-14:30 | Evidence-Based Optimization of Laboratory Test Utilization in a High-Volume General Hospital                                                                                             |
| 116                                                          | Razieh Dowran                    | 14:00-14:30 | Revisiting HTLV-1: Molecular Signatures, Clinical Outcomes, and the Road Toward Curative Therapies                                                                                       |
| 117                                                          | Narges Eslami                    | 14:00-14:30 | Assessment of HCV Intrafamilial Spread and SOVODAK Treatment Effectiveness within the PERSIAN Guilan Cohort Population (PGCS)                                                            |
| 118                                                          | Mohadeseh Ghaoadha               | 14:00-14:30 | Immunomodulatory Roles of HCV Core and Core+1 Proteins in the Establishment of Chronic Infection                                                                                         |
| 119                                                          | Hadis Rajabi                     | 14:00-14:30 | Molecular and Cell Culture-Based Approaches for Evaluation of Antiviral Activity Against HSV-1 in Diagnostic Virology Laboratories                                                       |
| 120                                                          | Mobina Nakhaei Shamahmood        | 14:30-15:00 | Blood and blood product utilization pattern in educational hospital of Birjand city, Iran: A multicenter study                                                                           |
| 121                                                          | Amir Mohammad Zargar             | 14:30-15:00 | Differential Levels of Cortisol in Fatty Liver Disease with Metabolic and Non-metabolic Etiologies                                                                                       |
| 122                                                          | Niloofer Faraji                  | 14:30-15:00 | The association between serum albumin levels and survival rate in patients with pancreatic cancer                                                                                        |
| 123                                                          | Parisa Pedramrad                 | 14:30-15:00 | Hormonal Fluctuations and Immune Modulation Across Reproductive Stages in Systemic Lupus Erythematosus                                                                                   |
| 124                                                          | Mehrsa Derisavi                  | 14:30-15:00 | Evaluation of Fluconazole Susceptibility in Candida albicans Isolated from Nail Samples                                                                                                  |
| 125                                                          | Faezeh Khamar                    | 14:30-15:00 | Comparative Evaluation of HBsAg Detection Kits: A Method Concordance Study                                                                                                               |
| 126                                                          | Reyhaneh Haj Abedi               | 15:00-15:30 | Assessment of Fungal contamination of Surfaces and Dental Equipment in Arak Dental Centers                                                                                               |
| 127                                                          | Dr Leila Parvaneh                | 15:00-15:30 | Effects of Prediabetic and Diabetic Mimetic Environments on TCPTP Gene Expression in Muscle cell Culture Model                                                                           |
| 128                                                          | Dr Alireza Dolatyar Dehkharghani | 15:00-15:30 | Determining the Mechanism of Metallo- $\beta$ -Lactamase (MBL) in Carbapenem-Resistant Klebsiella pneumoniae Isolates and Its Impact on Treatment Regimen Selection: A Systematic Review |
| 129                                                          | Nastaran Javan                   | 15:00-15:30 | In vitro activity of antibiotic combinations against multi-drug-resistant Klebsiella pneumoniae isolates                                                                                 |
| 130                                                          | Dr Navid Jamali                  | 15:00-15:30 | Biomarker Panels Advancing Precision Diagnosis in Rheumatoid Arthritis                                                                                                                   |
| 131                                                          | Reihane Moghtaderi Isfahani      | 15:00-15:30 | Dyslipidemia in Isfahan: A Large-Scale Cross-Sectional Study                                                                                                                             |



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| Row                                                         | Presenter                 | Time        | Article Title                                                                                                                                                                                      |
| 132                                                         | Dr Farnood Khajavirad     | 09:00-09:30 | The Association Between Total Iron Binding Capacity (TIBC) and Renal Function Markers                                                                                                              |
| 133                                                         | Dr Farnood Khajavirad     | 09:00-09:30 | Seasonal Variations in Lipid Profile Components in Isfahan , Iran: A 2024 Cross-Sectional Study                                                                                                    |
| 134                                                         | Neda Aghakhani            | 09:00-09:30 | Sex-Specific Associations Between Kidney Function and Liver Enzymes: A Cross-Sectional Study from Isfahan, Iran                                                                                    |
| 135                                                         | Mehrsa Mohammadian        | 09:00-09:30 | Inverse Association Between Serum Magnesium and Glycated Hemoglobin in an Iranian Adult Population: A Cross-Sectional Study                                                                        |
| 136                                                         | Parnia Bahrami            | 09:00-09:30 | Association of Glycated Hemoglobin with Kidney Function Parameters in Diabetic Patients: A Cross-Sectional Study from Isfahan, Iran                                                                |
| 137                                                         | Amirreza Ghafourian       | 09:00-09:30 | Consolidating Clinical Insights and Uncovering Novel Regulatory Mechanisms of Exosomal microRNAs in Obesity and Non-Alcoholic Fatty Liver Disease: A Systematic Review and Bioinformatics Analysis |
| 138                                                         | Mehdi Hojatifard          | 09:30-10:00 | Distribution of Immunoglobulin Subclasses in Patients Suspected of Monoclonal Gammopathy (MGUS and MGCS) in Iran                                                                                   |
| 139                                                         | Masoomeh Rezanezhadi      | 09:30-10:00 | Detection of Infectious Agents and Drug Resistance in Sepsis by Multiplex PCR and Reverse Hybridization                                                                                            |
| 140                                                         | Elham Khanmohammad        | 09:30-10:00 | Antifungal Susceptibility Patterns of Clinical Dermatophyte Isolates Using Broth Microdilution: Focus on Terbinafine and Itraconazole                                                              |
| 141                                                         | Sheila Jafari             | 09:30-10:00 | Changes in mRNA Expression Profiles of Follistatin-Like (FSTL) Family Members in Muscle and Adipose Tissues of Obese Diabetic Patients: A Bioinformatics Analysis                                  |
| 142                                                         | Dr Fatemeh Ghaemimanesh   | 09:30-10:00 | Purification of Human Liver Ferritin for Application as a Reference Standard Protein in Immunoassays                                                                                               |
| 143                                                         | Hamideh Hatamihanza       | 09:30-10:00 | Design and Development of a Guided Box for Precise Sampling in-96 Well Plates Using Reverse Numbering Strips                                                                                       |
| 144                                                         | Prof Bamdad Riahi-Zanjani | 10:00-10:30 | Preconcentration of morphine in urine sample using a green and solvent-free microextraction method                                                                                                 |
| 145                                                         | Dr Nasrin Amirrajab       | 10:00-10:30 | Six Year Study of Fungal Growth in Blood Culture of Patients in Ahvaz Imam Khomeini Hospital in Khuzestan Province                                                                                 |
| 146                                                         | Amirhossein Khorramian    | 10:00-10:30 | The Role of HPV Infection in Shaping the Vaginal and Cervical Microbiome and Its Association with Clinical Outcomes                                                                                |
| 147                                                         | Dr Mohammad Taghi Ahady   | 10:00-10:30 | The Modulatory Role of Intestinal Helminths in the Composition and Diversity of the Human Gut Microbiome: Immunological and Therapeutic Implications                                               |

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| 148                                                         | Afroz Mohamaddoost            | 10:00-10:30 | Investigation of the Drug Sensitivity of Candida Species Isolated from the Mouth to Hydroalcoholic Extracts of Medicinal Plants Rosemary and Milk Thistle Compared to Common Antifungal Drugs in In Vitro Conditions in the Year 2025-2026 |
| 149                                                         | Atefeh Rezaei                 | 10:00-10:30 | Shadows of Resistance in Colorectal Cancer: Clinical Impact of Carbapenem- and Metronidazole-Related Determinants in Bacteroides fragilis                                                                                                  |
| 150                                                         | Shaghayegh Hooshmand Chayijan | 10:30-11:00 | The Correlation Between Cervical Intraepithelial Neoplasia and Sexually Transmitted Infections                                                                                                                                             |
| 151                                                         | Somayeh Yazdanparast          | 10:30-11:00 | Gut Microbiome Profiling Guiding a Precision Approach for Acute Graft-Versus-Host Disease Prediction                                                                                                                                       |
| 152                                                         | Tahereh Zeinali               | 10:30-11:00 | Link Between Helicobacter pylori Infection and Colorectal Polyps: Implications for Screening in Northern Iran                                                                                                                              |
| 153                                                         | Mostafa Alibegli              | 10:30-11:00 | Evolution of Microbiota Analysis Approaches in Obesity from 16S rRNA to Machine Learning: A Narrative Review                                                                                                                               |
| 154                                                         | Pantea Javaheri               | 10:30-11:00 | The Role of Fusobacterium nucleatum in Immune Pathways and Breast Cancer Progression: Implications for Therapeutic Response                                                                                                                |
| 155                                                         | Alireza Bayani                | 10:30-11:00 | Severe Microcytosis-induced Pseudo-thrombocytopenia: a Case Report and Laboratory Pitfall                                                                                                                                                  |
| 156                                                         | Dr Mahdi Orang Goorabzarmakhi | 11:00-11:30 | Dyslipidemia and liver enzyme abnormalities: findings from the PERSIAN Guilan cohort study                                                                                                                                                 |
| 157                                                         | Faezeh Khamar                 | 11:00-11:30 | The Role of Laboratory Markers in the Diagnosis of Cardiac Diseases                                                                                                                                                                        |
| 158                                                         | Dr Kamal Yavari               | 11:00-11:30 | The Role of Clinical Laboratory in Early Diagnosis of Acute Myocardial Infarction Based on High-Sensitivity Cardiac Biomarkers                                                                                                             |
| 159                                                         | Dr Narges Babadaei Samani     | 11:00-11:30 | Epidemiology of Amino Acid Disorders Identified Through Newborn Screening Using Tandem Mass Spectrometry in Isfahan(۲۰۲۰-۲۰۲۵)                                                                                                             |
| 160                                                         | Nooshin Moghbeli              | 11:00-11:30 | Evaluation of Plasma Phenylalanine and Tyrosine Levels by HPLC in Newborn Screening for Phenylketonuria: A Gender-Based Analysis.                                                                                                          |
| 161                                                         | Dr Fariba Rad                 | 11:00-11:30 | Evaluation of Serum Calcium Status and Its Association with Chelating Agents in Patients with Beta-Thalassemia Major: A Cross-Sectional Study in Yasuj                                                                                     |
| 162                                                         | Dr Noormohamad Mansoori       | 11:30-12:00 | A report for multidrug-resistant isolates of Mycobacterium tuberculosis in Golestan province, North Iran                                                                                                                                   |
| 163                                                         | Dr Amineh Hojati              | 11:30-12:00 | Lip Metastasis in Colorectal Cancer: A Rare Case                                                                                                                                                                                           |



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| Row                                                         | Presenter               | Time        | Article Title                                                                                                                                                        |
| 164                                                         | Dr Mohammad Almasi      | 11:30-12:00 | Survival and Prognostic Factors in Patients with Pancreatic Cancer: A Population-Based Study from Northern Iran                                                      |
| 165                                                         | Faezeh Khamar           | 11:30-12:00 | Analysis of Agglutination-Based Serological Tests in Hospitalized Patients with Gastrointestinal Symptoms                                                            |
| 166                                                         | Bitu Bandar             | 11:30-12:00 | The Increased C-Reactive Protein/Albumin Ratio and Platelet/MPV in Allergic Rhinitis and Asthma: Potential Biomarkers?                                               |
| 167                                                         | Dr Amirhossein Azariyan | 11:30-12:00 | Association of C-Reactive Protein and Erythrocyte Sedimentation Rate with Type 2 Diabetes Mellitus and Non-Alcoholic Fatty Liver Disease                             |
| 168                                                         | Dr Behnaz Deihim        | 12:00-12:30 | Efflux Pumps and Glycopeptide Resistance in Clinical Enterococcus faecalis and Enterococcus faecium Isolates-2024                                                    |
| 169                                                         | Fatemeh Eftekhari       | 12:00-12:30 | The comparison of the time of normalization of CRP in COVID-19 patients who received IV dexamethasone in COPD and non-COPD patients in Qazvin in 2021                |
| 170                                                         | Dr Navid Jamali         | 12:00-12:30 | The Future of Prostate Cancer Detection: Integrating Novel Biomarker Panels for Precision Diagnosis                                                                  |
| 171                                                         | Sahar Halabian          | 12:00-12:30 | Seasonal Variations in Serum Vitamin D Levels in Central Iran: A Large Cross-Sectional Analysis                                                                      |
| 172                                                         | Shahzad Hajjari         | 12:00-12:30 | Prevalence of High-Risk HPV16 and HPV18 Among HPV-Positive Women in Isfahan, Iran: A Cross-Sectional Study                                                           |
| 173                                                         | Atefeh Soltan Mohseni   | 12:00-12:30 | Circular RNAs in Diabetic Foot Ulcers: A Scoping Review of Clinical, Preclinical, and In Silico Evidence on Diagnostic and Therapeutic Potentials                    |
| 174                                                         | Dr Mohammad Bagherniya  | 13:30-14:00 | Prevalence of Prediabetes and Diabetes Mellitus in Isfahan: A Comparative Analysis of FBS and HbA1c Criteria in a Large Adult Population                             |
| 175                                                         | Parinaz Tavakoli        | 13:30-14:00 | Association of Age and Sex with CD38 Expression in Chronic Lymphocytic Leukemia: A Cross-Sectional Study from Isfahan, Iran                                          |
| 176                                                         | Elnaz Abbasi            | 13:30-14:00 | The Role of Clinical Laboratories in the Detection and Monitoring of Carbapenem-Resistant Klebsiella pneumoniae: Implications for Patient Management in Central Iran |

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| 177                                                         | Dr Mohammad Jafari               | 13:30-14:00 | Age-Related Variations and Waning Immunity in HBV Vaccine Protection: The Need for Ongoing Serological Surveillance                                                             |
| 178                                                         | Sahar Aali                       | 13:30-14:00 | The Role of Clinical Laboratory Biomarkers in Early Detection and Monitoring of Non-Alcoholic Fatty Liver Disease (NAFLD)                                                       |
| 179                                                         | Parisa Moharramzadeh             | 13:30-14:00 | Determination of Antibiotic Resistance Pattern and Production of Extended-Spectrum Beta-Lactamases in Escherichia coli Isolates Collected from Bagher-ul-Uloom Hospital in Ahar |
| 180                                                         | Hanieh Fadakar                   | 14:00-14:30 | An Integrative Approach Using Artificial Intelligence to Decode Exosomal microRNA Signatures for Early Diagnosis and Risk Stratification of Myelodysplastic Syndromes           |
| 181                                                         | Faezeh Kheiri Ardahaei           | 14:00-14:30 | Innovative Applications of Artificial Intelligence in Immunohematology: Enhancing Laboratory Quality, Safety, and Decision Support-A Narrative Review                           |
| 182                                                         | Amirhossein Ghaenati             | 14:00-14:30 | Application of Artificial Intelligence in Enhancing Quality Control of Medical Diagnostic Laboratories                                                                          |
| 183                                                         | Mohammad Mahyar Khosravinia      | 14:00-14:30 | Rapid identification of pathogenic fungi using automated microscopy with artificial intelligence-based image analysis                                                           |
| 184                                                         | Mohammad Amin Abdolahi Ziaaldini | 14:00-14:30 | Analysis of Immature Granulocyte Data Based on the MXD Parameter: Evaluating the Performance of Artificial Intelligence Versus Prism                                            |
| 185                                                         | Seyed Mohammad Hashemi           | 14:00-14:30 | Multimodal and Interpretable Machine Learning Approaches for Embryo Quality Prediction in IVF: Current Advances and Future Challenges                                           |
| 186                                                         | Dr Ahmad Abolghazi               | 14:30-15:00 | The Role of Artificial Intelligence in Accelerating Result Interpretation and Improving Communication Accuracy in the Medical Diagnostic Laboratory                             |
| 187                                                         | Ali Bayat Bodaghi                | 14:30-15:00 | Beyond Automation: Clinical Laboratories Operationalizing Precision Medicine in the in the Age of Artificial Intelligence                                                       |
| 188                                                         | Dr Marziyeh Babazadeh            | 14:30-15:00 | The Future of Acute Myocardial Infarction Diagnosis: From High-Sensitivity Troponin to Intelligent Machine Learning Algorithms                                                  |
| 189                                                         | Narjes Seddighi                  | 14:30-15:00 | Artificial Intelligence in Oncology: Current Applications in diagnosis and treatment monitoring                                                                                 |



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## پلان طبقه اول





