26th International Congress of Clinical Chemistry and Laboratory Medicine

17th Congress of Arab Federation of Clinical Biology

10th Saudi Society for Clinical Chemistry Annual Meeting

8th UAEGDA International Genetic Disorders Conference

Dubai World Trade Centre (DWTC)
DUBAI - UAE
It gives me an immense pleasure and a great honour to invite you to attend the 26th International Congress of Clinical Chemistry and Laboratory Medicine (ICCCLM) - IFCC WorldLab Congress which will be organized jointly with the 17th Congress of the Arab Federation of Clinical Biology (AFCB), 10th Annual Meeting of the Saudi Society for Clinical Chemistry (SSCC) and 8th International and UAE Genetic Disorders Conference in partnership with MZ Events to be held in Dubai World Trade Centre (WTC) in May 26-30, 2024. 3rd IFCC FORUM for Young Scientists is also planned to be held before the congress. The IFCC WorldLab will deliver a world-wide forum for the free and open exchange of information on the science and technology of clinical chemistry and laboratory medicine in the academic, clinical, and industrial settings; will enable an international forum for clinical laboratory scientists and physicians to interact with their peers; and will provide a forum to promote human health. The Scientific Program Committee will put together a fantastic multidisciplinary program covering a broad range of important themes such as fundamental concepts, advanced diagnostics and techniques used in laboratory medicine. The program will feature plenary lectures, symposiums on cutting-edge topics, oral presentations, posters and high-level educational workshops. Distinguished international speakers and key opinion leaders will deliver presentations in health care, on recent diagnostic technologies, scientific advances, and challenges. The program will be designed to be interactive allowing sufficient time for discussions giving opportunity to the participants to learn, to understand, to contribute, and question the direction of Laboratory Medicine worldwide.

In Vitro Diagnostic (IVD) Sector will organize a great exhibition providing the attendees a great opportunity to explore the recent novel technological advances and practical solutions fitting to the needs of clinical laboratories. The IVD Sector will support the Congress organizing also high-level Educational Workshops on important topics with eminent speakers presenting the latest scientific advances in all disciplines pertinent to laboratory medicine. I look forward to meeting all the IFCC members worldwide from six IFCC Regional Federations who will participate in this exciting IFCC WorldLab Congress to be held in the Region of the Arab Federation of Clinical Biology. I am confident that you will find your time rewarding and worthwhile enjoying inspirational scientific program, all presentations, discussions, exhibition, networking, and social activities.

Professor Tomris Ozben

Congress President
Message
Dear Colleagues and Friends,

On behalf of the Saudi Society for Clinical Chemistry (SSCCI) it is our great pleasure to invite you to the IFCC WorldLab in Dubai from May 26th to 30th, 2024.

The 26th International Congress of Clinical Chemistry and Laboratory Medicine will be an extraordinary as it will be in the Arab world for the first time since the IFCC congress started in 1954 and jointly hosted with the 17th Arab Federation for Biological Sciences (AFBC), the 10th Annual meeting for the SSCC, and the 8th UAE Genetic Disorders Conference.

Worldlab conference organizing committee together with the scientific committee are keen to develop an exciting scientific program and to cover the most relevant aspects in clinical laboratory, medicine, and patient care. For this purpose, local and international key leaders in clinical laboratory were selected to shape a scientific program covering current & future changes in clinical laboratory science, new emerging lab technologies, updated diagnostic strategies, discussing regional health problems, recent quality applications and digitalization of clinical laboratories. The congress will provide you a chance to make remarkable changes, update your scientific skills by our outstanding experts and to develop new personal relationships within the region and other parts of the world with the advantage of exchange in experience, knowledge, and skills. Dubai is a fascinating peaceful city and geographically easily accessible from all over the world. We are confident about our attendees’ comfort with Dubai cultural diversity, breathtaking architecture, safety, amazing shopping experience, hospitality, and other top tourists’ attractions.

Hosting the 26th IFCC Worldlab Meeting is in line with the Saudi Vision 2030 that aims to achieve a world-class healthcare system and establish the Kingdom as a pioneering healthcare destination in the region, and the world. SSCI is dedicated to making Worldlab 2024 an unforgettable meeting for all attendees and truly we hope to see you in Dubai next year.

Prof Anwar Borai

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It is my great pleasure to welcome all attendees of the XXVI IFCC WorldLab Congress, jointly hosted by the IFCC, Arab Federation of Clinical Biochemistry, Saudi Society of Clinical Chemistry, and the UAE Genetics Association. This is the first time the WorldLab is being held in the Middle East, bringing experts from around the world together in the opulent city of Dubai, now one of the most vibrant and technologically advanced cities in the world. The 2024 WorldLab Congress will bring together laboratory professionals and scientists from the UAE and countries across the Arab Federation, as well as all other regional federations within IFCC including Africa, Europe, North America, Central/South America, and Asia-Pacific. It promises to be the most successful IFCC WorldLab ever held outside Europe.

This is a fast-evolving time for the field of clinical chemistry and laboratory medicine, as we face many scientific and technological advancements that allow for a much greater role for our professionals as partners at the centre of healthcare. This timely congress is an excellent opportunity to gather in an international forum to discuss these advancements and foster collaboration with other colleagues.

Without a doubt, the biannual WorldLab congress has proven to be one of the leading forums to bring together scientists, laboratory specialists, clinicians, and industry colleagues in the field of clinical chemistry and laboratory medicine. Bringing all of us together in forums like this enables scientific exchange and ensures that our organization and the field of clinical chemistry and laboratory medicine remain at the cutting edge.

During the congress, attendees will experience an outstanding scientific program, featuring innovative and diverse educational opportunities that incorporate the best of clinical laboratory medicine and in vitro diagnostics, including lectures, symposia, recent advancements in clinical practice and science, poster presentations, and much more. Special emphasis will be placed on technological advancements, as this meeting aims to connect the latest technological breakthroughs in diagnostic laboratory technology with the best minds in laboratory medicine to help attendees learn and implement the latest and greatest in clinical laboratory science, technology, and medicine. In addition to the scientific program, the cosmopolitan metropolis of Dubai has something to offer for every visitor, and excellent social opportunities have been organized for attendees to enjoy its many attractions.

I hope you all enjoy the excellent scientific and social programs curated by the congress organizing and scientific committees, and I wish you all a productive conference and a pleasant stay in Dubai.

Prof. Khosrow Adeli
Dear Colleagues and Friends,

On behalf of the Arab Federation of Clinical Biology (AFCB), it gives me a great honor to invite you to attend the 26th International Congress of Clinical Chemistry and Laboratory Medicine (WorldLab) in Dubai, the sun-soaked metropolis like no other and one of the most popular destinations worldwide these last years. The scientific committee will spare no effort to provide you with a top-level program that meets your expectations in terms of innovation and quality. Not only will you have the opportunity to meet key opinion leaders and listen to international speakers, but you will also discover the world of medical research in the Arab countries, and have the chance to forge new collaborative networks in a context that is surprisingly rich in scientific opportunities, and is as diverse as the twenty-two countries it covers with their half a billion citizens.

Submerged hotel, world’s tallest tower, artificial peninsulas, largest fountain, ski resort, wonderful museums... Truly, nothing is too crazy for this effervescent futuristic city of Dubai born out of the desert a few decades ago and whose expansion seems to have no limits. So from the various symposia and satellite events, to the young scientists’ forum, everything in the scientific program had to be focused on the future as well. The laboratory medicine had to adopt a flawless modernity in this context of constantly evolving city of skyscrapers and challenges.

We hope the 2024 WorldLab Conference will provide us not only a chance to discover new horizons, learn top-of-the-art skills from experts but also discuss latest developments in all areas of laboratory medicine and broaden our knowledge by sharing what the years of experience have taught each of us. Dubai and its IFCC Worldlab is the place to be in 2024. I wish you will all enjoy the outstanding scientific conference program, experience the amazing pride to belong to the IFCC in this really amazing city!

Christian Haddad, MD, MHS
President Arab Federation of Clinical Biology

Dear attendees, colleagues, and friends,

On behalf of all the people in the United Arab Emirates, it is with great pleasure and anticipation that we extend our warmest welcome to the World Lab International Federation of Clinical Chemistry (IFCC) conference for the first time over the past 70 years scheduled to be held in our vibrant city of Dubai in 2024! Dubai, known for its awe-inspiring architecture, rich cultural heritage, and remarkable hospitality, will set the stage for this prestigious gathering of esteemed professionals, researchers, and experts from around the globe. As one of the leading international conferences in the field, we are thrilled to have you join us for this enriching and innovative event being held in the Middle East for the first time. The IFCC, the Arab Federation of Clinical Biochemistry, the Saudi Society of Clinical Chemistry, and the UAE Genetic Disease Association have prepared an exceptional conference program filled with insightful presentations, cutting-edge research, and engaging discussions that will shape the future of clinical chemistry, clinical molecular biology, and laboratory medicine. Renowned speakers from a wide variety of disciplines will share their expertise, providing invaluable access to the latest advancements, breakthrough technologies, and best practices in our ever-evolving field. In this fast-paced world, it has never been more important to come together and share our collective library of knowledge - to push at the boundaries of our understanding and drive our ambitions for the future. In addition to the exciting scientific program, the conference will offer ample networking opportunities for you to meet like-minded professionals, exchange ideas, and forge new collaborations. The event will be held at a world-class venue, providing a conducive environment for learning, sharing, and fostering meaningful connections.

Dubai itself presents a unique blend of old-world charm and modern innovation. It is an inspiring city, where ideas are welcomed and made into reality. From the iconic Burj Khalifa to the awe-inspiring Palm Jumeirah, you will have the chance to explore the city’s stunning landmarks and experience its vivid culture. Indulge in delectable cuisine, enjoy luxury shopping or embark on a desert safari for a taste of true adventure - Dubai has something for everyone. We sincerely hope that you will be able to join us at the 26 International Congress of Clinical Chemistry and Laboratory Medicine Conference in Dubai, UAE. Your presence will undoubtedly contribute to the success of this event, and we look forward to sharing an unforgettable experience together.

Thank you for your commitment to advancing the fields of clinical chemistry, clinical molecular biology, and laboratory medicine. We eagerly await your arrival in 2024.

Dr. Maryam bin Matar
Chairperson UAE Genetic Diseases Association

Dr. Christian Haddad
President Arab Federation of Clinical Biology

Dr. Maryam bin Matar
Founder and Chairperson of UAE Genetic Disease Association.
We are delighted to extend this invitation to join us at the IFCC WorldLab in Dubai from May 26 through May 30, 2024. Along with the organizing committee, the scientific program committee for the Dubai conference is eager to create a stimulating scientific agenda that covers the most important trends and innovations in clinical laboratory medicine and patient care. The fundamental goal of the conference has been to globalize medical knowledge in Clinical Chemistry and Laboratory Medicine through a carefully structured system of ongoing scientific education. The Scientific Committee will work hard to create an amazing, challenging, and inspiring program. A scientific program addressing the present and future developments in clinical laboratory science, novel emerging lab technologies, updated diagnostic methodologies, discussion of global health issues, contemporary quality applications, and digitalization of clinical laboratories. The congress will provide lots of educational opportunities as renowned international speakers, inventors and innovators will update you on the state-of-science in laboratory medicine. Attendees will enjoy an amazing scientific program as presented in the infographic. The titles and speakers of the plenaries are displayed, the symposia are balanced and will specifically cover the themes of Emerging Technologies & Biomarkers, Data Science and Medical Leadership, among others. These educational opportunities will combine the best of clinical laboratory medicine and in vitro diagnostics. The congress will provide the attendees opportunity to make significant improvements, refresh their scientific knowledge with our excellent specialists, and build new personal ties within the area and throughout the world via the sharing of experience, information, and skills. As well, the congress will promote the development of Clinical Chemistry and Laboratory Medicine. We sincerely hope you will join us to exchange experiences, to network, and to participate in the most cutting-edge research in clinical laboratory medicine. All of our international and national participants attending IFCC WorldLab will undoubtedly have a rewarding and memorable experience. We are eager to meet you at the IFCC WorldLab in Dubai.

Dr Samia Sobki
Co-Chairs Scientific Program Committee

Professor Christa Cobbaert
Co-Chairs Scientific Program Committee
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Eduardo Freggiaro, Latin-American Confederation of Clinical Biochemistry (COLABIOCLI)
David Grenache, North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC)

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Sander de Bruyne
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Snejana Jovicic
Solveig Linko
Subashini C. Thambiah
Tahir Pillay
Thomas Streichert
Timo Kouri
Tina Lockwood
Tommaso Fasano
Tommaso Trenti
Tony Badrick
Udara Senaratne

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## MONDAY 27 MAY 2024

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<tr>
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<th>Session</th>
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<tbody>
<tr>
<td>09.00-11.00</td>
<td>Room E</td>
<td>IFCC SYM 1: Present and future of chronic kidney disease and acute kidney injury detection</td>
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<tr>
<td>09.00-11.00</td>
<td>Room A</td>
<td>EFLM SYM: The promise of -omics biomarkers in Arab countries</td>
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<td>09.00-11.00</td>
<td>Room B</td>
<td>AFCB SYM 1: Metabolic diseases in Arab countries</td>
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<td>09.00-11.00</td>
<td>Room C</td>
<td>WASPalm: The role of clinical laboratory in the development of new drugs</td>
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<td>09.00-11.00</td>
<td>Room D</td>
<td>SYM 2: Aptamers based diagnostics for biomedical applications</td>
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<td>09.15-10.30</td>
<td>Room F</td>
<td>IFCC SYM 1: The promise of -omics biomarkers in Arab countries</td>
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<td>10.30-11.00</td>
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<td>LifeM SYM: Green Laboratories</td>
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<td>Break</td>
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<td>11.30-12.30</td>
<td>Room E</td>
<td>PL 1: Precision Prevention and Women’s Cardiovascular Health: A Global Perspective</td>
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<td>Poster Session Lunch</td>
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<td>12.30-12.45</td>
<td>Room E</td>
<td>Lunch Workshop 2: Quidel Ortho</td>
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<td>13.00-13.15</td>
<td>Room F</td>
<td>UAEGDA Workshop “Genetics for Non-Genetists”</td>
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<td>13.15-14.45</td>
<td>Room F</td>
<td>IFCC SYM 2: Flow cytometry principles and its roles</td>
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<td>14.45-15.00</td>
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<td>EDUW 1: SNIBE</td>
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<td>14.45-15.00</td>
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<td>EDUW 2: Waters</td>
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<td>EDUW 3: Abbott</td>
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<td>14.45-15.00</td>
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<td>SYM 3: Regulatory challenges for lab-developed-tests</td>
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<td>14.45-15.00</td>
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<td>UAEGDA: Elevating longevity: stem cells, brain health, and smart aging</td>
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<td>15.00-16.00</td>
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<td>EDUW 9: SNIBE</td>
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<td>EDUW 12: Buhlmann</td>
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<td>15.00-16.00</td>
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<td>SYM 5: Machine learning and clinical decision support technologies that genuinely make people’s life better</td>
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<td>15.00-16.00</td>
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<td>APFCB SYM: Clinical decision support</td>
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<td>16.00-17.00</td>
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<td>UAEGDA: Stem cells &amp; regenerative medicine</td>
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<td>16.00-17.00</td>
<td>Room F</td>
<td>Panel: stem cells &amp; regenerative medicine</td>
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### EXHIBITION HALL
10.00 - 17.30 | Exhibition open

## TUESDAY 28 MAY 2024

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<th>Time</th>
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<th>Session</th>
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<td>09.00-11.00</td>
<td>Room E</td>
<td>IFCC SYM 3: The potential of single cell and spatial biology</td>
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<td>10.30-11.00</td>
<td>Room E</td>
<td>UAEGDA: Loneevity, diet &amp; smart aging</td>
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<td>11.00</td>
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<td>11.30-12.30</td>
<td>Room E</td>
<td>PL 2: Genomics in the Middle East: A report card</td>
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<td>12.30-13.00</td>
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<td>Poster Session Lunch</td>
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<td>13.00-14.00</td>
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<td>Lunch Workshop 8: Greiner-Bio</td>
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<td>14.00-15.00</td>
<td>Room E</td>
<td>UAEGDA Workshop “Genetics for Non-Genetists”</td>
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<td>14.00-15.00</td>
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<td>IFCC SYM 4: On the way to cardiovascular precision diagnostics</td>
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<td>EDUW 9: SNIBE</td>
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<td>14.00-15.00</td>
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<td>SYM 6: Digital competence and artificial intelligence</td>
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<td>15.15-17.00</td>
<td>Room E</td>
<td>UAEGDA: Panel: stem cells &amp; regenerative medicine</td>
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### EXHIBITION HALL
10.00 - 17.30 | Exhibition open
## Preliminary Program

### IFCC WORLDLAB 2024

#### WEDNESDAY 29 MAY 2024

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>9:00</td>
<td>E</td>
<td>IFCC SYM 5 Biomarkers for neurodegenerative diseases</td>
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<td>SYM 7 Meeting the challenge of demonstrating value</td>
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<td>A</td>
<td>SYM 8 How to improve access to lab testing in middle &amp; low-income countries?</td>
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<td>B</td>
<td>AFCB SYM 2 Epidemic and pandemic infectious in Arabic regions</td>
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<td>SYM 9 Healthcare delivery in the 21st century and the role of the clinical laboratory</td>
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<td>COLABIO-CLI SYM Emerging and re-emerging diseases in Latin America</td>
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<td>09:35-11:00</td>
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<td>UAEGDA Genomics of rare diseases I</td>
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<td>E</td>
<td>PL 3 Obesity: novel developments in diagnostics of underlying causes and treatment</td>
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<td>NAFC SYM Laboratory medicine advancing global health across the lifespan</td>
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<td>EDUW 17 SNIBE</td>
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<td>SYM 10 Toxicology environmental and health effects</td>
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<td>AFC SYM Inborn errors of metabolism in africa</td>
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<td>09:15-11.00</td>
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<td>UAEGDA Workshop &quot;Genetics for Non-Genetists&quot;</td>
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#### THURSDAY 30 MAY 2024

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<th>Time</th>
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<tr>
<td>9:00</td>
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<td>SYM 11 Circulating cancer biomarkers: quo vadis?</td>
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<td>11:00</td>
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<td>SYM 12 Preventing kidney disease using advanced urine screening and kidney damage markers</td>
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<td>09:35-11:00</td>
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<td>SYM 13 Performance specifications of medical tests based on clinical outcome studies</td>
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<td>SYM 14 Utilization management and successful approaches to change and improve test requesting</td>
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<td>UAE 2 AI &amp; machine learning applications in laboratory medicine</td>
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<td>PL 4 Making molecular diagnostics faster</td>
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<td>16:15-17.00</td>
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<td>UAEGDA Panel: RDI global commission for rare diseases hybrid patient and family empowerment</td>
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### Exhibition Hall

10:00 - 17:30 Exhibition open
Opening Lecture
Chair: Tomris Ozben (Turkey)
Pushing forward the frontier of cfDNA diagnostics
Dennis Lo (Hong Kong, China)

Professor Dennis Lo is the Li Ka Shing Professor of Medicine of The Chinese University of Hong Kong (CUHK).

His research interests focus on the biology and diagnostic applications of cell-free nucleic acids in plasma. In particular, he discovered the presence of cell-free fetal DNA in maternal plasma in 1997 and has since then been pioneering non-invasive prenatal diagnosis using this technology. This technology has been adopted globally and has created a paradigm in prenatal medicine. He has also made many innovations using circulating nucleic acids for cancer detection, including the screening of early stage nasopharyngeal cancer.

In recognition of his research, Professor Lo has been elected as Fellow of the Royal Society, Foreign Associate of the US National Academy of Sciences, Fellow of The World Academy of Sciences (TWAS) and Founding Member of the Academy of Sciences of Hong Kong. Professor Lo has won numerous awards, including the 2014 King Faisal International Prize in Medicine, the 2016 Future Science Prize in Life Science, the 2019 Fudan-Zhongzhi Science Award, the 2021 Breakthrough Prize in Life Sciences, the 2021 Royal Medal, the 2021 ESHG Mendel Award, the 2022 ISPD Pioneer Award and the 2022 Lasker-DeBakey Clinical Medical Research Award.

Delegates from Saudi Arabia who are interested in obtaining CME units (Accredited by the SCFHS) should adhere to the same guidelines set for CPECS credits. At the end of the Congress, in order to get SCFHS CME credits, please send your request to SSCC email info.sccc.sa@gmail.com and send a scanned copy of your certificate of attendance, together with your SCFHS registration number. Requests must be sent within 6th June at the latest.
IFCC SYMPOSIUM 1

09:00-11:00  PRESENT AND FUTURE OF CHRONIC KIDNEY DISEASE AND ACUTE KIDNEY INJURY DETECTION
Chair: Joe M. El-Khoury (USA), Rajeevan Selvaratnam (Canada)

Updates on new eGFR equations and acute kidney injury definitions
Joe M. El-Khoury (USA)
An update on albuminuria as a chronic kidney disease marker
Joris Delanghe (Belgium)
Everything is acute until it becomes chronic – biomarkers of kidney injury
Rajeevan Selvaratnam (Canada)
Using machine learning methods and leveraging electronic health records for acute kidney injury detection and management
Lama Ghazi (UK)

Credits: 2 CPECS®

SYMPOSIUM 1

09:00-11:00  THE PROMISE OF - OMICS BIOMARKERS
Chairs: Hans Jacobs (the Netherlands), Sergio Bernardini (Italy)

Glycomics and glycoproteomics: a new biomarker domain debuts in translational research
Manfred Wuhrer (the Netherlands)
Dynamic monitoring of myeloma minimal residual disease with targeted mass spectrometry
Hans Jacobs (the Netherlands)
Integration of artificial intelligence and plasma steroidomics with Laboratory Information Management Systems: application to primary aldosteronism
Graeme Eisenhofer (Germany)
Generative AI as a catalyst for precision medicine research: bridging potential with reality
Zeino Al-Mahayli (Syria)
Deciphering Biological Impact of Nitrous Oxide Abuse: Insights from Targeted Metabolomics Analysis
Emeline Genez (France), Guillaume Grzych (France)

Credits: 2 CPECS®

SYMMPOSIUM 2

09:00-11:00  APTAMERS BASED DIAGNOSTIC FOR BIOMEDICAL APPLICATIONS
Chair: Mohammed Zourob (Saudi Arabia), Rajiv T. Erasmus (South Africa)

Development of diagnostics for SARS-CoV-2 with high-affinity DNA aptamers
Yingfu Li (Canada)
Continuous, real-time drug measurements in situ in the living body
Kevin Plaxco (USA)
Development of rapid and low-cost aptameric biosensors for biomedical applications
Mohammed Zourob (Saudi Arabia)
Aptamer-based label-free electrochemical biosensors for the diagnosis of sickle cell anemia
Wjdan Arishi (Saudi Arabia)
Molecular mouse gram-negative resistance cartridges are a valid option for rapid antibiotic resistance detection in blood culture bottles
Veronica Seija (Uruguay)

Credits: 2 CPECS®

AFCB SYMPOSIUM 1

09:00-11:00  METABOLIC DISEASES IN ARABIC COUNTRIES
Chair: Myrna Germanos (Lebanon), Adnan Alkhatib (Syria)

Rare genetic diseases in the MENA region
Andre Megarbane (Lebanon)
Inborn errors of immunity in highly consanguineous populations: from diagnosis to intervention
Mohamed Ridha Barbouche (Bahrain)
Epidemiology of the lysosomal storage disorders (LSDs) IN NORTH Africa
Layachi Chabraoui (Morocco)
Overweight and Obesity: the Weight of Genes
Mohamed Mairelaouf (Algeria)

Credits: 2 CPECS®
WASPaLM SESSION

09:00-11:00  THE ROLE OF CLINICAL LABORATORY IN THE DEVELOPMENT OF NEW DRUGS
Chair: Roberto Verna (Italy), Veronica Seija (Uruguay)

The Laboratory in Clinical Research
Roberto Verna (Italy)
The Role of Microbiota in Human Health
Luigina Romani (Italy)
Revolutionizing Antibiotic Strategies: The Power of Innovative Technologies
Veronica Seija (Uruguay)

Credits: 2 CPECS®

EFLM SESSION

09:00-11:00  GREEN LABS. IMPLEMENTING SUSTAINABLE PRACTICES IN MEDICAL LABORATORIES
Chair: Tomris Ozben (Turkey), Snezana Jovicic (Serbia)

Green labs: Implementing sustainable practices in medical laboratories
Tomris Ozben (Turkey)
Striking the Right Balance: Sustainability and Innovation
Ffion Jackson (UK)
Strategies for energy conservation and sustainability
Snezana Jovicic (Serbia)
Waste management for clinical laboratories
Alistair Gammie (UK)

Credits: 2 CPECS®

UAE GDA SESSION

LONGEVITY: DIET & SMART AGING
Chair: Mishkat Shehata (UAE), Jaffer Khan (UAE), Maryam Matar (UAE)

09:15 - 09:30 Mediterranean diet & the prevention of cardiovascular disease
Samia Mora (USA)
09:30 - 09:45 Glycans are modifiable biomarkers and functional effectors of age-related diseases
Gordon Lauc (UK)
09:45 - 10:00 Healthy Longevity Medicine: Restoring and maintaining biological age of optimal performance
Evelyne Bischof (Switzerland)
10:00 - 10:15 The role of membrane lipidome in lifespan: why dietary lipids can impact on longevity
Vincenzo Di Donna (UAE)
10:15 - 10:30 Novel strategies to delay brain aging and cognitive decline
David Vazour (UK)

Credits: 1 CPECS®

ADVANCES IN GENOMICS & EPIGENETICS
Chair: Rifat Hamoudi (UAE), David Vazour (UK), Kamal Khazanehdari (UAE)

10:30 - 10:45 Deconstructing rare diseases with functional genomics - a Middle Eastern adventure
Luis Saraiva (Qatar)
10:45 - 11:00 Epigenetics and Cancer
Ali Hamiche (France)

Credits: 0.5 CPECS®
Plenary Lecture

Chair: Khosrow Adeli (Canada)

11:30-12:30

Precision, Prevention and Women’s Cardiovascular Health: A Global Perspective
Samia Mora (USA)

Dr. Samia Mora

Dr. Mora is a cardiologist and molecular epidemiologist conducting translational research in the prevention of cardiometabolic disease. She is Professor of Medicine at Harvard Medical School, the Director of the Center for Lipid Metabolomics and Director of the Biorepository, Divisions of Preventive and Cardiovascular Medicine, Brigham and Women’s Hospital. She received her undergraduate degree from Harvard University, and her medical degree from Harvard Medical School. Dr. Mora completed an internal medicine residency at Massachusetts General Hospital and cardiovascular disease fellowship at Johns Hopkins Hospital, where she also obtained an MHS degree (Epidemiology) from the Johns Hopkins Bloomberg School of Public Health. Dr. Mora is board certified in cardiovascular disease and echocardiography, and serves on the Editorial Boards of JAMA Internal Medicine and Atherosclerosis. She is an Elected Member of the American Society for Clinical Investigation and the Association of University Cardiologists.

Credits: 1 CPECS®

UAE GDA SESSION

GENOMICS & MICROBIOME DISCOVERIES
Chairs: Ahmed AlHammadi (UAE), Azzam Kayasseh (UAE),

14:00 - 14:30 Breaking the $100 Genome Barrier: Our Journey from Bp to Pb
Toby Huang (USA)

14:30 - 15:00 Enhancing Longevity: Unveiling the Impact of the Gut Microbiome
Alla Zaentc (UAE)

15:00 - 15:30 Understanding the microbiome in rare genetic disorders - Lessons from Very Early Onset inflammatory bowel disease
Souhalia Al Khodor (Qatar)

15:30 - 16:00 Investigating microbiome dysbiosis and species interactions within colonies under diseased conditions employing systems biology approaches.
Mohammad Tauqeer Alam (UAE)

Credits: 2 CPECS®

UAE GDA SESSION

PANEL DISCUSSION - LONGEVITY & SMART AGING
Chairs: Evelyne Bishof (Switzerland), Mussaad Al-Razouki (UAE), Saba Habibollah (UAE)

16:15 - 17:00 Panel discussion
David Vauzour (UK), Jaffer Khan (UAE), Alla Zaentc (UAE), Mishkat Shehata (UAE)

Credits: 0,5 CPECS®
IFCC SYMPOSIUM 2

14:30-16:30  FLOWCYTOMETRY PRINCIPLES AND ITS ROLES IN PRECISION MEDICINE
Chairs: Claude Lambert (France), Heba Raslan (Saudi Arabia)

Principle of flow cytometry and issues in diagnosis
Claude Lambert (France)
FCM in characterizing Lymphoproliferative disorders
Mohamed Brahimi (Algeria)
FCM in diagnosis of immunological disorders and biotherapies
Najla Mekki (Tunisia)
FCM in characterizing acute leukemic disorders
Heba Raslan (Saudi Arabia)

Credits: 2 CPECS®

SYMPOSIUM 3

14:30-16:30  THOUGHTS ON MAINTAINING INNOVATION AND AVAILABILITY OF MEDICAL TESTS OR HOW TO MEET REGULATORY CHALLENGES FOR LAB-DEVELOPED-TESTS
Chairs: Michael Neumaier (Germany), Alexander Halassos (Greece)

Regulatory considerations for Laboratory-Developed Tests from an international perspective: Opportunities and risks for patient care
Folker Spitzenberger (Germany)
Impact of diagnostic regulations on laboratory developed tests in the US
Tina Lothwood (USA)
Off-label Diagnostics - an analogy to individualized therapeutic medicine: the oncology case
Michael Neumaier, Ralf Hofheinz (Germany)
Laboratory medicine and integrated diagnostics: the role of information technology
Mario Plebani (Italy)

Credits: 2 CPECS®

IFCC SYMPOSIUM 3

09:00-11:00  THE POTENTIAL OF SINGLE CELL AND SPATIAL BIOLOGY IN THE EVOLUTION OF CLINICAL MEDICINE
Chairs: Andrew South (USA), Paolo Fortina (USA)

Using single-cell RNA-sequencing to interrogate biologic drug response in psoriasis
Raymond Cho (USA)
Understanding chronic wounds and wound healing using single cell profiling
Ignacio Fuentes (Chile)
Deconvolution of Cell Populations in Non-Melanoma Skin Cancer Using single cell RNA-Seq and Nanodrving digital spatial profiling
Andrew South (USA)
Determining the mechanism of action of cancer therapeutics through single cell profiling
Paolo Fortina (USA)

Credits: 2 CPECS®

SYMPOSIUM 4

09:00-11:00  THE ROLE OF LABORATORY MEDICINE IN DIRECT-TO-CONSUMER TESTING (DTCT)
Chairs: Sverre Sandberg (Norway), Matthias Orth (Germany)

What is Direct To Consumer Testing, DTCT and is it compatible with the “choose wisely” campaign?
Sverre Sandberg (Norway)
The variety and range of direct-to-consumer testing
Patti Shih (Australia)
We must speak up – what is the role of laboratory medicine in DTCT?
Matthias Orth (Germany)
How to compare point-of-care testing results with hospital laboratory results: recommendations for primary healthcare laboratories
Anne Stavelin (Norway)
Dutch Multicenter Study: Point-of-Care Test for CT Lesion Prediction in Mild Traumatic Brain Injury using GFAP and UCH-L1
Walid Chayoua (the Netherlands)

Credits: 2 CPECS®
SSCC SYMPOSIUM 1

09:00-11:00  INBORN ERRORS OF METABOLISM IN SAUDI ARABIA
Chair: Ali Alothaim (Saudi Arabia), Khalid Al Harbi (Saudi Arabia)

Novel inborn errors of metabolism discovery in Saudi Arabia
Majid Alfadhel (Saudi Arabia)
Landscape of Mitochondrial disorders in Saudi Arabia
Naif Almontashiri (Saudi Arabia)
Overview of Newborn screening program in Saudi Arabia
Fuad Almutairi (Saudi Arabia)
Integrates genomic and Metabolomics technologies to unravel the diagnostic odyssey in rare diseases
Malak Alghamdi (Saudi Arabia)

Credits: 2 CPECS®

SYMPOSIUM 5

09:00-11:00  MACHINE LEARNING AND CLINICAL DECISION SUPPORT: TECHNOLOGIES THAT GENUINELY MAKE PEOPLE’S LIFE BETTER
Chair: Hernán Fares Taie (Argentina), Waleed Al Tamimi (Saudi Arabia)

Clinical decision support and Machine Learning: Improving medical decisions and enhancing the value of the clinical laboratory in healthcare
Hernán Fares Taie (Argentina)
Navigating Through Current ML Applications in Clinical Labs: From Preanalytical to Post-analytical Phases
Deniz Ilhan Topcu (Turkey)
Machine Learning in healthcare: Current applications and future perspectives
Stephen Master (USA)
Artificial intelligence (AI)-driven clinical decision support to predict urine culture outcome
Lieselot Dedeene (Belgium)
Tackling the implementation hurdle: user-centric validation of a machine-learning decision support tool for the screening of mild bleeding disorders
Henning Nilius (Switzerland)

Credits: 2 CPECS®

UAE SYMPOSIUM 1

09:00-11:00  METABOLIC AND NONCOMMUNICABLE DISEASES
Chair: Fayha Salah Ahmed (UAE), Abdelhalim Chachou (Algeria)

UAE cardiometabolic guidelines
Hani Sabbour (UAE)
The burden of Non-alcoholic fatty liver disease: screening, diagnosis and management.
Fayha Salah Ahmed (UAE)
Diabetes in UAE
Riad Bayoumi (UAE)
Markers of Alzheimer and neurological disorders.
Laila AbdelWareth (UAE)

Credits: 2 CPECS®

APFCB SESSION

09:00-11:00  CLINICAL DECISION SUPPORT
Chair: Kay Weng Choy (Australia), Tze Ping Loh (Singapore)

Clinical decision support in clinical practice: a systematic review
Adriana Esho (Australia)
Electronic clinical decision support for pathology requesting
Ken Sitaris (Australia)
Automated intelligent validation and verification of results
Wei Cui (China)
Considerations for result interpretation clinical decision support
Tze Ping Loh (Singapore)

Credits: 2 CPECS®
Preliminary Program

**UAE GDA SESSION**

**STEM CELLS & REGENERATIVE MEDICINE**

Chairs: Sfoug AlShammary (Bahrein), Yahya Kiwan (UAE), Fatima Jamali (UAE)

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<tr>
<td>09:15 - 09:30</td>
<td>Development of myocardial regenerative medicine for severe heart failure</td>
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<td>Yoshiki Sawa (Japan)</td>
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<td>09:30 - 09:45</td>
<td>Corneal stem cell therapies: from lab to clinic</td>
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<td>Sujjad Ahmad (UK)</td>
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<td>09:45 - 10:00</td>
<td>Towards a better Understanding of Diabetes-Associated Gene Function</td>
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<td>through iPSC-Derived Islet Organoids</td>
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<td>Essam Abdelalim (Qatar)</td>
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**UAE GDA SESSION**

**ADVANCING CANCER CARE**

Chairs: Burhan Fakhurji (Saudi Arabia), Thomas Adrian (UAE), Mahmood Yaseen Hachim Al Mashhadani (UAE)

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<td>10:20 - 10:40</td>
<td>Towards eliminating minimal residual disease in ovarian cancer to prevent recurrence</td>
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<td>Ahmed Ashour Ahmed (UK)</td>
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<td>10:40 - 11:00</td>
<td>AI in Cancer: Pathology Applications</td>
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<td>Aaron Han (UAE)</td>
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<td>11:00 - 11:20</td>
<td>Plasminogen Activator Inhibitor 1: Bridging Bench and Clinic in Cancer Research</td>
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<td>Khalid Bajou (UAE)</td>
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**Plenary Lecture**

Chair: Maurizio Ferrari (Italy)

11:30-12:30

Genomics in the Middle East: A report card

Fowzan Sami Alkuraya (Saudi Arabia)

Fowzan S Alkuraya is a Professor of Human Genetics at Alfaisal University and the Chairman of the Department of Translational Genomics at King Faisal Specialist Hospital and Research Center. He joined medical school (King Saud University) before turning 15 and graduated first in his class with first class honor. He did his pediatric residency at Georgetown University Hospital, followed by a fellowship in clinical genetics and another in molecular genetics at Harvard Medical School. He also did a postdoctoral research fellowship in the area of developmental genetics in the lab of Prof. Richard Maas at Harvard Medical School. He returned to his native Saudi Arabia to establish the Developmental Genetics Lab, which later evolved into the Center for Genomic Medicine at KFSHRC. He is an authority in the area of Mendelian genetics with more than 520 published manuscripts that describe his lab's discovery of hundreds of novel disease genes in humans as well as many other seminal contributions to the field of human genetics as featured in profiles published by The Lancet and Science. He is a frequently invited speaker at local, regional and international conferences, on the editorial board of prominent human genetics journals, and the recipient of numerous prestigious awards including William King Bowes Award in Medical Genetics (first non-US based winner), King Salman Award for Disability Research and Curt Stern Award (first non-US based winner).
**UAE GDA SESSION**

**LEADING PRECISION THERAPIES**
Chairs: Tomris Ozben (Turkey), Aaron Han (UAE), Rachel Stratton (UAE)

14:00 - 14:30  Unlocking the Potential of "Body on a Chip" to recapitulate Living Systems in vitro
Ken-ichiro Kamei (UAE)

14:30 - 15:00  Pharmacogenetics and its application to clinical daily life
Andrea Griesmacher (Austria)

15:00 - 15:30  Exploring Pharmacogenomics in the Middle East: Opportunities and Challenges
Mohammed Alsbou (UAE)

15:30 - 16:00  Advances in Bone Marrow Transplant
Shatrugh Hashmi (UAE)

**Credits: 2 CPECS®**

**UAE GDA SESSION**

**PANEL DISCUSSION - STEM CELLS & REGENERATIVE MEDICINE**
Chairs: Emmanouil Nikolousis (UAE), Fatima Jamali (UAE), Saba Habibollah (UAE)

16:15 - 17:00  Panel Discussion
Sajjad Ahmad (UK), Geppino Falco (Italy), Fatima Al Kaabi (UAE), Essam Abdelalim (UAE)

**Credits: 0.5 CPECS®**

**IFCC SYMPOSIUM 4**

**ON THE WAY TO CARDIOVASCULAR PRECISION DIAGNOSTICS**
Chairs: Tony Badrick (Australia), Patrick Bossuyt (the Netherlands)

- Urgent need for Cardiovascular Precision Diagnostics to address Residual Cardiovascular Risk.
- Establishing an SI-traceable Reference Measurement System for 7 Serum Apolipoproteins.
- Demonstrating the clinical value of a multiplexed serum Apolipoprotein Panel in the Odyssey Outcome Study.

**Credits: 2 CPECS®**

**SYMPOSIUM 6**

**DIGITAL COMPETENCE AND ARTIFICIAL INTELLIGENCE IN LABORATORY MEDICINE**
Chairs: Damien Gruson (Belgium), Santiago Fares Tale (Argentina)

- Embracing the Digital Frontier: Unveiling Unmet Needs in Laboratory Medicine’s AI Journey
- Revolutionizing Diagnostics: The Clinical Value of Artificial Intelligence in Laboratory Medicine
- Efficiency Amplified: Unleashing Operational Benefits through Digital Competence and AI in Laboratory Medicine
- Harnessing GPT-4 turbo for intelligent laboratory test recommendations: a step forward in next-generation clinical decision support
- Leveraging Machine Learning to Improve Current Diagnostic Algorithms and Laboratory Stewardship

**Credits: 2 CPECS®**
WEDNESDAY 29 MAY 2024

IFCC SYMPOSIUM 5

09:00-11:00  BIOMARKERS FOR NEURODEGENERATIVE DISEASES - IDENTIFICATION, STANDARDIZATION OF PREANALYTICAL AND ANALYTICAL PROCEDURES AND CLINICAL VALIDATION

Chair: Hans Frykman (Canada), Kaj Blennow (Sweden)

The different clinical types of dementia – epidemiology.
Sokratis Papageorgiou (Greece)

Metrological standardization of AD biomarkers - current status future perspectives.
Henrik Zetterberg (Sweden)

Identifying clinically useful biomarkers in neurodegenerative diseases - moving from CSF to blood.
Kaj Blennow (Sweden)

Biomarker panels: analytical and clinical validation against clinically relevant reference standards.
Hans Frykman (Canada)

Credits: 2 CPECS®

SYMPOSIUM 7

09:00-11:00  MEETING THE CHALLENGE OF DEMONSTRATING VALUE IN LABORATORY MEDICINE

Chair: Andrew St John (Australia), Philip Monaghan (UK)

The challenges of delivering value through better test implementation
Andrew St John (Australia)

Philip Monaghan (UK)

How we harnessed laboratory data to improve health and economic outcomes
David G. Grenache (USA)

Impact of a cyber attack on laboratory operators in a university hospital: immediate response and patient security
Sana Yaacoub (Lebanon)

Le Mans Protocol – evidence-based approach to proof your choice of production concept
Jean-Philippe Galhaud (France), Daria Dimitrova (Switzerland)

Credits: 2 CPECS®

SYMPOSIUM 8

09:00-11:00  HOW TO IMPROVE ACCESS TO LAB TESTING IN MIDDLE & LOW INCOME COUNTRIES?

Chairs: Mario Plebani (Italy), Michael Wilson (USA)

The Lancet Commission on Diagnostics
Michael Wilson (USA)

A Global Diagnostics Alliance
Mikashmi Kohli (Switzerland)

The WHO model list of essential in vitro diagnostics and its role in improving access to lab testing in LMICs
Ana Aceves Capri (Switzerland)

Can lipid mediators be useful biomarkers in schizophrenia?
Ahlem Ben Messaoud (Tunisia)

Credits: 2 CPECS®

AFCB SYMPOSIUM 2

09:00-11:00  EPIDEMIC AND PANDEMIC INFECTIOUS IN ARABIC REGIONS

Chair: Abderrazek Hedhili (Tunisia), Hiba BadrEldin Khalil (UAE)

Earthquakes, wars, and emerging infectious disease
Christian Haddad (Lebanon)

Evolution of the epidemiology of viral diseases in relation to migratory movements in the Arab Maghreb countries
Abdelhalim Trabelsi (Tunisia)

Prevalence and incidence rate of infectious diseases in the Middle East and North Africa: Management of such diseases in low-income countries
Ghassan Shanna (Syria)

Viral transmission from animal to humans (zoonosis) in Middle East Challenges and risks
Robin Abu Ghazaleh (Palestine)

Credits: 2 CPECS®
SYMPOSIUM 9

09:00-11:00  HEALTHCARE DELIVERY IN THE 21 CENTURY AND THE ROLE OF THE CLINICAL LABORATORY
Chair: Nader Rifai (USA), Nashat Nafouri (Saudi Arabia)

Implementation of Emerging Technologies
Ronda Greaves (Australia)

Sustainability and Environmental Impact of the Clinical Laboratory
Ian Young (UK)

The Role of the Clinical Laboratory in Supporting Equity in the Delivery of Healthcare
Christina Pierre (USA)

A Green Laboratory Approach to Medical Sample Transportation between Two Medical Laboratories: Assessing the Environmental Impact of Drone, Combustion Car, and Electric Car Transportation of Medical Samples
Noel Rouven Sterlin (Switzerland)

Green laboratory medicine in Africa: what is the contribution to environmental toxicity and how prepared is the continent for sustainable laboratory medicine?
John Anetor (Nigeria)

Credits: 2 CPECS®

COLABIOCLI SESSION

09:00-11:00  EMERGING AND RE-EMERGING DISEASES IN LATIN AMERICA, A VIEW FROM PUBLIC HEALTH
Chair: Maria Elizabeth Meneses (Brazil), Moisés Ramos Solano (Mexico)

Current Molecular Diagnosis of Dengue, Zika and Chikungunya in the Region of the Americas
Maria Elizabeth Meneses (Brazil)

Molecular and Epidemiological Aspects of Dengue Infection
Moisés Ramos Solano (Mexico)

Advances in the study of innate immunity against Mycobacterium tuberculosis
Luisa Maria Nieto Ramirez (Colombia)

Zika a Virus that changed the History of a Generation
Marcela Mercado (Colombia)

Credits: 2 CPECS®

09:00 - 09:15  Opening Message
Fatima Al Kaabi (UAE)

UAE GDA SESSION
GENOMICS OF RARE DISEASES I
Chair: Bassam Ali (UAE), Maryam AlShehhi (UAE), Shaikha Almazrouei (UAE)

09:15 - 09:40  Unraveling common dyslipidemia in a population through genetic screening
Fahad Mahmood Al Zadjali (Oman)

09:40 - 10:00  Genetics of Pediatric Cardiomyopathy: New Findings and Challenges
Alireza Haghighi (USA)

10:00 - 10:15  Deciphering the Genetic Landscape of ADPKD: Paving the Way for Novel Therapeutic Targets
Hamad Ali Yaseen (Kuwait)

10:15 - 10:30  Newly identified Syndromes with novel phenotypes in Omani patients
Musallam Al Araimi (Oman)

10:30 - 10:45  Promoting Rare Diseases Research in China: Challenges and Solutions
Boya Yu (China)

10:45 - 11:00  Unveiling the Genetic Landscape of the Arab Population
Zeina Almahayri (UAE)

Credits: 1.5 CPECS®
Plenary Lecture

Chair: Matthias Müller (Austria)
11:30-12:30

**Obesity: novel developments in diagnostics of underlying causes and treatment**

*Elisabeth van Rossum (the Netherlands)*

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Prof Liesbeth van Rossum, MD PhD

Prof Liesbeth van Rossum, MD PhD, is internist-endocrinologist and professor in the field of obesity and stress hormone research at the Erasmus University Medical Center, Rotterdam, Netherlands. She is co-founder of the Obesity Center CGG, an internationally recognized academic center of expertise for diagnostics of underlying causes of obesity and personalized treatments.

Currently, Van Rossum holds various societal and board positions, amongst which European lead of the theme Obesity, Diabetes, Nutrition and Metabolism of the European Society for Endocrinology, member of the European Policy Working Group for obesity, chair of the National Obesity Guideline, and president of the Partnership Overweight Netherlands, an umbrella organization of 20 associations of health care organisations, with an advisory role to the Ministry of Health Welfare on obesity policy. She received multiple international awards and grants for her scientific research, is a frequently invited speaker on scientific congresses, (inter)national media, TEDx, and published with colleague Mariette Boon an international award-winning book “FAT, the secret organ.”

**Credits: 1 CPECS®**

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**UAE GDA SESSION**

**GENOMICS OF RARE DISEASES II**

*Chairs: Hibat Omer (UAE), Noura Almatrooshi (UAE)*

14:00 - 14:30 Global and Regional burden of Congenital Disorders Compared with the UAE’s National Burden

Wael Osman (UAE)

14:30 - 15:00 Testing and Counselling for Genetic Disorders in the Genomic Era

Qurratulain Hasan (India)

15:00 - 15:20 Rare Diseases(RD): The Importance of Early Detection and Treatment in Ramathibodi Hospital Thailand

Thanachai Sura (Thailand)

15:20 - 15:40 Rare Diseases and Gene Editing: Applications in the Neuromuscular Field

Jon Andoni Urtizberea (France)

15:40 - 16:00 A Holistic Model Addressing the Needs of Rare Disorders - Case of Duchenne Muscular Dystrophy (DMD)

B. R. Lakshmi (India)

**Credits: 2 CPECS®**

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**UAE GDA SESSION**

**PANEL DISCUSSION - RDI GLOBAL COMMISSION FOR RARE DISEASES HYBRYD: PATIENT AND FAMILY EMPOWERMENT**

*Chairs: Mariam Aleissa (Saudi Arabia), Hibat Omer (UAE), B. R. Lakshmi (India)*

16:15 - 17:00 Panel Discussion

Various from RDI

**Credits: 0,5 CPECS®**
**AFCC SESSION**

**14:30-16:30 INBORN ERRORS OF METABOLISM IN AFRICA**  
Chair: A.B. Okesina (Nigeria)

Challenges in National Newborn Screening Program in Africa  
A.B. Okesina (Nigeria)

Prevalence of Inborn Errors of Metabolism in Africa  
John I. Anetor (Nigeria)

Clinical, Laboratory and Molecular Spectrum of Galactosaemia in Newborns in Africa  
R.T. Erasmus (South Africa)

Requirements for the establishment of Newborn Screening Program in Africa  
G.T. Ahalu (Ethiopia)

Credits: 2 CPECS®

**SYMPOSIUM 10**

**14:30-16:30 TOXICOLOGY ENVIRONMENTAL AND HEALTH EFFECTS**  
Chair: Abderrazek Hedhili (Tunisia), Ahmad Al Asmari (Saudi Arabia)

Use of Per- and polyfluoroalkyl substances (PFASs) in medical technologies, what are the challenges with finding alternatives, how these technologies containing PFAS are handled at the end of life and how risks are managed  
Aldo Tomasi (Italy)

Exposure and Health Effects of Perfluoroalkyl Substances (PFAS): Insights from Population Surveys and Risk Assessment  
Nolwenn Noisel (Canada)

The evolution of human biomonitoring and its impact on clinical laboratory medicine.  
David Kinniburgh (Canada)

Credits: 2 CPECS®

**NAFCC SESSION**

**14:30-16:30 LABORATORY MEDICINE ADVANCING GLOBAL HEALTH ACROSS THE LIFESPAN**  
Chair: Octavia M Peck Palmer (USA), Paul M. Yip (Canada)

Pediatric health: Vitamin and Trace element testing  
Kamisha Johnson-Davis (USA)

New chance at life: Infectious disease testing  
Allison A Venner (Canada)

Maternal-fetal health: Early detection of pre-eclampsia  
Paul M. Yip (Canada)

Medically underserved populations: Delivering evidence-based care via point of care testing  
Octavia M Peck Palmer (USA)

Credits: 2 CPECS®
THURSDAY 30 MAY 2024

SYMPOSIUM 11

09:00-11:00  CIRCULATING CANCER BIOMARKERS: QUO VADIS?
Chair: Ron HN van Schaik (the Netherlands), Dobrin Svinarov (Bulgaria)

Liquid biopsy / cell free DNA analysis: too hot to handle, or right up our alley?
Ron HN van Schaik (the Netherlands)

Liquid biopsy: from discovery to clinical implementation
Simon Joosse (Germany)

Integrating liquid biopsy with advanced imaging analysis to improve the prediction of response to immune therapy in patients with NSCLC
Marzia del Re (Italy)

Improving endpoint digital PCR in multiplexing capacity and specificity for multigene-associated disease detection
Dongdong Liu (China)

Credits: 2 CPECS®

SYMPOSIUM 12

09:00-11:00  PREVENTING KIDNEY DISEASE USING ADVANCED URINE SCREENING AND KIDNEY DAMAGE MARKERS
Chair: Joris Delanghe (Belgium), Osama Najar (Palestine)

Update to laboratory assessment of kidney diseases
Joris Delanghe (Belgium)

Preventing diabetic nephropathy; follow-up with laboratory markers
Marc De Buyzere (Belgium)

Urine particle analysis in detection of kidney diseases
Rosanna Falbo (Italy)

Raman spectroscopic analysis of urine combined with machine learning identifies life-threatening inborn errors of metabolism
Jing Cao (USA)

Interferences in non-immunological albumin assays by carbamylated albumin
Hans Günther Wahl (Germany)

Credits: 2 CPECS®

SSCC SYMPOSIUM 2

09:00-11:00  DYSGLYCEMIA - NOVEL BIOMARKERS FOR DIAGNOSIS AND MONITORING PROGNOSIS
Chair: Suhad Bahijri (Saudi Arabia), Manel Chaabane (Tunisia)

Epidemiology of Diabetes in the Arabian Gulf Countries: Challenges and Opportunities
Yousef Al Saleh (Saudi Arabia)

Use Of Glycated Products In Diagnosis
Nafila Al Riyami (Oman)

Use of 1-hour glucose challenge test in diagnosis and predicting future complications
Jaakko Tuomilehto (Finland)

Novel Biomarkers to improve diagnosis and monitor prognosis
Suhad Bahijri (Saudi Arabia)

Credits: 2 CPECS®

SYMPOSIUM 13

09:00-11:00  PERFORMANCE SPECIFICATIONS OF MEDICAL TESTS BASED ON CLINICAL OUTCOME STUDIES
Chair: Andrea Rita Horvath (Australia), Mohammed Habbab (Saudi Arabia)

Outcome-based analytical performance specifications - current status and future directions
Andrea Rita Horvath (Australia)

Testing related outcomes and analytical performance - the linked evidence approach
Patrick Bossuyt (the Netherlands)

A practical approach to determining blood ketone performance specifications
Eric Kilpatrick (Qatar)

Why most diagnostic studies overestimate test performance: evidence from a large-scale meta-analysis
Michael Nagler (Switzerland)

Implementation and evaluation of hyper-automated newborn bloodspot screening for SCID and SMA in Victoria, Australia
Nazha Mawad (Australia)

Credits: 2 CPECS®
SYMPOSIUM 14
09:00-11:00 UTILIZATION MANAGEMENT AND SUCCESSFUL APPROACHES TO CHANGE AND IMPROVE TEST REQUESTING
Chair: Mario Plebani (Italy)

Utilization management and appropriateness in clinical laboratory: state-of-the-art
Mario Plebani (Italy)

How to deal with inappropriate laboratory retesting?
Ivana Lapic (Croatia)

The noble art of leaving out
Prabath Nanayakkara (the Netherlands)

Monitoring magnesium status in the pediatric liver transplant: total or ionized?
Estefani Martinez Chavez (Spain)

Comparison of non-invasive testing strategies by costs and referral rates in veteran population with Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD)
Artem T. Boltyenkov (Germany)

Credits: 2 CPECS®

UAE SYMPOSIUM 2
09:00-11:00 AI & MACHINE LEARNING APPLICATIONS IN LABORATORY MEDICINE
Chair: Laila AbdelWareth (UAE)

Case study of machine learning and AI application in pathology
Ayub Nahal (UAE)

AI and Decision support systems
Hady Elthodory Dubai (UAE)

Intraoperative Mass Spectrometry: Recent updates and Challenges to Implementation
Shereen Hassan Atef (UAE)

Medical Laboratories between shrinking workforce and Artificial Intelligence
Ola Elgaddar (UAE)

Credits: 2 CPECS®

09:00 - 09:15 Opening Message
Ministry of Artificial Intelligence (UAE)

UAE GDA SESSION
GLOBAL HEALTH AI: UNITING NATIONS FOR GENOMIC INSIGHTS AND DATA GOVERNANCE
Moderator: Mazin Gadir (UAE), Fady Hannah-Shmouni (UAE), Philippe Gerwill (UAE)

09:15 - 09:30 From Data to Action: AI-powered Personalized Medicine and Global Health Equity
Noor AlSaadoun (Saudi Arabia)

09:30 - 09:45 Will Artificial Intelligence deliver Genomic Medicine?
Review of applications of artificial intelligence in genomic medicine.
Mark Bartlett (UK)

09:45 - 10:00 Genomic Data Privacy & Security: Emirati Genome Project
Tiago Magalhoes (UAE)

10:00 - 10:15 The Automation of Clinical Genetic Data through Implementation of ACMG guidelines
Mariam Eldesouky (UAE)

10:15 - 10:30 Beyond Borders, Beyond Bias: Can XR Revolutionize Healthcare Equity?
Sana Farid (Saudi Arabia)

10:30 - 10:45 PreciousGPT: Multimodal multiomics multi-species, multi-tissue multitasking transformers for aging research and drug discovery
Alex Zhavoronkov (UAE)

Credits: 1,5 CPECS®

UAE GDA SESSION
PANEL DISCUSSION - GENOMICS IN THE METAVERSE
Chairs: Philippe Gerwill (UAE), Noor AlSaadoun (Saudi Arabia)

10:45 - 11.30 Panel discussion
Ben El Idrissi (UAE), Khulood AlSayegh (UAE), Alex Zhavoronkov (UAE), Sonal Ahuja (UAE), Sana Farid (Saudi Arabia)

Credits: 0,5 CPECS®
Plenary Lecture

Chair: Anwar Boraï (Saudi Arabia)

11:30-12:30

Making molecular diagnostics faster
Carl Wittwer (USA)

Carl Wittwer, MD, PhD is Professor Emeritus of Pathology at the University of Utah. With more than 200 articles focusing on technique and instrument development in molecular diagnostics, he developed rapid PCR (15 min) in the 1990s and was the primary inventor of the LightCycler® system, with over 10,000 units placed worldwide by Roche. Carl holds over 40 US patents and their foreign equivalents. He introduced SYBR Green, hybridization probes, and melting analysis to real-time PCR and continues to develop extreme PCR (< 1 min) and high-speed DNA melting (<5 s). Carl co-founded BioFire Diagnostics and served as Chairman of the Board from 2012 until its acquisition by bioMerieux in 2014, most notable for the FilmArray syndromic diagnostic platform with over 20,000 placements worldwide. He is an Associate Editor of Clinical Chemistry and chair of the Scientific Advisory Board of CoDiagnostics. Much of his work can be found at www.dna-utah.org.

Credits: 1 CPECS®

CLOSING CEREMONY

12.30-13.00

Closing Remarks
Welcome to WorldLab 2026
Farewell cocktail
Preliminary Program

IFCC WORLDLAB 2024

Congress delegates are cordially invited to submit abstracts of their scientific work for presentation as a free communication at the IFCC Worldlab 2024 Congress.

An unlimited number of abstracts may be submitted provided the presenting author applies for “full registration” or “young registration”.

Abstracts are welcome in all fields of clinical chemistry, haematology, clinical molecular biology and laboratory medicine, in the broader sense. Free communications are primarily presented via poster. A limited number of abstracts will be selected for oral presentation during congress symposia. Authors wishing to compete for these oral communication slots should mark the appropriate field on the on-line abstract-submission form.

How to prepare and submit an abstract

It is important to carefully follow the instructions below. Incorrectly prepared abstracts will be rejected.

- Abstracts should be prepared off-line in advance;
- Prepare your abstract on a word processor (such as Microsoft Word);
- Do not include title, authors’ names and affiliations in the abstract file;
- Tables and figures are not allowed;
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Dubai metro
Dubai’s public transport is both a safe and cost-effective way to reach
With the dedicated metro station, Dubai’s metro system is a quick and efficient option. The world’s longest driverless train system is clean, quiet and fully air conditioned. Trains run every few minutes, from 5 am to 11 pm using a Nol Card, which can be obtained easily from any station.
You may also want to combine your metro trip with a ride on one of Dubai’s many bus routes. For specific journey planning to and from Dubai World Trade Centre, visit the link below.

Dubai taxi
Metered taxis are easy to find, regulated, clean and comfortable. They also provide a great opportunity to take in the sights of the city.
With more than 5,300 RTA taxis available, hailing a cab is never a problem. Almost all drivers are familiar with our location and the various drop-off points around Dubai World Trade Centre. Female passengers can also opt for a Ladies-only taxi, should they prefer to.

GETTING THERE

CONGRESS VENUE
Dubai World Trade Centre
Trade Centre – Trade Centre 2
Dubai – United Arab Emirates

REGISTRATION DESK
The registration desk will be open during the congress as follows:
26 May 2024 11:00 - 19:00
27 May 2024 08:00 - 18:00
28 May 2024 08:00 - 18:00
29 May 2024 08:00 - 18:00
30 May 2024 08:30 - 14:00

CONGRESS LANGUAGE
The congress’ official language is English.

NAME BADGE
A name badge will be required for access to the congress area. Participants will receive a name badge when they check in at the registration desks/kiosks. It must be worn at all times.

INDUSTRY EXHIBITION
Participants are encouraged to visit the large industry exhibition, which will be open as follows:
27 May 2024 10:00 - 17:30
28 May 2024 10:00 - 17:30
29 May 2024 10:00 - 17:30

Access to the exhibition area is free of charge for participants registered to the congress.
All the other visitors will be given the possibility to print a free visitor badge in advance or to collect it at a dedicated desk situated at the entrance of the area.

CERTIFICATE OF ATTENDANCE
All properly registered attendees, for the day(s) they actually take part in the congress, will be entitled to receive a certificate of attendance.

REGISTRATION DESK

OFFICIAL CARRIER
Emirates has been appointed as Official Carrier. Further details on benefits available on the congress website.

VISAS REQUIREMENTS
Depending on the nationality of the delegates it may be necessary to obtain a visa before leaving.
We recommend asking your country’s Embassy or visiting the Emirates Visa Online website.

PERSONAL INVITATION FOR VISA PURPOSES
An official letter of invitation will be sent to you upon request. The invitation letter may be used by visitors to raise travel funds or to obtain a visa, but is not a commitment on the part of the organisers to provide any financial support.
Please contact the Organising Secretariat, registrations@dubai2024.org, to request a letter of invitation.

Emirates has been appointed as Official Carrier. Further details on benefits available on the congress website.

Preliminary Program
REGISTRATION FEES

All delegates must register for the congress. Registration fees are as follows:

<table>
<thead>
<tr>
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<th>Until 15 March 2024</th>
<th>After 15 March 2024</th>
<th>On-site registration</th>
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<tbody>
<tr>
<td>Full Registration</td>
<td>€500.00</td>
<td>€650.00</td>
<td>€750.00</td>
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<tr>
<td>Young Registration</td>
<td>€250.00</td>
<td>€325.00</td>
<td>€375.00</td>
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<tr>
<td>Day Registration</td>
<td>€175.00</td>
<td>€225.00</td>
<td>€250.00</td>
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The full registration and young registration fees include:
- entrance to plenary lectures, symposia, lunch & educational workshops, poster sessions and exhibition
- possibility to submit abstracts
- certificate of attendance
- coffee and tea service during intermissions
- Opening Ceremony (Sunday, 26 May 2024)
- Closing Ceremony (Thursday, 30 May 2024)

The day registration fee includes, for the day of registration only:
- entrance to plenary lectures, symposia, lunch & educational workshops, poster sessions and exhibition
- certificate of attendance
- coffee and tea service during intermissions

REMITTANCE

Registration fees shall be paid by credit card or bank transfer through the on-line system available on the congress web site.
When paying by bank transfer, a copy of the transfer receipt must be sent to registrations@dubai2024.org. Registrations without proof of payment will not be accepted.
On-site registrations may be paid only by credit card or cash. Cheques will not be accepted.
The organising secretariat will send registration receipt upon receipt of payment, via e-mail. Be sure your e-mail address is filled in correctly.

CANCELLATION AND REFUND

Cancellations must be sent in writing to registrations@dubai2024.org.
The amount equal to 80% of the fee paid will be refunded for cancellations received by 15 March 2024. Until 30 April 2024, a refund of 50% of the fee will be granted. After 30 April 2024, no refunds will be issued.
All refunds will be paid in euros after the congress.

CURRENCY

Registration fees and charges for all events related to the IFCC Worldlab 2024 Congress as well as hotel cost must be paid in euros.

LIABILITY AND INSURANCE

Registration fees do not include the insurance of participants against personal accidents, sickness and cancellations by any party, theft, loss or damage to personal possessions. Participants are advised to take out adequate personal insurance to cover travel, accommodation, cancellation and personal effects.

CANCELLATION OF THE CONGRESS

The congress secretariat reserves the right to cancel the congress, shift venue, or change dates without notice, in case of “force majeure”. Neither MZ Events nor the Congress Organizing Committee shall be liable for any damage claims.

HOTEL ACCOMMODATION

KENES GROUP
Rue François-Veronneux 7
1207 Geneva | Switzerland
Phone: +41 22 908 0488 Ext 292
Website: www.kenes.com
Olina Stoyanova
Hotel Sales
E: ostoyanova@kenes.com
T: 0041 22 908 0488

DESTINATION PARTNER

IFCC WORLDLAB 2024