

**2021**

**28 NOVEMBER**

**2 DECEMBER**

**ICM MUNICH  
GERMANY**



PRELIMINARY PROGRAMME



# EUROMEDLAB 2021 MUNICH



24<sup>TH</sup> IFCC-EFLM EUROPEAN CONGRESS OF CLINICAL CHEMISTRY AND  
LABORATORY MEDICINE  
NATIONAL CONGRESS OF THE GERMAN SOCIETY OF CLINICAL CHEMISTRY  
AND LABORATORY MEDICINE

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## CONGRESS SECRETARIAT

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For information on any specific topic, please refer to the following e-mails:

General information:	<a href="mailto:info@euromedlab2021munich.org">info@euromedlab2021munich.org</a>
Abstracts & Posters (information only):	<a href="mailto:posters@euromedlab2021munich.org">posters@euromedlab2021munich.org</a>
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Hotel reservation:	<a href="mailto:isapir@kenes.com">isapir@kenes.com</a> Attn: Mrs. Irina Sapir

## DATES TO FOCUS ON

August 31<sup>st</sup>, 2021

Deadline for poster abstract submission

October 15<sup>th</sup>, 2021

Deadline for reduced registration fees

## WELCOME MESSAGES



EuroMedLab Congress 2021 – Munich, Germany

Munich, Germany, will set a perfect backdrop for the next EuroMedLab Congress 2021, hosted jointly by IFCC, EFLM, and the German Society. This premier education event in clinical chemistry and laboratory medicine, will give attendees access to world-renowned faculty from regional and international centres of excellence. The Congress Organizing Committee will be featuring innovative and diverse education opportunities incorporating the best of clinical laboratory medicine and in vitro diagnostics, including lectures, symposia, recent advancements in clinical practice and science, poster presentations, and exciting social events. In addition, look for the latest laboratory technology innovations to come to Germany! This international meeting will connect the latest technological breakthroughs in diagnostic laboratory technology with the best minds in laboratory medicine from Europe and all regions around the world to help you and your team learn the latest and greatest in clinical laboratory science, technology and medicine.

It is my great pleasure to invite all of you to register and participate in the academic sessions and industry exhibits of the 2021 EuroMedLab Congress. Without doubt, the biannual EuroMedLab congresses have proven to be one of the leading forums to bring together scientists, laboratory specialists, clinicians, and industry colleagues in the field of laboratory medicine. The year 2021 will be an exciting and fast evolving time for the field of clinical laboratory medicine, as the world (and our field) emerges from the global fight against the current pandemic. It will be timely and an excellent opportunity to gather again in an international forum and meet colleagues from across Europe and many other countries around the globe. Our field is confronting a time of many changes and technological advancements, allowing for a much greater role for our professionals as partners in the centre of healthcare. The world of laboratory medicine is an exciting area that is witnessing continued innovations in both IVD technology but also process improvement and electronic communications of patient data. The IFCC organization is thus pleased to partner with EFLM and MZ Congressi to hold the 2021 congress, enabling scientific exchange and close interactions among laboratory scientists, clinicians, and diagnostic industry leaders. Bringing all of us together in forums like this will ensure that our organization and the field of laboratory medicine remain at the cutting edge.

Munich is a well-known international city, attracting hundreds of thousands of people from all over the world each year, and it is easy to see why it would be a perfect venue to hold the next EuroMedLab Congress. The organizing and scientific organizing committees have planned not only an outstanding scientific program but also social events and opportunities for attendees to enjoy many attractions in and around the city. I wish you all an enjoyable and productive conference and a pleasant stay in the beautiful city of Munich.

Professor Khosrow Adeli  
IFCC President (2020-2023)





## WELCOME MESSAGES



Dear Colleagues and Friends,

it is my distinct pleasure to invite you to the 24th IFCC-EFLM European Conference for Clinical Chemistry and Laboratory Medicine “EUROMEDLAB 2021” that is to be held in Munich, Germany from November 28th to December 2nd 2021. Munich is the capital of Bavaria, a German region thriving and booming in latest medical and health technologies, IT sciences/digitalization and a lively Biotech community. EFLM applauds the German Society of Clinical Chemistry and Laboratory Medicine (DGKL) for having chosen Munich as the venue for what can be expected to be yet another successful large conference of the splendid EUROMEDLAB series. Munich’s fabulous conference facilities will provide the floor to discussing important developments in the field of Laboratory Medicine from various angles with colleagues from Europe and abroad. Today, all of us experience the rapidly increasing pace of a changing modern medicine. Within the foreseeable future, we can expect that new concepts in health care will have pronounced and challenging impacts on a professional discipline so central for efficient diagnostic medicine like ours. With still more than two years from now, we can already look forward to the 24th EUROMEDLAB conference to provide us with the latest developments and a state-of-the-art account on Laboratory Medicine organized by IFCC, EFLM and DGKL. Then, a broad range of international speakers, key opinion leaders and stakeholders will bring front-edge topics in health care, diagnostic technologies, scientific advances and professional matters to life. A generous exhibition floor will allow the diagnostic industry to display their latest products. So please mark November 2021 for your next EUROMEDLAB experience in Munich, Germany. EFLM likes to extend an invitation to you, and we look forward to welcoming you there.



Prof. Dr. Michael Neumaier  
Chair of Organizing Committee



## WELCOME MESSAGES



Dear colleagues and friends,

it is my great pleasure to invite you to EuroMedLab 2021 – XXIV IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine –which has been rescheduled due to the Covid pandemic to November 28th to December 2nd 2021. EuroMedLab will be hosted by the German Society of Clinical Chemistry and Laboratory Medicine (DGKL) in Munich.

We have chosen Munich as the Congress City, not only because the capital of Bavaria is at the heart of one of Germany's most vibrant high-tech and biotechnology region with world renowned universities and research institutions, but also because Munich has a centuries old history in central Europe. Over recent years, Munich has been ranked in international surveys for quality of living continuously among the top 5 cities worldwide. And last but not least, Munich with its International Congress Center is easy to reach from all over Europe and the world.

DGKL as one of the oldest national societies devoted to clinical chemistry and laboratory medicine is proud to host this exciting event and hold its annual meeting 2021 together with EuroMedLab. This is once again a unique opportunity to network with colleagues from Europe and beyond. With EuroMedLab 2021 in Munich we will continue the successful biennial congress format organized by IFCC, EFLM and the hosting national society. The programme will provide a most up-to-date and comprehensive overview of the hot topics in our field. It will cover cutting edge science and novel breakthrough technologies which may reshape our specialty as well as educational sessions. In the commercial exhibition diagnostic companies will present their latest products.

Having said this, we sincerely look forward to welcoming you in Munich in autumn 2021.

Best regards,



Prof. Dr. Karl J. Lackner  
Congress President



## WELCOME MESSAGES



Dear Colleagues and Friends,

do you remember what was the last conference you attended? What was it that made it so memorable? How did you feel after the conference? If you would have to use one word to define it, I bet you would say that it was inspiring. And that is probably why people attend conferences. We attend conferences not only to expand our knowledge and learn, but also to network, to meet people like us, to intermingle, meet old colleagues and dear friends and even to make some new personal and professional relationships. It is a great opportunity to discuss various issues with other colleagues from all over the world who are facing same problems and struggles, just like we do. Finally, conferences are also about meeting and getting to know people we so much admire, our professional or scientific role models, or just someone who has made some significant impression on us.

And exactly because of all the above reasons, I wish to take the pleasure to invite you on behalf of the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM), to join us at the 24th Euromedlab, the IFCC-EFLM European Conference for Clinical Chemistry and Laboratory Medicine organized together by IFCC and EFLM in collaboration with the German Society of Clinical Chemistry and Laboratory Medicine (DGKL).

Come to Euromedlab and join us for what will surely be another successful and inspirational meeting.

Learn from the best. Learn from some of the top scientists in our profession. Come to Euromedlab to network, mix and mingle, meet like-minded colleagues.

Come to broaden your knowledge and skills, to get inspired.

Help us make it a success, make it a truly memorable meeting that has helped you grow and be a better version of yourself.

I am looking forward to meeting you all in Munich, in November 2021.

Yours sincerely,

Prof. Ana-Maria Šimundić  
EFLM President (2020-2021)



## COMMITTEES

### CONGRESS ORGANISING COMMITTEE

Michael Neumaier, *Chair*  
Karl Lackner, *Congress President*  
Philippe Gillery, *SPC Chair*  
Maria Montserrat Blanes Gonzalez  
Stefano Montalbetti  
Rolf Hinzmann  
Tomris Ozben  
Abir Alhelou  
Tomás Zima

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Andrea Griesmacher (Austria)  
Joris Delanghe (Belgium)  
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Dobrin A. Svinarov (Bulgaria)  
Jasna Lenicek Krleza (Croatia)  
Spyroula Christou (Cyprus)  
Richard Pickner (Czech Republic)  
Kalle Kisand (Estonia)  
Kari Pulkki (Finland)  
Sylvain Lehmann (France)  
Jürgen Ruland (Germany)  
Costas Makris (Greece)  
Éva Ajzner (Hungary)  
Leifur Franzson (Iceland)  
Marielle Kaplan (Israel)  
Giuseppe Lippi (Italy)

### EXECUTIVE BOARDS

#### IFCC EXECUTIVE BOARD (2020)

Khosrow Adeli, *President*  
David Kinniburgh, *Secretary*  
Tomris Ozben, *Treasurer*  
Rolf Hinzmann, *Corporate Representative*  
Adekunle B Okesina, *African Federation of Clinical Chemistry (AFCC)*  
Abderrazek Hedhili, *Arab Federation of Clinical Biology (AFCB)*  
Sunil Sethi, *Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB)*  
Sverre Sandberg, *European Federation of Clinical Chemistry and Laboratory Medicine (EFLM)*  
Rosa Sierra-Amor, *Latin-American Confederation of Clinical Biochemistry (COLABIOCLI)*  
Ann Gronowski, *North American Federation of Clinical Chemistry and Laboratory Medicine (NAFCC)*

#### EFLM EXECUTIVE BOARD

Ana-Maria Simundic, *President*  
Michael Neumaier, *Past President*  
Tomris Ozben, *President-Elect*  
Giuseppe Lippi, *Secretary*  
Klaus P. Kohse, *Treasurer*  
Pilar Fernandez-Calle, *Member-at-Large*  
Dalius Vektus, *Member-at-Large*

## SCIENTIFIC PROGRAMME COMMITTEE

Philippe Gillery, *Chair*  
Christa Cobbaert  
Eric Kilpatrick  
Karl Lackner, *Congress President*  
Sverre Sandberg  
Saara Wittfooth

Valdete Topciu Shufta (Kosovo)  
Dalius Vitkus (Lithuania)  
Jasna Bogdanska (Macedonia)  
Robert de Jonge (Netherlands)  
Jens Petter Berg (Norway)  
Katarzyna Fischer (Poland)  
João Faro Viana (Portugal)  
Cristina Mambet (Romania)  
Andrei Ivanov (Russia)  
Snezana Jovicic (Serbia)  
Hedviga Pivovarníková (Slovak Republic)  
Blaz Krhin (Slovenia)  
Antonio Buño (Spain)  
Mats Ohlson (Sweden)  
Michel F. Rossier (Switzerland)  
Dogan Yucel (Turkey)  
Dimitris Grammatopoulos (UK)

#### DGKL EXECUTIVE BOARD

Matthias Nauck, *President*  
Harald Renz, *Vice-president*  
Matthias F. Bauer, *Treasurer*  
Katrin Borucki, *Secretary*  
Jürgen Hallbach, *Further Member*  
Mariam Klouche, *Further Member*

WEEK AGENDA

Sunday 28 November

17.00 20.00	OPENING CEREMONY Welcome reception
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Monday 29 November

ROOM	ROOM 1	ROOM 5	ROOM 13a	ROOM 13b	ROOM 14a	ROOM 14c	EXHIBITION HALL
9.00 10.00	PL 1						10.00-17.30 Exhibition open
10.00 10.30	BREAK						
10.30 12.30	SYM 1	SYM 2	SYM 3	SYM 4	SYM 5	DGKL	
12.30 14.00	POSTER SESSION LUNCH						
14.00 15.00	EDUW 1	EDUW 2	EDUW 3	EDUW 4	EDUW 5	SYM 6 (14.00 - 16.00)	
15.30 16.30	VIEWPOINT	EDUW 6	EDUW 7	EDUW 8	EDUW 9		
17.00 18.00	VIEWPOINT	EDUW 10	EDUW 11	EDUW 12	EDUW 13	EDUW 14	

Tuesday 30 November

ROOM	ROOM 1	ROOM 5	ROOM 13a	ROOM 13b	ROOM 14a	ROOM 14c	EXHIBITION HALL
9.00 10.00	PL 2						10.00-17.30 Exhibition open
10.00 10.30	BREAK						
10.30 12.30	SYM 7	SYM 8	SYM 9	SYM 10	SYM 11	DGKL	
12.30 14.00	POSTER SESSION LUNCH						
14.00 15.00	EDUW 15	EDUW 16	EDUW 17	EDUW 18	EDUW 19	SYM 12 (14.00 - 16.00)	
15.30 16.30	VIEWPOINT	EDUW 20	EDUW 21	EDUW 22	EDUW 23		
17.00 18.00	VIEWPOINT	EDUW 24	EDUW 25	EDUW 26	EDUW 27	EDUW 28	

WEEK AGENDA

Wednesday 1 December

ROOM	ROOM 1	ROOM 5	ROOM 13a	ROOM 13b	ROOM 14a	ROOM 14c	EXHIBITION HALL
9.00 10.00	PL 3						10.00-17.30 Exhibition open
10.00 10.30	BREAK						
10.30 12.30	SYM 13	SYM 14	SYM 15	SYM 16	SYM 17	DGKL	
12.30 14.00	POSTER SESSION LUNCH						
14.00 15.00	EDUW 29	EDUW 30	EDUW 31	EDUW 32	EDUW 33	SYM 18 (14.00 - 16.00)	
15.30 16.30	VIEWPOINT	EDUW 34	EDUW 35	EDUW 36	EDUW 37		
17.00 18.00	VIEWPOINT	EDUW 38	EDUW 39	EDUW 40	EDUW 41	EDUW 42	

Thursday 2 December

ROOM	ROOM 1	ROOM 5	ROOM 13a	ROOM 13b	ROOM 14a	ROOM 14c
9.00 10.00	PL 4					
10.00 10.30	BREAK					
10.30 12.30	SYM 19	SYM 20	SYM 21	SYM 22	SYM 23	DGKL
	Closing Ceremony					

**LEGEND**  
PL: Plenary Lecture  
SYM: Congress Symposium  
EDUW: Educational Workshop

17:00-20:00	Welcome addresses Awards Ceremony  <b>OPENING LECTURE</b> <i>Chair: M. Neumaier (Germany)</i>  Where, when, and how? The quest for Extraterrestrial Life <i>W. Duschl (Germany)</i>
19:00	Welcome Cocktail
20:00	Concert free of charge for participants <i>The Munich Convention Bureau is happy to present you a true Bavarian experience. Enjoy a fantastic show introducing you to the Bavarian culture with typical music and dances. Watch out for the whip crackers showing their talents with the whips and listen to the deep sounds of the alpine horns.</i>



SCIENTIFIC PROGRAMME MONDAY, 29 NOVEMBER

9:00-10:00	<b>PLENARY LECTURE</b> <i>Chair: K. Adeli (Canada)</i> Towards next generation diagnostics by X-omics <i>A. Van Gool (Netherlands)</i>
10:00-10:30	Break
10:30-12:30	<b>SYMPOSIUM 1</b> <b>Acute Kidney Injury biomarkers: from lab to bedside</b> <i>Chairs: C. Ronco (Italy), F. Alcantara (Brazil)</i>  The continuum of AKI and the utility of biomarkers <i>C. Ronco (Italy)</i>  New Biomarkers in AKI: application in clinical routine <i>L- Forni (UK)</i>  Prevention/protection of the kidney guided by biomarkers <i>A. Zarbock (Germany)</i>  Two oral communications selected among participants' abstracts
10:30-12:30	<b>SYMPOSIUM 2</b> <b>Chronic myeloproliferative neoplasms</b> <i>Chairs: D. Coriu (Romania), S.N. Constantinescu (Belgium)</i>  Diagnostic algorithm in myeloproliferative neoplasms <i>D. Coriu (Romania)</i>  Inhibiting pathologic signaling induced by driver and epigenetic mutations in myeloproliferative neoplasms: monitoring treatment by next generation sequencing <i>S.N. Constantinescu (Belgium)</i>

	Challenges of using next-generation sequencing technologies in the clinical management of myeloproliferative neoplasms <i>C. Mambet (Romania)</i>  Two oral communications selected among participants' abstracts
10:30-12:30	<b>SYMPOSIUM 3</b> <b>Performance Specifications in Laboratory Medicine - from different models to practical use</b> <i>Chairs: S. Sandberg (Norway), A. R. Horvath (Australia)</i>  Analytical performance specifications: From models to practical use <i>S. Sandberg (Norway)</i>  Outcome-based models - a link between clinical and analytical performance <i>A.R. Horvath (Australia)</i>  A practical way of calculating measurement uncertainty in laboratory medicine and compare it to APS <i>A. Coskun (Turkey)</i>  Two oral communications selected among participants' abstracts
10:30-12:30	<b>SYMPOSIUM 4</b> <b>The impact of Artificial Intelligence in diagnostic imaging: perspectives for Laboratory Medicine</b> <i>Chair: M. Fuchsjäger (Austria), M. Neumaier (Germany)</i>  Speakers and titles to be announced
10:30-12:30	<b>SYMPOSIUM 5</b> <b>COVID-19: biology, clinics, laboratory diagnostics and biosafety issues</b> <i>Chairs: G. Lippi (Italy), S. Sethi (Singapore)</i>  Biology and clinics of COVID-19 <i>G. Lippi (Italy)</i>  Molecular and serological testing of COVID-19 <i>K. Adeli (Canada)</i>  Laboratory responsiveness to COVID-19: results of an IFCC survey <i>L. Tze Ping (Singapore)</i>  Clinical laboratory testing in a pandemic: what we have learned from the COVID-19 experience <i>D. Koch (USA)</i>
10:30-12:30	<b>DGKL SYMPOSIUM</b> <b>Metabolomics via NMR spectroscopy</b> <i>Chairs: M. Nauck (Germany), C. Sina (Germany)</i>  Lipoprotein diagnostics via NMR. From research to clinical application <i>M. Nauck (Germany)</i>  NMR Metabolomics: an enabler of precision nutritio <i>C. Sina (Germany)</i>  NMR Biomarker Research: Targeted and untargeted approach <i>A. Petersmann (Germany)</i>  Two oral communications selected among participants' abstracts



14:00-16:00	<div><div>SYMPOSIUM 6</div><div>Artificial intelligence, data science and laboratory medicine: crossed destinies</div><div>Chairs: D. Gruson (France), M. Cowie (UK)</div><div>The AI data wave, seizing opportunities</div><div>M. Cowie (UK)</div><div>Can collaborations drive successful AI?</div><div>K. Selig (Germany)</div><div>How to dive into large scale dataset?</div><div>D. Bzdok (Germany)</div><div>What are the keys for Europe as a space for data and AI?</div><div>Y. Toliaas (Belgium)</div></div>
15:30-16:30	<div><div>VIEWPOINT 1</div><div>Is eGFR the gold standard for evaluating renal dysfunction?</div><div>Chair: K. Makris (Greece)</div><div>Measuring GFR-tohubohu</div><div>E. Schaeffner (Germany)</div><div>Estimating eGFR: no blind trust</div><div>P. Delanaye (Belgium)</div></div>
17:00-18:00	<div><div>VIEWPOINT 2</div><div>Quantitative mass spectrometry vs immunoassays of clinically relevant peptides and proteins</div><div>C. Cobbaert (Netherlands)</div><div>Can quantitative mass spectrometry replace immunoassays for blood proteins?</div><div>The only question is when?</div><div>C. Borchers (Canada)</div><div>Quantitative mass spectrometry cannot replace immunossays for blood proteins</div><div>S. Lehmann (France)</div></div>

SCIENTIFIC PROGRAMME TUESDAY, 30 NOVEMBER

9:00-10:00	<div><div>PLENARY LECTURE</div><div>Chair: K. Lackner (Germany)</div><div>Biomarkers for cardiovascular risk stratification</div><div>S. Blankenberg (Germany)</div></div>
10:00-10:30	Break
10:30-12:30	<div><div>SYMPOSIUM 7</div><div>Implementation of Liquid Biopsy</div><div>Chairs: M. Neumaier (Germany), V. Haselmann (Germany)</div><div>The European Liquid Biopsy Society</div><div>K. Pantel (Germany)</div><div>Latest development in Liquid Profiling</div><div>N. Papadopoulos (USA)</div></div>

	<div><div>HTA of clinical decision-making of circulating nucleic acids in cancer patients</div><div>M. IJzerman (Australia)</div><div>Topology identification of metastases based on ctDNA</div><div>E. Lianidou (Greece)</div></div>
10:30-12:30	<div><div>SYMPOSIUM 8</div><div>New approaches for determining reference intervals across all ages</div><div>Chairs: Y. Ozarda (Turkey), T. Streichert (Germany)</div><div>Comparison of different approaches for deriving reference intervals</div><div>Y. Ozarda (Turkey)</div><div>Age related RIs: Methods for continuous RIs and possible applications</div><div>T. Streichert (Germany)</div><div>A new computer-intensive approach for the indirect derivation of reference intervals</div><div>K. Ichihara (Japan)</div><div>Two oral communications selected among participants' abstracts</div></div>
10:30-12:30	<div><div>SYMPOSIUM 9</div><div>New insights in amyloidosis</div><div>Chairs: G. Palladini (Italy), S.O. Schönland (Germany)</div><div>The clinical laboratory in the management of systemic amyloidosis: state of the art</div><div>G. Palladini (Italy)</div><div>Genetics of the amyloidogenic plasma cell clone: impact on clinical management</div><div>S.O. Schönland (Germany)</div><div>Assessment of MRD in AL amyloidosis</div><div>B. Paiva (Spain)</div><div>Two oral communications selected among participants' abstracts</div></div>
10:30-12:30	<div><div>SYMPOSIUM 10</div><div>How to make EQA fit for purpose?</div><div>Chairs: P. Meijer (Netherlands), C. Buchta (Austria)</div><div>What are the fundamental aims of EQA?</div><div>C. Buchta (Austria)</div><div>The role of EQA in quality assurance of the extra-analytical phase</div><div>J. Cadamuro (Austria)</div><div>Patient results for "real-time" surveillance of pre-analytical and analytical stability</div><div>A.E. Solsvik (Norway)</div><div>Two oral communications selected among participants' abstracts</div></div>
10:30-12:30	<div><div>SYMPOSIUM 11</div><div>Hemostasis</div><div>Chairs: B. Lammle (Germany), A. Tripodi (Italy)</div><div>Thrombin generation and its application in the clinical laboratory</div><div>A. Tripodi (Italy)</div><div>Monitoring of novel therapies of hemophilia in the clinical laboratory</div><div>S. Kitchen (UK)</div></div>

	Thrombotic thrombocytopenic purpura – from bench to bedside <i>K. Vanhoorelbeke (Belgium)</i>
	Two oral communications selected among participants' abstracts
10:30-12:30	<b>DGKL SYMPOSIUM</b> <b>Autoimmune disorders of coagulation</b> <i>Chairs: K. Lackner (Germany), U. Sachs (Germany)</i>  How to Diagnose Immune Thrombocytopenia <i>U. Sachs (Germany)</i>  Pathophysiology and Diagnosis of Antiphospholipid Syndrome <i>N. Müller-Calleja (Germany)</i>  Acquired hemophilia – diagnosis and treatment <i>A. Tiede (Germany)</i>  Two oral communications selected among participants' abstracts
12:30-14:00	<b>POSTER SESSION</b>
14:00-16:00	<b>SYMPOSIUM 12</b> <b>New development in Diagnosis and therapy of dyslipidemia and CVD</b> <i>Chairs: B. Nordestgaard (Denmark), A. von Eckardstein (Switzerland)</i>  Advances in lipid-lowering therapy through antibody-based and gene-silencing technologies <i>B. Nordestgaard (Denmark)</i>  Measuring atherogenic lipoproteins that address residual cardiovascular risk beyond LDL-c <i>M. Langlois (Belgium)</i>  The challenges of measuring apolipoprotein(a) and its relevance for patient management and patient outcome <i>C. Cobbaert (Netherlands)</i>  HDL-Quo vadis? <i>A. von Eckardstein (Switzerland)</i>
15:30-16:30	<b>VIEWPOINT 3</b> <b>Biomarkers of alcohol abuse in clinical and forensic use – strengths and limitations</b>  Carbohydrate deficient transferrin as marker for alcoholism, its use in comparison with 'old' indirect biomarkers <i>JPM. Wielders (Netherlands)</i>  Ethylglucuronide (EtG) – the one and only (direct) marker of alcohol consumption? <i>H. Andresen-Streichert (Germany)</i>
17:00-18:00	<b>VIEWPOINT 4</b> <b>Which future for HbA1c as biomarker of diabetes monitoring?</b> <i>Chair: E. Kilpatrick (UK)</i>  HbA1c remains the gold standard <i>G. John (UK)</i>  The future belongs to Time in Range and continuous glucose monitoring indications <i>D. Leslie (UK)</i>

SCIENTIFIC PROGRAMME WEDNESDAY, 1 DECEMBER

9:00-10:00	<b>PLENARY LECTURE</b> <i>Chair: M. Neumaier (Germany)</i>  <b>Integrative Diagnostics as the Key Driver for Intelligent Systems in Medicine</b> <i>S. Schönberg (Germany)</i>
10:00-10:30	Break
10:30-12:30	<b>SYMPOSIUM 13</b> <b>Porphyrias – integration of laboratory medicine and clinical care (A symposium in memorial of the 140 years anniversary of the birth of Hans Fischer)</b> <i>Chairs: S. Sandberg (Norway), A.K. Aarsand (Norway)</i>  Hans Fischer and his role in developing the field of porphyria <i>S. Sandberg (Norway)</i>  Practical guidelines on how to diagnose the porphyrias <i>A.K. Aarsand (Norway)</i>  Regulation of the haem biosynthesis <i>J. Philips (USA)</i>  Newer treatment options for porphyria <i>J.-C. Deybach (France)</i>
10:30-12:30	<b>SYMPOSIUM 14</b> <b>Advances in IQC tools and techniques</b> <i>Chair: T. Badrick (Australia)</i>  How is conventional QC practised now and how can it be improved? <i>E. Kilpatrick (UK)</i>  The importance of demonstrating commutability of reference materials with IQC <i>V. Delatour (France)</i>  Patient Based Real Time QC – an introduction <i>T. Badrick (Australia)</i>  PBRTQC – implementing into routine practice – validation and simulation <i>A. Bietenbeck (Germany)</i>
10:30-12:30	<b>SYMPOSIUM 15</b> <b>High-sensitivity troponins and beyond</b> <i>Chairs: S. Wittfooth (Finland), R. Christenson (USA)</i>  Troponin fragments for better specificity? <i>S. Wittfooth (Finland)</i>  Analytical aspects of high-sensitivity troponin assays: Impact on Clinical Application <i>R. Christenson (USA)</i>  High-sensitivity troponins in clinical use <i>P. Collinson (UK)</i>  Two oral communications selected among participants' abstracts



10:30-12:30	<div><div>SYMPOSIUM 16</div><div>Health platforms of the future and clinical relevance of interoperability</div><div>Chair: C. Cobbaert (Netherlands)</div><div>Defining Interoperability in Healthcare with HL7-FHIR and understanding the potential transformation of pathology</div><div>G. Grieve (Australia)</div><div>The value of interoperable communication of pathology requests and results</div><div>K. Sikaris (Australia)</div><div>The Health Platforms of the future and their clinical value to consumers</div><div>Speaker to be announced</div><div>Two oral communications selected among participants' abstracts</div></div>
10:30-12:30	<div><div>SYMPOSIUM 17</div><div>New trends in standardization</div><div>Chair: P. Gillery (France)</div><div>Standardization of bone markers</div><div>E. Cavalier (Belgium)</div><div>Standardization in fecal immuno-testing</div><div>S. Benton (UK)</div><div>Traceability chains in Therapeutic drug monitoring: scope, limitations and state of the art</div><div>C. Seger (Switzerland)</div><div>Standardization in glucose monitoring</div><div>G. Freckmann (Germany)</div></div>
10:30-12:30	<div><div>DGKL SYMPOSIUM</div><div>Personalised medicine in allergy diagnostics</div><div>Chair: H. Renz (Germany)</div><div>Molecular Diagnosis and Digital Health for Precision Allergology</div><div>P. Matricardi (Germany)</div><div>Asthma and COPD diagnostics – lessons learned from multi-centre big data analysis</div><div>H. Renz (Germany)</div><div>The Janus-faced nature of viral infections in asthma</div><div>C. Skevaki (Gerrmany)</div><div>Chip-based diagnosis for personalized treatment</div><div>K. Niespodziana (Austria)</div></div>
12:30-14:00	POSTER SESSION
14:00-16:00	<div><div>SYMPOSIUM 18</div><div>Consequences of IVDR Regulations on Laboratory Medicine</div><div>Chairs: C. Cobbaert (Netherlands), P- Monaghan (UK)</div><div>Consequences of the IVDR 2017/746 for Laboratory Professionals</div><div>C. Cobbaert (Netherlands)</div></div>

	<div>Consequences of the IVDR 2017/746 for the IVD-industry</div> <div>O. Bisazza (Belgium)</div> <div>Consequences of the IVDR 2017/746 for Notified Bodies</div> <div>A.F. Stange (Japan)</div> <div>Overview of the delegated and implementing acts and guidance documents prepared by the European Commission</div> <div>O. Tkachenco (Belgium)</div>
15:30-16:30	<div><div>VIEWPOINT 5</div><div>What should be the lipid profile in the era of personalized cardiovascular risk assessment and treatment?</div><div>Chair: M. Langlois (Belgium)</div><div>Measuring lipids including traditional risk factors is crucial for cardiovascular risk assessment and treatment</div><div>E. Stroes (Netherlands)</div><div>Assessment of traditional risk factors including a non-fasting lipid profile is no longer the most rational approach for cardiovascular risk assessment and treatment</div><div>B. Nordestgaard (Denmark)</div></div>
17:00-18:00	<div><div>VIEWPOINT 6</div><div>Regulating direct-to-consumer testing 2.0: Protecting the consumer</div><div>Chair: B. Gouget (France)</div><div>Opportunities for decentralized testing in modern healthcare and dangers vs benefits of DTC</div><div>J.H. Nichols (USA)</div><div>Advocacy for appropriate regulation of biological tests sold directly to consumers</div><div>M. Vaubourdolle (France)</div></div>

SCIENTIFIC PROGRAMME THURSDAY, 2 DECEMBER

9:00-10:00	<div><div>PLENARY LECTURE</div><div>Chair: P. Gillery (France)</div><div>Fine tuning of innate immunity</div><div>T. Chavakis (Germany)</div></div>
10:00-10:30	Break
10:30-12:30	<div><div>SYMPOSIUM 19</div><div>New diagnostic approaches in Laboratory Medicine</div><div>Chairs: M. Plebani (Italy), S. Bernardini (Italy)</div><div>Extracellular vesicles in clinical diagnostics</div><div>K. Witwer (USA)</div><div>miRNA in clinical diagnostics – can artificial intelligence make the difference?</div><div>A. Keller (Germany)</div><div>Wearable biosensors</div><div>W. Gao (USA)</div><div>Two oral communications selected among participants' abstracts</div></div>

10:30-12:30

## SYMPOSIUM 20

**Autoimmune Encephalitis***Chair: A. Vincent (UK)*

Overview and pathophysiology

*A. Vincent (UK)*

Autoimmune encephalopathies in Neurology

*M. Gastaldi (Italy)*

Autoimmune encephalopathies in Psychiatry

*L. Tebartz van Elst (Germany)*

Two oral communications selected among participants' abstracts

10:30-12:30

## SYMPOSIUM 21

**Urinalysis: a new look at old tests***Chair: J.. Delanghe (Belgium)*

Modern urine test strip technology

*J. Delanghe (Belgium)*

Automated urinalysis

*G. Previtali (Italy)*

The Revised European Urinalysis Guidelines

*T. Kouri (Finland)*

Two oral communications selected among participants' abstracts

10:30-12:30

## SYMPOSIUM 22

**Young Scientist Session***Chairs: S. Fares Taie (Argentina), R. Sierra Amor (Mexico)*

Motivation in the Clinical Laboratory

*S. Fares Taie (Argentina)*

Time Management Tools for the Young Laboratory Professional

*J. El-Khoury (USA)*

Career management for Young Laboratory Scientists

*G. Sancesario (Italy)*

Conflict Management amongst Young Laboratory Scientists

*A. Rampul (South Africa)*

10:30-12:30

## SYMPOSIUM 23

**How does Point of Care Testing change the clinical pathways?***Chairs: A. Khan (USA), A. Stavelin (Norway)*

Point-of-care Testing: a win-win for all players

*A. Khan (USA)*

Is internal (and external?) quality control necessary for POCT?

*A. Stavelin (Norway)*

The role of POC-testing in the clinical pathway of diagnosing SARS-CoV-2 infection

*M.C. Tollanes (Norway)*

Two oral communications selected among participants' abstracts

10:30-12:30

## DGKL SYMPOSIUM

**Emerging infectious diseases – impact of laboratory diagnosis***Chair: M. Klouche (Germany)*

Infectious disease emergency preparedness and prevention

*J. Vila (Spain)*

Direct viral and serologic diagnosis of SARS-CoV-2 in 30 EU countries and pitfalls

*V. Corman (Germany)*

Infectious disease surveillance in Europe

*Speaker to be announced*

Two Oral communications selected among participants' abstracts

12:30-13:30

## CLOSING CEREMONY

Closing remarks

[Welcome to Roma](#)[WorldLab-Euromedlab Roma 2023](#)*S. Bernardini, President of the congress*

## ABSTRACT SUBMISSION

Congress delegates are cordially invited to submit abstracts of their scientific work for presentation as a free communication at Euromedlab Munich 2021.

An unlimited number of abstracts may be submitted provided the presenting author applies for "full 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 symposia. Authors wishing to compete for these oral communication slots should mark the appropriate field on the on-line abstract-submission form.

## ABSTRACT TOPICS

Advanced technologies , including new biomarker discovery

Analytical technologies and applications

Artificial intelligence - Informatics

Atherosclerosis, including lipids and other risk markers

Audit

Autoimmune diseases , including allergy

Bioinformatics, including data management

Biomarkers in cancer

Bone metabolism

Cardiovascular diseases, including cardiac markers

Case report

Clinical Studies - Outcomes

Diabetes, obesity, metabolic syndrome

Education and Training in Laboratory Medicine

Endocrinology, not including diabetes

Evidence based medicine, including Guidelines

Gastrointestinal diseases, including hepatic and pancreatic diseases

Genetic diseases

Haematology, including haemostasis

Inflammation, vascular biology, endothelium, and oxidative stress

Inherited disorders, metabolic disorders and rare diseases

Kidney diseases

Laboratory and Sports medicine

Laboratory Management, Accreditation, Quality Assurance, performance specification

Microbiology - Infectious diseases including COVID 19

Molecular diagnostics, including epigenetics

Neonatal and paediatric laboratory medicine, including prenatal testing

Neurological diseases

Nutrition, including vitamins and trace elements

Personalised Medicine, including pharmacogenetics

Point of Care testing, critical care, emergency medicine.

Reference intervals and decision limits

Total Testing Process, including standardisation, preanalytical process

Toxicology, including therapeutic drug monitoring

Urinalysis

Other

1

2

3

4

5

## GENERAL REQUIREMENTS

The text must be clear, concise, and written in proper English. The content must not have been

previously published in academic journals or subject to peer review. Significant technical information must not be withheld. Abstracts must absolutely contain results. Statements such as "results will be discussed" are not acceptable and will lead to rejection.

## GENERAL INFORMATION

### Deadline for receipt

Abstracts should be submitted by **31st August 2021**, 18:30 CET.

### Confirmation of receipt

Receipt of the abstract will be acknowledged by e-mail immediately after submission.

### Notification of acceptance or rejection

Authors will be notified of acceptance or rejection before 1st October 2021.

### Registration

The presenting author of each abstract must register for the congress with "Full Registration".

## 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;

**1** Prepare your abstract on a word processor (such as Microsoft Word);

**2** Do not include title, authors' names and affiliations in the abstract file

**3** Tables and figures are not allowed;

**4** References are not allowed;

**5** When abbreviations are used, spell out the full word at first mention in the text followed by the abbreviation in parentheses. Thereafter, use the abbreviation throughout.

When the on-line system requires the abstract to be entered, copy and paste your text.

Abstracts are limited to 2300 characters, spaces included (title, authors' names and affiliations excluded). The system will automatically notify you if the abstract exceeds this number of characters. Title, author(s) and affiliation(s) must be added separately at the appropriate step.

### IMPORTANT NOTICE

Abstract authors are asked to indicate the most suitable topic for presentation of their work and will also be asked whether they wish apply for an oral presentation during the scientific symposia. In that case, authors must also select the symposium in which they would like to give their presentation.

Abstracts should be submitted via the on-line submission system only.  
Do not send in an abstract more than once!

Submit your abstract at  
<http://www.euromedlab2021munich.org>



## CONGRESS VENUE

ICM Internationales Congress Center München  
MESSE MÜNCHEN GMBH  
Messegelände  
81823 München



### An attractive venue

Munich is situated in the middle of Europe and a convenient destination for guests from home and abroad.

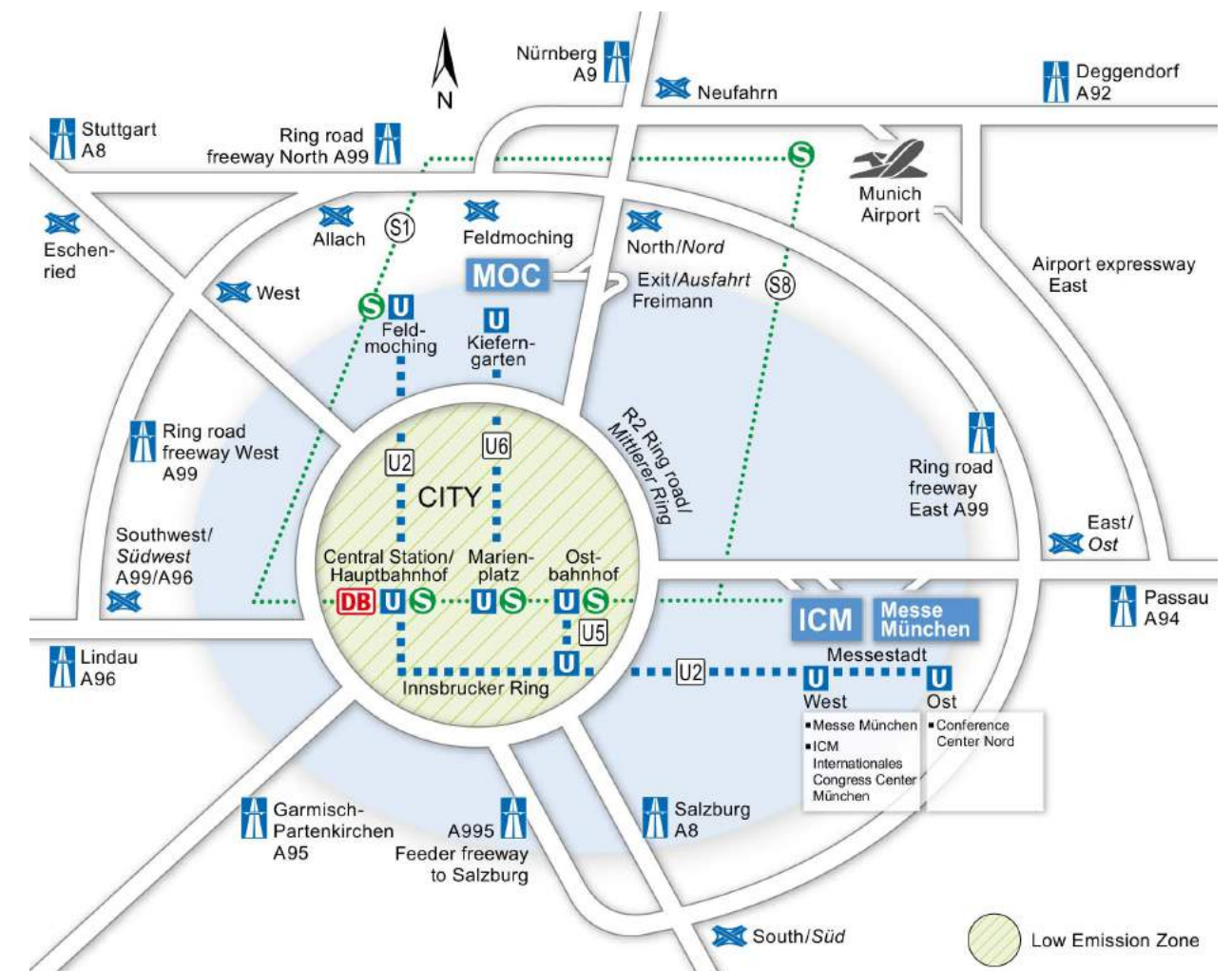
The attractive location on the Isar River, the proximity of the Bavarian Alps and the high quality of life make Munich a popular trade show and convention destination.

The ICM – Internationales Congress Center München is ideally located to offer participants a variety of culinary and cultural highlights in the Bavarian capital.

Excellent hotels and accommodations close to the event venue make guests' stay at the Munich convention destination perfect



## HOW TO REACH THE CONGRESS VENUE



### By car

Motorway A94 (München-Passau), exit "Feldkirchen"  
Depending on your navigation system, you will find the Messe München either in the category "exhibition centre", "trade fair centre" or under the German keyword "Messe".

### By plane

From the airport, you can reach ICM comfortably by taxi or by public transport.  
In this case, please take the suburban train line S8 (S-Bahn) to the stop "Ostbahnhof". Then transfer to the underground line U5 (U-Bahn) direction "Neuperlach Süd" and get off at the station "Innsbrucker Ring". Finally, transfer to the underground line U2 (U-Bahn) and stop at the station "Messestadt Ost".

### By train public transport

From Munich's Central Station (Hauptbahnhof), you will easily reach the ICM with the underground line U2 (U-Bahn). Please stop at the station "Messestadt Ost".

## GENERAL INFORMATION

### Registration Desk

The registration desk will be open during the congress as follows:

28 November	11:00 - 19:00	30 November	08:00 - 18:00	2 December	08:00 - 18:00
29 November	08:00 - 18:00	1 December	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 desk. It must be worn at all times.

### Industry Exhibition

Participants are encouraged to visit the large industry exhibition, which will be open as follows:

29 November	10:00 - 17:30
30 November	10:00 - 17:30
1 December	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

A certificate of attendance will be issued to properly registered attendees, for the day(s) they actually take part in the congress. Certificates of attendance must be picked up at the registration desk just before departure.

### Visas Requirement

Depending on the nationality of the delegates it may be necessary to obtain a visa before leaving.

If you are not a citizen of an EU country or one of the nations listed above, we recommend visiting your country's German Embassy or checking the website of the German Federal Foreign Office for more information <https://bit.ly/3iiBKoU>.

### Invitation Letter

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, [info@euromedlab2021munich.org](mailto:info@euromedlab2021munich.org), to request a letter of invitation.

### Catering Service

Several areas selling food will be open to all delegates, exhibitors and visitors inside the congress centre.

## GENERAL INFORMATION

### Registration Fees

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

#### ✧ UNTIL 15 OCTOBER 2021

Full Registration	€554,62 + 19% vat = €660,00
Young Registration (≤35 years)	€277,31 + 19% vat = €330,00
Day Registration	€252,10 + 19% vat = €300,00

#### ✧ AFTER 15 OCTOBER 2021

Full Registration	€705,88 + 19% vat = €840,00
Young Registration (≤35 years)	€378,15 + 19% vat = €450,00
Day Registration	€302,52 + 19% vat = €360,00

#### ✧ ON-SITE REGISTRATION

Full Registration	€756,30 + 19% vat = €900,00
Young Registration (≤35 years)	€403,36 + 19% vat = €480,00
Day Registration	€352,94 + 19% vat = €420,00

The full registration and young registration fees include:

- entrance to plenary lectures, symposia, industry-sponsored workshops, posters sessions and exhibition
- possibility to submit abstracts
- certificate of attendance
- travel card
- coffee and tea service during intermissions
- Opening Ceremony and Welcome Party (Sunday, 28 November 2021)
- Closing Ceremony (Thursday, 2 December 2021)

The day registration fee includes, for the day of registration only:

- entrance to plenary lectures, symposia, industry-sponsored workshops, posters 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 by fax (+39 02 6686699). 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.

### Personal Invitation for VISA purposes

To facilitate congress attendance a personal invitation can be sent on request. This invitation does not exempt the recipient from registering and paying the proper congress fee. Please inform the congress secretariat if you need a personal invitation letter.

### Currency

Registration fees and charges for all events related to the Euromedlab Munich 2021 Congress as well as hotel cost must be paid in euros.



### Cancellation and refund

Cancellations must be sent in writing to [registrations@euromedlab2021munich.org](mailto:registrations@euromedlab2021munich.org).  
The amount equal to 80% of the fee paid will be refunded for cancellations received by 15 October 2021. Until 15 November 2021 a refund of 50% of the fee will be granted. After 15 November 2021 no refunds will be issued.  
All refunds will be paid in euros after the congress.

### 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 Congressi nor the Congress Organising Committee shall be liable for any damage claims.

### 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.

On-line registration is available on the congress website  
**[HTTP://WWW.EUROMEDLAB2021MUNICH.ORG](http://www.euromedlab2021munich.org)**

Registration can be submitted on-line only



## HOTEL AND GROUND SERVICES



### HOTEL ACCOMMODATION

KENES GROUP  
Rue François-Versonnex 7 | 1207 Geneva | Switzerland  
Phone: +41 22 908 0488 Ext 998  
Email: [isapir@kenes.com](mailto:isapir@kenes.com) Attn: Mrs. Irina Sapir  
Website: [www.kenes.com](http://www.kenes.com)



### GROUND SERVICES

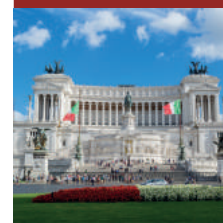
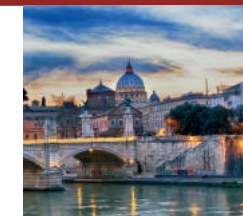
INTERPLAN  
Landsberger Straße 155 | 80687 Munich | Germany  
Phone: (+49) (0) 89 548 234 829  
Email: [dmc.euromedlab21@interplan.de](mailto:dmc.euromedlab21@interplan.de)  
Website: [www.interplan.de](http://www.interplan.de)



# IFCC WorldLab SEOUL 2022

24<sup>th</sup> INTERNATIONAL CONGRESS OF  
CLINICAL CHEMISTRY AND LABORATORY MEDICINE

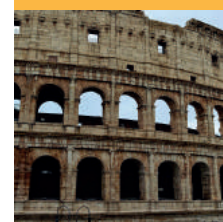
June **26-30**, 2022  
Coex, Seoul, Korea



25<sup>TH</sup> INTERNATIONAL CONGRESS OF CLINICAL  
CHEMISTRY AND LABORATORY MEDICINE

25<sup>TH</sup> EUROPEAN CONGRESS OF CLINICAL  
CHEMISTRY AND LABORATORY MEDICINE

53<sup>RD</sup> NATIONAL CONGRESS OF THE ITALIAN SOCIETY  
OF CLINICAL CHEMISTRY AND LABORATORY MEDICINE





# EUROMEDLAB

## 2021 MUNICH

### WEBSITE

Updates on every aspect of the EUROMEDLAB Munich 2021 Congress will be published on the website  
[www.euromedlab2021munich.org](http://www.euromedlab2021munich.org)

Check on-line regularly



Member of the MZ International Group

### ORGANISING SECRETARIAT

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20159 Milano, Italy

Ph.: +39 02 66802323

Fax: +39 02 6686699

[info@euromedlab2021munich.org](mailto:info@euromedlab2021munich.org)