



VIRTUAL CONFERENCE

CRITICAL ROLE OF CLINICAL LABORATORIES IN THE COVID-19 PANDEMIC

IFCC GLOBAL CONFERENCE ON COVID-19
(PRELIMINARY PROGRAMME)

FEBRUARY 15-17, 2021

IFCC Scientific Symposia will be presented in the morning.

Afternoon will be mostly dedicated to industry Educational Workshops.

TIME SCHEDULE: PROGRAMME WILL START AT 08.00 AM, US EASTERN TIME (CORRESPONDING TO: 14.00 ROME; 21.00 BEIJING)
All sessions will be recorded and fully available for registered people.



WELCOME LETTER

Professor Khosrow Adeli IFCC President

It is my great pleasure to present this welcoming message to all attendees, speakers, and industry sponsors of the IFCC Global Conference on COVID-19. This virtual conference will bring leading experts around the world together to present the latest advances in COVID-19 diagnostics and therapeutics. The theme of this conference will be the Critical Role of Clinical Laboratories in the COVID-19 Pandemic. It will be a truly international event with presentations from all regions across the globe.

At the beginning of the pandemic, the IFCC established a Taskforce on COVID-19 to provide updates on epidemiology, pathogenesis, and diagnostics of COVID-19, as well as to develop practical recommendations for diagnostic testing and patient monitoring. Since establishment, the Taskforce has maintained an online Information Guide on COVID-19, which can be found on the IFCC website. This guide is updated biweekly, presenting the latest evidence on COVID-19. The Taskforce has now also published interim guidelines in the November 2020 issue of Clin Chem Lab Med to provide practical recommendations on the intended use, selection, evaluation, and implementation of laboratory tests used in the diagnosis of SARS-CoV-2 infection and monitoring of COVID-19 patients.

There is no doubt that the current pandemic has highlighted the critical role of clinical laboratory medicine, which until now has not been widely recognized within healthcare organizations or by the public. Clinical laboratory professionals continue to play a vital role in the diagnosis of SARS-CoV-2 infection, serological monitoring of individuals with past SARS-CoV-2 infection, and biochemical monitoring of hospitalized patients with COVID-19. Scientists, other medical professionals, industry leaders, and public health authorities have also been working diligently to understand, diagnose, treat, and prevent COVID-19, providing invaluable information and service.

Now, the IFCC feels it is more crucial than ever to virtually bring us all together on a global platform to present the most up to date evidence in the field of COVID-19, with a specific focus on innovations in diagnostics and laboratory management of hospitalized patients. This conference also provides the opportunity for us all to work towards a more collaborative clinical care model in diagnosing and treating COVID-19. Specifically, you will have access to:

- Plenary sessions delivered by leading scientists, physicians, and public health authorities.
- Ten scientific symposia, covering physiology, diagnostics, therapeutics, and technology
- Special presentations on the global response to COVID-19 in Africa, Asia-Pacific, Europe, Latin America, Arab Federation, and North America
- An industry panel with presentations from industry leaders on the latest IVD innovations
- Twelve educational industry workshops
- A young investigator forum with presentations from young scientists worldwide
- Scientific e-posters and virtual industry exhibits

I look forward to seeing many of you (virtually!) at this important and timely scientific event in February.

Professor Khosrow Adeli IFCC President



CONFERENCE ORGANIZING COMMITTEE

Khosrow Adeli, Canada (Chair)
Sergio Bernardini, Italy
Andrea Horvath, Australia
David Koch, USA
Giuseppe Lippi, Italy
Tomris Ozben, Turkey
Cheng-Bin Wang, China

Corporate Representatives:

- -Rolf Hinzmann, Roche Diagnostics
- -Patricia Ravalico, Abbott Diagnostics

Regional Federation Representatives:

- -Rosa Sierra-Amor (Latin America)
- -Ana-Maria Simundic (Europe)
- -Ann Gronowski (North America)
- -Rajiv Erasmus (Africa)
- -Sunil Kumar Sethi (Asia-Pacific)
- -Osama Najjar (Arab Federation)

Conference Organizing Secretariat (MZ Congressi):

-Stefano Montalbetti



SPEAKERS & CHAIRS

Abderrazek Hedhili Aleksei Tikhonov Allan Njau Ana-Maria Simundic Andrea Horvath Ann Gronowski Annalise Zemlin Antonio Buño Soto Ashish Agravatt Benjamin Pinsky **Bernard Gouget** Brandon M. Henry Camilla Mattiuzzi Cao Bin Carl J. Lavie Chris Farnsworth Clara Benavent Corrado Di Natale

Damien Gruson

Daniel Satchkov

Emmanuel J. Favaloro

Fabian Sanchis-Gomar

Federico Remes-Lenicov

Giuseppe Lippi Graciela Russomando Jac Dinnes James Nichols Jenny Doust Job Harenberg Jon Deeks Joseph Passarelli Marco Perrone María Belén García Fabiani Martina Montagnana Mary Kathryn Bohn Massimo Ciccozzi Meheri Emna Mette Christophersen Tollånes Michael Neumaier Miswar Fattah Mohamed Ben Moussa **Muhittin Serdar** Myrna Germanos Nevan Krogan

Nicolene Steyn

Fernando Goldbaum

Ngobile Ndlovu Osama Najar Patricia Ravalico Patrick Bossuyt Prasenjit Mitra Rajiv Erasmus **Ronda Greaves** Rosa Sierra Amor Sam Schulman Santiago Fares Taie Sergio Bernardini Sibtain Ahmed Situmbeko Mwangala Sunil Kumar Sethi Susan Matthews Sverre Sandberg Tahir Pillay Tan Wenjie Tom Hope William Blake



WEEK AGENDA (EASTERN STANDARD TIME / NEW YORK)

MONDAY 15 FEBRUARY

	ROOM 1	ROOM 2	POSTER AREA	EXHIBITION AREA
08.00 - 09.30	OPENING AND PLENARY SESSION Critical Role of Laboratory Medicine in Public Health			
09.45 - 11.45	SYM 1 Pathophysiology of COVID-19	SYM 2 Emerging Tools in Fighting COVID-19		
12.00 - 13.00	Industry EduW 1	Industry EduW 2		
13.15 - 15.15	SYM3 Global Response to COVID-19 Pandemic (Europe)		ePosters Open	eExhibits Open
15.30 - 16.30	Industry EduW 3	Industry EduW 4		
16.45 - 17.45	Industry EduW 5	Industry EduW 6	1	
18.00 - 19.00	Industry EduW 7	Industry EduW 8		

TUESDAY 16 FEBRUARY

	ROOM 1	ROOM 2	POSTER AREA	EXHIBITION AREA
08.00 - 09.15	PLENARY SESSION Cardio-renal Involvement in COVID-19			
09.30 - 12.00	Industry Panel Technological Innovations for Today and Tomorrow	,	ePosters Open	eExhibits Open
12.15 - 14.15	SYM5 Global Response to COVID-19 Pandemic (Latin America)			
14.30 - 15.30	Industry EduW 9	Industry EduW 10		
15.45 - 16.45	Industry EduW 11	Industry EduW 12		

WEDNESDAY 17 FEBRUARY

	ROOM 1	ROOM 2	POSTER AREA	EXHIBITION AREA
08.00 - 09.30		Tests for SARS-CoV-2 In-	ePosters Open	eExhibits Open
09.45 - 11.45	SYM7 Global Response to COVID-19 Pandemic (Asia-Pacific)	SYM8 Global Response to CO-VID-19 Pandemic (Middle East/Arab Federation)		
12.00 - 14.00	SYM9 Hemostasis and CO-VID-19	SYM10 Technological Developments in Fighting CO-VID-19 Pandemic		
14.15 - 14.45	CLOSING			



SCIENTIFIC PROGRAMME

MONDAY 15 FEBRUARY (EASTERN STANDARD TIME/NEW YORK)

8:00-9:30 AM

OPENING & PLENARY SESSION

Critical Role of Laboratory Medicine in Public Health
Scientific presentations from Infectious Disease Experts at WHO, NIH, CDC, CAP
IFCC Executive Board
IFCC Taskforce on COVID-19

Break (15 min)

9:45-11:45 ROOM1

Symposium 1: Pathophysiology of COVID-19

Chair: Khosrow Adeli

- Giuseppe Lippi, Verona, Italy Pathophysiology of COVID-19 (30 min)
- Camilla Mattiuzzi, Trento, Italy Demographical, environmental and social predictors (30 min)
- Martina Montagnana, Verona, Italy Clinical risk factors for severe COVID-19 illness (30 min)
- Q&A (30 min)

Break (15 min)

12:00 -13:00

Industry Workshops

Break (15 min)

9:45-11:45 ROOM 2

Symposium 2: Emerging Tools in Fighting COVID-19

Chair: Bernard Gouget

- William Blake, Boston, USA
 CRISPR and synthetic biology-based solutions applied to COVID-19 diagnosis (20 min)
- Corrado Di Natale, Rome, Italy
 Volatile compounds array for COVID-19 (20 min)
- Daniel Satchkov, Sheridan, USA
 Comprehending hundreds of thousands of COVID-19: Studies using mathematical models of language and AI (20 min)
- Tom Hope, USA
 Accelerating scientific search and exploration by mining and visualizing COVID-19 literature (20 min)
- Damien Gruson, Brussels, Belgium
 Telemedicine and Health at the Time of COVID-19 (20 min)
- Q&A (20 min)

13:15-15:15 ROOM 1

Symposium 3: Global Response to COVID-19 Pandemic (Europe)

Chair: Ana-Maria Simundic

- Antonio Buño Soto, Madrid, Spain Experience of the organization of laboratory medicine in Madrid's IFEMA field hospital during the first wave of the pandemic (30 min)
- Sverre Sandberg, Bergen, Norway How the government and the national quality improvement organisation of laboratory examinations (Noklus) cooperate in the pandemic (30 min)
- Muhittin Serdar, Istanbul, Turkey
 COVID-19 challenges and laboratory
 perspective from Turkey: Limitations and competences (30 min)
- Q&A (30 min)

Break (15 min)

15:30-16:30

Industry Workshops

Break (15 min)

16:45-17:45

Industry Workshops

Break (15 min)

18:00 -19:00

Industry Workshops

13:15-15:15 ROOM 2

Symposium 4: Global Response to COVID-19 Pandemic (Africa)

Chair: Rajiv Erasmus

- Annalise Zemlin, Cape Town, South Africa Biochemical changes in COVID-19:
 Experience from Africa (20 min)
- Tahir Pillay, Durban, South Africa The promise of single domain antibodies (nanobodies) in COVID-19: Applications in diagnosis and therapy (20 min)
- Rajiv Erasmus, Cape Town, South Africa Unfolding the reasons and the theories for COVID-19 being less deadly in Africa (20 min)
- Ngobile Ndlovu, Zimbabwe COVID-19 diagnostic response: The Africa experience (15 min)
- Situmbeko Mwangala, Zambia Investigation of SARS-CoV-2 infections among health care workers in Lusaka District, Zambia (15 min)
- Allan Njau, Kenya
 Quality management for SARS-CoV-2
 testing: Key indicators for starting small
 and medium size molecular laboratories in
 Kenya (15 min)
- Q&A (15 min)



TUESDAY 16 FEBRUARY (EASTERN STANDARD TIME/NEW YORK)

8:00-9:15

PLENARY SESSION

Cardio-renal Involvement in COVID-19 Chair: Carl J. Lavie

Carl J. Lavie, New Orleans, USA
 Pathophysiology of cardio-renal involvement in COVID-19 (25 min)

• Brandon M. Henry, Cincinnati, USA

The renin-angiotensin system in COVID-19 (25 min)

• Fabian Sanchis-Gomar, Valencia, Spain Cardiac biomarkers in COVID-19 (25 min)

9:30-12:00 ROOM 1

COVID-19 Industry Panel: Technological Innovations for Today and Tomorrow

Co-Chairs:

Patricia Ravalico, Abbott (Chair, IFCC Taskforce on Corporate Members)

Joseph Passarelli, Roche (Corporate Representative to the IFCC Executive Board)

- Scientific presentations by industry scientists representing IFCC corporate members
- Panel discussion (30 min)

Break (15 min)

12:15-14:15 ROOM 1

Symposium 5: Global Response to COVID-19 Pandemic (Latin America)

Chair: Rosa Sierra Amor

• Graciela Russomando, Asuncion, Paraguay COVID-19 infection and community transmission: Lessons learned from a public molecular Dx laboratory (20 min)

9:30-12:00 ROOM 2

Young Scientist Forum

Chair: Santigao Fares Taie

- Ashish Agravatt, India
 Rapid tests: Antibody & antigen tests (15 min)
- María Belén García Fabian, Argentina CRISPR: Disrupting technology (15 min)
- Sibtain Ahmed, Pakistan
 Utility of prognostic biomarkers in COVID-19
 (15 min)
- Marco Perrone, Italy
 Clinical management & drugs (15 min)
- Nicolene Steyn, South Africa COVID in children (15 min)
- Ashlin Rampul, South Africa
 Nanobodies for COVID (15 min)
- Clara Benavent, Spain
 PCR targets and sensitivity (15 min)
- Aleksei Tikhonov, Russia
 Antibody test development (15 min)
- Mary Kathryn Bohn, Canada
 Pediatric evaluation of COVID-19 serology assays (15 min)

12:15-14:15 ROOM 2

Symposium 6: Global Response to COVID-19 Pandemic (North America)

Chair: Ann Gronowski

 Benjamin Pinsky, Stanford, USA
 Method validation for COVID-19 testing (20 min)

- Fernando Goldbaum, Buenos Aires, Argentina
- Equine polyclonal neutralizing antibodies (Epabs) for the treatment of severe COVID-19 patients (20 min)
- Cecilia Tapia
- Diagnostic approach in networked laboratories, Chilean experience (20 min)
- Federico Remes-Lenicov, Buenos Aires, Argentina
- Emergency establishment of a SARS-CoV-2 test center at an academic lab in the University of Buenos Aires, Argentina (20 min)
- Maria-Elizabeth Menezes, Rio de Janeiro, Brazil
- The coronavirus storm: The pandemic situation at the bench (20 min)
- Q&A (20 min)
- Break (15 min)
- 14:30-15:30
- **Industry Workshops**
- Break (15 min)
- 15:45-16:45

Industry Workshops

- Victoria Zhang, Rochester, USA
 AACC Taskforce COVID-19 Serology
 Guidelines (20 min)
- Chris Farnsworth, St. Louis, USA SARS-CoV-2 serology: Utilization and outstanding questions (20 min)
- Nevan Krogan, San Francisco, USA Multi-omics/systems approach to COVID investigation (20 min)
- Q&A (20 min)

WEDNESDAY 17 FEBRUARY (EASTERN STANDARD TIME/NEW YORK)

8:00-9:30

PLENARY SESSION

Clinical Evaluation of Tests for SARS-CoV-2 Infection Chair: Andrea Horvath

- Patrick Bossuyt, Amsterdam, Netherlands
 When disaster strikes: How to balance unmet needs with imperfect tests in an emergency situation of a pandemic? (20 min)
- Jac Dinnes and Jon Deeks, Birmingham, UK
 State-of-the-art of diagnostic tests: What did we learn from the Cochrane systematic reviews of existing test evaluations? (20 min)
- Jenny Doust, Brisbane, Australia

 Can we do better? Framework for the evaluation of SARS-CoV-2 tests (20 min)
- Q&A (30 min)
 Break (15 min)

9:45-11:45 ROOM1

Symposium 7: Global Response to COVID-19 Pandemic (Asia-Pacific)

Chair: Sunil Kumar Sethi

- Tan Wenjie, China
 Discovery of COVID-19 (20 min)
- Miswar Fattah, Indonesia
 Variability of molecular testing for SARS
 CoV-2 (20 min)
- Prasenjit Mitra, India
 COVID-19 pandemic: Perspectives from India (20 min)
- Susan Matthews, Australia
 SARS-CoV-2 molecular-based testing
 experience from the Aboriginal and
 Torres Strait Islander COVID-19 point-ofcare testing program in rural and remote
 Australia (20 min)
- Cao Bin, China
 Atypical pneumonia to COVID-19 (20 min)
 Q&A (20 min)

Break (15 min)

12:00-14:00 ROOM1

Symposium 9: Hemostasis and COVID-19 Chair: Giuseppe Lippi

• Emmanuel J. Favaloro, Sydney, Australia ADAMTS13 and Von Willebrand Factor testing in COVID-19 and beyond (30 min)

9:45-11:45 ROOM 2

Symposium 8: Global Response to COVID-19 Pandemic (Middle East/Arab Federation)

Co-Chairs: Osama Najjar Abderrazek Hedhili

- Mehiri Emna, Tunisia
 Impact of COVID-19 in the Middle East (25 min)
- Myrna Germanos, Lebanon Impact of COVID-19 (25 min)
- Osama Najjar, Palestine
 AFCB Response to COVID-19 crisis (25 min)
- Mohamed Ben Moussa, Tunisia
 Tunisian Mobile Military Laboratory and
 COVID-19 management (25 min)
- Q&A (20 min)

12:00-14:00 ROOM 2

Symposium 10: Emerging Technologies in Fighting COVID-19

Chair: Sergio Bernardini

 Mette Christophersen Tollånes, Bergen, Norway
 Quality and clinical use of rapid tests for COVID-19 (20 min)

- Job Harenberg, Heidelberg, Germany Laboratory diagnostics of COVID-19 related thromboembolism (30 min)
- Sam Schulman, Hamilton, Canada
 Anticoagulation and laboratory monitoring in COVID-19 (30 min)
- Q&A (30 min)

- James Nichols, Nashville, USA
 CLSI COVID testing resources to assist labs with their validations and implementation of new COVID tests as well as quality management of the testing after implementation (20 min)
- Ronda Greaves, Sydney, Australia Managing rapid changes in LC/MS during the COVID pandemic: State-of-art (20 min)
- Michael Neumaier, Heidelberg, Germany Innate and adaptive immunological response to SARS-CoV-2: Implications for vaccine (20 min)
- Massimo Ciccozzi, Rome, Italy COVID-19 phylogenesis and mutations: Implications for vaccine (20 min)
- Q&A (20 min)

14:00-14:30

CLOSING

IFCC Executive Board
IFCC Taskforce on Covid-19





ABSTRACTS

PLEASE CLICK HERE TO SUBMIT YOUR ABSTRACT

DEADLINE TO SUBMIT YOUR PAPERS: 5 JANUARY 2021 (Abstracts are limited to 3250 characters, spaces included)

YOUNG INVESTIGATOR ORAL PRESENTATIONS

Call for submissions for COVID-19 related oral presentations. Diverse and high ranking proposals will be selected (can be data-driven or content-based)

VIRTUAL E-POSTER SESSION: for presentation by IFCC members and young scientists

Congress delegates are cordially invited to submit abstracts of their scientific work for presentation as a free communication at the IFCC Global Conference on COVID-19 in February 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, hematology, 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. Abstracts are limited to 3250 characters, spaces included.

ABSTRACT TOPICS

- COVID-19: innovations in In vitro diagnostics
- Molecular diagnosis of SARS-CoV-2 Infection
- Advances & challenges in viral antigen testing
- Advances in serological assays to monitor viral exposure
- Rapid testing and POCT diagnostics
- Antigen testing: Point of care and lab-based assays
- Analytical and clinical assay validation
- Serology testing and immunity
- · Molecular testing and infectivity
- External quality assessment and assay standardization
- Orthogonal testing strategies
- Biochemical/hematological markers in patient monitoring
- Clinical risk scores and their global application
- Pediatric management of SARS-CoV-2 viral infection or exposure
- Multisystem inflammatory syndrome in children (MIS-C)
- Laboratory biosafety management
- COVID-19: Clinical/Public Health
- Preventive Medicine, Public Health and COVID-19

- COVID-19 treatment & future perspectives:
- Emerging treatments and clinical practice paradigms
- Clinical value of Remdesivir
- Pharmacology and TDM
- Prognosis, pre/post exposure prophylaxis and antiviral treatment
- Convalescent plasma, selection of recipient and donor
- COVID-19 and multisystem organ Involvement
- Progression from respiratory infection to systemic disease
- Hematology and thrombotic complications
- Cardiovascular implications
- Gastrointestinal complications
- Dermatological manifestations
- Rheumatic diseases and COVID-19 susceptivity
- Pulmonary fibrosis and lung function
- Neurological associations
- Nephrology & the vasculature
- Pathological anatomy and cytology
- Key risk factors and role in pathophysiology
- Mental health in the face of the COVID-19 pandemic



REGISTRATIONS

PLEASE CLICK HERE TO REGISTER

Online registrations available with the following fees:

EARLY REGISTRATION FEE – valid within 20 January 2021:

IFCC NATIONAL SOCIETY MEMBERS AND NON-MEMBERS	€ 100
CORPORATE/INDUSTRY REPRESENTATIVES	€100

YOUNG SCIENTISTS/TRAINEES (=/< 40 YEARS) FREE OF CHARGE

AFTER 20 JANUARY 2021:

IFCC NATIONAL SOCIETY MEMBERS AND NON-MEMBERS	€150
CORPORATE/INDUSTRY REPRESENTATIVES	€150
YOUNG SCIENTISTS/TRAINEES (=/< 40 YEARS)	€ 50

Registration will allow you to:

- enter all sessions of the programme (both plenary and parallel)
- ask "live" questions and interact with the speakers
- visit industry virtual booths and attend educational workshops
- get a Certificate of Attendance
- enter the recorded sessions for 12 months after the conference date



VIRTUAL INDUSTRY EXHIBITS AND WORKSHOPS

Opportunities for both live and recorded exhibits and workshops by corporate members, IVD manufacturers as well as other member and non-member industry partners.

More information will be sent soon directly to companies' representatives.



VIRTUAL NETWORKING ONLINE CHAT ROOM



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