



XV ICPLM



Emerging Technologies in
Pediatric Laboratory Medicine

VIRTUAL MEETING

26-27 November 2021


IFCC
International Federation
of Clinical Chemistry
and Laboratory Medicine


EUROMEDLAB
2021 MUNICH

www.icplm2021.org

Dear Colleagues,

On behalf of the Organizing Committee of the XV International Congress of Pediatric Laboratory Medicine (ICPLM) and the International Federation of Clinical Chemistry and Laboratory Medicine Committee of Emerging Technologies in Pediatric Laboratory Medicine (C-ETPLM) we invite you to the re-scheduled Congress due to the Covid-19 pandemic to be held and delivered fully virtually on 26th - 27th November 2021.

The Congress theme will focus on the Emerging Technologies in all areas of pediatric clinical and diagnostic laboratory medicine and we are certain that all participants will be enthused by the program. Taking place immediately before the EuroMedLab 2021 - XXIV IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, the congress offers you the unique opportunity to gather the latest information in laboratory medicine with a special focus on children. The scientific program will cover a wide range of topics and includes sessions on emerging technologies in paediatrics, mass spectrometry, applications of NGS, hematology, data mining approaches to clinical values, AI/ machine learning and the response to the Covid-19 pandemic in paediatrics.

We would also like to encourage you to submit your latest scientific research results to be presented in scientific oral and poster sessions. The program offer the opportunity to interact and network with a wide variety of professionals including laboratory physicians, scientists and technologists, as well as practicing clinicians in pediatrics, neonatology, infectious disease and family medicine.

Detailed information about the 2021 ICPLM and its program can be found at the following link: www.icplm2021.org.

Tim Lang
Chair ICPLM 2021

Sharon Geaghan
Co-chair, ICPLM 2021

CHAIRS OF THE CONGRESS

Tim Lang, UK
Sharon Geaghan, USA

EMERGING TECHNOLOGIES IN PEDIATRIC LABORATORY MEDICINE (C-ETPLM)

T. Lang, UK	Y.B. de Rijke, NL
T.P. Loh, SG	K. Kohse, DE
C. M. Mak, CN	S. Geaghan, USA
I. Papassotiriou, GR	R. Greaves, AU
J. Zierk, DE	

LIST OF CORRESPONDING MEMBERS, NOMINATED BY NATIONAL SOCIETIES

Martha Lyon	Canadian Society of Clinical Chemists (CSCC)
Agnès Mailloux	Société Française de Biologie Clinique (SFBC)
Elena Dumin	Israel Society for Clinical Laboratory Science
Atsushi Watanabe	Japan Society of Clinical Chemistry (JSCC)
Audrone Eidukaite	Lithuanian Society of Laboratory Medicine
Josephine Onakoya	Association of Clinical Chemists Nigeria (ACCN)
Anne-Lise Bjørke-Monsen	Norwegian Society of Medical Biochemistry
Ranya Abu Sair	Palestinian Medical Technology Association (PMTA)
Josep Miquel Bauçá	Sociedad Española de Medicina de Laboratorio (SEQCML)
Eresha Jasinghe	Association for Clinical Biochemistry, Sri Lanka
Fatma Taneli	Turkish Biochemical Society (TBS)
Joely Straseski	American Association for Clinical Chemistry (AACC)
Tran Thi Chi Mai	Vietnamese Association of Clinical Biochemists (VACB)

FRIDAY 26TH NOVEMBER

08.30 **OPENING CEREMONY**
 08.45 Introduction of Congress and opening by Chair and IFCC President
Tim Lang (London, UK), Khosrow Adeli (Toronto, Canada)

08.45 **Plenary 1**
 09.30 *Chair: Tim Lang*

COVID-19 and the impact on child health
Ruud Nijman (London, UK)

10.00 **Symposium 1**
 12.00 **Emerging Technologies in Pediatrics**
Chairs: Tim Lang, Sharon Geaghan

- Introduction to Emerging Technologies in Paediatrics
Sergio Bernardini (Rome, Italy)
- Paediatric related issue from Committee on Mobile Health and Bioengineering in Laboratory Medicine (C-MHBLM)
Tahir Pillay (Cape Town, South Africa)
- A Machine Learning Approach for the Automated Interpretation of Plasma Amino Acid Profiles
Rachel Carling (London, UK)

12.15 **Symposium 2**
 14.15 **Mass spectrometry**
Chairs: Yolanda de Rijke, Ronda Greaves

- Updates in mass spectrometry related to paediatric topics
Daniel Holmes, (Vancouver, Canada)
- Lipidomics in Paediatrics
Martin Hersberger (Zurich, Switzerland)
- Differential diagnosis of steroid related disorders in DSD
Stefan Wudy (Giessen, Germany)

14.30 **Plenary 2**
 15.30 *Chair: Sergio Bernardini*

Ending diagnostic odyssey in undiagnosed rare diseases by WES
Ching-wan Lam (Hong Kong, China)

15.45 **Symposium 3**
 17.45 **Emerging applications of NGS in paediatrics**
Chairs: Chloe Mak, Vijay Grey

- Next generation sequencing on NBS using DBS, either second tier or first line screening
Chloe Mak (Hong Kong, China)
- Use of ultra rapid WGS in paediatrics
Sebahattin Cirak (Cologne, Germany)
- The Neonatal Intestinal Microbiome: Origins and Outcomes
Nikhil Pai (Hamilton, Canada)

SATURDAY 27TH NOVEMBER

08.30 **Plenary 3**
 09.30 *Chair: Klaus Kohse*

Metabolic regulation of early growth and later health- opportunities for preventive strategies
Berthold Koletzko (Munich, Germany)

09.45 **Symposium 4**
 11.45 **Haematology**
Chairs: Ioannis Papassotiriou, Sharon Geaghan

- Prenatal genotyping for monitoring haemolytic anaemia of newborn
Agnes Mailloux (Paris, France)
- Endothelial dysfunction and coagulopathy in Covid-19
Ioannis Papassotiriou (Athens, Greece)
- Laboratory assessment of hematologic and immunologic parameters in Pediatric patients with Covid-19
Chrysanthi Skevaki (Marburg, Germany)

12.00 **Symposium 5**
 14.00 **Data mining approach to clinical values**
Chairs: Tze Ping Loh, Jakob Zierk

- LIFE child study
Wieland Kiess (Leipzig, Germany)
- Data mining of pediatric reference intervals
Jakob Zierk (Erlangen, Germany)
- CALIPER Web and Mobile eApps: Electronic Tools for Pediatric Reference Interval Data Management
Khosrow Adeli (Toronto, Canada)

14.15 **Symposium 6**
 15.15 **Oral Presentation of submitted abstracts**
Chairs: Vijay Grey, Sharon Geaghan

- A Novel Pipeline for the Estimation of Continuous Pediatric Reference Intervals using Real-World Data, *Ammer Tatjana, Germany*

- Biochemical and liver biomarkers monitoring in Chilean hereditary tyrosinemic type-1 patients under NTBC treatment and protein-restricted diet, *Fuenzalida Karen, Chile*

- Hypertension, hypokalaemia and metabolic alkalosis in a neonate, *Chale-Matsau Bettina, South Africa*

- Maternal and neonatal vitamin B12 deficiency detected through expanded newborn screening in Southern Spain, *Yahyaoui Raquel, Spain*

15.15 **CLOSING CEREMONY**
 15.30

AWARDS

Three scientific awards will be given for:

1. The best oral presentation by a young attendee (less (<40 years old on the 1st of January 2021) will be awarded the **Michael Metz** Award (€500), a new award commemorating the life and work of the past chair of the Task Force of Pediatric Laboratory Medicine



2. The best poster by an attendee (€300)

3. The best oral presentation by an attendee >40 years old on 1st of January 2021 (€300)

SCHOLARSHIPS

With the XVth International Congress of Pediatric Laboratory Medicine becoming a virtual only meeting the Society for the Study of Inborn Errors of Metabolism has generously offered to support more Scholarships covering the Registration Fee to support individuals with an interest in inherited metabolic diseases. **The deadline for applications is Monday 8th November.** Updated information about selection criteria may be found on the congress website.

The aim of the Society, founded in 1963, is to foster the study of metabolic and related topics, and to promote ideas exchange between professionals in different disciplines in inherited metabolic disease (<http://www.ssiem.org>).



NEW REGISTRATION FEES

1. Full Registration	€ 180,00
2. Young Scientist (< 35 years)	€ 100,00

Vat 22% Included

THE REGISTRATION FEES INCLUDE

- password that will allow you to connect to the Virtual Plattform
- certificate of attendance

ABSTRACT

Congress delegates have been invited to submit abstracts of their scientific work for poster presentation at XV International Congress of Pediatric Laboratory Medicine (ICPLM). Abstracts have arrived in all fields of Pediatric Laboratory Medicine (clinical chemistry, hematology, clinical molecular biology and laboratory medicine). Some abstracts have been selected for oral presentation during the abstract presentation session.

All posters will be displayed as pdf file in a gallery on the Virtual Plattform.

SPONSOR



Organizing Secretariat - MZ CONGRESSI
Via Carlo Farini 81 - 20159 Milan - Italy
Ph: +39 0266802323 - Fax +39 026686699
icplm2021@mzcongressi.com