



# XV ICPLM



Emerging Technologies in  
Pediatric Laboratory Medicine

PRELIMINARY PROGRAM

**26-28 November 2021**

München,  
Germany

[www.icplm2021.org](http://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 in Munich, Germany on 26th - 28th 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 Munich and its program can be found at the following link: [www.icplm2021.org](http://www.icplm2021.org). Please save these dates in your calendar - we look forward to hosting you in Munich in November 2021.

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*Tim Lang*  
Chair ICPLM 2021

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*Sharon Geaghan*  
Co-chair, ICPLM 2021

## CHAIRS OF THE CONGRESS

Tim Lang, UK  
Sharon Geaghan, USA

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## 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	

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## 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 26<sup>TH</sup> NOVEMBER

- 18.00 **OPENING CEREMONY**  
 18.15 Introduction of Congress and opening by Chair and IFCC President
- 18.15 **Plenary 1**  
 19.00 COVID-19 and the impact on child health  
*Ruud Nijman (London, UK)*
- 19.00 **POSTER VIEWING**  
 20.30

SATURDAY 27<sup>TH</sup> NOVEMBER

- 08.30 **Plenary 2**  
 09.30 TOPIC - Ending diagnostic odyssey in undiagnosed rare diseases by WES  
*Ching-wan Lam (Hong Kong, China)*
- 09.30 **Symposium 1**  
 12.30 **Emerging Technologies in Paediatrics**
- 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)*
- 09.30 **Symposium 2**  
 12.30 **Mass spectrometry**
- 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)*

- 13.30 **Symposium 3**  
 16.30 **Emerging applications of NGS in paediatrics**
- 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)*

- 13.30 **Symposium 4**  
 16.30 **Haematology**
- 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)*

SUNDAY 28<sup>TH</sup> NOVEMBER

- 09.00 **Symposium 5**  
 11.30 **Data mining approach to clinical values**
- LIFE child study  
*Jürgen Kratzsch (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)*
- 09.00 **Symposium 6**  
 11.00 **Oral Presentation of submitted abstracts**  
*CO CHAIRS - Sharon Geaghan (Stanford, USA) and Vijay Grey (Hamilton, Canada)*  
 4 speakers to be chosen from abstract submissions  
 Judging and Presentations
- 11.30 **Plenary 3**  
 12.30 Metabolic regulation of early growth and later health- opportunities for preventive strategies  
*Berthold Koletzko (Munich, Germany)*
- 12.30 **CLOSING CEREMONY**  
 13.00

## AWARDS

Poster presentations on all Topics in Pediatric Laboratory Medicine are invited. Three scientific awards will be given for:

1. The best oral presentation by a young attendee (less <40 years old on the 1<sup>st</sup> 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

The Society for the Study of Inborn Errors of Metabolism has generously offered 20 travel grants (500EURO each) to support individuals with an interest in inherited metabolic diseases. 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>). Information about selection criteria may be found on the congress website.



## TIMETABLE

h	FRIDAY, 26 <sup>th</sup> NOV 2021	SATURDAY 27 <sup>th</sup> NOV 2021		h	SUNDAY 28 <sup>th</sup> NOV 2021	
8.30-9.30		PLENARY LECTURE 2				
9.30-12.30		SYM 1 Emerging Technologies in Pediatrics	SYM 2 Mass spectrometry	9.00-11.30	SYM 5 Data mining approach to clinical values	SYM 6 Abstracts Oral Presentations
12.30-13.30		POSTER VIEWING		11.30-12.30	PLENARY LECTURE 3	
13.30-16.30		SYM 3 Emerging applications of NGS in paediatrics	SYM 4 Haematology	12.30-13.30	CLOSING CEREMONY POSTER AWARDS	
18.00 - 19.00	OPENING CEREMONY PLENARY LECTURE 1					

## CONGRESS VENUE

### H4 HOTEL MÜNCHEN MESSE

KONRAD-ZUSE-PLATZ 14  
81829 MÜNCHEN

## REGISTRATION

	BEFORE 15 OCT	AFTER 15 OCT	ON SITE
Full Registration	€ 300	€ 360	€ 480
Young Scientist (< 35 years)	€ 120	€ 180	€ 300
Day registration (27th /28th)	€ 180	€ 180	€ 240

(19% Vat included)

THE FULL REGISTRATION AND YOUNG REGISTRATION FEES INCLUDE

- entrance to plenary lectures, symposia, posters sessions and exhibition
- possibility to submit abstracts
- certificate of attendance

THE DAY REGISTRATION FEE INCLUDES, FOR THE DAY OF REGISTRATION ONLY

- entrance to plenary lectures, symposia, posters sessions and exhibition
- certificate of attendance

## ABSTRACT

Congress delegates are invited to submit abstracts of their scientific work for poster presentation at XV International Congress of Pediatric Laboratory Medicine (ICPLM). Abstracts are welcome in all fields of Pediatric Laboratory Medicine, (clinical chemistry, hematology, clinical molecular biology and laboratory medicine) . A limited number of abstracts will be selected for oral presentation during an abstract presentation session on Sunday.

Please visit the web site: <http://www.icplm2021.org/> in order to submit your abstract.

Abstract submission deadline: 31st August 2021.



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