



XV ICPLM

Emerging Technologies in
Pediatric Laboratory Medicine

22-24 May 2020
SKY31 CONVENTION
SEOUL - KOREA

PRELIMINARY PROGRAM

www.icplm2020.org

Abstract submission
deadline
15 FEBRUARY 2020

Abstract acceptance
notification
28 FEBRUARY 2020

Early-bird/Presenter
registration deadline
31 MARCH 2020

Dear Colleagues,

On behalf of the Organizing Committee of the XV International Congress of Pediatric Laboratory Medicine (ICPLM) and the Committee of Emerging Technologies in Pediatric Laboratory Medicine (C-ETPLM) of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), **we invite you to the Congress in Seoul, South Korea on 22nd - 24th May 2020.**

The Congress is organized in cooperation with the Korean Society of Clinical Chemistry.

The Congress 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 IFCC World Lab Seoul 2020, 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 neonates and newborn screening, endocrinology (including bone metabolism), clinical cases, data mining approaches to clinical values, emerging technologies in pediatrics and application of NGS in pediatrics, hematology, POCT and Pediatric Laboratory Medicine, and many other topics. 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 2020 ICPLM Seoul and its program can be found at the following link: www.icplm2020.org

Please save these dates in your calendar - we look forward to hosting you in Seoul in May 2020.

Tim Lang
Chair ICPLM 2020

Sharon Geaghan
Co-chair, ICPLM 2020

CHAIRS OF THE CONGRESS

Tim Lang, UK
Sharon Geaghan, USA

EMERGING TECHNOLOGIES IN PEDIATRIC LABORATORY MEDICINE (C-ETPLM)

T. Lang, UK
T.P. Loh, SG
C. M. Mak, CN
I. Papassotiriou, GR
M. Turzyniecka, ZA

J. Zierk, DE
K. Kohse, DE
S. Geaghan, USA
R. Greaves, AU

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)
Eresha Jasinghe	Association for Clinical Biochemistry, Sri Lanka
Umit Dilber Mutlu	Turkish Biochemical Society (TBS)
Joely Straseski	American Association for Clinical Chemistry (AACC)
Tran Thi Chi Mai	Vietnamese Association of Clinical Biochemists (VACB)



Friday 22nd May 2020
18.15-19.00

Prof. Hye Ran Yang, Korea

Paediatric Obesity Epidemic in SE Asia

Professor Yang is Professor of the Division of Pediatric Gastroenterology, Hepatology, and Nutrition, Department of Pediatrics, Seoul National University Bundang Hospital. She completed her medical training at the Seoul National University College of Medicine with internships at the Seoul National University Hospital and Children's Hospital, completing her MSc and Ph.D. She was a visiting scholar at the Institute of Human Nutrition, Columbia University, New York. She is the current director of the Nutritional Board of the Korean Pediatric Society and Nutrition Committee of the Korean Society of Pediatric Gastroenterology, Hepatology and Nutrition. She has won several academic prizes, most recently the 2019 Young Investigator's Award at 52th Annual Meeting of ESPGHAN. She has published over 100 peer reviewed papers and is the lead author of Clinical Practice Guideline for the Diagnosis and Treatment of Pediatric Obesity: Recommendations from the Committee on Pediatric Obesity of the Korean Society of Pediatric Gastroenterology Hepatology and Nutrition.



Saturday 23rd May 2020
8.30-9.30

Prof. Ching-wan Lam, Hong Kong SAR, China

Genome sequencing for undiagnosed and rare diseases in children

Professor Lam obtained his MBChB from The Chinese University of Hong Kong in 1991 and FRCPA in 1997 from The Royal College of Pathologists of Australasia with a double scope of practice in Chemical Pathology and Genetics. He obtained his PhD in 2000 from The Chinese University of Hong Kong. He obtained FRCP(Glas) from The Royal College of Physicians and Surgeons of Glasgow in 2012. He identified the first gene for infantile autism in 2000. He is currently a Clinical Professor at The University of Hong Kong and a registered specialist in pathology. His research interests include various aspects of advanced genetic testing, inherited metabolic diseases, clinical metabolomics and clinical genomics. He is an editor of Clinica Chimica Acta.



Sunday 24th May 2020
8.30-9.30

Dr. Ngiam Kee Yuan, Singapore

Clinical Artificial Intelligence

Group Chief Technology Officer, National University Health System. Deputy Chief Medical Informatics Officer, National University Hospital. Assistant Professor Ngiam Kee Yuan is the Group Chief Technology Officer of the National University Health System (NUHS) Singapore overseeing technology deployment in the Western Healthcare Cluster of Singapore. In this role he assists the Chief Executive to implement new technologies throughout NUHS and serves as the Chief Advisor to the Centre for Innovation in Healthcare in NUHS. Prof Ngiam is concurrently the Deputy Chief Medical Informatics Officer at the National University Hospital of Singapore with a special focus on artificial intelligence research and implementation in healthcare. In his capacity as Assistant Professor, Department of Surgery, Yong Loo Lin School of Medicine NUS, he engages in research into endocrine and metabolic surgery as well as artificial intelligence applications in healthcare. He promotes interdisciplinary collaboration throughout the NUS campus, particularly between the schools of medicine, engineering and computer science for various healthcare applications. He was awarded the ExxonMobil-NUS Research Fellowship for Clinicians and numerous teaching awards for his work in research and education.



Sunday 24th May 2020
14.20-15.20

Dr. Shao Huilin Singapore

Emerging Biotech

Dr. Huilin Shao received her BA from Cornell University, with a double major in Biological Sciences and in Physics. She completed her dual PhD (Biophysics) at Harvard University and PhD (Medical Engineering) from Harvard-MIT Health Sciences and Technology (HST) under the guidance of Profs. Ralph Weissleder and Robert S.Langer. After a postdoctoral fellowship with Prof. Hakho Lee at Massachusetts General Hospital, Harvard Medical School, Dr. Shao returned to Singapore and started her research group. Her research focuses on developing integrated nanotechnology-based platforms for molecular analyses of novel biomarkers. Her work has been published in top journals such as Nature Biotechnology, Nature Medicine, Nature Communications and highlighted in major reviews and popular news media.

PROGRAM FRIDAY MAY 22

ROOM A

- 17.00 **Opening Ceremony and Plenary Lecture 1**
 19.00 **Paediatric Obesity Epidemic in SE Asia**, *Hye Ran Yang, Korea*

PROGRAM SATURDAY MAY 23

ROOM A

- 08.30 **Plenary Lecture 2**
 09.30 **Genome sequencing for undiagnosed and rare diseases in children**
Ching-wan Lam, Hong Kong SAR, China
- 09.30 **SYMPOSIUM 1**
 12.30 **Emerging Technologies in Paediatrics**
 CHAIR: TBC
- SPEAKERS:
 Introduction to Emerging Technologies in Paediatrics
Sergio Bernardini, Italy
 Updates in mass spectrometry related to paediatrics
Daniel Holmes, Canada
 The potential of e-health and m-health in paediatric laboratory medicine to improve service delivery
Tahir Pillay, South Africa
- 13.30 **SYMPOSIUM 3**
 15.00 **Emerging application of NGS in paediatrics**
 CHAIRS: *Ching-wan Lam, Hong Kong SAR, China*
- SPEAKERS:
 Next generation sequencing on second-tier newborn screening using dried blood spots
Kwok-yeung Tsang, Hong Kong SAR, China
 NGS is the latest development in the intestine flora and the latest development in clinical testing industry
Lai Xinzhi, Taiwan
- 15.15 **SYMPOSIUM 5**
 17.30 **POCT / Remote laboratory**
 CHAIRS: *Sharon Geaghan, USA; Kohse Klaus, Germany*
- SPEAKERS:
 New Horizons in Pediatric Point of Care Testing
Adil Khan, USA
 Pediatric POCT for Infectious Crises and Critical Patients
Gerald Kost, USA
 Patient-to-Patient Infection Transmission Associated With Point of Care Testing and the Laboratory's Role in Risk Reduction
Sharon Geaghan, USA

PROGRAM SATURDAY MAY 23

AUDITORIUM

- 09.30 **SYMPOSIUM 2**
 12.30 **Neonates and Newborn Screening**
 CHAIRS:
Vijay Grey, Canada, Tim Lang, UK
- SPEAKERS:
 CAH screening/ rolling out 17OHP screening across Australia
Ronda Greaves, Australia
 DBS for establishing RI in the perinatal period
Jones Patti, USA
 The Neonatal Intestinal Microbiome: origins and outcomes
Nikhil Pai, Canada
- 13.30 **SYMPOSIUM 4**
 15.45 **Haematology**
 CHAIRS: *Agnes Mailloux, France; Ioannis Papassotiriou, Greece*
- SPEAKERS:
 Prenatal genotyping for monitoring haemolytic anaemia of newborn
Agnes Mailloux, France
 Haemoglobinopathies
Ioannis Papassotiriou, Greece
 The clinical impact of metabolome analysis in Sickle Cell Disease
Ioannis Papassotiriou, Greece
- 16.00 **SYMPOSIUM 6**
 17.45 **Clinical Cases**
 CHAIRS: *Roy Peake, USA; Joely Straseski, USA*
- SPEAKERS:
 Optimizing workflows for low-volume, clinically urgent testing: Automated reports for serum HVA/VMA orders
Jane Dickerson, USA
 Diagnosis of classic galactosemia through whole exome sequencing
Ronda Greaves, Australia
 Identification of congenital or acquired pseudohypoaldosteronism using mass spectrometry
Dan Holmes, Canada
 The use of pediatric reference intervals in the clinical laboratory
Kim Jeong-Ho, Korea
 The use of untargeted metabolomics as a discovery tool for inborn errors of metabolism
Roy Peake, USA

ROOM A

08.30 **PLENARY LECTURE 3**
 09.30 **Clinical Artificial Intelligence**
KY Ngiam, Singapore

09.30 **SYMPOSIUM 7**
 12.30 **Emerging technologies for pediatric reference intervals**
 CHAIRS: *Loh Tze Ping, Singapore; Jakob Zierk, Germany*

SPEAKERS:
 CALIPER Web and Mobile eApps: Electronic Tools for Pediatric Reference Interval Data Management
Khosrow Adeli, Canada
 Reference Values for 30 Common Biochemistry Analytes Across 5 Different Analyzers in Neonates and Children 30 Days to 18 Years of Age
Monsurul Hoq, Australia
Data mining of pediatric reference intervals: methods, results, and outlook
Jakob Zierk, Germany

13.00 **SYMPOSIUM 8**
 14.20 **Abstracts Oral Presentations**
 CHAIRS: *Sharon Geaghan, Canada; Vijay Grey, USA*

14.20 **PLENARY LECTURE 4**
 15.20 **Emerging Biotech**
Shao Huilin, Singapore

15.20 **CLOSING CEREMONY**
 15.35 **POSTER AWARDS**

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, 22 ND MAY 2020	SATURDAY 23 RD MAY 2020	h	SUNDAY 24 TH MAY 2020
8.30-9.30		PLENARY LECTURE 2	8.30-9.30	PLENARY LECTURE 3
9.30-12.30		SYM 1 Emerging Technologies in Pediatrics	9.30-12.30	SYM 7 Data Mining approach to clinical values
12.30-13.30		POSTER VIEWING		12.30-13.00 POSTER VIEWING
13.30-15.45		13.30-15.00 SYM 3 Emerging application of NGS in pediatrics	13.00-14.20	SYM 8 Abstracts Oral Presentations
		13.30-15.45 SYM 4 Haematology	14.20-15.20	PLENARY LECTURE 4
			15.20-15.35	CLOSING CEREMONY POSTER AWARDS
15.15-17.45		15.15-17.30 SYM 5 POCT / Remote Laboratory		
		16.00-17.45 SYM 6 Clinical Cases		
19.00 - 21.00	OPENING CEREMONY PLENARY LECTURE 1			

CONGRESS VENUE

SKY 31 CONVENTION

31F LOTTE World Tower, 300 Olympic-ro, Songpa-gu, Seoul.

The SKY 31 convention located at the Lotte World Tower, which symbolizes Korea's pride. With a differentiated infrastructure, you can experience the world's most comprehensive conventions. Lotte World Tower, the tallest vertical city in Korea, can hold various events such as seminars, exhibitions and conferences at a reasonable price on the 31st floor. Please enjoy the best service at SKY 31 Convention which is based on beautiful Han River and Seokchon Lake.

REGISTRATION

	BEFORE 31 MARCH	AFTER 31 MARCH	ON SITE
Full Registration	€ 250	€ 300	€ 400
Young Scientist (< 35 years)	€ 100	€ 150	€ 250
Day registration (23rd /24th)	€ 150	€ 150	€ 200

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 afternoon at the Congress. Please visit the web site: <http://www.icplm2020.org/> in order to submit your abstract.

Abstract submission deadline: 15 February 2020.

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 1st of January 2020) 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 2020 (€300)