XIIIth International Congress of Pediatric Laboratory Medicine

Istanbul, Turkey
Istanbul Congress Center
June 20-22, 2014

FINAL PROGRAM
Dear Colleagues,

On behalf of the International Federation of Clinical Chemistry Task Force on Pediatric Laboratory Medicine it gives us great pleasure to welcome you to the XIIIth International Congress of Pediatric Laboratory Medicine (ICPLM) in Istanbul. Istanbul is a world metropolis with a rich cultural heritage and we hope you will find time to enjoy many of the city’s attractions.

The congress organizing committee has put together a scientific program that covers a wide variety of topics relevant to both the laboratory and non-laboratory specialist. The plenaries, and symposia, evolved from suggestions of our many colleagues represented on the International Scientific Advisory Board. New this year is a panel discussion on Critical Values.

In addition to the scientific program we invite you to the opening ceremony and welcome reception on Friday evening and the Congress dinner on Saturday evening. We hope this will provide an opportunity to renew friendships and foster collaborations.

Meetings such as this cannot take place without the help of many people. National societies and corporate sponsors, listed on the back cover page provided financial support. We are very grateful for the support of the Organizing Secretariat-MZ Congressi in Milan, and the IFCC.

Welcome to Istanbul, and have a wonderful stay!

Prof. Vijay L. Grey, Chair ICPLM 2014
Prof. Dr. Feyza Darendeliler, Co-chair, ICPLM 2014
Prof. Dr. Ümit Türkoğlu, Co-chair, ICPLM 2014
COMMITTEES

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Prof. Dr. Feyza Darendeliler - Turkey
Prof. Dr. Ümit Türkoğlu - Turkey

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Prof. Umit Turkoglu - Turkey
Prof. Nazmi Özzer - Turkey
Dr. Sihe Wang - USA
Dr. Darina Behulova - Slovakia
Prof. Hoàng Van Son - Vietnam
FRIDAY 19th JUNE 2014
17:00 – 19:00

OPENING CEREMONY | Tophane Hall
Chair: Vijay Grey (Canada)

17:00 Welcome! Opening of the XIII ICPLM Congress
18:15 Plenary Lecture

Neonatal screening programs
Dr. Bekir Keskinliç (Turkey)

Dr. Bekir Keskinliç is a family practitioner specialist and Deputy General Director, Ministry of Health, Deputy Director General, General Directorate of Primary Health Care, Turkey.

19:00 Welcome reception
SATURDAY 20th JUNE
08:30 - 09:30

PLENARY LECTURE | Tophane Hall
Chair: Vijay Grey (Canada)

Newborn Screening for metabolic diseases: Saving children’s lives and improving outcomes
Michael J. Bennett (USA)

Michael J. Bennett Ph.D., FRCPath, DABCC, FACB, is a Professor of Pathology and Laboratory Medicine at the University of Pennsylvania and Director of the Metabolic Disease laboratory at The Children’s Hospital of Philadelphia. He holds the Evelyn Willing Bromley Endowed Chair in Clinical Laboratories and Pathology.

09:40 - 12:45

SYMPOSIUM 1 | NEONATAL SCREENING | Tophane Hall
Chair: Tim Lang (UK); Patti Jones (USA)

09:40  Expanded newborn screening pilot in the UK
Jim Bonham (UK)
10:20  Analysis of Dried Blood Spot Samples by High Resolution Mass Spectrometry – from newborn screening to cancer diagnostics
Zoltan Takats (UK)

11:00 | COFFEE BREAK

11:20  Newborn screening for lysosomal disorders by tandem mass spectrometry
Michael Gelb (USA)
12:05  Novel approach for newborn errors of metabolism screening (NEMS) by NMR; Clinical NEMS-BY-NMR study in Turkey
Selda Bulbul (Turkey)

SYMPOSIUM 2 | THE NEONATE | Macka Hall
Chair: Sharon Geaghan (USA); Michael Mussap (Italy)

09:40  Laboratory diagnostic tools for fetal personalized medicine and improving neonatal outcome.
Sharon Geaghan (USA)
10:20  The impact of therapeutic drug monitoring (TDM) in neonatal clinical pharmacology
John van den Anker (USA)
11:00 | COFFEE BREAK

11:20  Novel biomarkers for diagnosing and understanding pathophysiology of metabolic diseases  
       Michael J. Bennett  (USA)

12:05  Urinary metabolomic profiling in neonatal nephrology  
       Vassilios Fanos  (Italy)

SYMPOSIUM 3 | NUTRITION | Yildiz 1 Hall
Chair: Vijay Grey (Canada); Anne Lise Monsen (Norway)

09.40  Promoting healthy growth and nutrition in preterm infants – a challenge for clinicians and researchers  
       Christoph Fusch  (Canada)

10.20  Is exclusive breastfeeding ensuring an optimal micronutrient status and psychomotor development in infants?  
       Anne Lise Monsen  (Norway)

11:00 | COFFEE BREAK

11.20  The concept of oral tolerance induction to foods  
       Gideon Lack  (UK)

12.05  Delivering safe and effective parenteral nutrition  
       John Puntis  (UK)

14:30 - 17:30

SYMPOSIUM 4 | ENDOCRINOLOGY | Tophane Hall
Chair: Klaus Kohse (Germany); Martin Hersberger (Switzerland)

14:30  Neonatal hypoglycemia  
       Tim Lang  (UK)

15:10  Non-alcoholic fatty liver disease in children and adolescents  
       Valerio Nobili  (Italy)

15:50 | COFFEE BREAK

16:10  The development of type 2 diabetes in the obese adolescents: a growing challenge  
       Sonia Caprio  (USA)

16:50  Cardiovascular risk prediction in children and adolescents  
       Olli T Raitakari  (Finland)
SYMPOSIUM 5 | IMMUNOLOGY and ALLERGY TESTING | Macka Hall
Chair: Sharon Geaghan (USA); Sihe Wang (USA)

14:30 Novel diagnostic options for immunodeficiencies
Ulrich Sack (Germany)

15:10 The many faces of haemophagocytic lymphohistiocytosis - a challenge in diagnosis and therapy
Despina Moshous (France)

15:50 | COFFEE BREAK

16:10 In-vitro diagnosis of allergic diseases
Omer Kalaycı (Turkey)

16:50 Current issues in diagnostic allergy testing in children for a group of laboratorians
Arzu Bakitas (Turkey)

SYMPOSIUM 6 | PEDIATRIC CANCERS | Yildiz 1 Hall
Chair: Tangirala Malati (India); Vijay Grey (Canada)

14:30 Genomics and Epigenomics in Pediatric Oncology and Clinical Laboratory Genetics
Bekim Sadikovic (Canada)

15:10 Biomarkers in pediatric tumors
Mehmet Kantar (Turkey)

15:50 | COFFEE BREAK

16:10 Clinical relevance of AFP, its molecular variants and HCG in Hepatoblastoma and childhood germ cell tumors
Tangirala Malati (India)

16:50 High grade osteosarcoma: clinico-pathological aspects and molecular prognostic factors.
Roberto Tirabosco (UK)
SUNDAY 22\textsuperscript{nd} JUNE

08:30 - 09:30

PLENARY LECTURE | Tophane Hall
Chair: Klaus Kohse (Germany)

Metabolic syndrome in childhood and adolescence
Wieland Kiess (Germany)

Prof. Wieland Kiess, Professor, University of Leipzig, Director Children’s Hospital, Germany.

09:40 - 12:45

SYMPOSIUM 7 | REFERENCE INTERVALS | Tophane Hall
Chair: Klaus Kohse (Germany); Adeli Khosrow (Canada)

09:40 Closing the gaps in pediatric reference intervals: The CALIPER project- an update.
Khosrow Adeli (Canada)
10:20 Pediatric reference intervals - the Swedish experience.
Peter Ridefelt (Sweden)

11:00 | COFFEE BREAK

11:20 KIGGS: The German survey on child health as a source for reference intervals
Klaus Kohse (Germany)
12:05 Hormone profiles in extremely premature infants
Ronda Greaves (Australia)

SYMPOSIUM 8 | PEDIATRIC LABORATORY TESTING | Macka Hall
Chair: Michael Metz (Australia); Remy Couderc (France)

09:40 Pediatric clinical chemistry: why is it different?
Remy Couderc (France)
10:20 Measurement of GFR for children and an LC-MS/MS method for nonradioactive lothalamate
Sihe Wang (USA)

11:00 | COFFEE BREAK

11:20 What to expect from a bilirubin analysis for management of jaundiced newborns?
Agnes Mailloux (France)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>12:05</td>
<td>Ammonia, a troublesome analyte</td>
<td>Michael Metz</td>
<td>(Australia)</td>
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<td>**SYMPOSIUM 9</td>
<td>SELECTED TOPICS</td>
<td>Yildiz 1 Hall**</td>
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<td><strong>Chair:</strong> Umit Turkoglu (Turkey); Sharon Geaghan (USA)</td>
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<td>09:40</td>
<td>Diagnosis of neonatal sepsis: what the clinician expects, what the labor</td>
<td>Zeynep Ince</td>
<td>(Turkey)</td>
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<tr>
<td>10:20</td>
<td>New therapeutic principles for familial hypercholesterolemia</td>
<td>Guiseppe Danilo Norata</td>
<td>(Italy)</td>
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<td>11:00</td>
<td><strong>COFFEE BREAK</strong></td>
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<td>11:20</td>
<td>A synopsis of methods of sweat tests in pathology</td>
<td>Paul Quinton</td>
<td>(USA)</td>
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<tr>
<td>12:05</td>
<td>Recent advances in the molecular diagnosis of inborn errors of metabolism</td>
<td>Faith Ezgu</td>
<td>(Turkey)</td>
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**SYMPOSIUM 10 | ABSTRACT PRESENTATIONS | Tophane Hall**

**Chair:** Patti Jones (USA); Ioannis Papassotiriou (Greece)

**13:30 - 15:30**

**Oral presentations from selected Abstracts**

- Reduction in the overall incidence of inborn errors of inborn errors of metabolism in eastern province of Saudi Arabia a. - R. Alratrout
- Creatinine determination in human plasma by reversed-phase high-performance liquid chromatography -diode-array detection (HPLC- DAD) - Z. Chellouai
- A candidate reference method for sweat chloride measurement by ICP-MS to aid in the investigation of cystic fibrosis. R. Greaves
- Age- and gender-specific dynamics from birth to adolescence – indirect determination of pediatric reference intervals in 22 hematological and biochemical analytes - Z. Jakob
- Comparison of different methods for ammonia measurement in Southern and Northern Australia. - C. Markus
- Incretins, amylin and other gut-brain axis hormones in children with celiac disease. M. Papastamataki
- Toll-like receptor 6 V327M polymorphism is associated with an increased risk of Klebsiella pneumoniae infection. - H. Yang
A novel method based on multiplex ligation-dependent probe amplification for the detection of 22q11.2 copy number variations in patients with congenital heart diseases. X. Zhang

An investigation of the reference range of neonatal hemoglobin A1c - L. Zhang

Exome sequencing identifies causal variants in genetic skeletal disorders. - Z. Zheng

**SYMPOSIUM 11 | EDUCATIONAL OPPORTUNITIES IN PEDIATRIC LABORATORY MEDICINE | Macka Hall**

**Chair:** Tim Lang (UK); Umit Turkoglu (Turkey)

13:30 The role of the IFCC in supporting e-learning through the Internet
  *Peter Vervaart* (Australia)

14:20 The organisation of training for laboratory scientists in inherited metabolic disease, newborn screening and paediatric clinical chemistry
  *Jim Bonham* (UK)

**SYMPOSIUM 12 | PANEL DISCUSSION CRITICAL VALUES | Yildiz 1 Hall**

13:30

**Chair:** Vijay Grey (Canada)

*Michael Metz* (Australia)
*Khosrow Adeli* (Canada)
*Niilfer Y. Ozturk* (Turkey)

15:30 - 16:30

**CLOSING CEREMONY | PLENARY LECTURE | Tophane Hall**

**Chair:** Michael Metz (Australia)

The pediatric laboratory in developing countries
  *Jocelyn Hicks* (USA)

Jocelyn M. B. Hicks PhD, FACB, FRCPath. is Executive Director Emeritus at Children’s National Medical Centre and Professor Emeritus of Pediatrics and Pathology at The George Washington University School of Medicine in Washington, DC, US. She is currently the President of JMBH Associates, a laboratory management consulting company.

16:30 Poster Awards
16:45 Closing Remarks
GENERAL INFORMATION

CONGRESS VENUE

ISTANBUL CONGRESS CENTER
Taşköşla Street Harbiye 34367
Istanbul, Turkey

The Congress will be held in the following halls:

- Tophane Hall  LEVEL B1
- Macka Hall    LEVEL B2
- Yıldız 1      LEVEL B2
REGISTRATION DESK
The registration desk of the ICPLM 2014 Congress is located on level B1 near Tophane Hall.
Opening times:
- **Friday 20th June** 14:00 - 19:00
- **Saturday 21st June** 08:00 - 17:30
- **Sunday 22nd June** 08:00 - 17:00

NAME BADGE
All participants will receive a name badge when they check in at the registration desk. This badge must be worn at all times because only registered participants will be admitted to the lecture halls.

ON-SITE REGISTRATION FEES

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<th>Registration Type</th>
<th>Fee</th>
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<tr>
<td><strong>FULL REGISTRATION</strong></td>
<td>€400.00</td>
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<tr>
<td><strong>YOUNG REGISTRATION</strong></td>
<td>€250.00</td>
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<tr>
<td><strong>DAY REGISTRATION</strong></td>
<td>€200.00</td>
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Registration fees must be paid in euros only; cash or credit card (American Express, MasterCard, Visa) are accepted.

The **Full Registration Fee** as well as the **Young Registration Fee** include:
- entrance to plenary lectures, symposia, industry-sponsored workshops, posters sessions and exhibition
- possibility to submit one abstract
- abstracts book
- certificate of attendance
- coffee and tea service during intermissions
- Opening Ceremony and Welcome Party (Friday, 20 June 2014)
- Closing Ceremony (Sunday, 22 June 2014)

The **Day Registration Fee** includes, for the day of the registration
- entrance to plenary lectures, symposia, industry-sponsored workshops, posters sessions and exhibition on the day/s of registration
- abstracts book
• certificate of attendance
• coffee and tea service during intermissions
• Opening Ceremony and Welcome Party (Friday, 20 June 2014)
• Closing Ceremony (Sunday, 22 June 2014)

CERTIFICATE OF ATTENDANCE
A certificate of attendance will be issued for the number of days a registrant has actually attended the congress. This certificate will be available at the registration desk and must be picked up before departure.

EXHIBITION
The exhibition is held in the area next to Tophane Hall on Level B1.
Companies exhibiting at the XII ICPLM Congress are:

<table>
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<tr>
<th>COMPANY</th>
<th>BOOTH N.</th>
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<tbody>
<tr>
<td>AB Sciex</td>
<td>2</td>
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<tr>
<td>Mayo Medical Laboratories</td>
<td>3</td>
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<td>Sarstedt</td>
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<td>Waters</td>
<td>5</td>
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Participants are invited to visit the exhibition which will be open as follows:

- **Friday 20th June**: 16:30 - 19:30
- **Saturday 21st June**: 09:00 - 17:30
- **Sunday 22nd June**: 09:00 - 17:00

Admittance to the exhibition area is free of charge and does not require congress registration.

POSTERS
Posters will be displayed in the poster area located on Level B1 near the exhibition area.
Poster must be on display according to the following timetable:

- **set up**: starting 16:00  
  - June 20th
- **display**: 17:00 - 19:00  
  - June 20th
  - 09:00 - 17:30  
  - June 21st
  - 09:00 - 17:00  
  - June 22nd
- **withdrawal**: 17:00 - 17:30  
  - June 22nd

The Organizing Secretariat takes no responsibility for posters left on display afterwards.
Each poster is numbered and the poster board number corresponding to its poster code is shown on the board. 

*Poster authors are requested to be present at their poster panel from 12:45 to 13:30.*

**POSTER AWARDS**

Three poster awards in the amount of 500.00 Euro each will be awarded as follows:

- one award for the best poster by an attendee
- one award for the best oral presentation
- one award for the best poster by a young faculty (<40) or trainee attendee

**COFFEE BREAKS AND LUNCHES**

Coffee breaks are served in the Exhibition and Posters area on Level B1. Delegates must wear their badge in order to have access to coffee breaks.

Lunches are not included in the registration fee. A cash bar is available on Level B1.

**CONGRESS DINNER**

The Congress Dinner will be held at the Boğaziçi Borsa Restaurant on **Saturday 21st June at 20.30**

Boğaziçi Borsa Restaurant  
Lütfi Kırdar Uluslararası Kongre ve Sergi Sarayı  
80230 Harbiye / İSTANBUL

The Congress Dinner has limited places. Tickets will be available at the registration desk until they are sold out.

Cost for one ticket: 30.00 Euro
AKNOWLEDGEMENTS

Instrumentation Laboratory Canada
Newman & Kidler Labcore
Waters

Australasian Association of Clinical Biochemists (AACB)
American Association for Clinical Chemistry (AACC), Pediatric Maternal Fetal Division
Canadian Society of Clinical Chemists (CSCC)
German Society of Clinical Chemistry
The Royal College of Pathologists
Turkish National Pediatric Society

SCIENTIFIC SECRETARIAT
Vijay L. GREY
Professor Emeritus
Department of Pathology and Molecular Medicine,
3N26 - McMaster University Medical Centre,
1200 Main St W., Hamilton ON L8N 3Z5, Canada
E-mail: grey@univmail.cis.mcmaster.ca

ORGANISING SECRETIARIAT
MZ Congressi s.r.l.
Via C. Farini, 81 - 20159 Milano (Italy)
E-mail: marina.festinese@mzcongressi.com
www.mzcongressi.com

www.icplm2014.org