XVI International Congress of Paediatric Laboratory Medicine
20 - 22 October 2017

PRELIMINARY PROGRAM

Blue Waters Hotel
Durban, South Africa

TOPICS
Next Gen Sequencing
Paediatric Lab Testing
Bone metabolism
Reference Intervals
Endocrinology
Point of Care Testing
Nutrition and Immunology
Neonates and Newborn screening

Abstracts submission deadline: 15th June 2017
Abstracts acceptance notification: 15th July 2017
Early-Bird/Presenter registration deadline: 21st July 2017

www.icplm2017.org
Dear Colleagues,

On behalf of the Organizing Committee of the XIV International Congress of Paediatric Laboratory Medicine (ICPLM) and the Task Force on Paediatric Laboratory Medicine (TF-PLM) of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC), we invite you to the Congress in Durban, South Africa on October 20th-22nd 2017.

The Congress will be organized in cooperation with the African Federation of Clinical Chemistry. The Congress will focus on the latest scientific and technological achievements in all areas of paediatric 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 Durban 2017, the congress offers you the unique opportunity to gather the latest information in laboratory medicine for children as well as for adult patients.

The scientific program will cover a wide range of topics and includes sessions on genetically determined diseases in children, metabolic disorders, newborn screening, allergy testing, nutrition, endocrinology, paediatric reference intervals, infectious diseases, challenges of the paediatric laboratory, and many other topics. We would also like to encourage you to submit your latest scientific research results to be presented in scientific poster sessions.

The program will attract a wide variety of participants including laboratory physicians, scientists and technologists, as well as practicing clinicians in paediatrics, neonatology, infectious disease and family medicine.

Detailed information about the 2017 ICPLM Durban and its program can be found at the following link: www.icplm2017.org

Durban which is the third largest city in South Africa is a natural paradise known for its gorgeous, safe swimming beaches and subtropical climate, warm Indian ocean, variety of restaurants and rich cultural diversity. Durban is situated on the eastern coast of Africa in Kwa-Zulu Natal province where summer is all year long.

Please save these dates in your calendar – we look forward to hosting you in Durban in October 2017.

Michael P. Metz                         Magdalena Turzyniecka    Tahir S. Pillay
Chair ICPLM 2017                         Co-chair, ICPLM 2017 Co-chair, ICPLM 2017
Congress President
Dr. Michael Metz - Australia

Co-Chair
Dr. Magdalena Turzyniecka – South Africa
Prof. Tahir S. Pillay - South Africa

IFCC Task Force Paediatric Laboratory Medicine
Dr. Michael Metz - Australia
(Chair)
Dr. Tim Lang - United Kingdom
(Vice Chair)
Prof. Vijay L. Grey – Canada
(Past Chair)

Dr. Sharon M. Geaghan – USA (Member)
Prof. Martin Hersberger – Switzerland (Member)
Dr. Tze Ping Loh – Singapore (Member)
Dr. Magdalena Turzyniecka – South Africa (Member)
Prof. Patricia M. Jones – USA (Advisor)
Prof. Klaus P. Kohse – Germany (Advisor)

International Scientific Advisory Board
Dr. Anne-Lise Bjørke Monsen - Norway
Dr. Audrone Eidukaite - Lithuania
Prof. Binod Kumar Yadav – Nepal
Dr. Darina Behulova - Slovakia
Prof. George Van Der Watt - South Africa
Dr. Ioannis Papassotiriou - Greece
Prof. Jon J Jonsson – Iceland
Prof. Klaus P. Kohse – Germany
Prof. Krystyna Sztefko - Poland
Prof. Martin Hersberger - Switzerland
Dr. Michele Mussap – Italy
Dr. Peter Ridefelt – Sweden
Prof. Rahajuningsih D Setiabudy - Indonesia
Dr. Rémy Couderc – France
Prof. Richard Prusa – Czech
Dr. Ronda Greaves – Australia
Dr. Sihe Wang – USA
Dr. Stephen Hill - Canada
Dr. Tran Thi Chi Mai – Vietnam
Dr. Yolanda B de Rijke – Netherlands
### TIME TABLE and SCIENTIFIC PROGRAM

| **FRIDAY 20th** | **OPENING CEREMONY and PLENARY LECTURE 1**  
| **SATURDAY 21st** | **PLENARY LECTURE 2**  
The use of PoC testing to bypass the traditional laboratory and improve care |
| | **Symposium 1**  
Neonates and Newborn Screening  
**Symposium 2**  
Endocrinology |
| | **Symposium 3**  
Panel discussion of critical values  
**Symposium 4**  
Reference Intervals |
| | **Symposium X**  
Next Generation Sequencing |
| **SUNDAY 22nd** | **PLENARY LECTURE 3**  
The respiratory and gastrointestinal microbiome in early life |
| | **Symposium 5**  
Nutrition and Immunology  
**Symposium 6**  
Bone metabolism |
| | **PLENARY LECTURE 4**  
Genetics of disorders of calcium metabolism |
| | **Symposium 7**  
Paediatric laboratory testing  
**Symposium 8**  
Selected oral presentations |
| | **Closing Ceremony - Poster Awards** |

**Friday 20th October 2017**

**Opening Ceremony and PLENARY SESSION 1**

17.00 - 19.00 - Fontainbleau room

Chair: Magdalena Turzyniecka


*Janusz Paweska*

19.00 - 20.30 Welcome Finger fork Dinner at Versailles Restaurant
Professor Janusz T. Paweska is a head of the Center for Emerging and Zoonotic Diseases at the National Institute for Communicable Diseases of the National Health Laboratory Service (NICD-NHLS), Sandringham, South Africa. He is also the head of the WHO Collaborating Center for Reference and Research on Viral Haemorrhagic Fevers and Arboviruses, regional director of the Global Virus Network, and the deputy director of the Southern Center for Infectious Diseases Surveillance.

His special fields lie in viral diagnostics with focus on the development and validation of novel techniques for rapid pathogen detection and discovery, epidemiology and ecology of arboviruses and viral hemorrhagic fevers, and virus-host interactions.

He has authored/co-authored 148 scientific articles and 13 book chapters.

Prof. Paweska has been a part of international research expeditions and outbreak responses, including the 2002 Ebola outbreaks in Gabon, the 2005 Marburg disease outbreak in Angola, the 2006 Rift Valley fever outbreak in Kenya, the 2009 Ebola outbreak in the Democratic Republic of Congo (DRC), and the Ebola ecology study in 2010, 2011 in the DRC. During a highly fatal nosocomial outbreak in Johannesburg in 2008 he led the discovery of a new Old World Arenavirus, he named Lujo virus.

In August 2014 he established Ebola molecular diagnostic laboratory in Sierra Leone as a part of WHO-GOARN Ebola outbreak response in West Africa.

Prof. Paweska is a member of the Bioweapon Working Committee of the South African Council for Non-Proliferation, SA Ministry of Health Advisory Committee on Ebola, the WHO Global Outbreak & Alert Response Network, the WHO Emerging and Dangerous Pathogens Laboratory Network, WHO Technical Group for orthopoxvirus / smallpox virus laboratory diagnostics, WHO Ebola Virus Persistence Study Independent Data Monitoring Committee, the International Committee for Taxonomy of Viruses (ICTV) Filoviridae Study Group, and a member of a number of editorial boards.
Sverre Sandberg, MD, PhD and a specialist in laboratory medicine is a Professor at the University of Bergen. He is a director of NOKLUS, a Norwegian organisation for quality improvement of primary care laboratories (www.noklus.no) which serves about 3000 users of the point of care equipment outside the hospitals and a chair of Scandinavian Evaluation of Laboratory Equipment for Primary Health Care (SKUP). He is also a director of the Norwegian Porphyria Centre (NAPOS). Between 2002 and 2012 he was a director of the Laboratory of Clinical Biochemistry at Haukeland University Hospital in Bergen.

Professor Sandberg was a chair of the Committee on Evidence-Based Laboratory Medicine (1996-2002) and the Global Campaign of Diabetes Mellitus at International Federation of Clinical chemistry and Laboratory Medicine (IFCC, 2002-2008) and the president of the European Organization for External Quality Assurance in Laboratory Medicine (EQALM, 2012-2014). Since 2000 he has been a board member of the European Porphyria Network (EPNET), a partly EU-funded project. Between 2009 and 2014 he was a chair of the Scientific Committee in the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM) and he was the vice president of EFLM (2014-2015). Since 2016 Professor Sandberg is the president of EFLM; he chairs or is a member of different working groups in EFLM and IFCC.

Professor Sandberg has published about 240 peer reviewed papers and authored 11 books and book chapters and has given international lectures in his fields of interests: evidence based laboratory medicine, quality improvement of point of care instruments, biological variation, performance specifications in laboratory medicine, quality assurance of the total testing process, laboratory aspects of diabetes, porphyria and photobiology.

PLENARY LECTURE 2
21 October 2017
The use of PoC testing to bypass the traditional laboratory and improve care

Professor Sverre Sandberg
Michael Surette, PhD, is currently Professor and Canada Research Chair Interdisciplinary Microbiome Research at McMaster University. He is also co-director of the McMaster Genomics Facility.

Professor Surette research addresses the human microbiome of the respiratory and gastrointestinal tracts in health and disease, and the development of the microbiome in early life and as we age. This research direction initiated with studies in airway infections in cystic fibrosis that led to redefining the nature of airway infections in those patients and identifying common but overlooked pathogens in our patient population (Southern Alberta Adult CF with Dr. Harvey Rabin). This has ultimately led to a change in clinical practice and a significant improvement in disease management in many patients.

This research was driven by combining culture and culture–independent methods for examining the microbiome. The lab is focused on developing high throughput culturing and phenotyping methods to investigate the microbiome, and applying and improving next-generation sequencing approaches to characterize the microbiome.

In addition to understanding fundamental questions about microbiome composition and microbe–microbe /host interactions, the lab is interested in developing methods for accurate rapid microbial profiling that could improve management of disease and exploiting secondary metabolic products of the human microbiome.

Disease specific projects are focused on cystic fibrosis, asthma, pneumonia, sepsis, ulcerative colitis, and irritable bowel syndrome. His lab is currently supported by grants from the Canadian Institutes for Health Research, Cystic Fibrosis Canada, Crohn’s and Colitis Foundation of Canada and the Canadian Foundation of Innovation.
Rajesh Thakker is the May Professor of Medicine at the University of Oxford, and a Fellow of Somerville and Harris Manchester Colleges, Oxford. His main research interests include the molecular basis of disorders of calcium homeostasis and he has authored over 350 publications, which have included peer-reviewed papers in the New England Journal of Medicine, Nature, Nature Genetics, Journal of Clinical Investigation and Lancet Journals.

Professor Thakker is a Consultant Endocrinologist who provides expertise in the fields of neuroendocrine tumours (NETs), and disorders of calcium and phosphate metabolism. He was previously Professor of Medicine at The Royal Postgraduate Medical School, The Hammersmith Hospital, London, until 1999, when he took up his present position in Oxford. He has served on the MRC Physiological Medicine and Infections Board (2000-2005), the Council for the Society for Endocrinology (2003-2006), and as Chairman of the National Institute of Health Research (NIHR) / MRC Efficacy and Mechanisms Evaluations (EME) Board (2008-2016).

Professor Thakker has been the recipient of many prizes which include: Young Investigator Award from the American Society for Bone and Mineral Research (ASBMR), USA (1988); the Raymond-Horton Smith Prize (Cambridge University, UK) (1994); the Society for Endocrinology (UK) medal (1995); the European Journal of Endocrinology Prize (EFES) (1998); WPU Jackson Memorial Lecture, Society for Endocrinology, Metabolism, and Diabetes in South Africa (SEMSDA) (1998); the Graham Bull Prize from the Royal College of Physicians (UK) (1999); Bernard Pimstone Memorial Lecture, SEMSDA (2003); the Louis V Avioli Founder’s Award from the ASBMR (USA) (2009); the Parathyroid Medal from the Fondazione Raffaella Becagli (FIRMO) (2012); the Jack W. Coburn Endowed Lectureship from the American Society of Nephrology (2012); the International Research Prize from the Austrian Society for Bone and Mineral Research (2015); and the Dale Medal from the Society for Endocrinology (UK) (2015).

Professor Thakker was elected to the Fellowship of the Royal Society (FRS) in 2014.
Saturday 21st October 2017

PLENARY SESSION 2

8.30 - 9.30 - Fontainbleau Room
Chair: Magdalena Turzyniecka
The use of PoC testing to bypass the traditional laboratory and improve care
Sverre Sandberg

Symposium 1 - Neonatal and Newborn Screening

9.30 - 12.30 - Fontainbleau Room
Chair: Tim Lang
9.30 - 10.15: Use of metabolomics in neonatology
Michele Mussap

10.15 - 11.00: The incidence and spectrum of inherited metabolic diseases in South Africa - Implications for National newborn screening
George Van Der Watt

11.00 - 11.45: Sickle cell screening in Africa and clinical support in the early years
Kwaku Ohene-Frempong

11.45 - 12.30: A goal for the next 50 years: Global delivery of precision newborn screening
Piero Rinaldo

Symposium 2 - Endocrinology

9.30 - 12.30 - Concorde room
Chair: Mai Tran Thi Chi
9.30 - 10.15: Familial Hypercholesterolaemia, or why we should measure the lipid profile in children
Martin Hersberger

10.15 - 11.00: Primary adrenal insufficiency
George Chrousos

11.00 - 11.45: Defects of steroidogenesis
Anna Lauber

11.45 - 12.30: Old and new MODY types of diabetes mellitus
Stepanka Pruhova

12.30 - 14.00  Lunch at Versailles Restaurant

* coffee break will be served at 11.00 at the Pool deck
Symposium 3 - Panel discussion of critical values
14.00 - 15.30 - Fontainbleau room
Chair: Sharon Geaghan
14.00 – 14.20: Overview on recommendations for critical values
Martin Hersberger
14.20 – 14.40: Survey on critical values in children
Vijay Laxmi Grey
14.40 – 15.30: Panel discussion on critical values
Vijay Grey, Sharon Geaghan, Martin Hersberger

Symposium 4 - Reference Intervals
14.00 - 15.30 - Concorde room
Chair: Klaus Kohse
14.00 - 14.45: to be announced
Klaus Kohse
14.45 pm - 15.30: Evidence-Based Postanalytical Interpretation of Diagnostic Tests: Current Gaps and Contributions of the CALIPER program
Khosrow Adeli

Symposium X - Next Generation Sequencing
15.40 - 17.10 - Room to be defined
Chair: Sharon Geaghan
15.40-16.25: to be announced
Timothy Cheng

* coffee break will be served at 15.30 at the Pool deck
Sunday 22nd October 2017

PLENARY SESSION 3
8.30 - 9.30 - Fontainbleau room

The respiratory and gastrointestinal microbiome in early life
*Michael Surette*

**Symposium 5 - Nutrition and Immunology**
9.30 - 12.30 - Fontainbleau room

Chair: *Vijay Laxmi Grey and Anne Lise Bjorke-Monsen*

09.30 - 10.15: Early infancy colonization, dysbiosis and consequences in terms of food allergy
*Anne Judith Waligora-Dupriet*

10.15 - 11.00: Nutritional modulation of the gut microbiota: Impact on the development of gut
*Anne Judith WaligoraDupriet*

11.00 - 11.45: Childhood obesity and nutrition: critical role of the Gut-Brain –Liver Nutrient Sensing Axis
*Khosrow Adeli*

11.45 - 12.30: Variation in human immune system in relation to micronutrient status during pregnancy and lactation
*Anne Lise Bjorke Monsen*

**Symposium 6 - Bone Metabolism**
9.30 - 12.30 - Concorde room

Chair: *Tim Lang and Stephen Hill*

09.30 - 10.15: to be announced
*Thandrayen Kebashni*

10.15 - 11.00: Bone markers
*Celia Rodd*

11.00 - 11.45: Nutritional rickets in Africa: The role of dietary calcium
*John Pettifor*

11.45 - 12.30: Alkaline phosphatase in bone health and disease
*Howard Morris*

**12.30 - 13.30 Lunch at Versailles Restaurant**

*coffee break will be served at 11.00 at the Pool deck*
PLENARY SESSION 4
13.30- 14.30 - Fontainbleau room

Chair: Tahir Pillay
Genetics of disorders of calcium metabolism
Rajesh Thakker

Symposium 7 - Paediatric Laboratory Testing
14.30 - 15.30 - Fontainbleau room

Chair: Krystyna Sztefko
14.30 -15.00: Children's chemistry in a general (adult) lab
Michael Metz

15.00 - 15.30: Quality of blood samples in paediatric patients – points for consideration
Krystyna Sztefko

Symposium 8 - Selected Oral Presentation
14.30- 15.30 - Concorde room

Chair: Loh Tze Ping

15.30 - 15.45 - Closing Ceremony and Poster Awards
REGISTRATION

Delegates Registration

<table>
<thead>
<tr>
<th></th>
<th>Before 21 July 2017</th>
<th>After 21 July 2017</th>
<th>On site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Registration</td>
<td>€ 250</td>
<td>€ 300</td>
<td>€ 400</td>
</tr>
<tr>
<td>African Delegate</td>
<td>€ 100</td>
<td>€ 100</td>
<td>€ 100</td>
</tr>
<tr>
<td>Young Scientist (<em>&lt; 35 years</em>)</td>
<td>€ 100</td>
<td>€ 150</td>
<td>€ 250</td>
</tr>
<tr>
<td>Day registration (<em>21st /22nd</em>)</td>
<td>€ 150</td>
<td>€ 150</td>
<td>€ 200</td>
</tr>
</tbody>
</table>

The full registration and young registration fees include:
- entrance to plenary lectures, symposia, posters sessions and exhibition
- possibility to submit abstracts
- certificate of attendance
- Welcome cocktail
- Coffee breaks and lunches for the duration of the Conference

The day registration fee includes, for the day of registration only:
- entrance to plenary lectures, symposia, posters sessions and exhibition
- certificate of attendance

Click here to Register

ABSTRACT SUBMISSION

Congress delegates are invited to submit abstracts of their scientific work for poster presentation at XIV International Congress of Paediatric Laboratory Medicine (ICPLM) Durban 2017. Each registered delegate is entitled to submit only one abstract as presenting author. Abstracts are welcome in all fields of Paediatric Laboratory Medicine, (clinical chemistry, haematology, 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. Authors wishing to compete for these oral communication slots should mark the appropriate field on the on-line abstract-submission form. Properly submitted abstracts will be sent to experts for review and selection for oral communication.

Click here for all the details.

POSTER AWARDS

Poster presentations on all Topics in Paediatric Laboratory Medicine are invited. Three poster awards in the amount of €300 each will be awarded for:
- the best oral presentation by a young attendee (*<40 years old on the 1st of January 2017*)
- the best poster by an attendee
- the best oral presentation by an attendee
GENERAL INFO

TRAVEL SCHOLARSHIP

The Society for the Study of Inborn Errors of Metabolism (www.ssiem.org) have kindly offered 10 travel grants of 500 euro to support individuals with an interest in inherited metabolic diseases to attend the XIV International Congress of Pediatric Laboratory Medicine (www.icplm2017.org).

The criteria for the grants are described below:

Applications for the grants will be considered by a sub-group of the organising committee of the ICPLM. There will be five grants available to applications from the African continent and 5 grants to the rest of the world. Application will be welcomed from those that have shown an interested in inherited metabolic diseases. Grants are open to all regardless of age, position or seniority providing that the individual is a member of the IFCC member society of their country.

If it is necessary to distinguish between applicants priority will be given to those who are to present oral or poster presentations at a meeting, those who have particular financial difficulties and those whom at the discretion of the Committee have shown commitment to the furtherance of the management and study of metabolic disease.

Application deadline is fixed on 15th June 2017.

Download the form

GENERAL INFORMATION- DURBAN

Durban has a humid subtropical climate with average temperature in October around 21°C. The warm year-round weather, arguably the best in the world and a rich diversity of activities mean that visitors to KwaZulu-Natal are spoilt for choice.

Congress Venue

The XIVth ICPLM Congress will be held at the Blue Waters Hotel, 175 Snell Parade, Marine Parade, Durban, 4056, at the beachfront, which is one of Durban’s premier hotels.

Accommodation

Hotels in South Africa are of a very high standard including well known international brands such as Hilton, Marriott, Holiday Inn Express and Red Carnation. Special congress rates have been secured for all participants and can be booked online via our website.

How to get to Durban

Access to South Africa is easy! King Shaka International Airport (DUR) lies 22 miles (32km) north of Durban and has a regular bus shuttle service to Durban city centre from 05.00 to 22.00 (journey time: around 30 minutes; fare: R70).

Taxi services are available outside departures area from several companies - check the airport’s website companies for a full list of taxi operators. Fares into Durban start at around R350, and the journey time is about 20-30 minutes.

Official Carrier

Emirates is the official carrier of the IFCC WorldLab Durban 2017 Congress. Special offers and discounts for delegates will be indicated on the web site of the Congress.
Platinum Sponsor

ALEXION

Gold Sponsor

AACC
Better health through laboratory medicine.

DGKL
Deutsche Vereinigte Gesellschaft
für Klinische Chemie und Laboratoriumsmedizin e.V.

Roche

SSIEM
Schweizerische Gesellschaft für Klinische Chemie
Société Suiss de Chimie Clinique
Societa Svizzera Chimica Clinica
Swiss Society of Clinical Chemistry

Bronze Sponsor

Sarstedt

Sponsors

Federation of South African Societies of Pathology

saMRC
advancinglife

The Royal College of Pathologists
Pathology: the science behind the cure