

IFCC WorldLab
Durban 2017
22-25 October



PRELIMINARY PROGRAMME

23rd International Congress of Clinical Chemistry and Laboratory Medicine
(IFCC Worldlab 2017)

57th Meeting of the South African Association for Clinical Biochemistry and
Laboratory Medicine

5th Congress of the African Federation of Clinical Chemistry

Durban International Convention Center
Durban, South Africa

www.durban2017.org



info@durban2017.org

Sunday 22 October

room	Main Hall
17.30-19.30	OPENING CEREMONY
SOCIAL PROGRAMME 19.30-21.00	WELCOME GET TOGETHER

Monday 23 October

room	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Exhibition Hall
9.00-11.00	Symposium 1	Symposium 2	Symposium 3	IFCC Symposium 1	Exhibition Open 10.00-17.00
11.00-11.45	BREAK				
11.45-12.30	Plenary 1				
12.30-14.00	POSTER SESSION & LUNCH				
	Lunch Symposium 1	Lunch Symposium 2	Lunch Symposium 3	Lunch Symposium 4	
14.00-17.30	IFCC Symposium 2 14.00-16.00	EduW 1 14.00-15.00	Symposium 4 14.00-16.00	Symposium 5 14.00-16.00	
		Worshop 2 15.15-16.15			
	EduW 3 16.30-17.30	Worshop 4 16.30-17.30	Worshop 5 16.30-17.30	Worshop 6 16.30-17.30	

Tuesday 24 October

room	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Exhibition Hall
9.00-11.00	Symposium 6	Symposium 7	Symposium 8	IFCC Symposium 3	Exhibition Open 10.00-17.00
11.00-11.45	BREAK				
11.45-12.30	Plenary 2				
12.30-14.30	POSTER SESSION & LUNCH				
	Lunch Symposium 5	Lunch Symposium 6	Lunch Symposium 7	Lunch Symposium 8	
14.00-17.30	IFCC Symposium 4 14.00-16.00	EduW 7 14.00-15.00	Symposium 9 14.00-16.00	IFCC Symposium 5 14.00-16.00	
		EduW 8 15.15-16.15			
	EduW 9 16.30-17.30	Worshop 10 16.30-17.30	Worshop 11 16.30-17.30	Worshop 12 16.30-17.30	

Wednesday 25 October

room	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Exhibition Hall
7.30-8.45		Breakfast Symposium			Exhibition Open 10.00-15.00
9.00-10.30	Symposium 11	Symposium 12	Symposium 13	IFCC Symposium 6	
10.30-11.00	BREAK				
11.00-13.30	Worshop 13 11.00-12.00	Symposium 14 10.45-12.15	Symposium 15 10.45-12.15	Worshop 14 11.00-12.00	
	Plenary 3 12.20-13.00				
	Closing Ceremony 13.00-13.30				
13.30-15.00					

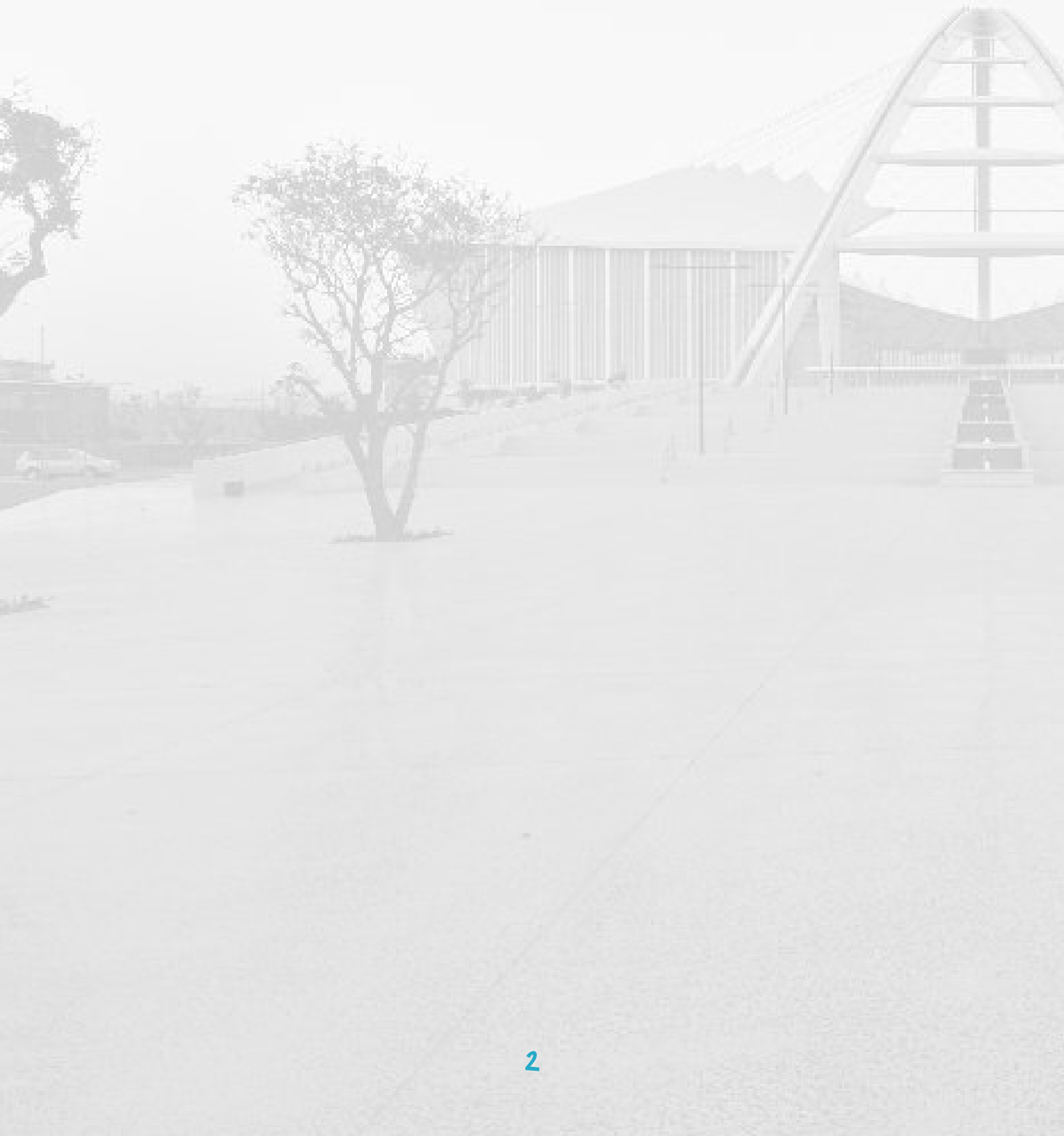
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DATE ON FOCUS

15 July 2017

Deadline for reduced fees registration



Multi-omics, laboratory medicine & personalized medicine



On behalf of the Congress Organising Committee and the South African Association for Clinical Biochemistry (SAACB), it gives me great pleasure to invite colleagues to the Congress of Clinical Chemistry and Laboratory Medicine (WorldLab). This meeting is also being organized in co-operation with the African Federation of Clinical Chemistry (AFCC). It is the first time that such a meeting is being held in Africa and reflects the growing importance of this continent.

WorldLab 2017 promises to be one of the best with a unique blend of innovative science, evidence based laboratory medicine and an emphasis on personalized medicine. This reflects the changing directions of science and medicine with greater attention being paid to prevention and risk stratification. Because of the expanding role of laboratory medicine, we plan to combine this meeting with other clinical specialities which will underscore the overarching influence of laboratory medicine in health care.



The scientific and social programmes will provide opportunities to forge new collaborations and to connect with leaders of the diagnostic industry at the IVD product show linked to the three-day conference/workshop program. We are confident that this meeting will attract delegates from all the member IFCC societies and that each regional federation will play an important role in making this meeting one of the best in recent times.

Africa is traditionally associated with its magnificent wildlife and unique cultural diversity. South Africa provides an opportunity to discover both of them. Durban, a melting pot for African and Indian cultures, is a coastal city with a tropical climate and pristine beaches and surfing. Namibia, Zambia, Zimbabwe, Mozambique and Botswana are close by and can easily be accessed by air via Johannesburg. Durban is the site for various clinical trials and some of the major breakthroughs in the management of patients with HIV have been made here.

The kingdom of KwaZulu- Natal, South Africa beckons and extends a warm welcome to all of you. It's a unique cultural destination littered with historical sites of past battles fought between the Zulus and the British forces. Hiking in the majestic Drakensburg Mountains, barely an hour away, is an activity not to be missed. The famous Table Mountain in Cape Town and the world renowned Kruger National Park are easily accessible.

The Organizing Committee of WorldLab, the South African Association for Clinical Biochemistry and African Federation of Clinical Chemistry look forward to welcoming you to Durban in the Royal Kingdom of KwaZulu-Natal, South Africa in 2017.

Professor Rajiv Erasmus,
Congress President and Chairman of the Organizing Committee,
WorldLab 2017, Durban

Professor Tahir S. Pillay,
Congress President and Chairman of the Scientific Programme Committee,
WorldLab 2017, Durban
President, South African Association for Clinical Biochemistry and Laboratory Medicine

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T.S. Pillay

Congress President, Scientific Programme Committee Chair

N. Crowther

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V. Steenkamp

Social Programme

A. Zemlin

Finance

R.T. Erasmus

IFCC C-CC Liaison

A.B. Okesina

AFCC Liaison

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K. Adeli (Canada)

J. Delanghe (Belgium)

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T.S. Pillay

Congress President, Scientific Programme Committee Chair

- | | |
|-------------------------------------|---------------------------------------|
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| P. Pasalar (Iran) | H. T Marima-Matarira (Zimbabwe) |
| A. Mosca (Italy) | |

AWARDS

IFCC DISTINGUISHED AWARDS 2017

The IFCC is pleased to announce the names of the winners of the eight 2017 IFCC Distinguished Awards. The IFCC Distinguished Awards are bestowed to laboratory medicine professionals to recognize their outstanding achievements, publicize their exceptional research and contributions to medicine and healthcare, and encourage the overall advancement of clinical chemistry and laboratory medicine.

Professor Yuk-Ming Dennis LO (HK)

IFCC Distinguished Clinical Chemist Award

Doctor Jocelyn M. B. HICKS (US)

IFCC Henry Wishinsky Award for Distinguished International Services

Professor Nader RIFAI (US)

IFCC Award for Distinguished Contributions in Education

Associate Professor Susan BRANFORD (AU)

IFCC Award for Distinguished Contributions in Molecular Diagnostics

Doctor Eleftherios DIAMANDIS (CA)

IFCC Distinguished Award for Laboratory Medicine and Patient Care

Professor. Mathias M. MÜLLER (AT)

IFCC-Robert Schaffer Award for Outstanding Achievements in the Development of Standards for Use in Laboratory Medicine

Doctor Jack H. LADENSON (US)

IFCC Distinguished Award for Contributions to Cardiovascular Diagnostics

Doctor Rojeet SHRESTHA (NP)

IFCC Young Investigator Award

EXECUTIVE BOARDS

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Sunday October 22

17.30-19.30 OPENING CEREMONY

19.30-21.00 WELCOME GET TOGETHER

Opening Lecture

**HIV in women in Africa: new evidence from phylogenetic, genomic and protein research**

Chair: Tahir S. Pillay

Salim S. Abdool Karim (South Africa)

Salim S. Abdool Karim, MBChB, PhD, DSc (honoris causa) is a clinical infectious diseases epidemiologist widely recognised for his ground-breaking scientific contributions in HIV prevention and treatment. He is Director of CAPRISA - Centre for the AIDS Programme of Research in South Africa; Pro Vice-Chancellor (Research), University of KwaZulu-Natal; CAPRISA Professor of Global Health at Columbia University, Adjunct Professor of Medicine, Cornell University and Associate Member of The Ragon Institute of Massachusetts General Hospital (MGH), Massachusetts Institute of Technology (MIT) and Harvard University. His contributions to microbicides for HIV prevention spans two decades and culminated in the CAPRISA 004 tenofovir gel trial which provided proof-of-concept that antiretroviral drugs can prevent sexually transmitted HIV infection and herpes simplex virus type 2 in women. He is co-inventor on patents which have been used in several HIV vaccine candidates and his clinical research on TB-HIV treatment has shaped international guidelines on the clinical management of co-infected patients.

He chairs the UNAIDS Scientific Expert Panel and is a member of both the WHO HIV-TB Task Force and the WHO Expert Panel on STIs and HIV. He is an elected Fellow of the World Academy of Sciences, African Academy of Sciences, Academy of Science in South Africa, Royal Society of South Africa and American Academy of Microbiology. He is a Foreign Associate Member of the US National Academy of Medicine. He serves on the Boards of Lancet-Global Health, Lancet-HIV and the New England Journal of Medicine.

09.00-11.00 **SYMPOSIUM 1 (Conference 1)**

Laboratory Reference Intervals: Global Initiatives and Harmonization Challenges
Chair: K. Adeli (Canada)

Global Initiatives on Reference Intervals and IFCC C-RIDL Recommendations
K. Ichihara (Japan)

Closing the Gaps in Pediatric Reference Intervals: the CALIPER and CHMS initiatives
K. Adeli (Canada)

Harmonization of Laboratory Reference Intervals: the Australian Experience
J. Tate (Australia) (TBC)

09.00-11.00 **SYMPOSIUM 2 (Conference 2)**

Applying Big Data in the Improvement of Laboratory Practice
Chair: Y.V. Zhang (USA)

Applying big data in the selection of optimal test platform
Y. V. Zhang (USA)

Translation from big data to clinically useful tests
Z. Zhao (USA)

Applying big data of patient test results in the detection of lab errors and monitoring quality control
M. Jin (USA)

09.00-11.00 **SYMPOSIUM 3 (Conference 3)**

Affordable diagnostics for Africa
Chair: J. Delanghe (Belgium)

Affordable CRP testing:
P.L. Tugirimana (Rwanda)

Keratin glycation: an alternative for diabetes testing
A. S. Kishabongo (D.R. of Congo)

Affordable microalbumin testing
J. Delanghe (Belgium)

Possibilities of affordable diagnostics in infectious diseases
B. Rodriguez (Switzerland)

09.00-11.00 **IFCC S1: IFCC SD (Conference 4)**



Recent Advances in Standardisation
Chair: G. Miller (USA)

Commutability issues in standardization of laboratory measurement procedures
G. Miller (USA)

Standardization of Pregnancy-Associated Plasma Protein A
S. Wittfooth (Finland)

Standardization of urine albumin assays
L. Bachmann (USA)

Standardization of CSF proteins
K. Blennow (Sweden)

11.00-11.45 **BREAK**

Monday October 23

11.45-12.30 **PLENARY 1 (Conference 1)**

Genetic diagnosis for hypercalcaemic and hypocalcaemic disorders
Chair: R.T. Erasmus



R. Thakker (United Kingdom)

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. He 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). He 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 Parathyroid Medal from the Fondazione Raffaella Becagli (FIRMO) (2012); the Jack W. Coburn Endowed Lectureship from the American Society of Nephrology (2012); the Louis V Avioli Founder's Award from the ASBMR (USA) (2009); 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.

10.00-17.00 **EXHIBITION OPEN AREA**

12.30-14.00 **POSTER SESSION**

13.30-14.00  **LUNCH SYMPOSIUM 1 (Conference 1)**



Liquid Biopsy: circulating plasma free DNA (cfDNA) as a novel prognostic and diagnostic marker in disease states
Chair: T. Ozben (Turkey)

Plasma foetal DNA for prenatal screening
U. Gormus (Turkey)

Liquid biopsy: studies on circulating DNA in the diagnosis of melanoma tumours
A. Tomasi (Italy)

Liquid biopsy: ctDNA as a novel prognostic biomarker in cancer
T. Ozben (Turkey)

13.30-14.00  **LUNCH SYMPOSIUM 2 (Conference 2)**



Frontiers in Endocrinology
Chair: S.J. Soldin (USA)
Role of mass spectrometry in improving diagnosis and treatment of thyroid and adrenal diseases
S.J. Soldin (USA)

The endocrinologist's perspective
N. Levitt (South Africa)

Methods and interferences in the analysis of haemoglobin A1c. Is there an ideal method?
D.B. Sacks (USA)

13.30-14.00  LUNCH SYMPOSIUM 3 (Conference 3)

AFCC Symposium-Infections and Diabetes

Chair: H. Matarira (South Africa)

E. Sobingwi (TBA)

Role of Iron in the development of diabetes

A. B. Okesina

HIV and Diabetes

N. Levitt

H. Matarira (TBA)

13.30-14.00  LUNCH SYMPOSIUM 4 (Conference 4)



Biomarkers in urological cancer

Chair: T. Zima (Czech Republic)

Receptor for advanced glycation end products in kidney cancer

T. Zima/ M. Kalousová (Czech Republic)

Epigenetic nucleosomics biomarkers for detection and management of urological cancer

S. Holdenrieder (Germany)

14.00-16.00 **IFFC S1: IFCC SD (Conference 1)**



Evidence-based Laboratory Medicine (EBLM); a global perspective

Chair: A. Zemlin (South Africa)

What is EBLM and why do we need it?

C.M. Florkowski (New Zealand)

Why do Guidelines vary so much and how do we recognise a good one?

J. Wils (France)

Global feedback on EBLM- perceptions and requirements for training

K. Rodriquez-Capote (Canada)

Getting the EBLM message out to the world- new resources

H. Fares-Taie (Argentina)

14.00-15.00 **Educational Workshop 1 (Conference 2)**



14.00-16.00 **SYMPOSIUM 4 (Conference 3)**

Risk Management and its utility in the clinical laboratory

Chairs: T.S. Pillay (South Africa), P.K. Suraj (India)

Preventing and minimizing laboratory errors and nonconformances; continual improvement, corrective and preventive actions

E. Frank (India), T.S. Pillay (South Africa)

Managing risk within a robust quality framework; assessing levels of risk and developing an action plan following risk analysis

S. Turner (New Zealand)

14.00-16.00 **SYMPOSIUM 5 (Conference 4)**



Waspalm/IFCC joint symposium

Genomic analysis in personalized diagnostics

Chairs: R. Verna (Italy), M. Ferrari (Italy)

“The ethics of genetics” or “The ethical issues of infectious diseases”

I. Loftus (South Africa)

Circulating cell-free DNA in cancer and transplantation

M. Oellerich (Germany)

Global feedback on Defining a Medical act in Laboratory Medicine

R. Verna (Italy)



Monday October 23

15.15-16.15 Workshop 2 (Conference 2)

Pre-Analytical quality work in Medical Labs

Chair: M. Nybo (Denmark)

A structured walkthrough of the different phases of a quality assessed blood sampling process
E. R. B. Petersen (Denmark)

Preanalytical caveats and pitfalls in an automated lab
M. Nybo (Denmark)

Test management – are we there yet?
R. McGrail (Denmark)

16.30-17.30 Educational Workshop 3 (Conference 1)



16.30-17.30 Workshop 4 (Conference 2)

APFCB Symposium: Clinical Endocrinology

Chair: L. Lai (Malaysia)

Laboratory investigations in the diagnosis and management of parathyroid disorders
S. Vasikaran (Australia)

Endocrine cases and data interpretation
L. Lai (Malaysia)

Vitamin D to Prevent Osteoporosis: Critical Levels and Mechanisms of Action
H. Morris (Australia)

16.30-17.30 Workshop 5 (Conference 3)

Personalised medicine-role of biomarkers in precision medicine

Chairs: R.H.N. van Schaik (Netherlands), R. de Jonge (Netherlands)

Clinical implementation of pharmacogenetics: DNA passport?
R.H.N. van Schaik (Netherlands)

Cell-free DNA as a new biomarker for monitoring lung cancer
D. van den Broek (Netherlands)

Predicting MTX nonresponders in adult and juvenile arthritis
M. Bulatović Čalasan (Netherlands), R. de Jonge (Netherlands)

16.30-17.30 Workshop 6 (Conference 4)

Biomarkers in clinical chemistry - omics galaxies

Chair: L. Kluijtmans (Netherlands)

The diagnostic value of untargeted metabolomics in the era of whole exome
J. Jans (Netherlands)

Next Generation Metabolic Screening – metabolites as biomarkers
L. Kluijtmans (Netherlands)

Clinical Glycomics: a nurture level on top of genes and proteins
M. van Scherpenzeel (Netherlands)

09.00-11.00 **SYMPOSIUM 6 (Conference 1)**

COLABIOCLI: Dengue, Chikungunya and Zika: Impact and intervention in Latin-American countries
Chair: M. M. Blanes González (Paraguay)

Chikungunya, Dengue and Zika, a challenge for professionals and the Cuban population
E. M. Abraham (Cuba)

Lessons from the epidemics of Dengue, Chikungunya and Zika in Dominican Republic
R. Skewes-Ramm (Dominican Republic)

Paraguayan experience-Chikungunya : assessment and impact in Public Health in Paraguay. Correlation with values reported in Latin American region
M.M. Blanes González (Paraguay)

09.00-11.00 **SYMPOSIUM 7 (Conference 2)**

Clinical Laboratory Practice for Bone Turnover Markers

Chair: H. Morris (Australia)

Bone turnover markers in diagnosis and monitoring of metabolic bone disease; choosing the best marker for that patient, decision limits and treatment targets
S. Vasikaran (Australia)

Bone Markers for Metastatic and Cancer Therapy Related Bone Diseases
Q.H. Meng (USA)

Bone Turnover Marker measurement; physiological principles and analytical issues; providing the optimum analytical service
H. Morris (Australia)

09.00-11.00 **SYMPOSIUM 8 (Conference 3)**

Advances in TB diagnostics

Chair: I. Verma (India)

TB diagnosis: essentials the clinician needs from the laboratory now and in the future?
K. Dheda (South Africa)

Regulatory T cell & Programmed Death Receptor-1 in human Tuberculosis: Implications in diagnosis, immunotherapy and vaccination
D.K. Mitra (India)

In vivo expressed mycobacterial genes/proteins as diagnostic biomarkers for tuberculosis
S. Arora (India)

Evolution of drug-resistant TB
K.A. Cohen (USA)

9.00-11.00 **IFCC S₃: IFCC SD (Conference 4)**



IFCC EMD: Implementing Cancer Genomics in Low Resource Settings

Chair: J. Park

Advanced laboratory techniques for low resource settings
L.J. Kricka (USA)

The promised of cancer genomics
E. Londin (USA)

Clinical applications of genomic testing
P. Fortina (USA)

Infrastructure requirements for genomic oncology
J. Park (USA)

11.00-11.45 **BREAK**

Tuesday October 24

11.45-12.30 PLENARY 2 (Conference 1)

The Nanobody revolution in laboratory diagnostics
S. Muyldermans

S. Muyldermans (Belgium)



Serge Muyldermans is Professor, Department of Cellular and Molecular Immunology, Vrije Universiteit Brussel, Brussels, Belgium. His main interest is in developing biochemical tools to investigate the molecular structure and function of chromatin(nucleosomes).

As such, cloning genes, screening genomic and cDNA libraries, site-directed mutagenesis, and producing recombinant proteins were part of the repertoire. Following the serendipitous discovery of natural occurrence of functional heavy chain only antibodies in camelids he developed a streamlined method to identify rapidly the antigen-specific, single-domain antibody fragments derived from the unique Heavy chain antibodies of camelids.

Because these antibodies lack light chains, the antigen-binding domain must comprise only the single variable domain of the immunoglobulin heavy chain. Thus, they developed the technology to immunize a dromedary, llama, or alpaca; to clone the genes for the single variable domain (now known as Nanobody); and to select the antigen-binding domains by phage display.

Furthermore, they have explored possible applications for these nanobodies where their small size and biochemical properties are beneficial. The discovery of camel Heavy-chain antibodies and the applications of their unique single variable antigen-binding domain (now referred to as Nanobodies) led to the publication of over 150 articles in peer reviewed international journals, many of which appeared in top journals. In January 2002, he was co-founder of 'Ablynx', a spin-off company that generates Nanobodies for therapeutic purposes. Ablynx is currently employs about 300 people and has several Nanobodies in clinical trials.

12.30-14.00 POSTER SESSION

12.30-14.00  LUNCH SYMPOSIUM 5 (Conference 1)

IFCC Wg-TEP - "Traceability in laboratory medicine: what is it and why is important?"
Chair: G. Beastall (UK)

Traceability in laboratory medicine: what every laboratory specialist should know
G. Myers (USA)

Traceability and harmonization -powerful tools for trueness of laboratory results
E. Theodorsson (Sweden)

Why traceability in laboratory medicine is important for patients
G. Beastall (UK)

12.30-14.00  LUNCH SYMPOSIUM 6 (Conference 2)

Pathology of metabolic syndrome
Chair: P. Sharma (India)

Low grade chronic inflammation in obesity and metabolic syndrome
P.A. Manjrekar (India)

Metabolic syndrome and oxidative stress
M.V.R. Reddy (India)

TNF α Gene (308G/A) Promoter Region Polymorphism in Metabolic Syndrome
S. Bhattacharya (India)

Metabolic Syndrome and Polycystic Ovarian Syndrome
R. Sinha (India)



12.30-14.00  LUNCH SYMPOSIUM 7 (Conference 3)

Ortho Clinical Diagnostics

Practical aspects of taking laboratory to next step

Chair: A. Gupta (India)

Measurement of uncertainty- Its practical application in a laboratory setup of a large tertiary care hospital

A. Gupta (India)

Moving ahead with six sigma

S. Sharma (India)

How to achieve comparable thyroid function test across laboratories

B. Das (India)

12.30-14.00  LUNCH SYMPOSIUM 8 (Conference 4)



Development of a clinical case bank for promoting the practice of Eblm

Chairs: K. Ichihara (Japan), R.T. Erasmus (South Africa)

The protocol for building clinical case bank for laboratory diagnosis by international collaborations

K. Ichihara (Japan)

Utility of the clinical case bank for improved clinical diagnosis and management of hematological malignancies

M.A. Sumon (India)

Utility of the clinical case bank for improved clinical diagnosis and management of collagen diseases

M. Esser (South Africa)

14.00-17.30 IFCC S4: IFCC SD (Conference 1)



Value of Laboratory medicine in healthcare delivery and clinical outcomes

Chair: K. Adeli (Canada)

Anatomy of a value proposition for laboratory medicine

H. Morris (Australia)

Critical review of the evidence supporting the value of lab medicine in clinical care

K. Adeli (Canada)

Demonstrating the value of laboratory tests: a clinical and economic perspective

W. van der Helm (Switzerland)

14.00-17.30 SYMPOSIUM 9 (Conference 3)

Advanced glycation products (AGEs) in diabetes mellitus and chronic diseases

Chair: P. Gillery (France)

Post-translational modification derived products (PTMDPs) and AGEs : bioactive components involved in human pathophysiology

P. Gillery (France)

AGEs as biomarkers in diabetes and chronic diseases

R. Erasmus (South Africa)

Non-Invasive Glycation Testing

J. Delanghe (Belgium)

14.00-16.00 IFCC S5: (Conference 4)



Facing the future of Alzheimer's disease: the value of the medical laboratory

Chair: S. Bernardini (Italy)

Measurement and clinical utility of CSF proteins

K. Blennow (Sweden)

The diffusion, standardization and harmonization of cerebrospinal fluid biomarkers analysis for the diagnosis of Alzheimer's disease

A. Perret-Liaudet (France)

The Omics approach to Alzheimer's Disease

S. Bernardini (Italy)

14.00-15.00 Educational Workshop 7 (Conference 2)

RANDOX

15.15-16.15 Educational Workshop 8 (Conference 2)

sebia

16.30-17.30 Workshop 9 (Conference 1)



16.30-17.30 Workshop 10 (Conference 2)

Training programs for biomedical scientists/laboratory medicine specialists

Chair: T. Matsha (South Africa)

Introduction of a new laboratory medical scientists training programme in South Africa
T. Matsha (South Africa)

Development of a laboratory leadership and management programme for Africa
R. Erasmus (South Africa)

European Syllabus for postgraduate training in Laboratory Medicine
N. Jassam (UK)

16.30-17.30 Workshop 11 (Conference 3)

Interpretation & commenting on clinical chemistry results

Chair: S. Vasikaran (Australia)

Case presentation and discussion
E. Kilpatrick (Qatar)

Case presentation and discussion
M. J. Turzyniecka (South Africa)

Case presentation and discussion
S. Vasikaran (Australia)

16.30-17.30 Workshop 12 (Conference 4)

**The porphyrias: from clinical presentation to a diagnosis.
The role of the laboratory profession**

Chair: S. Sandberg (Norway)

An overview of the biochemistry of porphyrias
P. Meissner (South Africa)

An overview of the clinical presentations of porphyrias
R. Hift (South Africa)

How to diagnose the different porphyrias: Perspectives of the laboratory
S. Sandberg (Norway)

07.30-08.45  BREAKFAST SESSION (Conference 2)



The Association
of Clinical Pathologists

Association of Clinical Pathologists (ACP) symposium

Chair: T.S. Pillay (South Africa)

Introduction: the ACP at 90
W.G. Simpson (UK)

The Journal of Clinical Pathology: role in Clinical Chemistry and Laboratory Medicine
T.S. Pillay (South Africa)

Best Practice in Pathology
A. Don-Wauchope (Canada)

Quality matters
P. Twomey (Ireland)

09.00-10.30 SYMPOSIUM 11 (Conference 1)

Emerging challenges of laboratory medicine

Chair: A. Raizada (India)

Lean management and its challenges
A. Raizada (India)

Laboratory Errors and patient safety: an ongoing challenge
P. Dabla (India)

Laboratories and POCT: a real time solution
A. Gupta (India)

09.00-10.30 SYMPOSIUM 12 (Conference 2)

Big data and metabolomics in pediatric laboratory medicine

Chair: M.J. Bennett (USA)

Untargeted metabolic analysis in pediatric laboratory medicine: over 30 years of experience and still learning
M.J. Bennett (USA)

Retrospective and Prospective Data Mining to develop Robust Value Databases for Biomarkers of Pediatric Disease
K. Adeli (Canada)

Retrospective and prospective data mining to develop continuous, covariate-adjusted reference and disease percentiles for biomarkers of pediatric disease
P. Rinaldo (USA)

09.00-10.30 SYMPOSIUM 13 (Conference 3)

ISOBM/EGTM Circulating tumor markers: an update

Chair: R. Molina (Spain), M. Duffy (Ireland)

Overview of Tumor Markers
R. Molina (Spain)

PSA in Screening for Prostate Cancer: More Good Than Harm or More Harm Than Good
M. Duffy (Ireland)

How to Achieve Quality in the Measurement of Tumor Markers
C. Sturgeon (UK)

10.00-15:00 EXHIBITION OPEN AREA

09.00-10.30 IFCC S1: IFCC SD (Conference 4)



Standardisation in laboratory medicine beyond clinical chemistry

Chair: P. Gillery (France)

Standardization: a universal need

P. Gillery (France)

Standardization of Hb A2

A. Mosca (Italy)

Standardization of autoimmune tests

J. Sheldon (UK)

Standardization in molecular diagnostics

D. Payne (USA)

10.30-11.00 BREAK

11.00-12.00 Workshop 13 (Conference 1)

Bridging the gaps between laboratory medicine & clinical decision making; challenges and conundrums: an interactive workshop

Chair: T.S. Pillay (South Africa)

Standardisation in the clinical laboratory: a case based perspective of why we should aim for standardisation

A. Don-Wauchope (Canada)

Clinical cut-points and reference intervals in the clinical laboratory: a case based perspective of issues in clinical practice

P.J. Twomey (Ireland)

Investigation of interferences in general chemistry and endocrine testing

T.S. Pillay (South Africa)

10.45-12.15 SYMPOSIUM 14 (Conference 2)

IFCC, TFYS -ISO accreditation & quality assurance

Chairs: G. Beastall (UK), P. Dabla (India)

Understanding External Quality Assessment & Internal Quality Control

P. Dabla (India)

Quality Management System for Laboratory

G. Boursier (France)

Stepwise Approach to Lab Accreditation in Africa

S. Olaifa (Nigeria)

Status of Lab Accreditation in South-Africa

R.T. Erasmus (South Africa)

10.45-12.15 SYMPOSIUM 15 (Conference 3)

IFCC, C-CLM - Improvement in clinical laboratory services: approaches to adding value

Chair: S. Yenice (Turkey)

From provider of results to the contributor of value: adding value to clinical laboratory services through the use of six sigma metrics

E. Randell (Canada)

Direct-to-Consumer Testing: Challenges with Lifestyle Tests

M. Orth (Germany)

Implementing value-based laboratory testing

A.A. Khine-Wamono (South Africa)

11.00-12.00 Workshop 14 (Conference 4)

Arab Federation Workshop: The evolution of lab medicine in the arabic countries

Chair: L. Chabraoui (Marocco), B. Gouget (France)

The role of International aids to fight AIDS, tuberculosis and malaria in developing countries with special emphasis on Africa

G. Shannan (Syria)

Pandemic Preparation and Response in the AFCB countries

M. Haddad (Lebanon)

The primary care and round table session on Quality management and EQC in the Arab Federation countries the lab: an AFBC concern

M.H. Kamil

12.20-13.00 PLENARY 3 (Conference 1)

Understanding the molecular genetics of Mycobacterium tuberculosis - pathways to diagnosis and therapy

W. Bishai



W. Bishai (USA)

Dr. William Bishai received his MD and PhD degrees from Harvard Medical School in 1989. He did his internship and residency at the Brigham and Women's Hospital in Boston, Massachusetts, and received fellowship training in the Division of Infectious Diseases at the Johns Hopkins School of Medicine. He was a Howard Hughes Postdoctoral Research Fellow in the laboratory of Nobel laureate, Dr. Hamilton Smith. He joined the Johns Hopkins faculty in 1994 and is currently a Professor of Medicine in the Dept. of Medicine, Division of Infectious Diseases and serves as Co-Director for the JHU Center for Tuberculosis Research. From 2010-2013 Dr. Bishai served as the founding Director of the Howard Hughes Medical Institute (HHMI)-funded KwaZulu-Natal Research Institute for Tuberculosis and HIV (K-RITH) in Durban, South Africa, where he supervised the construction of a \$40 research building and recruited seven world-class scientists to its faculty.

Dr. Bishai's interests involve tuberculosis pathogenesis, and animal models of pulmonary infections, and bacterial respiratory tract infections. His work in South Africa led to new projects on the genomics of the M/XDR-TB strains, small molecule biomarkers in human tissue and T cell immunology of TB in the peripheral blood and lung compartments of humans. He has authored over 250 papers in peer-reviewed journals including Nature, Science, New England Journal of Medicine (Scopus H-index 58) and receives grant support from the National Institutes of Health. He has given extensive service on international conference planning committees, study sections, editorial boards, and review panels including 3 years on the WHO Stop TB Partnership Coordinating Board.

13.00-13.30 CLOSING CEREMONY (Conference 1)



REGISTRATION

DELEGATES REGISTRATION

	<i>Before 15 July 2017</i>	<i>After 15 July 2017</i>	<i>On site</i>
<i>Full Registration</i>	€ 500	€ 650	€ 750
<i>Young Registration (≤35 years)</i>	€ 250	€ 325	€ 375
<i>Day Registration</i>	€ 175	€ 225	€ 250

The full registration and young registration fees include:

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

The day registration fee includes, for the day of registration only:

- entrance to plenary lectures, symposia, industry-sponsored workshops, posters sessions and exhibition
- abstracts book
- certificate of attendance

Lunch Symposium attendance includes a packed lunch next to the meeting room for a limited number of 100 participants.

First come - first served modality.

Breakfast Symposium attendance includes a coffee station for a limited number of 100 participants.

REMITTANCE

- Registration fees shall be paid by credit card or bank transfer through the on-line system available on the congress web site.
- When paying by bank transfer, a copy of the transfer receipt must be sent by email to registrations@durban2017.org
- Registrations without proof of payment will not be accepted.
- On-site registrations may be paid only by credit card or cash. Cheques will not be accepted.
- The organising secretariat will send registration confirmation upon receipt of payment, via e-mail.
- Be sure your e-mail address is filled in correctly.
- Because only those registered will be admitted to the congress, the organising secretariat kindly requests that participants show proof of payment when checking in at the registration desk.

REGISTRATION

PERSONAL INVITATION FOR VISA PURPOSES

To facilitate congress attendance a personal invitation can be sent on request. This invitation does not exempt the recipient from registering and paying the proper congress fee. Please inform the congress secretariat if you need a personal invitation letter.

CURRENCY

Registration fees and charges for all events related to the IFCC-Worldlab Durban 2017 Congress as well as hotel cost must be paid in euros.

CANCELLATION AND REFUND

Cancellations must be sent in writing to registrations@durban2017.org.

The amount equal to 80% of the fee paid will be refunded for cancellations received by 30 August. Until 30 September, 2017 a refund of 50% of the fee will be granted. After 30 September 2017 no refunds will be issued.

All refunds will be paid in euros after the congress.

CANCELLATION OF THE CONGRESS

The congress secretariat reserves the right to cancel the congress, shift venue, or change dates without notice, in case of "force majeure".

Neither MZ Congressi nor the Congress Organising Committee shall be liable for any damage claims.

LIABILITY AND INSURANCE

Registration fees do not include the insurance of participants against personal accidents, sickness and cancellations by any party, theft, loss or damage to personal possessions.

Participants are advised to take out adequate personal insurance to cover travel, accommodation, cancellation and personal effects.

SATELLITE MEETINGS



XIV International Congress of Paediatric Laboratory Medicine

20-22 October 2017

Durban

Blue Waters Hotel

www.icplm2017.org



POCT Satellite Meeting

21 October 2017

Durban

ICC Center



Intelligent Clinical Laboratory Management: Impacts on Quality System Improvement

21 October 2017

Hotel Hilton Durban

Durban



Satellite Meeting - Biomarkers for Diabetes

26-27 October 2017

Cape Town

CONGRESS VENUE

DURBAN INTERNATIONAL CONVENTION CENTRE

45 Bram Fischer Road

Durban, 4001

South Africa

HOW TO GET TO DURBAN

BY PLANE

Access to South Africa is easy!

Fast Facts: 76 Countries are exempt for South African Visas | 32 International Airlines fly into South Africa direct | Direct flights into South Africa depart from more than 60 airports internationally, including Frankfurt, Munich, Heathrow, New York, Buenos Aires and Beijing | 6 Domestic Airlines currently fly between the major city centres including Airlink, British Airways t/a Comair, Kulula.com, Mango Airlines, South African Airways and South African Express International Airports:

www.airports.co.za

King Shaka International Airport (DUR) –

The airport is 22 miles (32km) north of Durban:

direcO.R. Tambo International Airport

(ORTIA)(JNB) – The airport is 14 miles

(22km) east of Johannesburg: Cape Town Inter-

national Airport (CPT) –The airport is 13 miles

(20km) east of Cape Town.

By CAR

From Johannesburg, OR Tambo

International Airport: 577kms approx. 6

½ hours of which 555kms are the N3

highway.

From Cape Town, International Airport:

1640 kms approx. 20 hours of which

1500kms of which are the N2 highway.

GENERAL INFORMATION

LANGUAGE

The official language of the Congress will be English.
Simultaneous translation will not be provided.

EXHIBITION

A major exhibition of the latest technical equipment for laboratory medicine will be arranged during the Congress. It will be located in dedicated areas of the Congress Center.

CURRENCY

The South African Rand is the currency in South Africa (ZA, ZAF). The South African Rand is also known as Rands. The symbol for ZAR can be written R.

ACCOMMODATION

Special congress rates have been secured for all participants and can be booked online via our website.

Please contact: **XL Millennium**

Lower Vasco Boulevard

Goodwood

Cape Town - South Africa

TEL: 021 590 7900

Email: lindab@millenniumtravel.co.za

The online system for the booking is available on the website.

OFFICIAL CARRIER

We are pleased to inform you that Emirates Airline has proudly been selected as the partner airline for the IFCC-WorldLab Durban 2017. Emirates has excellent connections to all of the six continents via Dubai with more than 150 current destinations worldwide – and we are expanding our route network all the time.

Use your Promotion Code to get special fares on Emirates delegates.

Promotion code: EVE6WLD

Travel Validity: 15 October – 04 November 2017

Book your travel at <http://www.emirates.com/WorldLabDurban2017> and enter the above promotion code when you book.

The South African Rand is divided into 100 cents.

CLIMATE

Durban is famous for being the busiest port in South Africa. It is also seen as one of the major centres of tourism because of the city's warm subtropical climate and extensive beaches.

ELECTRICITY

220/230 V - 50 Hz, Plug Type M

USEFUL NUMBERS

+27 10111 - National Flying Squad

+27 10177 - Ambulance

+27 372011 - Rescue Services

+27 313035787 - Taxi Service



Terms and conditions

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- * Destinations: Offer valid ONLY from and to gateway cities in which Emirates operates direct flights.
- * Discount applicable: 10% off on the prevailing lowest online fare on Business Class and on Economy Class return fares. First Class no discount is applicable.
- * Offer valid ONLY for return travel to Emirates gateway cities to Durban and not from Durban
- * Offer extends to companions travelling with attendees.
- * The offer may not be used in conjunction with any other promotion, discount or special offer.
- * Regular charges applies for any modification and changes as per the fare rule and conditions.
- * The promotion code should be displayed on a secured website which is accessed by the delegates

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