

**Third  
Announcement**



# **IFCC WORLTLAB DURBAN 2017**

**23<sup>rd</sup> International Congress of Clinical Chemistry  
and Laboratory Medicine  
(IFCC Worldlab 2017)**

**57<sup>th</sup> Meeting of the South African Association for Clinical  
Biochemistry**

**5<sup>th</sup> Congress of the African Federation of Clinical  
Chemistry**

**22-25 October 2017**

Durban, South Africa

Durban International Convention Center



## **DATES TO FOCUS ON**

**15 May 2017**

**Poster abstract deadline**

**15 July 2017**

**Deadline for reduced fees registration**

**22 - 25 October 2017**

**IFCC Worldlab Durban 2017**

## **ORGANIZING SECRETARIAT**



**MZ Congressi srl**

*Member of the MZ International Group*

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[info@durban2017.org](mailto:info@durban2017.org)

# INVITATION

## 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.

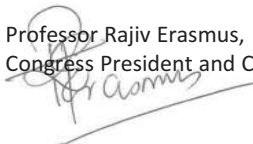
WorldLab 2017 promises to be one of the best with a unique blend of innovative science, evidence based laboratory medicine and an emphasis on personalized medicine. This reflects the changing directions of science and medicine with greater attention being paid to prevention and risk stratification. Because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



www.istanbul2014.org

# COMMITTEES

## CONGRESS ORGANISING COMMITTEE

R.T. Erasmus	<i>Congress President, Congress Organising Committee Chair</i>
T.S. Pillay	<i>Congress President, Scientific Programme Committee Chair</i>
N. Crowther	<i>Abstracts</i>
V. Steenkamp	<i>Social Programme</i>
A. Zemlin	<i>Finance</i>
R.T. Erasmus	<i>IFCC C-CC Liaison</i>
A.B. Okesina	<i>AFCC Liaison</i>

## INTERNATIONAL SCIENTIFIC COMMITTEE

T.S. Pillay (South Africa), Scientific Programme Committee Chair  
K. Adeli (Canada)  
J. Delanghe (Belgium)  
R.T. Erasmus (South Africa)  
T. Matsha (South Africa)  
S. Sandberg (Norway)  
M. Turzyniecka (South Africa)  
A. Zemlin (South Africa)  
D. Sacks (USA)  
I. Young (United Kingdom)  
P. Gillery (France)  
A.B. Okesina (Nigeria)  
M. Montserrat Blanes Gonzales (Paraguay)  
N. Crowther (South Africa)

as of July 2016

# COMMITTEES

## INTERNATIONAL SCIENTIFIC ADVISORY BOARD

R.T. Erasmus *Congress President, Congress Organising Committee Chair*  
T.S. Pillay *Congress President, Scientific Programme Committee Chair*

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R. Christenson (USA)  
P. Thien Ngoc (Vietnam)  
H. T Marima-Matarira (Zimbabwe)

*as of July 2016*

# CONGRESS LOGO



The logo of Worldlab 2017 captures the geographical and cultural splendour of Durban, the second largest city in South Africa and the largest municipality on the Indian ocean side of the African continent.

The central feature is the iconic Moses Mabhida stadium, a purpose-built venue for the 2010 Soccer World Cup, the first time the tournament was staged in Africa. The stadium resembles a futuristic spacecraft. The warmth of the Indian ocean and the spectacular beaches of Durban are reflected in the waves and surfboard. Durban is in the Zulu kingdom province of KwaZulu-Natal and the Zulu warrior depicts the immense historical and cultural contribution of the Zulu nation, the largest ethnic group in the country, to this province and South Africa.

# SCIENTIFIC INFORMATION

## Multi-omics, laboratory medicine & personalized medicine

### CONGRESS SYMPOSIA TOPICS

- Porphyrias
- Laboratory Reference Intervals: Global Initiatives and Harmonization Challenges
- Applying Big Data to Improve Laboratory Practice
- Big data and metabolomics
- Affordable diagnostics for Africa
- Emerging challenges of Laboratory Medicine
- Advanced Glycation End Products (AGEs) in diabetes mellitus and chronic diseases
- Personalized and precision medicine
- Value of Laboratory Medicine in Healthcare Delivery
- Implementing Cancer Genomics in Low Resource Settings
- Standardization in laboratory medicine beyond clinical chemistry
- Advances in TB diagnostics
- Clinical Laboratory Practice for Bone Turnover Markers
- Alzheimer's Disease
- Interpretation and Commenting on Clinical Chemistry Results: An interactive workshop
- Interface between Endocrinology & Lab medicine- interactive case studies
- Training programmes for biomedical scientists and laboratory medicine specialists
- Strategic Planning for Evaluation and Assessment of Internal and External Quality Control Performance
- Risk Management and its utility in the clinical laboratory

### EDUCATIONAL WORKSHOPS (EduWs)

The Congress has planned to host Industry Sponsored Workshops for industrial partners.

Further information will be sent directly to companies or can be requested at [info@durban2017.org](mailto:info@durban2017.org)

### LUNCHTIME SYMPOSIA

- Biomarkers in urological cancer
- Use of Routine clinical and biochemical data using a Clinical Case Bank to monitor and detect disease progression

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# WORLDLAB DURBAN

day	<b>SUNDAY 22 OCTOBER</b>
room	MAIN HALL
17.30 19.30	OPENING CEREMONY
SOCIAL PROGRAM	WELCOME PARTY

day	<b>MONDAY 23 OCTOBER</b>				
room	MAIN HALL	CONF 1	CONF 2	CONF 3	EXHIBITION HALL
9.00 - 11.00	SYM 1	SYM 2	SYM 3	IFCC SYM 1	10.00-17.00 Exhibition open
11.00 - 11.45	BREAK				
11.45 - 12.30	PL 1				
12.30 - 14.30	POSTER SESSION LUNCH				
14.00 - 17.30	IFCC SYM 2 14.00-16.00	EduW 1 14.00-15.00	SYM 4	SYM 5	
		EduW 2 15.15-16.15			
	EduW 3 15.15-16.15	EduW 4 15.15-16.15	EduW 5 15.15-16.15	EduW 6 15.15-16.15	
SOCIAL PROGRAM	19.30-22.30 Speakers' Dinner (only for invited guests) FREE EVENING FOR COMPANIES				

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# 2017 WEEK AGENDA

www.durban2017.org

day	TUESDAY 24 OCTOBER				
room	MAIN HALL	CONF 1	CONF 2	CONF 3	EXHIBITION HALL
9.00 - 11.00	SYM 6	SYM 7	SYM 8	IFCC SYM 3	10.00-17.00 Exhibition open
11.00 - 11.45	BREAK				
11.45 - 12.30	PL 2				
12.30 - 14.30	POSTER SESSION LUNCH				
14.00 - 17.30	IFCC SYM 4 14.00-16.00	EduW 7 14.00-15.00	SYM 9	SYM 10	
		EduW 8 15.15-16.15			
	EduW 9 15.15-16.15	EduW 10 15.15-16.15	EduW 11 15.15-16.15	EduW 12 15.15-16.15	
SOCIAL PROGRAM	Cultural & Social evening 19.30-22.30				

day	WEDNESDAY 25 OCTOBER				
room	MAIN HALL	CONF 1	CONF 2	CONF 3	EXHIBITION HALL
9.00 - 10.30	SYM 11	SYM 12	SYM 13	IFCC SYM 5	10.00-15.00 Exhibition open
10.30 - 11.00	BREAK				
	EduW 13 11.00-12.00	SYM 14 10.45-12.15	SYM 15 10.45-12.15	EduW 14 11.00-12.00	
12.30 - 15.00	PL 3 12.20-13.00				Farewell Party 13.30-15.00
	CLOSING CEREMONY				

# PLENARY LECTURE

## OPENING PLENARY LECTURE

22 October 2017



**“HIV in women in Africa: New evidence from phylogenetic, genomic and proteomic research”**

***Prof Salim S. Abdool Karim***

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.

# PLENARY LECTURE



## PLENARY LECTURE

23 October 2017

**“Genetic diagnosis for hypercalcaemic and hypocalcaemic disorders”**

***Prof Raj Thakker, FRS***

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.

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# PLENARY LECTURE

## PLENARY LECTURE

24 October 2017



**“The Nanobody revolution in laboratory diagnostics”**

***Prof Serge Muyldermans***

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.

# CONGRESS VENUE

The 23<sup>rd</sup> ICCCLM 2017 Congress will be held at the DURBAN INTERNATIONAL CONVENTION CENTRE. Awesome in size, the Durban ICC is one of the most advanced event facilities in the world.



## 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](http://www.airports.co.za)

King Shaka International Airport (DUR) – The airport is 22 miles (32km) north of Durban: direct

O.R. Tambo International Airport (ORTIA)(JNB) – The airport is 14 miles (22km) east of Johannesburg:

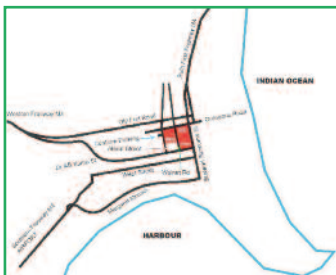
Cape Town International Airport (CPT) – The airport is 13 miles (20km) east of Cape Town.

More information will be available on the website.

### 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.

## ABSTRACTS

Abstracts of free contributions, covering the field of Clinical Chemistry, Clinical Molecular Biology and Laboratory Medicine in the broader sense can be submitted. Preference for Poster or Oral presentation should be indicated at the time of submission since a poster sessions as well as oral presentations of scientific contributions from participants will be arranged.

Abstracts can only be submitted via the Internet. Deadline for Abstracts submission is 15<sup>th</sup> May 2017. Further information on how to submit abstracts will be published on our website.

## 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.

## ACCOMMODATION

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

## 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.

Updates on the Congress will be available at

[www.durban2017.org](http://www.durban2017.org)

*Do not miss to check on-line regularly*

# SPONSORS

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**IFCC WorldLab**  
**Durban 2017**  
22-25 October

**Multi-omics, laboratory medicine & personalized medicine**

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