

IFCC-WorldLab Fortaleza 2008

Ceará Convention Center - Fortaleza, Brazil
28 September - 2 October 2008

20th International Congress of Clinical Chemistry
and Laboratory Medicine

XXXV Brazilian Congress of Clinical Analysis

VIII Brazilian Congress of Clinical Cytology

**OPENING CEREMONY
SUNDAY 28 SEPTEMBER 2008**

18.00 - 20.00

LA MAISON

The *Opening Ceremony* will be held in a lovely setting, LA MAISON, atop a small hill overlooking the city of Fortaleza, the shoreline dotted with skyscrapers, and the ocean.

- Welcome addresses
- Welcome addresses on behalf of Local Authorities
- IFCC & SBAC Awards
- Opening Lecture

20.00

MODERN COLISEUM

Welcome Reception

**SCIENTIFIC PROGRAMME
MONDAY 29 SEPTEMBER 2008**

9.00 - 9.45

PLENARY LECTURE

The Ubiquitin Proteolytic System: from Basic Mechanisms and onto Human Diseases

A. Chiechanover (Israel)

10.00 - 12.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

The Laboratory in Diabetes and Prediabetes

Chair: G. Picheth (Brazil)

Biological markers to assess glycaemic control in diabetes mellitus

E.S. Kilpatrick (United Kingdom)

Genetics of type 2 diabetes
T.H. Lindner (Germany)

Post-translational modifications of proteins in diabetes
P. Gillery (France)

Diabetes and prediabetes: Laboratory update and new diagnostic perspectives
D.E. Bruns (USA)

The Molecular Basis of Medicine and the Clinical Laboratory

Chair: P. Fortina (USA)

Molecular profiling of colon cancer
F. Barany (USA)

SNP analysis and DNA sequencing based on intrinsic molecular charges
Y. Miyahara (Japan)

Molecular diagnostic tests for cancer diagnosis and therapy selection
W.H. Koch (USA)

Progress in molecular diagnostics of syndromic Hirschsprung diseases and other neurocristopathies
M. Goossens (France)

Chagas Disease: Parasite Diversity and Diagnosis

Chair: A. Luquetti (Brazil)

Trypanosoma cruzi genetic diversity and epidemiological implications
B. Zingales (Brazil)

Molecular diagnosis of Chagas disease
O. Fernandes (Brazil)

New methods for the serological diagnosis
M. Peralta (Brazil)

Transfusion-transmitted Trypanosoma cruzi infection in non-endemic countries
R. Salvatella (Uruguay)

Analytical Quality

Chair: D. Mazziotta (Argentina)

Analytical quality in hemostasis
C. Duboscq (Argentina)

Analytical quality in hematology
N. Fink (Argentina)

Traceability and uncertainty: responsibilities of IVD industry
J. Gella (Spain)

Analytical standardization: situation in the Latin-America region
D. Mazziotta (Argentina)

The Concept of Traceability in Laboratory Medicine - A Tool for Standardisation

Chair: L. Siekmann (Germany)

The strategy for the implementation of traceability on the basis of relevant ISO standards
J.C. Forest (Canada)

The Joint Committee on Traceability in Laboratory Medicine - A global approach to approve reference systems

M.M. Müller (Austria)

Requirements for reference laboratories

L. Siekmann (Germany)

Standardisation of HbA1c measurements by introducing the concept of traceability

A. Mosca (Italy)

Concepts for the standardisation of cardiac marker measurements

M. Panteghini (Italy)

12.45 - 17.30

INDUSTRY-SPONSORED WORKSHOP

15.30 - 17.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

Evidence Based Laboratory Medicine

Chair: G. Sanders (The Netherlands)

What is EBLM and how to apply it

A.R. Horvath (Hungary)

Screening and EBLM: is there a sufficient case for PSA testing?

C. Florkowski (New Zealand)

EBM in cardiac medicine. A case based approach

R. Christenson (USA)

Quality Assurance in Emerging Technologies

Chair: I. Young (United Kingdom)

Quality assurance in molecular genetic testing

F. Rousseau (Canada)

Quality control and standardization in metabolomics

O. Fiehn (USA)

Quality control and quality assurance of microarray-based assays

L. Kricka (USA)

Nutritional Aspect in Laboratory Medicine

Chair: Shwu-Bin-Lin (Taiwan)

Laboratory assessment of nutritional status -Where is the evidence?

D.E. Palmer-Toy (USA)

Obesity laboratory- from bench to bedside

K.C. Huang (Taiwan)

Detection and possible physiological significance of CEHC, the metabolite of vitamin E

C-J Huang (Taiwan)

TUESDAY 30 SEPTEMBER 2008

9.00 - 9.45

PLENARY LECTURE**The Impact of Molecular Biology on the Field of Tropical Diseases***J. Kalil (Brazil)*

10.00 - 12.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

Proteomics*Chair: D. Hochstrasser (Switzerland)*

Understanding the human proteome

M. Wilkins (Australia)

A human protein atlas for normal and cancer tissues

M. Uhlen (Sweden)

Plasma biomarker discovery and the peptide atlas

R. Aebersold (Switzerland)

Proteomics and clinical chemistry

*D. Hochstrasser (Switzerland)***Clinical Immunology: Allergy and Autoimmunity New Developments from Bench to Bedside***Chair: H. Renz (Germany)*

Worldwide increases in allergy and autoimmunity: what can we learn from the hygiene hypothesis?

H. Renz (Germany)

New developments in allergy diagnostics: from IgE to cellular testing

C. Lam (Hong Kong)

Diagnostic value of screening and differential testing for antinuclear antibodies

L.E. Andrade (Brazil)

Chemokine and chemokine receptors: new inflammatory markers on the horizon

*M.M. Corsi (Italy)***Tropical Diseases in Americas - Epidemiology and Laboratory Approach***Chair: C.G. Teixeira (Brazil)*

Diagnostic tools and control efforts in lymphatic filariasis

G. Fontes (Brazil)

Malaria: the microscope and new diagnostic tools

C.T.D. Ribeiro (Brazil)

Lagochilascariasis: the important role both of parasitological and molecular diagnosis

A. Passos Barbosa (Brazil)

High sensitivity tools for diagnosis of schistosomiasis in low endemicity areas and traveler's medicine

C. Graeff Teixeira (Brazil)

Laboratory Medicine and Osteoporosis

Chair: *A. Griesmacher (Austria)*

Biochemical markers of bone turnover: diagnostics for clinical practice

A. Griesmacher (Austria)

Usefulness of markers of bone turnovers for the prevention and early diagnosis of osteoporosis

M.J. Seibel (Australia)

Assessment of bone turnover by marker plots

C. Bieglmayer (Austria)

Osteoprotegerin and receptor activator of NF- κ B, novel biomarkers of bone remodeling

M. Shaarawy (Egypt)

Genetic and Acquired Thrombophilia

Chair: *L.C. Kordich (Argentina)*

Role of platelets and platelet-derived products in arterial thrombosis

D. Mezzano (Chile)

Alterations in coagulation and fibrinolysis regulation

C. Duboscq (Argentina)

Thrombophilia and molecular alteration

J.M. Annichino-Bizzacchi (Brazil)

Antiphospholipid syndrome

B. Steffano de Perdomo (Uruguay)

12.45 - 17.30

INDUSTRY-SPONSORED WORKSHOP

10.00 - 12.30 & 15.30 - 17.30

WORKSHOP**Evidence in Laboratory Practice**

Chair: *R. Horvath (Hungary)*

Morning

Chair: *S. Sandberg (Norway)*

Introduction: Evidence in action

R. Christenson (USA)

Diagnostic validation - is this assay clinically useful?

C. Florkowski (New Zealand)

Using laboratory tests for monitoring: Do we have the evidence?

R. Horvath (Hungary)

The role of evidence in communicating laboratory results with clinicians

P. Bunting (Canada)

Afternoon

Chair: *R. Christenson (USA)*

Evidence of benefit from predictive testing: Pharmacogenomics and personalised medicine

J. Whitfield (Australia)

Evidence-based versus guideline-based medicine: sometimes similar, sometimes different
J. Watine (France)

Implementing evidence based guideline recommendations in practice
S. Sandberg (Norway)

15.30 - 17.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

New Trends in the Clinical Laboratory

Chair: H. Andersson Svahn (Sweden)

Identification of antigen specific T lymphocytes in diagnostics and clinical monitoring
C. Bonini (Italy)

Miniaturization for clinical applications
A. van den Berg (The Netherlands)

High throughput single cell analysis
H. Andersson Svahn (Sweden)

Predictive Medicine: from Theory to Practice

Chair: M. Ferrari (Italy)

Clinical proteomics for the prediction of cancer
D.W. Chan (USA)

Pharmacogenetics: Past, present and future
R.H.N. van Schaik (The Netherlands)

The agony and ecstasy of predictive genetics
M. Ferrari (Italy)

WEDNESDAY 1 OCTOBER 2008

9.00 - 9.45

PLENARY LECTURE

Molecular Basis of Diseases
M. Müller (Austria)

10.00 - 12.30 & 15.30 - 17.30

PARALLEL SESSIONS

Each part of this session will conclude with two presentations selected from abstracts submitted by young speakers

Cardiac Markers: Present and Future

Chair: M. Panteghini (Italy)

Morning

Assay-related issues in the measurement of cardiac troponin
M. Panteghini (Italy)

Troponin: the biomarker of choice for the detection of myocardial injury
A.S. Jaffe (USA)

Emerging markers of acute coronary syndrome: beyond the troponin
C. Heeschen (Germany)

The value of cardiac markers in non-ischemic heart diseases
J.P. Bertinchant (France)

Afternoon

Impact of assay-related issues in B-type natriuretic peptide quantification
J. Mair (Austria)

Clinical applications of B-type natriuretic peptide testing
A.M. Richards (New Zealand)

Cardiovascular risk biomarkers: where should we focus?
M. McQueen (Canada)

10.00 - 12.30

Pharmacogenetics and the clinical laboratory

Chair: R. Van Schaik (The Netherlands)

The role of CYP2C9/VKORC1 genotyping for anti-coagulation treatment
M. Linder (USA)

CYP2D6 genotype and response to breast cancer
D. Flockhart (USA)

Pharmacogenetics in psychiatry
W. Steimer (Germany)

Pharmacogenetics in transplantation medicine
I. MacPhee (United Kingdom)

Molecular Diagnosis of Infectious Diseases

Chair: M.O. Ferro Barbosa (Brazil)

Post-genomic approach for the laboratory diagnosis of leprosy
M. Stefani (Brazil)

Molecular methods applied to hepatitis C diagnosis and monitoring
J.R. Rebello Pinho (Brazil)

Molecular diagnosis of toxoplasmosis: possibilities and pitfalls
O. Fernandes da Silva Filho (Brazil)

Molecular diagnosis of leishmanioses
L. Campino (Portugal)

Subjects in Medical Mycology

Chair: A. Javier Bava (Argentina)

Molecular techniques applied to the mycological diagnosis
M. Cuenca Estrella (Spain)

Advances in paracoccidioidomycosis diagnosis
Z. Pires de Camargo (Brazil)

Epidemiology of histoplasmosis
M.L. Taylor da Cunha e Mello (Mexico)

Diagnosis of pulmonary pneumocystosis
A.J. Bava (Argentina)

Rise of Mass Spectrometry - Fall of Immunoassay?

Chair: L. Thienpont (Belgium)

Technological developments in mass spectrometry towards multiplexing and high throughput analysis
to be announced

Rise of mass spectrometry - Fall of immunoassay? Point of view of an immunoassay manufacturer
to be announced

Rise of mass spectrometry - Fall of immunoassay? Point of view of a mass spectrometry manufacturer
M. Morris (Manchester, UK)

Rise of mass spectrometry - Fall of immunoassay? Point of view of the clinical laboratory
A. Rockwood (USA)

12.45 - 17.30

INDUSTRY-SPONSORED WORKSHOP

15.30 - 17.30

PARALLEL SESSIONS

Segulab (Seguranca em Laboratorio): An Ongoing Collaboration Between Brasil and Italy for a Good Medical Laboratory Service

Chairs: P. Mocarrelli (Italy), U. Tuma (Brazil)

The Commitment of SBAC (Sociedade Brasileira de Análises Clínicas) in Improving Quality
U. Tuma (Brazil)

The Segulab Project: Achievements and Perspectives
F. Dorigatti, L. Prencipe (Italy)

Improving quality and reducing errors in laboratory medicine: ethical and scientific aspects
P. Bonini, G. Zoppei (Italy)

Gender/age specific reference values and influence of TAT on patients outcome: two important components of quality in clinical laboratories
F. Ceriotti, C. Franzini (Italy)

Proposals and perspectives of international collaboration
P. Mocarrelli (Italy), U. Tuma (Brazil)

Laboratory Medicine in Developing Countries: Issues and Challenge

Chair: R. Bais (Australia)

Laboratory Medicine in AFCB Region: Current practice and future goals
A. Al-Khatib (Syria)

The challenge of Laboratory Medicine in Africa
V. Steenkamp (South Africa)

State of Laboratory Medicine in Latinamerica. Education, regulations and needs
A.L. Maselli (Guatemala)

Challenges and problems of Laboratory Medicine in China
F. Sun (China)

THURSDAY 2 OCTOBER 2008

9.00 - 9.45

PLENARY LECTURE

A. Klug (United Kingdom)

10.00 - 12.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

The Clinical Laboratory and Patient Management: How do They Relate?

Chair: J.M.B. Hicks (USA)

Strategic and financial planning: Critical for the clinical laboratory
J.M.B. Hicks (USA)

Minimizing errors from test ordering to result reporting
D.S. Young (USA)

Workforce and privatization of clinical laboratories: Two challenges for the next decade
I.C. Barnes (United Kingdom)

Integrated pathways: The role of the clinical laboratory
M. Plebani (Italy)

The Stress Syndrome: Biochemical and Physiological Consequences in Man

Chair: O. Zinder (Israel)

Long duration space flight: The ultimate chronic stress syndrome
J. MacDonald (USA)

Stress response and laboratory parameters in critically ill patients
I. Vermes (The Netherlands)

Department of clinical chemistry oxidative stress and heart failure
I. Schimke (Berlin)

Regulation of the stress response by neuroactive steroids - Friends or foes?
O. Zinder (Israel)

HIV-AIDS: Molecular Diagnosis, Genotyping and Epidemiology

Chair: M. Pilonetto (Brazil)

The use of molecular biology in the diagnosis of HIV infection
R. Sobhie Diaz (Brazil)

HIV genotyping and its application
B. Galvão-Castro (Brazil)

HIV/AIDS epidemiology
D.A. Bertolini (Brazil)

The Brazilian experience with genotyping - The National Genotyping Net
to be announced

The Clinical Relevance of Uncertainty: Analytical Quality and Clinical Decision Making

Chair: K. Sikaris (Australia)

Measurement uncertainty its relevance to understanding analytical quality
K. Sikaris (Australia)

Defining the diagnostic and monitoring impact of what laboratory achieves as analytical quality
P. Hyltoft Petersen (Denmark)

Defining the clinical impact of the quality of laboratory analytical performance
G. Klee (USA)

Beyond analytical quality: The importance of postanalytical quality control in assuring clinical value
G. Cembrowski (Canada)

Immunophenotyping of Leukemia and Lymphoma

Chair: A. Ruiz-Argüelles (Mexico)

Recommendations from the Second Latin American Consensus Conference for flow cytometric immunophenotyping of hematological malignancies
A. Ruiz-Argüelles (Mexico)

New contributions of multiparameter flow cytometry immunophenotyping to the diagnosis of acute and chronic leukaemias
A. Orfao (Spain)

Immunophenotyping of chronic lymphoproliferative diseases
R.E. Duque (USA)

Hematopoietic stem cell transplantation for the treatment of hematological malignancies
A. Madrigal (United Kingdom)

12.45 - 17.30

INDUSTRY-SPONSORED WORKSHOP

10.00 - 12.30 & 15.30 - 17.30

WORKSHOP

How to Establish a Quality System in Line with ISO 15189

Chair: W. de Kieviet (The Netherlands)

Invited speakers: *E. Frank (India)*
H. Stekel (Austria)
L. Berte (USA)
D. Burnett (United Kingdom)

15.30 - 17.30

PARALLEL SESSIONS

All the sessions will conclude with two presentations selected from abstracts submitted by young speakers

Laboratory Medicine in Elderly People

Chair: Y. Tian (China)

Biomarkers and proteomics in neurodegenerative disorders
R. Ekman (Sweden)

Non-invasive approaches to metabolic studies in aged and other vulnerable populations
Y-m Yu (USA)

The clinical application of serum proteomic profile in elderly population
Y. Tian (China)

Circulating Nucleic Acids as a New Platform for Molecular Diagnosis

Chair: D. Lo (China)

Circulating nucleic acids in plasma/serum: an overview and application as a tumour marker
D. Lo (China)

Fetal nucleic acids in maternal plasma: the future of noninvasive prenatal diagnosis?
C. Oudejans (The Netherlands)

Plasma nucleic acids for the monitoring of acute and chronic disorders
R. Swaminathan (United Kingdom)

Hemostaseology and the Clinical Laboratory

Chair: R.A. Marlar (USA)

Thrombophilia testing
R.A. Marlar (USA)

QA/QC in the coagulation laboratory
S. Kitchen (United Kingdom)

Diagnosis of antibody-induced thrombosis
E. Lindhoff-Last (Germany)

17.30 - 18.00

CLOSING CEREMONY

CENTRO DE CONVENCÕES DO CEARÁ

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