

**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)*

### **Peer Review and Ethics in Publishing**

*Chair: E. Delvin (Canada)*

Writing a world-class scientific manuscript

*E. Delvin (Canada)*

Judicious use of figures, tables and databases

*G. Siest (France)*

Peer review: How to survive the process when submitting a manuscript

*K. Adeli (Canada)*

Publishing ethics in practice: What authors can and cannot do

*A. Newman (The Netherlands)*

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)*

### **Simple Carbohydrate Metabolism and Disease: Exploring the Regulatory Mechanisms**

*Chair: F. Salvatore (Italy)*

Fructose hereditary intolerance: the extreme end of the fructose-caused pathology spectrum

*F. Salvatore (Italy)*

MODY2 and glucokinase function

*M.A. Navas (Spain)*

UDP-galactose 4-epimerase deficiency - what can biochemistry tell us?

*D.J. Timson (United Kingdom)*

## **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 turnover 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- $\kappa$ 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)*

Evidence of benefit from predictive testing: Pharmacogenomics and personalised medicine

*J. Whitfield (Australia)*

Afternoon

*Chair: R. Christenson (USA)*

Evidence-based versus guideline-based medicine: sometimes similar, sometimes different

*J. Watine (France)*

A critical look at diagnostic guidelines

*W. Oosterhuis (The Netherlands)*

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. Mocarelli (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. Mocarelli (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**

*S.A. Klug (Cambridge, UK)*

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)*

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)*

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)*

Introduction: Standards and accreditation for medical laboratories

*L. Berte (USA), D. Burnett (United Kingdom)*

ISO 15189 - Managing quality and competence

*L. Berte (USA), D. Burnett (United Kingdom)*

Workgroups

*L. Berte (USA), D. Burnett (United Kingdom), E. Frank (India), W. Huisman (The Netherlands), H. Stekel (Austria)*

ISO 15189 - Evaluation and continual improvement

*D. Burnett (United Kingdom)*

15.30 - 17.30

### **PARALLEL SESSIONS**

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#### **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 CEARÀ**

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