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)*

- Transfusional and organ transmission of Trypanosoma cruzi in non-endemic areas  
  *G. Schmuñis (USA)*

**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)*
- Systematic reviews to support evidence based laboratory medicine  
  *K. Khan (United Kingdom)*
- 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 beside  
  *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)*

- Epidemiology of osteoporosis and its impact on diagnosis  
  *H. Schmidt-Gayk (Germany)*

- Osteoprotegerin and receptor activator of NF-kB, 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 Perdono (Uruguay)*

**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
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 Committement of SBAC (Sociedade Brasileira de Anàlises Clinicas) 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
To be defined

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. Sobbie 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

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