



Clinical Science Trumpet

Newsletter of the Association
of Clinical Scientists

Vol 31, No 1
February
2011

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Annual Meeting in Louisville on 18 to 22 May 2011

The Association of Clinical Scientists will hold its annual meeting in Louisville, Kentucky, on 18 to 22 May 2011. The headquarters will be the Seelbach Hilton Hotel. The meeting will be hosted by the University of Louisville Medical School. Drs. Joseph C. Parker Jr. and Roland Valdes Jr., Co-Chairs of the Program Committee, cordially invite you to attend. The program will focus primarily on *Genomics and Personalized Medicine*.

Preliminary Program

131st Meeting of the Association of Clinical Scientists
Louisville, Kentucky, 18 to 22 May 2011

Wednesday, 18 May (Seelbach-Hilton Hotel)

- 2:00 pm Meeting registration desk opens
- 2:30 pm Educational Accreditation Committee meeting
- 3:30 pm Executive Committee meeting
- 5:00 pm Editorial Board meeting
- 7:45 pm Executive Committee meeting with Past-Presidents, Regional Delegates, and Committee Chairs

Thursday, 19 May (Seelbach-Hilton Hotel)

Session A
Genomics, Proteomics, and Personalized Medicine
Chairs: Roland Valdes, Jr., & Dani S. Zander

- 8:00 am Welcome. Dani S. Zander, President of the Association; Joseph C. Parker, Jr., and Roland Valdes, Jr., Co-chairs of Program Committee
- 8:05 am [1] Pathology and the frontier of personalized medicine. Roland Valdes, Jr., Louisville, KY

- 8:30 am [2] Claude P. Brown Memorial Lecture: Deciphering the genomics and proteomics of human cancer to predict clinical behavior. James L. Wittliff, Louisville, KY
- 9:30 am [3] mTOR opens the door to personalized medicine via morphoproteomics. Robert E. Brown et al, Houston, TX
- 10:00 am [4] Environmental genomics of L1 retrotransposon: implications for personalized medicine. Kenneth S. Ramos, Louisville, KY
- 10:30 am Refreshments

Session B
Genomics, Proteomics, and Personalized Medicine
Chairs: Nina Tatevian & Egil Fosslie

- 10:45 am [5] Novel decision support tools using pharmacogenetics. Kristen K. Reynolds, Louisville, KY
- 11:15 am [6] A high-throughput approach for identifying cancer genes in tumor specimens. Kyle C. Kurek, Boston, MA
- 11:45 am [7] Technique for determining ERE-binding proteins in cancer biopsies to assess clinical relevance. Traci L. Kruer and James L. Wittliff, Louisville, Ky
- noon [8] Xenoestrogen assessment by recombinant estrogen receptors using a three-tiered approach. Sarah A. Andres and James L. Wittliff, Louisville, KY
- 12:15 pm Luncheon recess

**Luncheon sponsored by the Sections on
Clinical, Science in Practice and on
Clinical Molecular Biology & Genetics**
Chairs: Frederick Muschenheim & Frederick L. Kiechle

- 12:25 pm [9] Pathology: past, present, and future
Ronald J. Elin, Louisville, KY

**Association
of Clinical
Scientists**

**Dani S Zander MD,
President**

**Magali J Fontaine
MD, PhD, Vice-
President**

**Charles D Hawker
PhD, Past-President**

**Robert L Hunter Jr
MD, PhD, Director
of Scientific Sections**

**F William Sunder-
man Jr MD,
Secretary-Treasurer**

**Frederick
Muschenheim MD,
Recording Secretary**

**Other Members of
the Executive
Committee:**

**Vincent A DeBari
PhD**

Nina Tatevian MD

**Myra L Wilkerson
MD**

**The Association's
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1287, Middlebury,
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458 3351; fax 802
458 3278; e-mail
clnsci@sover.net;
website: www.
clinicalscience.org**

Thursday, 19 May (continued)

Session C

Molecular and Cell Biology

Chairs: M. Kent Froberg & Kyle C. Kurek

- 1:45 pm [10] Donor-specific tolerance in mismatched renal transplant recipients: from bench to bedside. Suzanne T. Ildstad, Louisville, KY
2:15 pm [11] Mitochondrial dysfunction in the etiology of Parkinson's disease. Egil Fosslie, Chicago, IL
2:45 pm [12] Stem cells in the lung: current concepts. Dani S. Zander, Hershey, PA
3:15 pm Refreshments

Session D

Oncology

Chairs: Robert E. Brown & Steven I. Hajdu

- 3:30 pm [13] Hedgehog pathway genes and the p53 gene cluster in patients with multiple myeloma. Peter Hu, Houston, TX
4:00 pm [14] The X-files: mystery surrounds the prostate cancer-associated retrovirus, XMRV. Jeanne M. Rhea et al, Atlanta, GA
4:30 pm [15] β -hCG producing tumors. Emily H. Turney et al, Louisville, KY
4:45 pm [16] Expression of fatty acid synthase in thyroid carcinomas of follicular origin. Jing Liu and Robert E. Brown, Houston, TX
5:00 pm [17] Oxidative stress in Cr(VI)-induced carcinogenesis. Xianglin Shi, Lexington, KY
5:15 pm [18] Possible influence of bacterial translocation on cancer cachexia. Dianliang Zhang et al, Qingdao, Shandong, China
5:30 pm [19] Variation of the alpha-fetoprotein promoter in hepatocellular carcinoma. George G. Chen, Hong Kong, China
5:45 pm Adjournment
7:30 pm Musicales rehearsal (organized by Myra L. Wilkerson)
7:30 pm Awards Committee meeting (Frederick Muschenheim, Chair)
8:30 pm Nominating Committee meeting (Charles D. Hawker, Chair)

Friday, 20 May (University of Louisville)

(Bus leaves Hotel at 7:45 am)

Session E

Clinical Science in Practice

Chairs: Juliana G. Szakacs & Donald T. Forman

- 8:15 am [20] A role of pathologists in patient-centered medical homes. Robert L. Hunter, Houston, TX
8:45 am [21] Surgery: The next generation—the role of robotics in surgery. Lynn P. Parker, Louisville, KY

- 9:15 am [22] Frozen-section controlled micrographic surgery with the general pathologist. Rawhi A. Omar, Louisville, KY
9:30 am [23] Hyperhomocysteinemia and dietary sulfur deficiency. Kilmer S. McCully and Yves Ingenbleek, Boston, MA, and Strasbourg, France
10:00 am [24] Asymmetric dimethylarginine associated with cardiovascular disease, metabolic syndrome, and insulin resistance. Pai C. Kao et al, Rochester, MN
10:15 am [25] Digoxin and dihydrodigoxin: quantitation by mass spectrometry and implications for cancer therapeutics. Steven M. Truscott and Roland Valdes Jr., Louisville, KY
10:30 am Refreshments

Session F

Workshop on Pharmacogenetics

Roland Valdes & Kristen K. Reynolds

- 10:45 am A guided tour of the Pharmacogenetics Laboratory will demonstrate and discuss practical methods for collection and separation of DNA, processing of patient samples collected by different methods, techniques for detection of single nucleotide polymorphisms (SNP), and the development of multiplexing assays. It will provide participants a working knowledge of a clinical pharmacogenetics laboratory.
12:15 pm Bus returns to Hotel
1:45 pm Bus leaves the Seelbach-Hilton Hotel. A special visit to Churchill Downs for participants and accompanying persons (Bus will return to the Hotel by 5:45 pm)

Annual Reception and Banquet

(6:45 pm, Seelbach-Hilton Hotel)

Toastmaster: Dani S. Zander, Hershey, PA

Young Clinical Scientist Award presented by Armand Glassman to Peter C. Hu, Houston, TX

Diploma of Honor presented by Robert L. Hunter to Charles D. Hawker, Salt Lake City, UT

Clinical Scientist of the Year Award presented by Magali Fontaine to Roland Valdes, Jr., Louisville, KY

Banquet address: (to be announced)

Saturday, 21 May (Seelbach-Hilton Hotel)

(Sessions G & H are concurrent with Sessions I & J)

- 6:15 am Run-for-the-Lilies: 2.5- and 5-mile running event organized by James J. Miller & Armand Glassman for the Committee on Athletics

Saturday, 21 May (Seelbach-Hilton Hotel)
(Sessions G & H are concurrent with Sessions I & J)

Session G

Cell and Tissue Pathology

Chairs: Joseph C. Parker, Jr., & Kilmer S. McCully

- 8:00 am [26] Surgical pathology slide tutorial on interstitial lung disease, with case presentations by pathology residents. Mostafa Fraig and Rafael Perez, Louisville, KY
- 9:30 am [27] Minimizing errors in the practice of breast pathology. Shahla Masood, Jacksonville, FL
- 10:00 am [28] Pathogenesis of early pancreatic lesions in cystic fibrosis. J. Allan Tucker, Mobile, AL
- 10:15 am Refreshments

Session H

Cell and Tissue Pathology

Chairs: Peter Farmer & Shahla Masood

- 10:30 am [29] The astrocyte brain. Joseph C. Parker, Jr., Louisville, KY
- 11:00 am [30] Surgical neuropathology: the intraoperative consultation. John R. Parker, Louisville, KY
- 11:30 am [31] The roles of H&E staining, histochemistry, immunohistochemistry, and electron microscopy in metabolic diseases affecting the liver. Consolato M. Sergi et al. Edmonton, Alberta.
- noon [32] Giant cell reparative granuloma: reparative or neoplastic? Atif A. Ahmed et al, Kansas City, MO
- 12:15 pm Luncheon recess (see Luncheon presentation, listed after Session J)

Session I

Therapeutics, Toxicology, and Informatics

Chairs: Steven H. Wong & Myra L. Wilkerson

- 8:00 am [33] Application of pharmacogenomics to pain management: clinical and forensic implications. Saeed A. Jortani et al, Louisville, KY
- 8:30 am [34] Diagnostic accuracy and interpretation of urine drug testing for pain patients. Amadeo J. Pesce et al, San Diego, CA
- 8:45 am [35] Genotyping CYP2C19 for carisoprodol/meprobamate intoxication as part of emerging transjudicial personalized justice. Steven H. Wong et al, Milwaukee, MN
- 9:00 am [36] Clopidogrel assessment: genotyping or functional assay? Clive R Hamlin, Cleveland, OH
- 9:15 am [37] Urinary ethanol metabolites following intensive exposure to a hand sanitizer. Roger Bertholf and Gary M. Reisfeld, Jacksonville, FL
- 9:30 am [38] QAZoom: a software tool for tracking cervical cytology workload and diagnostic rates by preparation type. Myra L. Wilkerson, Wilkes-Barre, PA
- 10:00 am Refreshments

Session J

Informatics, Biotechnology, and Clinical Chemistry

Chairs: Charles D. Hawker & Sidney M. Hopfer

- 10:15 am [39] Laboratory informatics from instruments to internet. James J. Miller, Louisville, KY

- 10:45 am [40] Weak biomarker associations expressed as risk/odds ratios. Stanley S. Levinson, Louisville, KY
- 11:15 am [41] Comparative analysis of physical and digital representations of immunofixation electrophoretic gel patterns. Joshua A. Bornhorst, Little Rock, AR
- 11:30 am [42] Improved patient safety with CLSI standard AUTO12-A on specimen label format. Charles D. Hawker, Salt Lake City, UT
- 11:45 am [43] Predicting the development of diabetes using hemoglobin A1c. Philip R. Foulis et al, Tampa, FL
- noon [44] Fallacies of the reference interval: magnesium. Ronald J. Elin, Louisville, KY
- 12:15 am Luncheon recess

Luncheon sponsored by the Sections on Hematology & Transfusion Medicine and Clinical Science in Practice

Chairs: John Lazarchick & Philip R. Foulis

- 12:25 pm [45] Algorithmic and consultative integration of transfusion medicine and coagulation: A working model for personalized medicine. Robert E. Brown, Houston, TX

Session L

Hematology and Transfusion Medicine

Chairs: Jonathan Krauss & Jacek M. Polski

- 1:30 pm [46] Novel strategies in blood inventory management. Magali J. Fontaine, Stanford, CA
- 2:00 pm [47] Warfarin pharmacogenomics: economics and outcomes. Jonathan Krauss, Augusta, GA
- 2:30 pm [48] The new era of anticoagulation. John Lazarchick, Charleston, SC
- 2:45 pm [49] Beyond blasts: flow cytometric immunophenotyping of granulocytes and monocytes in myeloid neoplasms. Jacek M. Polski, Mobile, AL
- 3:00 pm Refreshments

Session M

Clinical Microbiology and Immunology

Chairs: Armand Glassman & Raymond W Ryan, Jr.

- 3:15 pm [50] HIV-1 drug resistance testing. Robert L. Barker and Mary Bishop, Louisville, KY
- 3:45 pm [51] Influenza genome: applications for pathogenesis, prevention, and patients. Armand B. Glassman, Charleston, SC
- 4:00 pm [52] When is carpal tunnel syndrome not just carpal tunnel syndrome? M. Kent Froberg, Virginia, MN
- 4:15 pm [53] Analysis of misdiagnosis of four cases of tuberculosis of the thyroid. Frances Shih et al, Winnipeg, Manitoba

Business Meeting of the Association

4:30 pm, Dani S. Zander, President

Musical and Art Show

7:30 pm

with wine and cheese reception during intermission.
Organized by Myra L. Wilkerson, Chair of the
Committee on Music and Fine Arts

Meeting Registration

The regular registration fee is \$435. Junior members, emeritus members, and non-member residents or post-doctoral fellows may pay a reduced fee (\$295). The registration includes a ticket to the reception and banquet on Friday evening. Tickets for the luncheons of scientific sections cost \$30. Admission to the musicale and art show on Saturday evening is free. The meeting registration form is printed on page 5 of the *Clinical Science Trumpet*.

Hotel Accommodations

The Seelbach Hilton Hotel, rated Four Diamonds by AAA, recently underwent a \$12 million renovation. Appearing on the National Register of Historical Places, this luxury hotel is the premier hotel in the state of Kentucky. Built in 1905, it is considered a landmark to “the golden era” with its grand ambiance inspiring author F. Scott Fitzgerald to use the Seelbach as a backdrop for Tom and Daisy Buchanan’s wedding in *The Great Gatsby*. The Seelbach’s Oak Room restaurant is Kentucky’s first and only AAA Five Diamond restaurant.

The special convention rate will be \$149/room (single or double) plus taxes. The hotel’s amenities include the Z-Salon and Spa, a renovated and expanded fitness center, and a business center. The hotel’s address is 500 Fourth Street, Louisville, KY 40202, and its website is www.Seelbachhilton.com.

The number of available rooms at the convention rate is limited, so you should make your reservations early by calling the hotel at (800) 333 3399, (502) 585 3200, or by sending a fax to (502) 585 9240. Please specify that you will attend the Association’s meeting. The cut-off date for reservations at the convention rate is 25 April 2011.

Transportation

Complimentary shuttle service between Louisville International Airport and the Seelbach Hilton Hotel is provided from 6 a.m. to 12 midnight, with an approximate travel time of 15 minutes. To arrange transportation, please call the hotel’s concierge desk (502) 585 3200. Guest parking with in/out privileges at the hotel costs \$21/night (self-parking) or \$25 (valet parking).

Message from Florence Forman, President of the Auxiliary to the Association

Hi Auxiliary Members:

The Association’s Annual Meeting in Louisville, Kentucky, from May 18-22 will give us an opportunity to be together again. I can hardly wait! Our unique group manages to remain connected regardless of time and distance. All spouses and accompanying persons are cordially invited to join in our delightful activities.

We look forward to the Association’s excursion to the famous racetrack at Churchill Downs, the annual Reception and Banquet, and the annual Musicales and Art Show. Our special time together will begin on Wednesday evening when we will toast each other with wine and snacks at the hotel. On Thursday, Friday, and Saturday, Kathy Valdez is arranging for us to visit lovely gardens and a historic village. She will also host us for luncheon at her home in the countryside. Plan to attend and find out all that is waiting for you in lovely Louisville.

Fondly,
Flo Forman

P.S. For those who are unfamiliar with the Auxiliary to the Association, the following information should be helpful:

The Auxiliary to the Association of Clinical Scientists was formed over 30 years ago. Its purpose is to provide a venue for friendship and to organize a variety of interesting activities for the accompanying spouses of clinical scientists who attend the Association’s scientific programs.

We meet each year at the Annual Meeting, where a member of the Auxiliary from the host city plans activities for us to enjoy. We are a congenial, fun-loving group who enjoy being together!

ASSOCIATION OF CLINICAL SCIENTISTS

Registration Form for the Annual Meeting in Louisville, KY, on 18 to 22 May 2011

Last Name	First Name	Initial	Degree
Institution		Street Address	
City	State	Zip	
Telephone #	Fax #	e-mail address	

	No. of persons	Charge (\$)
Meeting Registration (\$435 Regular; \$295 Junior or Emeritus) (includes one ticket to the Reception and Banquet)	_____	_____
Thursday Lunch - Section on Clinical Molecular Biology and Genetics (\$30)	_____	_____
Friday Afternoon - Special Excursion to Churchill Downs (\$30)	_____	_____
Friday Evening - Additional Guest Ticket for Reception and Banquet (\$85)	_____	_____
Saturday Lunch - Section on Clinical Science in Practice (\$30)	_____	_____
Saturday Evening - Musicale & Art Show, with wine and cheese reception	_____	<u>gratis</u>
TOTAL PAYMENT ENCLOSED:		_____

Please send this form with a check, payable to Association of Clinical Scientists, to F William Sunderman Jr MD, PO Box 1287, Middlebury, VT 05753. Alternatively, you may charge American Express, Visa, or MasterCard (circle which one). Please give your credit card number and expiration date, and sign below. If you pay by credit card, you may send this form by fax to 802 458 3278. Cancellation with full refund will be accepted until 18 April 2011.

Card No.: _____ Expiration (mo, year): _____

Signed: _____ Date: _____

Information about the Association of Clinical Scientists

Invitation to Join. This page summarizes the goals, activities, programs, and publications of the Association of Clinical Scientists. The Association encourages its members to conduct clinical research, present papers, visit each other's laboratories, improve their clinical and laboratory skills, expand their knowledge, and publish their findings.

Fellowship is granted to scientists with a doctoral degree, who through residency or post-doctoral training, clinical activities, and presentations or publications have shown proficiency and achievement in clinical science.

Goals. The goals of the Association of Clinical Scientists are:

- To promote education and research in clinical science;
- To improve the development, selection, accuracy, utilization, and interpretation of laboratory tests used for clinical diagnosis, prognosis, monitoring, and research;
- To encourage cooperation among physicians and members of other professions concerned with applications of scientific methods in clinical practice and research; and
- To foster the professional development, scientific stature, ethical standards, and collegiality of clinical scientists.

History. The Association was formed in 1949 by physicians and scientists from various fields of laboratory medicine. The group was initially called the "Clinical Science Club." In 1956, the Association was granted a charter by the Commonwealth of Pennsylvania as a non-profit scientific and educational corporation.

Members. The Association's members include pathologists, clinical chemists, molecular biologists, microbiologists, immunologists, hematologists, cytogeneticists, toxicologists, clinicians,

and oncologists who are experts in the applications of laboratory methods for the elucidation, diagnosis, and treatment of human diseases. Most members live in North America, but the Association has members from around the globe.

Scientific Sections. The Association's scientific sections are:

- Cell and Tissue Pathology
- Clinical Biochemistry and Biotechnology
- Clinical Immunology and Microbiology
- Clinical Molecular Biology and Genetics
- Clinical Science in Practice
- Hematology and Transfusion Medicine
- Therapeutics and Toxicology
- Clinical Informatics and Computer Systems

Members are invited to enroll in one or more of these sections. The sections assist in organizing the platform sessions at each of the Association's meetings.

Meetings. The Association has an annual scientific meeting, usually held in May, that includes a seminar on a timely topic in clinical science, and platform sessions that feature scientific papers presented by members and invited guests, as well as visits to clinical and research laboratories. International symposia are held in collaboration with scientific groups in other countries.

Affiliations. The Association of Clinical Scientists is an affiliate of the American Association for the Advancement of Science, a sponsor of the American Board of Clinical Chemistry, and a member of the Intersociety Pathology Council.

Publications. The Association's journal, *Annals of Clinical & Laboratory Science*, founded in 1971, includes review

articles and research papers that encompass the fields of laboratory diagnosis, as well as advances in clinical science and medicine. The Association's newsletter, the *Clinical Science Trumpet*, contains meeting announcements and news about members.

Benefits. The Association strongly supports the career development of its members. Annual awards include the Young Clinical Scientist Award, the Diploma of Honor, and the Clinical Scientist of the Year Award. By meetings, publications, and professional interactions, the Association fosters scientific inquiry, education, and camaraderie. Contacts among the Association's members assist in employment, academic appointments, and promotion.

The meetings provide CME credits and offer cultural as well as scientific exchanges. A Musicales and Art Exhibit featuring members and guests of the Association is held during each meeting. Conviviality of the Association is enhanced by receptions and banquets. The Auxiliary ensures that spouses are welcome and enjoy varied activities during the Association's meetings.

Dues. The annual membership dues are \$190, which includes subscriptions to the Association's journal, *Annals of Clinical & Laboratory Science* (in print and online), and its newsletter, *The Clinical Science Trumpet*.

Address and Contact Information:

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Association of Clinical Scientists

Proposal of Candidate for Membership

Name (First, Initial, Last, Degrees)

Office Address (Institution, Street)

(City, State, Zip) Phone No. Fax No. E-mail address

Home Address (Street)

(City, State, Zip) Phone No. Fax No. E-mail address

Birthplace Birthdate Citizenship Gender

Education (Institutions, Locations, Dates, Degrees)

Postdoctoral Training (Institutions, Locations, Dates, Certification, Licensure)

Past Positions (Institutions, Locations, Dates, Titles)

Present Position (Institution, Location, Date, Title, Academic Appointment)

Clinical and Scientific Expertise (Subspecialty, Clinical Focus, Research Emphasis)

Candidate's Signature Date Membership Category

Sponsor's Signature Date Printed Name

The Sponsor certifies that the candidate fulfills the requirements for membership and subscribes to the goals and objectives of the Association of Clinical Scientists. This proposal form should be sent, along with the candidate's curriculum vitae and bibliography, by mail, fax, or e-mail to the Secretary-Treasurer:

F William Sunderman, Jr., MD
Association of Clinical Scientists, PO Box 1287, Middlebury, VT 05753, USA
Tel: 802 458-3351, Fax: 802 458-3278, E-mail: clinsci@sover.net

Academic Opening for a Clinical Chemist

The Department of Pathology and Laboratory Medicine, David Geffen School of Medicine at the University of California, Los Angeles has an opening for a full-time Assistant/Associate Professor, to serve as Associate Director of Clinical Chemistry.

The candidate must have an M.D. and/or Ph.D. degree with American Board of Pathology (CP or AP/CP) or American Board of Clinical Chemistry certification/eligibility. Eligibility for licensure in the state of California and experience as a Clinical Chemistry director are also desired. The faculty appointment will be commensurate with training and experience.

The individual will share the technical and clinical responsibilities of a high-volume automated clinical chemistry laboratory which include method validation, beeper report and consultation with physicians. In addition, he/she will also participate in educating pathology and laboratory medicine residents and medical students. The successful candidate will also be expected to conduct clinical investigative research related to clinical chemistry or other associated clinical services.

Salary and benefits packages are competitive. The David Geffen School of Medicine at UCLA is an Equal Opportunity Employer. Interested persons should send their curriculum vitae, a cover letter describing clinical and research interests, and three references to:

Anthony W. Butch, Ph.D., Chair, Clinical Chemistry Faculty Search Committee, David Geffen School of Medicine at UCLA, Mailroom A7-149 CHS; 10833 Le Conte Avenue, Los Angeles, CA 90095-1732; abutch@mednet.ucla.edu

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