



Clinical Science Trumpet

Newsletter of the Association
of Clinical Scientists

Annual Meeting in Mobile, AL on 23 to 27 May 2012

Vol 32, No 1
March
2012

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The Association of Clinical Scientists will hold its annual meeting in Mobile, Alabama on 23 to 27 May 2012. The headquarters will be the Renaissance Mobile Riverview Plaza Hotel. The meeting will be hosted by the University of South Alabama. Drs. J. Allan Tucker and Jacek Polski, Co-Chairs of the Program Committee, cordially invite you to attend this outstanding conference. The program will focus primarily on *Advances in Pathology for Personalized Medicine*.

Preliminary Program

132nd Meeting of the Association
of Clinical Scientists
Mobile, Alabama, 23 to 27 May 2012

Wednesday, 23 May (Riverview Plaza 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, 24 May (Riverview Plaza Hotel)

Session A

Advances in Pathology for Personalized Medicine
(Chairs: Roland Valdes, Jr., & J. Allan Tucker)

8:00 am Welcome. Magali J. Fontaine, President of the
Association; J. Allan Tucker and Jacek Polski,
Co-chairs of Program Committee
8:05 am [1] Abraham J. Gitlitz Memorial Lecture:
Challenges of smaller facilities in the
changing world of medicine. J. Allan Tucker,
Mobile, AL

8:35 am [2] POCT and molecular diagnostics:
the future. Frederick L. Kiechle,
Hollywood, FL
9:05 am [3] Personalized medicine in
hematopathology. Jacek Polski,
Mobile, AL
9:35 am [4] Personalized medicine: the current
advances in diagnosis and treatment of
mental illnesses. Tatiana Souslova, et
al, Temple TX
10:05 am Refreshments

Session B

**Genomics, Proteomics, and Personalized
Medicine**

(Chairs: Robert E. Brown & Egil Fosslie)

10:20 am [5] Predictive markers in breast carcinoma.
Andrea G. Kahn, Mobile, AL
10:50 am [6] Investigating Sirt1 in hepatocellular and
cholangiocellular carcinomas. Consolato
Sergi, et al, Alberta, Canada
11:20 am [7] Personalized medicine and therapy for
chronic Hepatitis C: the role of IL28B
genotyping. Patricia R. Slev, Salt Lake City,
UT
11:35 am [8] ZBP-89 arrests the growth of
hepatocellular carcinoma via targeting
epigenetic enzymes. George G. Chen, Hong
Kong
11:50 am Luncheon recess

**Luncheon Sponsored by the Sections on
Clinical Science in Practice and Clinical
Molecular Biology and Genetics**

(Chair: Magali J. Fontaine)

12:00 pm [9] Emerging role of pathologists in patient
centered medical homes. Robert L. Hunter,
et al, Houston, TX,

Association of Clinical Scientists

**Magali J.
Fontaine, MD,
PhD President**

**Roland Valdes, Jr,
PhD, Vice-
President**

**Charles D. Hawker,
PhD, Secretary**

**Roger L. Bertholf,
PhD, Treasurer**

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

**Nina Tatevian, MD,
PhD, Editor-in-
Chief**

**Other Members of
the Executive
Committee:**

**Vincent A. DeBari
PhD**

**Myra L. Wilkerson
MD**

**Dani S. Zander,
MD**

**The Association's
address is 6431
Fannin, MSB
2.292, Houston,
TX 77030; tel:
(713) 234-6387; fax:
(713) 500-0732; e-
mail:**

**clnsci@sover.net;
website:**

**[www.clinical
science.org](http://www.clinical
science.org)**

Thursday, 24 May (continued)

Session C

Molecular and Cell Biology

Chairs: Frederick L. Kiechle & Kyle C. Kurek

- 1:05 pm [10] Homocysteine, thioretinamide, and the pathogenesis of cancer and arteriosclerosis. Kilmer S. McCully, Boston, MA
1:35 pm [11] Surfactant deficiency disorders: review of histopathologic, ultrastructural, and genetic features. John Hicks, Houston, TX
2:05 pm [12] Genetic discovery in rare disorders using archival pathology material. Kyle Kurek, Boston, MA
2:25 pm [13] Role of transforming growth factor- β signaling in gradient-induced hormetic morphogenesis, Egil Fosslie, Chicago, IL
2:45 pm [14] Hepatitis C genotype analysis: longitudinal review in a large veteran population. L. Brannon Thomas, et al, Tampa, FL
3:05 pm Refreshments

Session D

Oncology

Chairs: Kilmer S. McCully & Steven I. Hajdu

- 3:20 pm [15] Companion diagnostics: is it a reality? Kristen K. Reynolds et al, Louisville, KY
3:50 pm [16] Advances in cell separation technologies: isolation of circulating tumor cells. Lori M. Millner et al, Louisville, KY
4:20 pm [17] Epithelial-mesenchymal transition: morphoproteomics and systems biology provide diagnostic and individualized therapeutic options. Mary F. McGuire et al, Houston, TX
4:50 pm [18] Human factors engineering design of cancer protocols. Philip Foulis et al, Tampa, FL
5:05 pm [19] Morphoproteomic profiling of pediatric glioblastoma multiforms: biologic commonalities and therapeutic options. Kristine Konopka et al, Houston, TX
5:20 pm [20] Salinomycin induces cell death and reduces expression of stemness genes in human neuroblastoma cells with therapeutic potential in neural cancer stem cells. Priya Weerasinghe et al, Houston, TX
5:35 pm Adjournment
7:30 pm Musicales rehearsal (organized by Myra L. Wilkerson)
7:30 pm Awards Committee meeting (Roland Valdes, Jr, Chair)
8:30 pm Nominating Committee meeting (Dani S. Zander, Chair)

Friday, 25 May (University of South Alabama) (Bus leaves Hotel at 7:15 am)

Session E

Clinical Science in Practice

Chairs: Magali J. Fontaine & Dani S. Zander

- 8:00 am [21] Myb- a novel determinant of castration-resistance and aggressive phenotype in prostate cancer. Sanjeev K. Srivastava et al, Mobile, AL
8:15 am [22] Role of Heat Shock Factor-1 in mediating drug sensitivity in breast cancer. Shruti Desai et al, Mobile, AL
8:30 am [23] Post-translational regulation leads to loss of tumor suppressor Merlin in breast cancer. K. Adam Morrow et al, Mobile, AL
8:45 am [24] Understanding regulation of N-myc interactor; a novel regulator of breast malignancy. Jack W Rostas et al, Mobile, AL
9:00 am [25] Honokiol: A novel natural agent for pancreatic cancer prevention and therapy. Sumit Arora et al, Mobile, AL
9:15 am [26] Isolation, characterization and culture of cancer stem min cells for HTS compound screening. Steven McClellan et al, Mobile, AL
9:30 am [27] Bridging the gap: using patient simulation in medical education to improve practice. Michael Jacobs, Mobile, AL
9:45 am Refreshments

Session F

Workshop in Medical Education Simulation

10:15 am Simulation with robot controlled mannequins is revolutionizing medical education. These three 30' workshops will demonstrate three of the most valuable simulations with special relevance to clinical problems encountered in pathology. Participants will divide into three groups and rotate through all three simulations.

11:45 pm Bus returns to Riverview Plaza Hotel

12:45 pm Bus leaves Riverview Plaza Hotel for optional tour of Five Rivers Delta Resource Center (open to participants and accompanying persons).

4:45 pm Bus returns to Riverview Plaza Hotel

Annual Reception and Banquet

(6:45 pm, Riverview Plaza Hotel)

Toastmaster: Magali J. Fontaine, Stanford, CA

Young Clinical Scientist Award presented by Charles D. Hawker to Kristen K. Reynolds, Louisville, KY

Diploma of Honor presented by Robert L. Hunter to Nina Tatevian, Houston, TX

Clinical Scientist of the Year Award presented by Roland Valdes, Jr, to Juliana Szakacs, Boston, MA

Banquet address: Frye Gaillard, Writer-in-Residence, University of South Alabama, author of several highly regarded books and the 2012 recipient of the prestigious Clarence Cason Award for Nonfiction Writing by the University of Alabama.

Saturday, 26 May (Riverview Plaza Hotel)

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

6:15 am Run-for-the Lilies: 2.5 and 5 mile running or walking event organized by Robert Hunter and Consolato Sergi for the Committee on Athletics

Session G

Cell and Tissue Pathology

Chairs: Nina Tatevian & Peter F. Farmer

- 8:00 am [28] Role of ultrastructural evaluation of peripheral blood in diagnosis of metabolic storage disease. John Hicks, Houston, TX
- 8:30 am [29] Overexpression of SPARC in uterine leiomyosarcoma and STUMP. Sadhna Dhingra et al, Houston, TX
- 8:45 am [30] Morphoproteomics/morphometrics defines dedifferentiation in liposarcoma and provides therapeutic options: a case study. Erica Syklawer et al, Houston, TX
- 9:00 am [31] Breast carcinoma predictive markers: correlation between core biopsy and excision specimens. Oscar Roncal et al, Mobile, AL
- 9:15 am [32] High grade adenocarcinoma presenting as a vulvar metastasis. Amanda Tchakarov et al, Houston, TX
- 9:30 am [33] Intravascular large B-cell lymphoma: current concepts with a case report. Troy Davis et al, Louisville, KY
- 9:45 am [34] Breast carcinoma metastasis to the placenta. Alyaa Al-Ibraheemi et al, Houston, TX
- 10:00 am Refreshments

Session H

Slide Seminar: Anatomic Pathology

Chairs: Joseph Parker & Jacek Polski

- 10:15 am [35] Pulmonary blastoma: a case report and review of the literature. Crystal Cordell et al, Mobile, AL
- 10:30 am [36] A case report of fatal meningoencephalomyelitis due to *Halicephalobus sp.* Bhavesh Papadi et al, Mobile, AL
- 10:45 am [37] Metastatic myxoid chondrosarcoma to the lung: a diagnostic dilemma. Kelly E. Moses et al, Mobile, AL
- 11:00 am [38] A case of angiolymphoid hyperplasia with eosinophilia: a neoplasm or reactive process? Rocky Adams et al, Mobile, AL
- 11:15 am [39] Interdisciplinary approach in the diagnosis of hematologic malignancies. Dalia A Azim et al, Mobile, AL
- 12:00 pm Luncheon recess (see Luncheon presentation, listed after Session K)

Session I

Clinical Immunology and Microbiology

Chairs: Charles D. Hawker & Consolato Sergi

- 8:00 am [40] Interpretation of anti-HLA antibodies detected by fluorescence techniques for organ transplantation. Terry O Harville, Little Rock, AR
- 8:30 am [41] Recurrent meningitis due to multiple enteric organisms: etiology and management strategy. Modushudan Bhattacharjee et al, Houston, TX
- 8:45 am [42] Molecular diagnosis of infectious diseases. Ioan Cucoranu, Mobile, AL

Session J

Therapeutics and Toxicology

Chairs: Donald Cannon and Sidney M. Hopfer

- 9:00 am [43] Difficulties diagnosing POEMS and data suggesting standard blood-brain barrier measurement usefulness. Stanley S. Levinson, Louisville, KY
- 9:15 am [44] Urine drug testing: a form of medication reconciliation in patients with pain. Amadeo J. Pesce et al, San Diego, CA
- 9:30 am [45] Everolimus method comparison between Waters MassTrak™ XE (IUO) kit and LC-MS/MS method. Kamisha L. Johnson-Davis, Salt Lake City, UT
- 9:45 am [46] Pharmacogenomic economics. Jonathan S Krauss, Augusta GA
- 10:00 am Refreshments

Session K

Clinical Biochemistry and Biotechnology

Chairs: Roger Bertholf & Joshua A. Bornhorst

- 10:15 am [47] Pre-analytical stability of serum markers for multiple myeloma. Joshua Bornhorst et al, Little Rock, AR
- 10:45 am [48] Lamellar body counts on a Sysmex 5000 hematology analyzer: comparison to the Abbott FLM. Roger Bertholf, Jacksonville, FL
- 11:00 am [49] Clinically silent massive fetomaternal hemorrhage revealed by the Kleihauer-Betke (KB) test. Ginell R. Post et al, Charleston, SC
- 11:15 am [50] Development and implementation of a high throughput screen for small molecules that reverse MRP-1 mediated multi-drug resistance. Adam B. Keeton, Mobile, AL
- 11:30 am [51] Pituitary adenoma subclassification using a quantitative multiplexed immunoassay. Frederick G. Strathmann et al, Seattle, WA
- 11:45 am [52] Inaccuracy of indirect argatroban quantitation in certain clinical conditions. Jeanne M. Rhea et al, Atlanta, GA
- 12:00 pm Luncheon recess

Luncheon sponsored by the Section on Clinical Science in Practice

Chair: Philip R. Foulis

- 12:10 pm [53] Art history: the ongoing utility of electron microscopy. J. Allan Tucker, Mobile, AL
- 1:10 pm adjournment

Session L

Clinical Informatics

Chairs: Myra L. Wilkerson & Sriram Iyengar

- 1:15pm [54] Pathology informatics, bioinformatics, and personalized medicine. Ioan Cucoranu, Mobile, AL
- 1:45 pm [55] Validation of an automated camera system to identify patient name mislabeled specimens. Charles D. Hawker, Salt Lake City, UT
- 2:00 pm [56] Is it time for delta checks to “check out”? Frederick G. Strathmann et al, Seattle, WA
- 2:15 pm [57] QAZoom: a software tool for tracking cervical cytology workload and diagnostic rates by preparation type. Myra L. Wilkerson, Wilkes-Barre, PA

Session M
Clinical Science in Practice

Chairs: Vincent A. DeBari & Raymond W Ryan, Jr.

- 2:30 pm [58] Cardiovascular risk factors in suburban American late-adolescents: a cross-sectional, community-based study. Dennis M. Todd et al, South Orange, NJ
- 3:00 pm [59] Fluconazole prophylaxis decreases the rate of coagulase-negative Staphylococcal infections in a subset of extremely low birth weight neonates. Roland Abou Jaoude et al, South Orange, NJ
- 3:15 pm [60] Frostbite in Houston. Modushudan Bhattacharjee et al, Houston, TX
- 3:30 pm Refreshments

Session N

Hematology and Transfusion Medicine

Chairs: Magali J. Fontaine & John Lazarchick

- 3:45 pm [61] Racial/ethnic disparity in the control of hypertension after non-traumatic subarachnoid hemorrhage. Richard Baltaro et al, Omaha, NE
- 4:00 pm [62] Preventing allergic transfusion reactions. Magali J Fontaine et al, Stanford, CA
- 4:15 pm [63] Acquired Factor X deficiency secondary to AL amyloidosis. John Lazarchick, Charleston, SC
- 4:30 pm [64] Probable drug-induced hemolytic anemia masquerading as Brown Recluse spider bite envenomation. Eric Rosenbaum et al, Little Rock, AR
- 4:45 pm Session adjourns
- 4:50 pm Business Meeting of the Association
Magali J. Fontaine, President

Association Musicale and Art Show

(Riverview Plaza Hotel - 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. Emeritus members, students, fellows, and residents 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. Additional tickets for the reception and banquet for accompanying persons are \$85. Admission to the musicale and art show on Saturday evening is free. Tickets for the optional tour on Friday afternoon of the Five Rivers Delta Resource Center are \$40 and the tour includes a box lunch. The meeting registration form is printed on page 5 of the *Clinical Science Trumpet*. However, members are encouraged to try the Association's new on-line meeting registration system on the Association's web site.

Hotel Accommodations

The Renaissance Mobile Riverview Plaza Hotel <http://www.marriott.com/hotels/hotel-information/travel/mobrv-renaissance-mobile-riverview-plaza-hotel/> is the headquarters hotel for the meeting and most activities. This AAA 4-Diamond hotel features the Harbor Room restaurant open for breakfast, lunch, and dinner, the Fathoms Lounge open for light dinners (tapas) and which has covered outdoor seating, a fitness center, and an outdoor swimming pool. The hotel is also connected to the Arthur R. Outlaw Convention Center and is near the Mobile entertainment district and museums. It is also near the Robert Trent Jones Golf Trail with 54 championship holes at Magnolia Grove (17 miles) and is 35 miles from the Gulf Shores Alabama beaches. The

special convention rate will be \$129/room (single or double) plus taxes. Currently, the tax rate is 14%. The hotel's address is 64 South Water Street, Mobile, Alabama 36602. The number of available rooms at the convention rate is limited, so you should make your reservations early by calling the hotel at (251) 438-4000, or toll-free (800) 922-3298, or by sending a fax to (251) 415-0123. Please specify that you will attend the Association's meeting in order to receive the meeting rate and enable the Association to meet its contracted number of rooms. The cut-off date for reservations at the special convention rate is 23 April 2012.

Transportation

The Renaissance Mobile Riverview Plaza Hotel does not provide shuttle service to either the Mobile, AL (MOB) Airport (14 miles), the Pensacola, FL (PNS) Airport (57 miles), or the Biloxi, MS (GPT) Airport (72 miles). In addition to rental cars, alternate transportation options from MOB are taxi cab (~\$46 one way) or Mobile Bay Transportation (251-633-5693, www.mobilebaytransportation.com) (\$20 one way). Mobile Bay Transportation also serves the PNS (\$125 one way) and GPT airports (\$128 one way). Advance reservations are required. On-site parking at the hotel is \$12 per day or \$17 per day for valet parking.

ASSOCIATION OF CLINICAL SCIENTISTS

Registration Form for the Annual Meeting in Mobile, AL on 23 to 27 May 2012

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 Emeritus/Resident/ Fellow/Student) (Includes one ticket to the Reception and Banquet)		_____	_____	
Thursday Lunch – Sponsored by the Sections on Clinical Science in Practice and Clinical Molecular Biology and Genetics		(\$ 30)	_____	_____
Friday Afternoon – Special Excursion to Five Rivers Delta Resource Center (includes box lunch)		(\$40)	_____	_____
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 (gratis)			_____	<u> X </u>
TOTAL PAYMENT ENCLOSED:			_____	_____

Payment Options: (Cancellation with full refund will be accepted until 23 April 2012)

1. Mail this form with a check, payable to Association of Clinical Scientists, to Association of Clinical Scientists, 6431 Fannin Street, MSB 2292, Houston, TX 77030

2. Charge American Express, Visa, MasterCard (circle which one and complete the blank lines) and fax this form to (713) 344-1144

Card Number _____ Security Code (CVV) _____ Expiration Date _____

Name on the Card _____ Billing Address _____

City _____ State _____ Postal (Zip) Code _____

Country _____ Signature _____

3. Register on-line on the Association website at <http://www.clinicalscience.org/payment.html#AnnualMeeting>

**Message from Becky Hunter,
On Behalf of the Auxiliary to the Association**

Hi, Auxiliary Members:

Plans are shaping up nicely for an outstanding meeting in Mobile. You can look forward to a welcome gathering Wednesday evening, a tour of the Bellingrath Gardens and Home on Thursday, a visit to the Mardi Gras Museum and other downtown attractions Friday morning, followed by the Association group tour/boat ride at Five Rivers Delta Resource Center in the afternoon. Saturday's adventures are still pending, but will be bracketed by the Run/walk for the Lilies in the early morning and the Musicale in the evening. We like to think there are no strangers in our group, only friends we haven't met yet. Don't miss the fun. We'll see you there!

Warmly,

Becky Hunter

The Auxiliary to the Association of Clinical Scientists was formed over 35 years ago by Zimmie Davis, the wife of an early founding member. The goal was to provide an opportunity for spouses and accompanying persons of Association attendees to have a group of their own at the annual meeting. Their purpose was not only to help support the Association, but to plan activities, develop friendships and foster a sense of identity. It certainly has proven to be all of these things and more. Our activities at meetings are varied and interesting. We have visited different artists from glass blowers to potters and print makers. We have toured historic homes, art galleries, and also observed manatees and lemurs. There is always a new adventure awaiting us at each meeting. Best of all, we develop friendships that easily reconnect from year to year. We laugh, talk, share and discover more about each other when we get together at the meetings. I know of no other group that does all of this so easily and so well. The annual dues are \$10.00, and we welcome new members with open arms.

Come, join and discover the Auxiliary of the Association of Clinical Scientists.

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

Continued on page 8

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:

Charles D. Hawker, PhD

Association of Clinical Scientists, ARUP Laboratories, 500 Chipeta Way, Salt Lake City, UT 84108, USA

Tel: 801 583-2787, Fax: 801 584-5207, [E-mail: hawkercd@aruplab.com](mailto:hawkercd@aruplab.com)

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 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 reviewarticles 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 Musicale 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*.

The membership application on page 7 may be completed and submitted along with the applicant's CV by any one of several means (postal mail, fax, scanned as a pdf and emailed) to the Secretary at the address on the bottom of the application. If the applicant does not have a sponsor, the Secretary will serve as the sponsor.

ASSOCIATION OF CLINICAL SCIENTISTS
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