



# Clinical Science Trumpet

## Newsletter of the Association of Clinical Scientists

Mustafa A. Barbhuiya, Ph.D., Editor

Vol. 45, No. 1—January, 2025

# BROWN UNIVERSITY TO HOST THE 146<sup>th</sup> ACS MEETING IN PROVIDENCE, RI

## Wednesday–Saturday, May 14–17, 2025 Providence, Rhode Island

By Nina Tatevian, M.D., Ph.D., FACSc, and Charles D. Hawker, Ph.D., M.B.A., FACSc

The Association of Clinical Scientists will hold its 2025 Annual Meeting in Providence, Rhode Island, May 14-17, hosted by Brown University. The Program Committee's Chair, **Nina Tatevian, MD, PhD, FACSc** has announced that the program will include two major themes. On Thursday, May 15, the theme will be *Advances in Women's and Infants' Health* and will feature the Claude P. Brown Memorial Lecture, to be presented by **Francois I. Luks, MD, PhD** (J. Murray Beardsley Professor of Pediatric Surgery and Professor of Surgery, Pediatrics and Obstetrics & Gynecology). On Friday morning, May 16, the theme will be *Therapeutic Approaches to Pathogens of Global Significance*. The Saturday program will mostly consist of submitted abstracts from ACS members, residents, fellows, and colleagues. The preliminary program for the Annual Meeting follows on [page 6](#).

The schedule for the meeting will follow the Association's traditional format with full days on Thursday and Saturday, including an Opening Welcome Reception on Thursday evening. Friday will consist of a half day at the Brown University School of Medicine. Friday afternoon will have a cultural tour to Newport and Friday evening will be the Annual Awards Reception and Banquet, for which the invited speaker will be **Francois I. Luks, MD, PhD**, also the Claude P. Brown Memorial Lecturer. **Dr. Luks** is well known for his teachings and illustrations of medical anatomy and this topic promises to be an interesting change of pace. Saturday's program will include the Annual Members Business Meeting (as a

buffet luncheon) and will conclude with the traditional Musicales and Art Show, to be held at the Grace Episcopal Church, across the street from our hotel.

Our hotel will be the historic Hotel Providence, Trademark Collection by Wyndham, 139 Mathewson Street, Providence, RI 02903 (telephone: 800 861-8990 or 401-861-8000). Details can be found in the Accommodations section of the website. The hotel is downtown, walking distance to many attractions, and directly across the street from the Grace Episcopal Church where we plan to have the Musicales and Art Show as mentioned above.

The deadline for submission of abstracts will be Sunday, February 16, 2025. Details of the submission procedure, and the call for abstracts is available on the website at this link: [Abstract Instructions](#)

The Program Committee for the 2025 ACS Annual Meeting includes:

- Nina Tatevian, MD, PhD,**  
Program Committee Chair
- Liang Cheng, MD**
- Jessica Claus, MD**
- Christopher Crutchfield, PhD**
- Kyle Kurek, MD**
- Jonathan Kurtis, MD**
- Geralyn Messerlian, MD**
- James Sung, MD**
- Evgeny Yakirevich, MD**
- Charles D. Hawker, PhD, MBA**  
(*ex officio*).



Dr. Francois Luks



Providence, Rhode Island from the Providence River

### Inside the brass... Click below to jump to page

- Page 1 Providence, RI for 2025 Meeting
- Page 2 2025 Awardees
- Page 4 Accommodations, Transportation
- Page 6 Meeting Preliminary Program
- Page 9 Meeting Registration Form
- Page 11 President's Corner  
Call for Abstracts
- Page 12 Young Fellows Section  
Travel Grants Added
- Page 13 Senior Fellow Bio: Dr. John Savory
- Page 17 In memoriam: Frederick Kiechle
- Page 18 The Grapevine; Trivia
- Page 19 Officers and Committees



# Awards to Present at 2025 Annual Meeting

At the Annual Business Meeting in Jacksonville last April, **Dr. Myra Wilkerson** announced the following Association awards which will be presented at the 2025 Annual Meeting in Providence, RI.

## Young Clinical Scientist Award Hunter Miller

Past Awardees

**Hunter Miller, Ph.D.** spent his youth in rural Tennessee and became interested in science during middle school, with a “knack” for biology and physiology.

**Dr. Miller** attended Murray State University in Western Kentucky, earning a major in chemistry. His favorite courses were calculus, numerical analysis, biochemistry, and analytical chemistry.

In the spring of 2016, **Hunter** was accepted into the Interdisciplinary Program in Biomedical Sciences at the University of Louisville in the Pharmacology and Toxicology Department. He joined **Dr. Hermann Frieboes’** laboratory and became involved in research projects related to mathematical modeling of cancer to evaluate the efficacy of nanotherapeutics.

The experience as a graduate research assistant and a postdoctoral fellow while working in this interdisciplinary bioengineering laboratory allowed **Hunter** to develop skills in computer programming, data analysis, cell culture, confocal microscopy, and mass spectrometry-based metabolomics.

“In 2022, I learned about clinical chemistry and laboratory medicine as a postdoctoral fellow. I became interested in the field due to the data it generates and the vast potential for multivariable predictive modeling for improving patient care,” says **Dr. Miller**.

“As a first-year clinical chemistry fellow,” continued **Dr. Hunter**, “I found the 2024 Association of Clinical Scientists meeting in Jacksonville, Florida an excellent opportunity to connect with like-minded individuals. I’m looking forward to the 2025 meeting!”

**Dr. Miller** has long-term research interests that involve developing and validating novel multiplex assays and building machine-learning approaches for clinical laboratory applications and biomarker discovery workflows. In particular, his interest is advancing the state of omics technology such as mass spectrometry and nuclear magnetic resonance, towards clinical applications in cancer diagnostics and enhancing the clinical interpretability of machine-learning models in laboratory medicine.



Dr. Hunter Miller

## Young Clinical Scientist Award Jessica Claus

**Jessica Claus, M.D.** earned her medical degree from Rostock University in Germany and is currently completing her 4<sup>th</sup> year as an anatomic and clinical pathology resident at the Warren Alpert Medical School of Brown University.

**Dr. Claus's** research interest centers on Women's health and the enhancement of medical education.

**Dr. Claus** will further specialize her expertise Demonstrating a clear commitment to her field, through fellowships in gynecologic and breast pathology at Women and Infants Hospital of Rhode Island (Brown University), followed by a pediatric pathology fellowship at Boston Children's Hospital (Harvard University).

**Dr. Claus'** passion for knowledge dissemination has led her to author three pathology textbooks for medical students. Her dedication to professional development continues through her role as Chair of the Young Fellows Section Oversight Committee since 2023.



Dr. Jessica Claus



Dr. Claus presenting at the 2024 Annual Meeting



# F.W. Sunderman, Jr. Diploma of Honor Clinical Scientist of the Year Peter C. Hu Philip "Phil" Foulis

Past Awardees

Past Awardees

**Peter Hu, Ph.D., FACSc** has been a valuable member of ACS. He served as member of the Awards Committee (2011-2017), Credentials Committee (2011-2013), Nominating Committee (2014-2017), Chair of the Membership Committee (2014-2015), member of the Executive Committee (2014-2018), President (2015-2016), Past President's Council (2018-Present), and was the Program Committee Chair for the 2018 annual meeting in Houston, TX.



Dr. Peter Hu

**Dr. Hu** is currently the Associate Dean of Research and Strategic Initiatives in the School of Health

Professions (SHP) at The University of Texas MD Anderson Cancer Center, Houston, TX. He is also a Distinguished Teaching Professor with tenure and is the founding Director of the Molecular Genetic Technology and the Graduate Diagnostic Genetics Programs at MD Anderson. His research interests include cancer cytogenetics, tumor markers, and molecular diagnostics.

**Dr. Hu** holds three specialty clinical certifications in Molecular Biology, Cytogenetics, and Clinical Laboratory Science through the American Society for Clinical Pathology. He joined MD Anderson Cancer Center (MDACC) in 1995 and has worked in both clinical and academic environments. **Dr. Hu** has published a combined total of more than 300 abstracts, manuscripts, and book chapters. For his efforts, he has received 40 recognitions and awards and he is a member of The University of Texas Kenneth I. Shine Academy of Health Science Education.



Professionally, he has served as President, Board of Directors, and other key leadership positions for various professional societies including Association of Clinical Scientists, National Accrediting Agency for Clinical Laboratory Sciences, Association for Genetic Technologists, and American Society for Clinical Laboratory Science. In addition, he has served as a clinical laboratory science programs inspector for the past 20 years and has inspected clinical laboratory science programs throughout the country and abroad. He is internationally recognized for his consulting work in Cuba, China, Qatar, and his recent efforts in Africa through MD Anderson's Global Academic Programs. **Dr. Hu** regularly presents at state, national, and international conferences on topics ranging from clinical laboratory sciences to education.

**Philip R. Foulis, M.D., M.P.H., FACSc** is an anatomic and clinical pathologist with subspecialty certification in hematopathology and clinical informatics. He is a professor in the Department of Pathology and Cell Biology, Morsani College of Medicine with appointments in the Department of Internal Medicine and College of Public Health. He received his MD degree from McMaster University, Hamilton, Ontario, Canada, and a residency at the University of Pittsburgh, Pittsburgh, Pennsylvania. He later received a master's in public health in Epidemiology from the College of Public Health, University of South Florida, Tampa, Florida.



Dr. Phil Foulis

**Dr. Foulis'** practice is at the James A. Haley Veterans' Hospital in Tampa, Florida with an academic affiliation with the University of South Florida. Currently, a portion of his duties are as a member of the national deployment of a new electronic health record for the Veterans' Health Administration in conjunction with the Department of Defense. His clinical duties include cytopathology, hematopathology, and medical informatics. He also teaches medical students, residents, fellows, and undergraduate students. His research activities include residents, fellows, and graduate students with an emphasis on big data in the evaluation of clinical care.



**Dr. Foulis'** major academic and administrative interest has focused on informatics throughout his career. Currently, he is concentrating on human factors engineering, diagnostic error, and big data. He has published more than 290 presentations and publications. His research area of specialization emphasizes performance improvement in the clinical laboratory, large extant databases, text mining; knowledge discovery and natural language processing, human factors engineering, and lean principles. He is a member of local, regional, and national committees, intending to empower clinicians and patients to provide more effective, timely, and safe care. The goal of many of these endeavors emphasizes quality utilizing informatics. He is also active in the laboratory accreditation program of the College of American Pathologists.



## Gold-Headed Cane Award

### Nina Tatevian

Past Awardees

**Nina Tatevian, M.D., Ph.D., FACSc** is honored to be the recipient of the Association of Clinical Scientists (ACS) Gold-Headed Cane Award in 2025. **Dr. Tatevian** has a long history with the ACS, starting in 1997 when she, as a pathology resident at Brown University, first presented a paper at the Annual Meeting and shortly thereafter became a member of ACS.

Over the years she presented numerous papers on pediatric and perinatal pathology topics at annual ACS meetings. She served ACS as Vice President in 2005, President in 2006, chaired the Membership Committee in 2005-2007, was a member of the Scientific Council from 2003 to 2012, and has been a member of the Executive Committee since 2008.

However, the most significant contribution **Dr. Tatevian** made to the ACS was her relentless work as the Editor-in-Chief of the Association's journal, the *Annals of Clinical and Laboratory Science*. She started in 2011 and continued until June, 2024, when she became the Senior Associate Editor, passing the "torch" to the younger generation. **Dr. Tatevian** was awarded by ACS in 2012 with the "Diploma of Honor" and honored in 2016 with title "Clinical Scientist of the Year."

During her career she has worked as an Assistant Professor in the Pathology Department of Texas Children's Hospital (Baylor College of Medicine), then Associate Professor, and later Professor in the Pathology Department of the University of Texas McGovern Medical School at Houston.

**Nina** is now Professor of Pathology in the Warren Alpert School of Medicine of Brown University. She is a very well-respected clinician in the medical community. In addition to her very busy clinical practice, she mentors medical students, college students, residents, and fellows, earning numerous Teaching Excellence Awards. Many of her trainees graduated with prestigious fellowships and are now authorities in different pathology fields; **Dr. Tatevian** takes pride in her success!

Last, but not least, **Dr. Tatevian** is an active member of the Society for Pediatric Pathology, having served on multiple committees for many years, as well as on the Board of Directors for three years. Over the years she actively participated in multiple research projects, was a coinvestigator in numerous grants, published over 50 papers, and presented over 100 abstracts at national and international meetings. ❖



*Dr. Nina Tatevian*



## MEETING IN PROVIDENCE

### ACCOMMODATIONS

The hotel for the 2025 Annual Meeting is the historic Hotel Providence, Trademark Collection by Wyndham, 139 Mathewson Street, Providence, RI 02903 (telephone: 800 861-8990 or 401-861-8000).

Fusing European flair and New England charm, the non-smoking Hotel Providence, Trademark Collection by Wyndham provides a comfortable stay with a breakfast restaurant, gym, free WiFi, and event space. There is on-site parking, although fees may apply. The hotel's convenient downtown location is 12 miles from Rhode Island T.F. Green International Airport (PVD) and walking distance from shops and restaurants as well as the Rhode Island Convention Center. This landmark 4-star hotel is steeped in historic character dating back to the 19th century. Step inside old-world elegance and let the seasoned staff impress you with personalized service and meticulous attention to detail.

The Hotel Providence is passionate about providing stellar hospitality, and its personality comes through in all. Located in the heart of downtown Providence's vibrant theater district, culture and passion for the arts are reflected in everything the hotel offers. Vintage furnishing, art, and classic novels are sprinkled throughout the hotel. Retire to your sophisticated guestroom or suite fitted with oil paintings from world-renowned artists and sleep soundly amid the city. Perfect for business and leisure, Hotel Providence features superior guest amenities, including a fitness studio, business center, complimentary Wi-Fi, and versatile meeting and event spaces perfect for conferences or romantic Rhode Island weddings.

The contracted rate for the ACS Annual Meeting is an excellent \$199 plus tax (est. 15%) per night, single or double. The cut-off date for reservations is April 13, 2025, after which rooms in our block are not guaranteed to be available. [Reserve room here](#)

### TRANSPORTATION

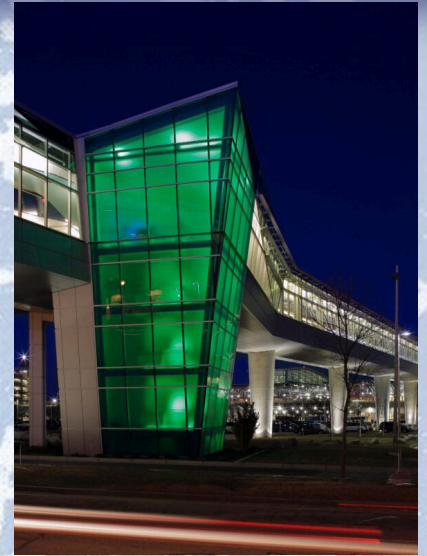
Providence, RI is served by the Rhode Island TF Green International Airport (PVD). PVD is served by nine airlines, including Allegiant, American, Delta, JetBlue, Southwest, Sun Country, and United.

The Hotel Providence is 9 to 11 miles (about 15-20 minutes) from PVD, depending on the route chosen. Rental cars are available, as are various shared shuttle services. Taxis cost \$29-40. One could even ride the Line 66 bus all the way in 21 minutes for \$2.00. PVD has a designated pick-up area for Lyft and Uber. ❖





*The Hotel Providence entry facade fuses European with New England charm*



*Rhode Island T. F. Green International Airport (PVD) is a top-ten Condé Nast Readers' Choice airport*



*Designer marble bathrooms*



*The elegant and exquisite Hotel Providence*



*Guest rooms are comfortable at the Hotel Providence*





# Preliminary Program

## 146<sup>th</sup> Meeting of the Association of Clinical Scientists, Providence, R.I.

Subject to change; all sessions are in Hotel Providence, Providence, Rhode Island, unless noted otherwise

### Thursday, May 15 (8:00 am - 5:00 pm)

#### Theme: Advances in Women's and Infants' Health

**Abraham J. Gitlitz Memorial Lecture**  
**Francois I. Luks**  
 The Warren Alpert School of Medicine of Brown University  
*Fetal lung development and the feasibility of endoscopic fetal surgery - creation of the Fetal Treatment Program at Brown University*

**Ramesha Papanna**  
 University of Texas at Houston  
 T.B.D.

**Methodius G. Tuuli**  
 The Warren Alpert School of Medicine of Brown University  
*Reducing morbidity from postpartum hypertension*

**Geralyn Messerlian**  
 The Warren Alpert School of Medicine of Brown University  
*Serum marker testing to predict preeclampsia*

**Jill L. Maron**  
 The Warren Alpert School of Medicine of Brown University  
*Optimal Use of Whole Genome Sequencing in Neonatal Critical Care in New England; What is the Neonatal Salivary Transcriptome Test? Salivary Diagnostics in the 21<sup>st</sup> Century*

**Melissa Russo**  
 The Warren Alpert School of Medicine of Brown University  
*cfDNA screening and other prenatal genetic tests*

**Jennifer Gass**  
 Women & Infants Hospital of Rhode Island, and Breast Health Center at Brown University  
*State of the Art Treatments of Breast Cancer in 2025*

**Kamaljeet Singh**  
 The Warren Alpert School of Medicine of Brown University  
 T.B.D.

**Cara Mathews**  
 The Warren Alpert School of Medicine of Brown University  
*Anti-Angiogenic Therapy in the Treatment of Ovarian Cancer: Agent-Specific Toxicity, Response and Resistance*

**MR Quddus**  
 The Warren Alpert School of Medicine of Brown University  
 T.B.D.

**M. John Hicks**  
 Baylor College of Medicine, University of Texas School of Dentistry, and Texas Children's Hospital, Houston, Texas  
*Role of Ultrastructure in Diagnosis of Pediatric Disorders: A Brief Review*

### Thursday, May 15 (8:00 am - 5:00 pm) - continued

#### Theme: Advances in Women's and Infants' Health

**Kyle Kurek**  
 University of Utah School of Medicine  
*Mosaicism & Masses - Spotlight on PTEN, PROS, & Beyond*

**Luncheon Seminar**  
**Amitava Dasgupta**  
 University of Kansas Medical School  
*Prescription or Poison: How the clinical laboratory can alert clinicians about potential toxicity of herbal medicines as well as clinically significant drug-herb interactions*

### Friday, May 16 (8:00 am - 11:00 am)

#### Theme: Therapeutic Approaches to Pathogens of Global Significance

Program hosted by Brown University Department of Pathology and Center for International Health Research

### Friday, May 16 (afternoon)

Cultural Tour to Newport, R.I.

### Friday, May 16 (evening)

Annual Awards Reception and Banquet  
**Banquet Speaker (tentative):**  
**Francois I. Luks**  
 The Warren Alpert School of Medicine of Brown University  
*The Art of Medical Illustration*

### Saturday, May 17 (8:00 am - 5:00 pm)

**Session Artificial Intelligence (AI) - tentative**  
**Session Hosted by Brown University Cancer Center - tentative**  
**Submitted Abstracts**

### Saturday, May 17 (evening)

Annual Musicale and Art Show, Grace Episcopal Church





△ Brown University from a birds-eye view and The Warren Alpert School of Medicine of Brown University







Views of Providence, the capital of Rhode Island. It's home to Brown University and the Rhode Island School of Design. Nearby, 18th- and 19th-century homes line the streets of College Hill. Waterplace Park is the backdrop for the WaterFire art installation, which lights up the surrounding tidal basin most nights in the summer and for special events



Grace Episcopal Church was built in downtown Providence in 1844. Designed by the foremost architect of the time, Richard Upjohn, it is on the National Register of Historic Places, the first asymmetrical Gothic Revival church in America. In 1912, another renowned architect, Ralph Adams Cram, designed the chancel. Centerbrook Architects designed the event space to the church in 2017, the venue for the Annual Meeting Musicale



Newport, the cultural tour for this year's Annual Meeting, is a city set on Aquidneck Island in Rhode Island. Its yacht-filled harbor hosted the America's Cup for many years, a renowned annual sailing regatta. Newport is also known for the Gilded Age mansions lining Bellevue Ave., some of which are museums. The most famous is The Breakers, an 1895 mansion patterned after a Renaissance palace Island



The historic Thames Street, Newport, Rhode Island, is one of the oldest continuously used streets in the state. It remains the primary street in downtown Newport and runs parallel along the waterfront



# Association of Clinical Scientists

Online Registration

Registration for 146<sup>th</sup> Meeting, Providence, Rhode Island, May 14-17, 2025

**ATTENDEE INFORMATION**

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ Degree(s) \_\_\_\_\_

Street Address \_\_\_\_\_ Institution(s) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Postal/Zip Code \_\_\_\_\_ Country \_\_\_\_\_

Telephone/Mobile Number \_\_\_\_\_ Fax Number \_\_\_\_\_ Email Address \_\_\_\_\_

Please record the number of persons attending for all No Charge items

Unit Price (\$ US)	Number of Persons	Amount Charged
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**Full Meeting Registration, Regular**

For all Fellows of the Association and non-members attending the full Meeting; includes luncheons, one banquet ticket and continuing education credits, if desired.

\$500	x _____	= _____
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**Full Meeting Registration, Emeritus, Associate Fellows & Trainees and Invited Speakers Attending Full Meeting**

For all Emeritus or Associate Fellows of the Association and all trainees, residents and Fellows and invited speakers attending the full Meeting; includes luncheons, one banquet ticket and CE/CME, if desired.

\$200	x _____	= _____
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**Meeting Registration, Complimentary – day of invited lecture**

Invited speakers **only** attending the Meeting for the day of their lecture on Thursday, May 15— includes luncheon, but **excludes** Banquet.

No Charge	_____	<u>No Charge</u>
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**Single Day Registration**

For either Thursday or Saturday; includes luncheon, and continuing education credits, if desired.

\$200	x _____	= _____
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**Thursday, May 15**

**Luncheon Seminar**

Open to all meeting registrants. Indicate number attending for headcount.

No Charge	_____	<u>No Charge</u>
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**Welcome Reception–Evening**

Open to all meeting registrants and accompanying persons. Indicate number attending for headcount.

No Charge	_____	<u>No Charge</u>
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**Friday, May 16**

**Cultural Tour to Newport, Rhode Island**

Includes bus transportation and lunch

\$60	x _____	= _____
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**Extra Tickets to Annual Awards Banquet and Reception**

\$95	x _____	= _____
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**Saturday, May 17**

**Luncheon & Presentation of Travel Grant Awards**

Reserved seating for all young scientists, age 45 and under; included with full or single day registration. Please indicate number attending for headcount.

No Charge	_____	<u>No Charge</u>
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**Musicale with Wine and Hors d'oeuvres Intermission**

Complimentary for all attendees—please indicate number attending for headcount estimation.

No Charge	_____	<u>No Charge</u>
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**Include Renewal of Dues - Fellows**

\$250	x _____	= _____
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**Include Renewal of Dues - Associate Fellows**

\$50	x _____	= _____
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For Payment Options,  
see next page

**Total Payment Enclosed** \_\_\_\_\_



# Association of Clinical Scientists

Registration for 146th Meeting, Providence, Rhode Island, May 14-17, 2025

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## PAYMENT OPTIONS

Cancellation with full refund will be accepted until **May 7, 2025**.

1. Register securely online: [Online Registration](#) or
2. Complete and mail this form (**print both pages 09-10 of form**) with a check, payable to Association of Clinical Scientists, or with credit card information, to Association of Clinical Scientists, 6431 Fannin Street, MSB2.292, Houston, TX 77030
3. To charge using American Express, Visa, or MasterCard, call the ACS office at (713) 500-5381, Mon–Fri, 8:00 a.m.–5:00 p.m. Central Time. You may also fax this form with your credit card information to our secure Fax at (713) 500-0732.

## CREDIT CARD INFORMATION

**Credit card type**  
(check only one)  Visa  MasterCard  American Express

**Card number** \_\_\_\_\_

**Expiration (mo/yr)** \_\_\_\_\_ **Security Code (CVV) No.** \_\_\_\_\_

**Name on the card** \_\_\_\_\_

**Billing Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State (Province)** \_\_\_\_\_

**Country** \_\_\_\_\_ **Postal (Zip) Code** \_\_\_\_\_

**Signature** \_\_\_\_\_





# President's Corner

Greetings and Happy New Year! It is my honor to update you on important positive happenings in the Association of Clinical Scientists (ACS) for 2025 and reflect on highlights from 2024.

## Annual Meeting:

The Association of Clinical Scientists will hold its 2025 Annual Meeting (146th ACS meeting overall) **May 14-17 in Providence, Rhode Island.**

Hosted by Brown University, the Program Committee's Chair, **Nina Tatevian, MD, PhD, FACSc**,

has announced that the program will include two major themes; *Advances in Women's and Infants' Health* and *Therapeutic Approaches to Pathogens of Global Significance*. In addition, the Brown Cancer Center will sponsor the Saturday morning session. The Saturday program will mostly consist of submitted abstracts from ACS members, residents, fellows, and colleagues. The venue promises to be outstanding at the historic Hotel Providence, Trademark Collection by Wyndham. The Friday afternoon tour will visit Newport and the Musicale and Art Show will be held at the beautiful Grace Episcopal Church. More detailed information about the program can be seen in other sections of this newsletter as well as on the ACS website.

## Abstracts for 2025 Annual Meeting and Awards Opportunity:

We are accepting abstracts for the annual meeting with a deadline for submission of **midnight Sunday, February 16, 2025**; attendees will have the option of giving an oral presentation or a poster format. We are pleased to announce that the Executive Committee voted to **increase the number of travel grants from three to five** that will be awarded to individuals, age 45 or under, based on the quality of their submitted abstract. Please encourage your trainees to submit



Dr. Shuko Harada

their research or a case report. I look forward to seeing increasing number of abstract submission and active discussion at the annual meeting!

## New for ACS:

We are happy to announce that the Executive Committee voted to not increase the membership dues, they remain \$250 for Fellows and \$50 for Associate Fellows. We are actively posting our news to social media, LinkedIn and "X" (@ACS\_scientists). I encourage all of you to follow this account.

## Annals of Clinical & Laboratory Science ("The Journal"):

The journal now has a new and improved website. Please visit <http://www.annclinlabsci.org/>. We started charging a manuscript submission fee of \$40 to non-ACS members a year ago. We saw a temporary decrease of the number of submissions; however, it seems submissions have stabilized recently with higher quality manuscripts. I would like to encourage all ACS members to submit your research to the journal.

## Dr. Frederick L. "Fritz" Kiechle, MD, PhD.:

It is with great sorrow that **Frederick L. "Fritz" Kiechle, MD, PhD** passed on July 30, 2024. **Fritz** had been a member of the ACS since 1989, served as President in 1999 and, most recently, was honored with the Gold Headed Cane Award at the ACS Annual Meeting in Rochester, MN in 2023. He also received the Clinical Scientist of the Year Award in 1996 and the Association's Diploma of Honor in 2006. He was a prolific scientist and very supportive of the mission of the Association. We also remember **Fritz** as an outstanding jazz piano player.

Wishing 2025 being a wonderful year for all ACS members.

If you have any comments, concerns or ideas you can contact me at [sharada@uabmc.edu](mailto:sharada@uabmc.edu).

Sincerely,

**Shuko Harada, M.D.**  
President (2024-2025)



# Call for Abstracts

You are invited to submit an abstract for presentation at the Annual Meeting, May 14-17, in Providence, RI.

Detailed instructions for submission of abstracts can be found on the Association's website here: [Abstract Instructions](#). Both the CAP and ACCENT disclosure forms must be submitted or the abstract will be returned.

The deadline for receipt of abstracts is 12:00 am (midnight) Sunday, February 16, 2025.

Abstracts and financial disclosures should be emailed together in a single email to **Nina Tatevian** [NTatevian@wihri.org](mailto:NTatevian@wihri.org).

**NOTE:** The email subject line should say: "2025 ACS Abstract Submission."





# Young Fellows Section

Dear Readers,

We are thrilled to extend a warm greeting to all current and future members of our Young Fellows Section. Your presence here signifies a shared commitment to fostering professional growth, forging meaningful connections, and driving innovation in the realm of networking and career advancement.



*Dr. Jessica Claus*

Our Young Fellows Section Committee serves as a dynamic platform for individuals from diverse backgrounds and expertise to collaborate, exchange insights, cultivate lasting relationships and create pathways for personal and career development. Early-career fellows receive the opportunity to network with other professionals in the field, give presentations, receive awards at our annual meetings and mentorship from more experienced members. To that end, we encourage young fellows to submit cases and review articles or original research manuscripts for publication to the Annals of Clinical and Laboratory Sciences, the journal of ACS. The editorial board is also encouraging trainees to serve as reviewers for the journal, wherein you can be paired with senior reviewers to receive hands-on guidance in the reviewing process.

The association looks forward to working with you all more in the coming months and years. For further information and questions, please do not hesitate to reach out to us in the meantime and we are looking forward to seeing you soon!

Note: The Young Fellows Section will be holding a social event during our upcoming 2025 Annual Meeting in Providence, Rhode Island. This will be a great opportunity to meet up with your peers and members of the association to build networks and to get involved in the association. Further information will be provided closer to the conference.

Sincerely,

**Jessica Claus, M.D.**

Young Fellows Section Committee Chair

email: [jessica\\_claus1@brown.edu](mailto:jessica_claus1@brown.edu)



*Young Fellows gathered for dinner in Jacksonville, Florida, April 2024.*

## **Be Active Now! Submit Trivia Question**

*Challenge your peers! Challenge the old-timers!*

*Submit a clinical laboratory science trivia question!*

*See this edition's trivia here* [Newsletter Trivia Question](#)

*Email question to:* [Mustafa.Barbhuiya@baystatehealth.org](mailto:Mustafa.Barbhuiya@baystatehealth.org)

# ACS Announces Additional Travel Grants

The Association of Clinical Scientists Executive Committee has voted to increase from three to five the maximum number of Travel Grants that can be awarded each year to young scientists, ages 45 or younger, to attend the Annual Meeting. Each grant consists of \$2000 that can be applied toward all travel costs (transportation, lodging, meals, registration, and miscellaneous expenses) to attend the Annual Meeting.

The grants will be chosen based on the quality of the submitted abstracts. The additional abstracts can be awarded to either ACS members or non-members. Full details can be found on the ACS website here: [Annual Meeting Travel Grants](#).





# Senior Fellow Biography: Dr. John Savory

## Editor's Note:

**John Savory, B.Sc., Ph.D., DABCC** served as Vice President of the Association of Clinical Scientists in 1975 and President in 1976. He was the recipient of the Clinical Scientist of the Year Award in 1977 and the Gold Headed Cane Award in 2013. Although this biography is not in the usual interview format used in our newsletters, **Dr. Savory's** autobiography is so well written that we are publishing it verbatim with only minor edits.

My home is in Keswick, Virginia and my association is with the University of Virginia. I live in a lovely rural community in the foothills of the Blue Ridge Mountains some eight miles from Charlottesville. I am retired as Professor Emeritus of Pathology, Biochemistry and Molecular Genetics at the University of Virginia. I have few remaining academic activities, but still review the occasional paper and grant submission. I live with **Gerry (Geraldine)**, my wife of forty-seven years, on a property of some one hundred and ten acres which we share with two Irish Setters, a young Rhodesian Ridgeback and two cats.

I was born on April 4, 1936 at the home of my parents who had a small bakery and confectionery business in the County of Lancashire in Northwest England.

Although I have spent most of my professional life working in various hospital and medical centers, I did not start life in a hospital; I was born at twelve noon in the front upstairs bedroom of our house directly above my parents' shop which apparently was busy with customers when my first cries could be heard. I come from a small family with only one sibling, a sister. Like most of my contemporaries, my family was "working class" for whom life had been harsh with few luxuries and minimal educational possibilities. I was brought up with the harsh realities of war. Few of our families had escaped some devastating loss of a close relative or friend in the Great War of 1914–18 and my first memories were of air raids, news of the Second World War and of rationing. I was the first in my immediate family to have any formal education beyond the age of fourteen.

My extended education attests to the incredible benefits of the introduction by the British Government of the 1944 Education Act of free secondary education for all. Without such support, considering the financial constraints of most households in the North of England at that time, an extended secondary and university education would have been impossible. Even with governmental support there was always some financial burden for the families. The fact that the child would not be bringing a wage into the family at age fourteen constituted some loss of income. In my own family, the continuation of a secondary education for my older sister was not even considered, despite the fact that she had excelled in her primary education. I was given preference in that I was a boy and it was deemed more important for me to have the opportunity for a better education. All of this seems unfair by present standards but was commonplace, certainly in the North of England, when I was a youngster. Certainly,



*Dr. John Savory*

some of the highlights of the socialist influence on the British Government were to provide such an opportunity for all children, another being the establishment of a National Health Service. When I left Britain in 1961, I had not met a soul who had negative views of the nationalized health system. There are criticisms nowadays, but at least health care is affordable for all, unlike what is the case in the USA.

A most memorable and important experience in my early years was the eleven plus examination. It was this examination taken at age 10 or 11 where one made the "cut" which could make higher education possible. Failure at this time of my life probably would have doomed me to a uninspiring career. I did make the cut. Out of a class of over 30 students only three of us made it; two girls and me. By making the cut I was eligible to proceed to Grammar School which was the only route for me to eventually enter university. Academically, my years at the Grammar School did not bring me any real distinction. I managed to muddle through but was held back by my struggles with mathematics and a less-than-optimal work ethic. It was not until my second year at university that I finally "figured out" how to study and obtain results. I did manage to safely get past the next hurdle at age 15 or 16 by passing a national test ("O" levels) in seven

*continued on page 14*



# Senior Fellow Biography: Dr. John Savory (continued)

*continued from page 13*

subjects. I considered leaving school at that time. I thought of becoming an accountant - a dumb idea for someone as inept as I was with figures. I even thought of joining the Royal Navy, but the idea of having minimal access to playing cricket made this career less attractive. Yes, my priority at this time was to play cricket and eventually become a cricket professional. I was fairly good at this sport but thankfully, in retrospect, I was not good enough.

At school I kept “making the cut” and entered my last couple of years in Grammar School studying chemistry, mathematics and physics. At that time, I decided on a career as a chemistry teacher, hopefully in a school that would give me plenty of time in the summer to play cricket. Thus, University was my next step. My focus on cricket and not academics ruled out Oxford or Cambridge, but at the last minute, I applied to Durham University and obtained a place in St. Cuthbert’s Society which is one of the Durham Colleges.



*St. Cuthbert's Society, Durham University, Durham, England*

Durham University proved to be an ideal choice for me. It was very small when I first arrived with just over 1,100 students and a primary focus on religious training. However, it had a good chemistry department with an active professor and an excellent young faculty. I probably would have been lost in a larger group of students. At first, I suffered from the same problems as at the Grammar School in that I still had not quite acquired a steady discipline for studying. I did manage to get through the first year, overcoming these obstacles, and I was able to progress into the honors chemistry program; what a relief not to have to study mathematics any more. After my first year I at last attained a good work ethic and was able to compete academically.

My goal during most of my time as an undergraduate was to become a teacher of chemistry at the Grammar School level. It was in my third year of the honors chemistry program at Durham that I first got a taste for research. I spent some time, primarily intended for recreational activities, in a research laboratory. I worked on a synthetic organic chemistry project to synthesize an organo-tin compound (tri cyclohexyl tin—I think). I was instantly absorbed in research and, at the back of my mind, I started to consider a career in research. Such a career would, of course, require a good degree. I had a serious setback a few weeks before my final examinations. I had been studying diligently and was becoming well prepared for the examinations. However, I started to feel ill and was diagnosed with hepatitis (probably hepatitis A). My doctor told me that it would be impossible for me to take my finals and I should be resigned to a referred pass degree, a “nothing” degree that would not be of much help to my future career. I remember the bitter disappointment when I received this news in the doctor’s office and the shock made me violently ill. Despite feeling really sick I still

studied a little and eventually felt that I might be able to take my finals after all. I just managed to take the examinations and obtained a good enough degree (second class, division 1) to allow me to progress to graduate school. Needless to say, I was delighted with this result since my liver disease had made me really ill in the few weeks prior to finals. I do not know if the system in the United Kingdom is still the same at the present time, allowing only one chance to take the final examinations with everything hinging on the result. It certainly was, and perhaps still is an imperfect system which could have denied me a career as a research scientist.

My life in graduate school was fascinating and I had really caught the “research bug”. I had a choice of working in a physical chemistry laboratory, but I chose organic fluorine chemistry, and still have some scars to prove it. Many of the fluorine chemistry reactions that I studied employed hazardous compounds and I had a couple of nasty explosions. I had one explosion that left me wrapped in bandages. On the evening when this occurred, I was to be confirmed into the Church of England by the Bishop of Durham, **Arthur Michael Ramsey** who became the Archbishop of York and later of Canterbury. **Bishop Ramsey** clucked sympathetically at my plight.



*Arthur Michael Ramsey in 1974*

In the research laboratory I learned the art of glass blowing which was essential since I used high vacuum systems for purifying my reaction products. I built gas chromatographs, a technique still in its infancy with no commercial instrumentation available in the United Kingdom. My first laboratory looked like a scene from Dante’s Inferno with glassware, autoclaves, rust etc. I did have the interesting experience in this laboratory of meeting **Dr. Frederick Sanger**, twice a Nobel Laureate. **Dr. Sanger** was visiting our department to present a lecture on his work on the amino acid sequence of insulin. He was waiting just outside of my laboratory to meet our department chairman; I did not recognize him but asked him to have a cup of tea with me. He was a modest man of exceptional intellect. His work on the sequence of insulin and his further similar work on DNA are true scientific landmarks. I worked most evenings and Saturday mornings; my research advisor told me that to become a successful scientist I would need to work 15 hours per day. One thing I discovered about myself was that I had the ability to multitask and could keep several experiments going at the same time. My research productivity was fairly



*Frederick Sanger*

*continued on page 15*



# Senior Fellow Biography: Dr. John Savory (continued)

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good and I was able to publish four papers and obtain one patent during my years in graduate school. I wrote and defended my thesis in less than three years and was ready for the next phase of my life. At that time, it was traditional to spend a couple of years in a research laboratory in the United States in order to complete one's research experience. I followed this trend and applied to two laboratories in the States, the University of Florida and Cornell. I decided on the University of Florida and set sail for the land of hamburgers, baseball and chewing gum on August 5, 1961. At that time, one still had the choice to travel by air or by ship. I decided to travel on a freighter, which was a great way to cross the Atlantic. There were only a dozen passengers and the food (and drink) was excellent. The trip was on the S.S. Manchester Trader sailing from Glasgow to Miami and then on to Jacksonville, Florida. The journey took a couple of weeks and during this time the Berlin Wall was built. It was all very exciting.



*S.S. Manchester Trader*

My postdoctoral work at the University of Florida was essentially the same as my graduate studies and did not add much to my skills except that I added a few more publications. At this time, I realized that opportunities as a scientist in the United States were much better than in the United Kingdom and of course salaries were much more lucrative. I really became part of the "brain drain;" Perhaps I should have felt some guilt at obtaining all my education in England free of charge, and then leaving for a foreign country. I had one uncle who thought this was wrong, although he never directly told me so. Perhaps the fact that in later years I have had British students in my laboratory, collaborated with British scientists and worked on some projects that could contribute to alleviating some health issues in the United Kingdom, has offset this brain drain issue. Anyway, I decided to stay here in the good old USA on a permanent basis. I got a position as a research chemist for Chemstrand, a division of Monsanto. The location was the Research Triangle Park in North Carolina. Chemstrand was the first company to establish a research facility at that location. My area of research was polymer chemistry which did not inspire me, and I immediately decided to "give it a go" for a year and then look for something I found more interesting.

Then a miracle happened, at least in retrospect it seemed like a miracle to the development of my career. It was in the Fall of 1963. I was eating my brown bag lunch at Chemstrand and reading the latest weekly issue of Chemistry and Engineering News when I came across an article discussing the controversy between Clinical Chemists and Pathologists as to who should control Clinical Chemistry Laboratories. Up until that time I had not even heard of

Clinical Chemistry, but something about this discussion of the subject got me interested, thinking that this might be a good fit for me. An accompanying article was written by **Dr. Alex Kaplan**, a Clinical Chemist at the University of Washington in Seattle, who had just received NIH funding to establish a training program for aspiring Clinical Chemists. I was so intrigued with the field of Clinical Chemistry despite not knowing what a Clinical Chemist did and never having seen a laboratory, that I immediately applied for a slot in **Dr. Kaplan's** training program. After I had submitted my application, I managed to arrange a meeting with the newly hired Clinical Chemist at the University of North Carolina teaching hospital in Chapel Hill. He was not encouraging about me making this career change and pointed out that salaries were much less than my present position and he did not have much enthusiasm about the future of Clinical Chemistry. It did not make any difference to my gut feeling about making a career change and I was accepted as **Dr. Kaplan's** first trainee, probably the first formally trained Clinical Chemist in the country. Twelve months to the day from when I started working at Chemstrand, I was on my way driving across country to Seattle.

The two years I spent in **Alex Kaplan's** laboratory were wonderful. I knew immediately that I had made the right choice to change fields from organic chemistry to clinical chemistry. I started out my training when clinical chemistry testing was totally manual with test tubes, mouth pipetting, etc. and ended up with the introduction of automation. **Dr. Kaplan** had chosen an instrument known as the Robot Chemist for his first automated analyzer, but unfortunately, the engineering was not up to its later standards and did not have the necessary reliability. Continuous flow automation was starting to dominate and proved to be the technique of choice for many years, primarily due to its relative simplicity. My first years involved mastering all approaches to automation and provided me with lots of opportunities for research and subsequent publications. I owe **Dr. Alex Kaplan** a deep debt of gratitude for having the foresight to establish a training program and for his kindness and interest in my career. In turn I was able to establish my own training program and many of my trainees have had distinguished careers in Clinical Chemistry. My two years in Seattle had other pleasant memories. I found that there was a Seattle Cricket Club which I immediately joined and ended up being captain and led the team to the championship of the top division of the Vancouver Cricket League. I had success on the field of play being top of the League batting averages. I also represented the United States at this sport where I had further success.



*Dr. Alex Kaplan*

Also, in Seattle I developed what became a lifelong passion of breeding and showing Irish Setters, an activity which I still continue to pursue despite my advancing years. All good things eventually end and I had to get a real job. I looked at clinical chemistry positions at Duke University and my old stomping ground of the University of Florida; I chose the latter which was fortuitous since **Bill Sunderman Jr.** was head of laboratories and we immediately "hit it off". This association with Bill was, of course, my introduction to our beloved Association of Clinical Scientists. Along with **Alex Kaplan**, Bill was my key mentor in Clinical Chemistry. His advice to me was to get into the laboratory and publish. He assured me that this would be my best insurance policy. Bill introduced me to the field of metal toxicology which has played a central role in my research career. Something must have worked, since I went from the lowest academic rank of Instructor to Assistant Professor in one year and to Associate Professor with tenure

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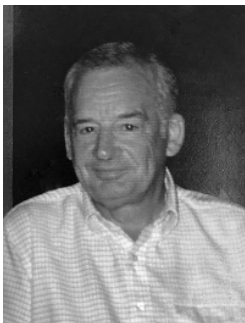


# Senior Fellow Biography: Dr. John Savory (continued)

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three years later. At this time **Bill Sunderman** climbed another step in the academic ladder and moved to the newly formed Medical School at the University of Connecticut in Farmington as Chair of Laboratory Medicine. He wanted me to join him and it was a close call, but I decided to "go it alone" and I stayed in Florida. Bill continued to support me throughout my career and I owe him a deep debt of gratitude.

I eventually did move and went back to another "old stomping ground" of North Carolina where I took over the leadership of Clinical Chemistry at the North Carolina Memorial Hospital in Chapel Hill. The Laboratory there was in dire need of change which I made, perhaps initially to the dismay of some of the old staff. I established a training program which was the largest I had in my career and a whole line of Florida graduates came north to learn Clinical Chemistry. The focus and support of research which was so important under **Bill Sunderman's** direction in Florida did not exist in North Carolina and I was not particularly happy. It was a relief for me to make my last move in 1977 to the University of Virginia. It was here in Charlottesville that I have spent the last half of my life and where my career was able to flourish under the leadership of **Dr. Michael Wills**, a fellow Englishman. Mike and I co-authored more than 125 papers, primarily focusing on aluminum toxicity. This led me to the final big decision to move my research into the direction of



*Dr. Michael Wills*

neuroscience. My own department never really accepted me as a neuroscientist as was the case with most of my colleagues, but it was what I craved for and I was able to attain good funding. I worked on an animal model system, the rabbit, which is more akin to primates than rodents. Perhaps my old cricketing skills with good hand/eye coordination helped me. I could inject toxins into rabbit brain with minimal trauma and also obtain autopsy brain tissue better than most researchers. I once demonstrated my techniques to a large neurosurgery department in Saudi Arabia. At the present time I rarely get asked to review publications or grants in laboratory medicine but requests for this service come to me on a regular basis in the field of neuroscience particularly Alzheimer's disease.

My dedication to Clinical Chemistry continued for over a quarter of a century at the University of Virginia and was made most pleasant by wonderful relationships with two colleagues who joined the faculty directly from their residencies at Washington University in St. Louis. These two physician scientists, **Dave Bruns** and **Jim Boyd**, became close colleagues for over a quarter of a century. We were able to keep our operation at the forefront of technology for many, many years. Our successes were helped immensely by us never having serious disagreements. Jim and I were able to develop ideas and sort out our differences while running around the University of Virginia Grounds. We invented the RALS system for monitoring laboratory test results on one such run. I was asked a couple of times to put my name forward for the presidency of the American Association for Clinical Chemistry. I did serve on the Board of Directors but felt that both me and our laboratory would be best served if I declined and supported the younger



*Dr. Wm. Sunderman, Jr.*

and aspiring faculty. Both **Dave Bruns** and **Jim Boyd** then developed their second careers as Editor and Associate Editor of the Journal Clinical Chemistry, an endeavor which was extremely successful and contributed so very much to our field. I feel a great deal of pride in their respective contributions to our field.

The Association of Clinical Scientists has played a significant role in my career development. Obviously, my membership and involvement were initiated by **Bill Sunderman Jr.** I first met **Bill Sunderman Sr.** in 1966. He became a dear friend and mentor. He was always encouraging and a delightful person. He had great advice on how to develop one's speaking skills and organize a presentation. He played the violin beautifully, especially on the occasion of his 100th birthday. **Bill Sunderman** could tell a joke wonderfully well which always ended with him having a deep chuckle. The Association helped me to develop more self-confidence in my oral presentations; there was always someone in the membership who gave me encouragement. **Claude Brown** was one such person and his compliments were always appreciated. My administrative skills were helped immensely by the Association and I served as President for a term and ended up with a gold headed cane with the gold head being the head of an Irish Setter—this is one of my most treasured possessions. I learned a great deal about organizing conferences from the two **Sundermans** and I hosted at least a couple of the Association Meetings. My wife Gerry always played a key role in hosting the meetings. As a scientist she presented many workshops and later was the President of the Ladies Auxiliary.



*John and "Murrum"*

For career development it is important to be involved in national and international organizations. However, beware not to make this a number one priority. Home base is always the most important. **Bill Sunderman Jr.** obviously got me involved in the Association right from the beginning; later he also promoted my involvement in the International Union of Pure and Applied Chemistry (IUPAC). Our involvement was the Commission on Toxicology and we organized a few excellent conferences. One was the first Conference ever held on Doping in Sport which I co-organized in Yugoslavia. These international and other national conferences certainly promoted my own career and hopefully contributed to the development of our scientific discipline.

I offer a couple of pieces of advice to anyone entering the field of Clinical Chemistry/Laboratory Medicine. In such a stressful profession you will occasionally have altercations with other health care professionals within your system. Resolve these issues with a one-on-one confrontation. Don't put anything in writing unless there is no other option. Things can turn really nasty if written copies get sent to hospital administrators, department chairs, deans etc. Finally, and most importantly, put the patient first. Remember, you or a loved one probably will be a patient one of these days. Don't look for the big bucks, but look for the big contributions to the health of your fellow human beings. Early in my own career I turned down a highly lucrative offer with major financial gain in order to continue an academic career. I have no regrets with my decision. I consider myself to be extremely lucky to have had a fascinating career with the satisfaction of having helped the sick and the injured.

**John Savory**





# In Memoriam: Dr. Frederick “Fritz” Kiechle

## Frederick L. Kiechle, MD, PhD (1946-2024)

The Association of Clinical Scientists regrets to report the passing on July 30, 2024 of **Frederick L. “Fritz” Kiechle, MD, PhD** at age 78. Dr. Kiechle was a highly regarded pathologist and clinical scientist who had been a Fellow of the Association of Clinical Scientists (ACS) since 1989. He served ACS as President in 1999; hosted the 125th Association meeting held in Troy, MI in 2005; and was the recipient of the Association’s Gold Headed Cane Award in 2023 at the Annual Meeting in Rochester, MN. Previously, **Dr. Kiechle** received the ACS Diploma of Honor in 2006 and the Clinical Scientist of the Year Award in 1996. **Dr. Kiechle** presented papers at ACS Annual Meetings nearly every year, the most recent being in 2023 when he gave a talk on “Dengue Fever in Three Countries and Associated Seroprevalence of Chikungunya and West Nile Virus.” He was a prolific scientist and researcher and, among his 181 publications, 14 were in the *Annals of Clinical and Laboratory Science*. Even more than his scientific and leadership contributions to ACS, **Fritz** was perhaps even better known for playing jazz piano at the Association’s annual Musicales, including playing for his grandchildren at the Association’s 2023 meeting in Rochester, MN.

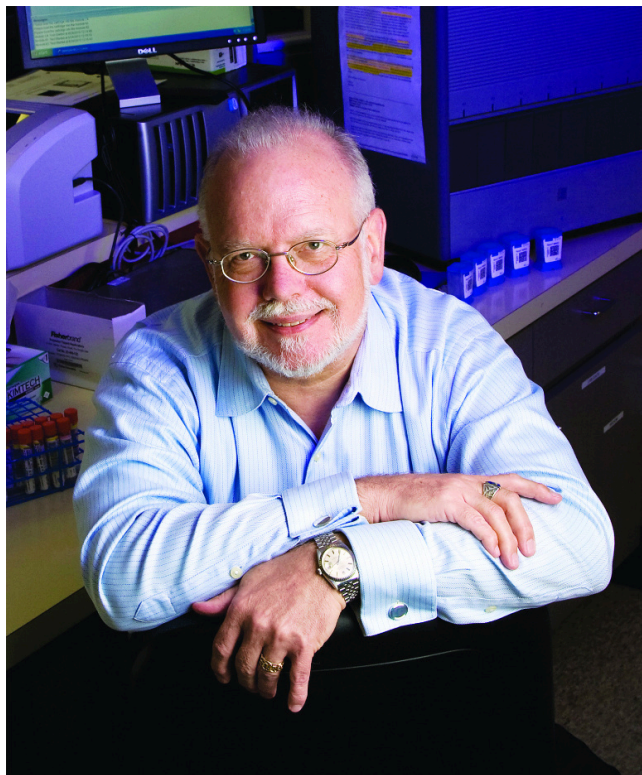
The Association of Clinical Scientists will greatly miss **Fritz Kiechle** —both for his scientific contributions and for his jazz piano at our annual Musicales. He was always the final act at the annual meeting, entertaining us, leading sing-alongs, and telling stories. We will miss his dry wit, his talents, and his never-ending quest for excellence in laboratory medicine.

A more complete obituary was published in the *Annals of Clinical and Laboratory Science*, Vol. 54, November-December, 2024.

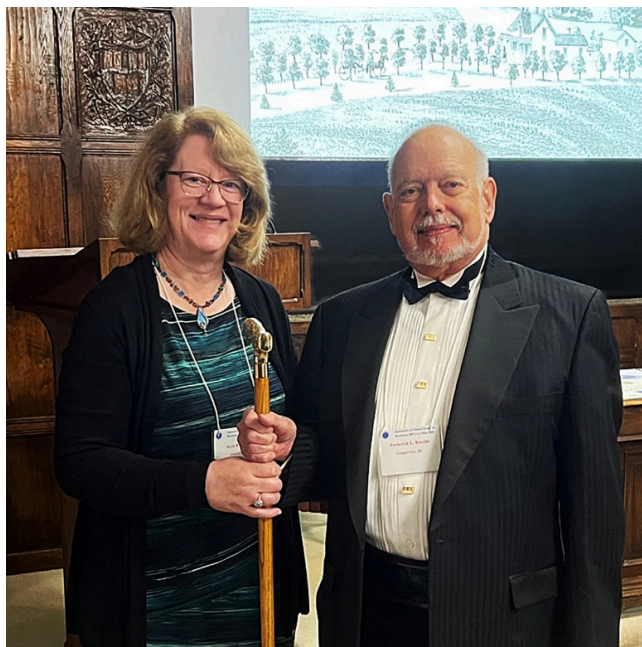
**Charles D. Hawker, PhD, MBA**  
Executive Director, ACS



Fritz Kiechle playing jazz piano at an Association Musicales



Dr. Frederick “Fritz” Kiechle





Dr. Kiechle accepting the Gold-Headed Cane Award from Dr. Myra Wilkerson in 2023



# The Grapevine

## FELLOW IN THE SPOTLIGHT

**Dr. Mustafa Barbhuiya**, a Fellow of the Association of Clinical Scientists, was listed in [The Pathologist Power List 2024](#).

Click the button above  or the snippet image at the right to read more. 

## NEW FELLOWS

**David Berger, MD**  
Assistant Professor  
Baylor College of Medicine  
Department of Pathology & Immunology  
The Woodlands, TX

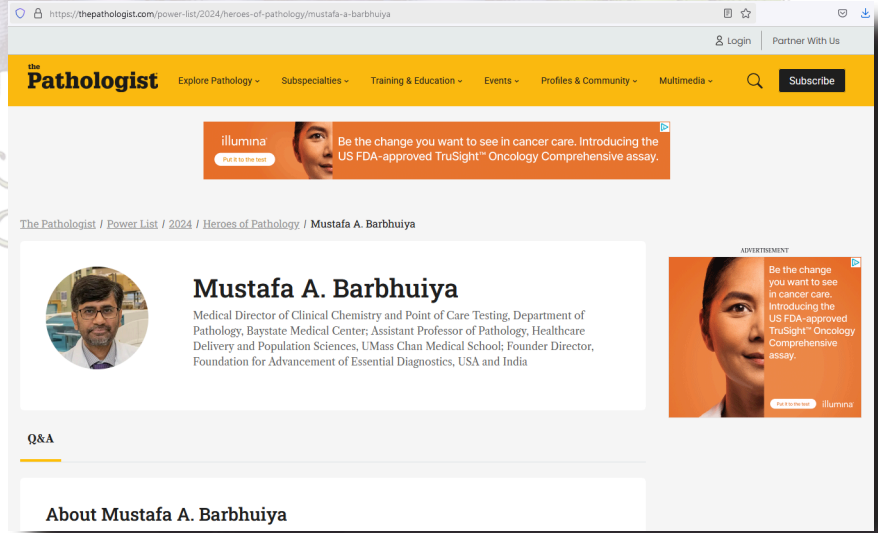
## WHAT IS NEW WITH YOU? NEW RESEARCH? AWARDS OR PROMOTION?

**We would like to know more!**

Please send your news of job changes, transfers, promotions, awards—or something about that interesting research project you are working on—to:

**Mustafa Barbhuiya, Ph.D.**, Newsletter Editor, at:  
[mustafa.barbhuiya@baystatehealth.org](mailto:mustafa.barbhuiya@baystatehealth.org)

 **click now!**



"No, I said my name is Dr. Gofman. G as in glucose, O as in ornithine, F as in Ferritin, M as in Methionine, A as in acetylcholinesterase, N as in nitrogen."

## Newsletter Trivia Question

Edited by Mustafa Barbhuiya, Ph.D., FACSc (interim)

If you would like to serve in this capacity as Newsletter Trivia Editor (ideal for a Young Fellow), ACS would be delighted. Utilize your knowledge of clinical lab science! Simple Q/A or multiple choice. Email me!

The first person to email the correct answer to the current question will have their name mentioned in the following newsletter. You will be satisfied you won! Please email your answer and a new question to:

[mustafa.barbhuiya@baystatehealth.org](mailto:mustafa.barbhuiya@baystatehealth.org)

### Previous Question (submitted by Mustafa Barbhuiya)

A 36 year-old woman with centripetal obesity, hypertension, stria, diabetes, and osteoporosis is evaluated:

Based on the lab data, what is the most likely diagnosis?

- A. Cortisol-producing adrenal tumor
- B. Incidentaloma
- C. Bilateral adrenal hyperplasia
- D. Cushing disease
- E. Ectopic ACTH

Test	Patient Result	Reference Range
AM K+	↓ 3.3 meq/L	3.5–5.0 meq/L
AM Aldosterone (supine)	12 ng/dL	2–22 ng/dL
AM Renin (supine)	1.2 ng/mL/hr	0.2–1.6 ng/mL/hr
AM Cortisol	↑ 36 ug/dL	7–25 ug/dL
Cortisol after 1 mg Dexamethasone the previous evening	↑ 13 mcg/dL	<5 mcg/dL
ACTH	↓ <10 pg/mL	10–85 pg/mL
Urine metanephrine (total)	159 mcg/day	74–297 mcg/day
Dehydroepiandrosterone	700 ng/dL	130–980 ng/dL
Androstenedione	198 ng/dL	82–275 ng/dL

### Answer (No one submitted—really?)

- A. Cortisol-producing adrenal tumor

### Current Question (submitted by Mustafa Barbhuiya)

A Type 1 glycogen storage disease results from a deficiency of glucose-6-phosphatase. This enzyme normally converts glucose-6-phosphate to glucose that can then exit the hepatocyte.

Why does hypoglycemia develop with fasting in type 1 glycogen storage disease?

- A. Inability to release glucose from the liver
- B. Glycogenolysis is impaired
- C. There is a deficiency of cortisol and growth hormone
- D. There is a deficiency of epinephrine and glucagon
- E. Hyperinsulinism develops in type 1 glycogen storage disease

### Answer

The answer will appear in the next *Clinical Science Trumpet*. The person submitting the first correct answer may submit a new trivia question. Email your answer and question to me.



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## Clinical Science Trumpet

Newsletter of the Association of Clinical Scientists

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Announcements, commentaries, and news/photos of members are welcome. Please send to the Editor at: [mustafa.barbhuiya@baystatehealth.org](mailto:mustafa.barbhuiya@baystatehealth.org).

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Association of Clinical Scientists  
Mustafa A. Barbhuiya, PhD  
Charles D. Hawker, PhD, MBA, FACSc  
Michael Hawker, MARCH, MS, AIA, ACA (Adobe Certified)