Science Communication & Outreach Career Symposium
September 18-19, 2015

#SCOCS2015
Thank you for attending our inaugural Science Communication and Outreach Career Symposium. I am truly grateful for the immense support that has taken an idea and turned it into a reality. The success of this symposium is proof that great things happen when we build strong collaborations with colleagues both inside and outside of the lab.

A special thanks to my collaborators and colleagues, the ASBMB Public Outreach Committee. I encourage attendee to use this forum to build new collaborations and grow their network of colleagues.

Best,
Teresa Evans
Director, Office of Career Development
Graduate School of Biomedical Sciences
UT Health Science Center at San Antonio
Our Sponsors
This symposium was made possible by the support of the following:

The Office of Career Development, UTHSCSA
The American Society for Biochemistry and Molecular Biology (ASBMB)
Public Outreach Committee
The Graduate School of Biomedical Sciences, UTHSCSA
Graduate Program in Biomedical Engineering, UTSA/UTHSCSA
The UT San Antonio College of Engineering, UTSA
The Office of the Vice President for Research, UTHSCSA

Additional support was provided by:

The Alamo Chapter, Sigma Xi
The Career Center, UTSA
The Graduate Student Association, UTHSCSA
The Teacher Enrichment Initiatives, UTHSCSA
The UTHSCSA Postdoctoral Association, UTHSCSA

Special Thanks

We would like to give a special thanks to all of our volunteers as well as to the poster session judges and the companies who participated in the Expo. These programs are integral and would not be successful without the support of each of you.
Event Maps

Blue Star Brewing Company
1414 S Alamo St, Ste 105
San Antonio, TX 78210

Additional street parking can be found within the King William neighborhood and down S. Alamo.

Dolph Briscoe Jr. Library
Lecture Hall Map
Central Campus | UT Health Science Center SA
7703 Floyd Curl Drive | San Antonio, TX 78229

Academic & Administration Building (AAB)
Central Campus | UT Health Science Center SA
7703 Floyd Curl Drive | San Antonio, TX 78229

Park in Lot 2, in front of the Briscoe Library, or in Lot 6 in front of the Academic & Administration Building (AAB). You may park in the spots that have “Reserved” painted on the pavement. Enter in the front of the library and registration is to the right.
Science Communication & Outreach Career Symposium

September 18-19, 2015

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Schedule of Events

September 18, 2015
Community Outreach
Blue Star Brewery | 1414 S Alamo St, San Antonio, TX 78210

AGENDA

Lunch will be served starting at 12:00 PM

12:00-12:15 PM: Welcome

12:15 - 1:45 PM: Outreach Presentations (15 min each)

1:45-2:00 PM: Break

2:00-3:00 PM: Panel Q & A

3:00-4:00 PM: Activities & Discussion

1:45-2:00 PM: Break

5:00-7:00 PM: Sigma Xi Reception (by invite only)
Featuring: Jamie Vernon

7:00-9:00 PM: Science Café Outreach Event
- Open to the Public -
Featuring: Jerry Wilmink, Ph.D., CEO WiseWear

SPEAKER | TITLE | BACKGROUND

Teresa Evans, Ph.D.
Director, Office of Career Development, UTHSCSA
Dr. Evans is supported by the American Society for Biochemistry and Molecular Biology for an outreach program to K-12 schools in San Antonio. This program brings together graduate trainees and K-12 teachers to do Science Nights.
http://bit.ly/1C3aKoR

Brant Garcia, Ph.D.
Graduate Student, UT Austin
As a graduate student Brant Garcia has helped to build the “Present your Ph.D. Thesis to a 12-year old” program. This program allows graduate students the opportunity to present a simplified version of their Ph.D. thesis to K-12 classrooms.
http://www.utexas.edu/ogs/research/outreach/

Geoff Hunt, Ph.D.
Public Outreach Coordinator, ASBMB
Dr. Hunt works to build a wide range of outreach programs for the American Society for Biochemistry and Molecular Biology including helping to sponsor symposia such as this one and build online science communication courses.
http://www.asbmb.org/Governance/PublicOutreach/

Jessica Ibarra, Ph.D.
Assistant Professor, University Of the Incarnate Word
Dr. Ibarra visits local schools as a part of the American Physiological Society’s K-12 outreach program.
http://uthscsa.edu/hscnews/singleformat.asp?newID=3688

Stuart Ravnik, Ph.D.
Associate Dean of UT Southwestern Graduate School
Dr. Ravnik is the Associate Director of the Science Teacher Access to Resources at Southwestern (STARS) program, which provides science outreach and professional development to middle and high school teachers and students in North Texas.
http://www.utsouthwestern.edu/STARS.

Rose Riggs
Educational Development Specialist, UTHSCSA
Ms. Riggs works with area K-12 teachers, utilizing her curriculum development skills and years of teaching experience, to develop STEM curriculum with real-world bioscience applications.
TEItTeachers.org • VBTAteachers.org

Ray Sweet, Ph.D.
Senior Director and Fellow at Janssen R&D (retired)
Dr. Sweet is a member of the ASBMB HOPES program steering committee and a member of the Public Outreach committee of ASBMB as well. The goal of the Hands-on Opportunities to Promote Engagement in Science (HOPES) seed grants is to incentivize and support the development of outreach programs and partnerships by teachers and researchers.

Alan Xenakis, Ph.D.
Professor, Health Sciences, University Of Incarnate Word
Dr. Xenakis is an Emmy award winning radio and television host and producer. He has created more than 6000 programs, including DOC X MD Funny Feelings heard weekly on KAMU-FM National Public Radio. Dr. Xenakis holds two doctoral degrees, and has held full professorships in medicine, nursing, pharmacy, and public health.
http://www.docxdmfunnyfeelings.com/
### Schedule of Events

**SEPTMBER 19, 2015**

**COMMUNICATION AND CAREERS**

University of Texas Health Science Center at San Antonio (UTHSCSA)

7703 Floyd Curl Drive, San Antonio, TX 78229

<table>
<thead>
<tr>
<th>TIME</th>
<th>EVENT</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>8:00-9:00 AM</td>
<td>Registration</td>
<td>Front Door/Library</td>
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<tr>
<td>9:00-9:15 AM</td>
<td>Welcome/Overview</td>
<td>Teresa Evans, Ph.D. Director of the Office of Career Development, UTHSCSA</td>
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<tr>
<td>9:15-10:15 AM</td>
<td>Plenary Presentation</td>
<td>Jamie Vernon, Ph.D. Director of Science Communications and Publications at Sigma Xi</td>
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<td></td>
<td>Tweet Success: Using Modern Communication Strategies to Enhance Your Career in Science</td>
<td>3.104.A Pestana Lecture Hall</td>
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<td>10:15-10:30 AM</td>
<td>Break</td>
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<td>10:30-11:30 AM</td>
<td>Career Panels</td>
<td>1. Academic Leadership</td>
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<td>2. Education Intensive Careers</td>
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<td>3. Industry</td>
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<td>4. Science Communication and Outreach Careers</td>
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<tr>
<td>11:30-11:45 AM</td>
<td>Break</td>
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<tr>
<td>11:45 AM-12:45 PM</td>
<td>Presentation: Planning for Career Satisfaction and Success</td>
<td>Sharon Milgram, Ph.D. Director of Office of Intramural Training and Education, National Institutes of Health</td>
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<td>3.104.A Pestana Lecture Hall</td>
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<tr>
<td>12:45-1:45 PM</td>
<td>Lunch &amp; Networking with Panelists</td>
<td>All LIB Rooms Open</td>
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<td>1:45 -2:00 PM</td>
<td>Break</td>
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<td>2:00-3:00 PM</td>
<td>Career Panels</td>
<td>1. Policy</td>
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<td>2. Government</td>
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<td>3. Entrepreneurship</td>
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<td>4. Research Intensive Careers</td>
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<td>3:00 -3:15 PM</td>
<td>Break</td>
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<tr>
<td>3:00-5:00 PM</td>
<td>UT System Graduate Career Development Working Group <em>(Invite only)</em></td>
<td>President’s Conference Room</td>
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<td>3:15-5:15 PM</td>
<td>Networking and Poster Session</td>
<td>AAB Foyer</td>
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<td>Career Expo <em>(Booths)</em></td>
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<tr>
<td>5:30-6:00 PM</td>
<td>Closing remarks &amp; Award Presentation</td>
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<td>4:00-6:00 PM</td>
<td>Reception</td>
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## Career Panelists at a glance

**COMMUNICATION AND CAREERS**
UTHSCSA | 7703 Floyd Curl Drive, San Antonio, TX 78229

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<tr>
<th>PANEL</th>
<th>MODERATOR</th>
<th>SPEAKER</th>
<th>BACKGROUND</th>
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<td><strong>Academic Leadership</strong></td>
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<td>Winston Erevelles</td>
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<td>*Julie Hudson</td>
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<td>Patti Hurn</td>
<td>Vice Chancellor, UT System</td>
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<td><strong>Education Intensive Careers (Undergrad/K-12)</strong></td>
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<td>Jessica Ibarra</td>
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<td>Brian Stout</td>
<td>Professor, Northwest Vista College</td>
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<td><strong>Entrepreneurship</strong></td>
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<td>*Teaster Baird Jr.</td>
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<td>Jamie Vernon</td>
<td>Director of Science Communications and Publications at Sigma Xi, The Scientific Research Society, and Editor-in-Chief of American Scientist Magazine</td>
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<td>*Hudson Freeze</td>
<td>Director, Human Genetics Program, Sanford-Burnham Medical Research Institute</td>
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<td>*Tom Baldwin</td>
<td>Executive Associate Dean for External Relations, University of Cal Riverside</td>
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<td>Bettie Sue Masters</td>
<td>Professor of Biochemistry, UTHSCSA</td>
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<td>Sharon Milgram</td>
<td>Director, OITE, NIH</td>
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<td><strong>Research Intensive Careers</strong></td>
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<td>*Morgan Thompson</td>
<td>Assistant Director, Career Dev., University Mass. Medical School</td>
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<td>*Jeanne Garbarino</td>
<td>Director, Science Outreach Programs, Rockefeller University</td>
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<td>*Geoff Hunt</td>
<td>Science Outreach Coordinator, ASBMB</td>
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<td>Rajendrani Mukhopadhyay</td>
<td>Chief Science Correspondent, ASBMB</td>
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<td>Irene Chapa</td>
<td>Director, Office of Recruitment and Science Outreach</td>
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<td>Meriam Good</td>
<td>Director, Mind Science Foundation</td>
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<td><strong>Government/Military Careers</strong></td>
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<td>*Billy Hudson</td>
<td>Professor of Medicine, Vanderbilt University</td>
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<td></td>
<td>Carmen Hinojosa-Laborde</td>
<td>Research Physiologist, Tactical Combat Casualty Care Research, ISR</td>
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<td>Jose Salinas</td>
<td>Research Task Area Manager for Comprehensive Intensive Care Research, Single/Multi Organ Support, and Vital Tissue Preservation at ISR</td>
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*ASBMB Public Outreach Committee Member
Panelist & Speaker Bios

**Day 1**

**Jerry Wilmink, Ph.D.**
CEO and Founder, WiseWear

Dr. Jerry Wilmink is the CEO of WiseWear. He has experience as an inventor, start-up business consultant for VC firms, and a program manager for the Department of Defense’s Small Business Innovation Research (SBIR) program.

Dr. Wilmink earned his B.S., M.S., and Ph.D. in Biomedical Engineering at Vanderbilt U., and an M.B.A. from the University of Texas at Austin. He served as a research associate with the National Academy of Sciences, and during his tenure he founded the first Terahertz sensing lab in the Department of Defense.

He has penned 6 patents, published 55 manuscripts, book chapters, and review articles, and has delivered over 80 invited, keynote, or plenary presentations at conferences including TEDMED, SXSW, and SPIE. In 2015, he was selected for San Antonio’s 40 Under 40 award and was invited for membership to the Young Entrepreneur Council (YEC), named by Forbes as America’s most elite entrepreneur organization.

He is a founding member of a VISTAGE Key group, serves as an advisor for several startup companies, and as a mentor for 3 Day Startup and TechStars, the #1 startup accelerator in the world. He is a fellow and serves on the board of directors for the American Society for Laser Medicine and Surgery. He also is an advisor and panel review member for the National Academy of Sciences National Research Council (NRC), National Science Foundation Graduate Research Fellowship (NSFGRF), Science, Mathematics & Research for Transformation (SMART), and National Defense Science and Engineering Graduate Fellowship Programs (NSF GRFP).

**Day 2**

**Jamie Vernon, Ph.D.**
Director of Science Communications and Publications at Sigma Xi, The Scientific Research Society, and Editor-in-Chief of American Scientist Magazine

Dr. Jamie Vernon is director of science communications and publications at Sigma Xi, The Scientific Research Society, and editor-in-chief of American Scientist Magazine.

He is co-founder of Potential Energy DC, a technology accelerator for the energy industry that has established a network of energy-focused entrepreneurs in the DC-metro area. In 2014, he helped organize the Potential Energy DC / American Association for the Advancement of Science Energy & Data Summit to foster collaborations between technologists, policy makers, and entrepreneurs.

He previously worked in Department of Energy’s Office of Energy Efficiency and Renewable Energy (EERE) for the Office of Strategic Programs. His primary goal was to determine the return-on-investment for EERE’s R&D portfolio. He helped implement an EERE-wide evaluation system to identify evidence-based success metrics and build capacity to capture and communicate them. He also helped develop EERE’s strategic plan.

While at DOE, he led an initiative to improve consumer energy data access services nationwide. He also helped design and launch the inaugural DOE National Clean Energy Business Plan Competition in 2012 and helped plan the 2013 competition.

Dr. Vernon is an award-winning science educator. He is NSF-trained to communicate science, founder of ScienceOnline DC, Science in the Pub and UT SEforA, and has contributed to Discover’s and Scientific American’s science blogging networks. In 2012, he was lead organizer for the ScienceOnline Climate conference that explored the intersection of climate science, communication, and the web. He has spent more than a decade conducting molecular biology discovery research and project management. He has also worked on HIV vaccine development and is co-author of a biotechnology patent.
Panelist & Speaker Bios

Day 2

Sharon Milgram, Ph.D.
Director of Office of Intramural Training and Education, National Institutes of Health

Dr. Sharon Milgram is director of the Office of Intramural Training and Education at the National Institutes of Health, an office dedicated to providing career counseling and professional development opportunities for trainees in the NIH intramural Research Program.

Dr. Milgram lectures widely on STEM careers and has a passion for working with trainees at all educational levels. She has directed training grants from the NSF and NIH, including the Research Experience for Undergraduates (REU), Maximize Student Diversity (IMSD) and Cell and Molecular Biology training grants. She also directed the Interdisciplinary Biomedical Sciences graduate program and was the founder of the University of North Carolina’s Office of Postdoctoral Services.

Panelist & Speaker Bios

Academic Leadership

Julie Hudson, M.D., M.A.* (Moderator)
Assistant Vice Chancellor, Vanderbilt University Medical Center

Dr. Julie Hudson is the assistant vice chancellor at Vanderbilt University Medical Center. She is a pediatric anesthesiologist with a background that includes development work, governmental relations and science training. She is also co-founder of the Aspiring program, a science education outreach program focused on recruiting and developing the science, technology, engineering and math (STEM) workforce specifically from rural and diverse student populations.

Winston Erevelles, Ph.D.
Dean, St. Mary’s University

Dr. Winston Erevelles is the dean of the School of Science, Engineering and Technology at St. Mary’s University. Dr. Erevelles joined St. Mary’s in 2009 after spending close to 20 years at Kettering University in Flint, MI and Robert Morris University in Pittsburgh, PA where he rose to through the faculty ranks to hold progressively responsible positions including appointments as dean and associate vice president for academic affairs. He has also worked as a Manufacturing Engineer and Plant Manager at Mykron Engineers in India. His interests are in the areas of Automation, Industrial Robotics, Rapid Prototyping, Reverse Engineering, and Manufacturing Processes. He currently serves as an Adjunct Accreditation Director for the Engineering Accreditation Commission of ABET, Inc. and on the Leadership Advisory Council of the San Antonio Lighthouse for the Blind, the Education Committee of the San Antonio Manufacturers Association, and the Education Committee of the San Antonio Hispanic Chamber of Commerce.

Stuart Ravnik, Ph.D.
Associate Dean, UT Southwestern Graduate School of Biomedical Sciences

Dr. Stuart Ravnik is the associate dean of the University of Texas Southwestern Graduate School of Biomedical Sciences. His interests are in graduate education and training and scientific outreach to undergrads, high school students, and high school teachers. In the undergraduate realm, he works to increase awareness of science as a career opportunity and help prepare undergrads for their graduate school careers.
David Weiss, Ph.D.
Dean, Graduate School of Biomedical Sciences, University of Texas Health Science Center San Antonio

Dr. David Weiss is the dean of the Graduate School of Biomedical Sciences at the University of Texas Health Science Center San Antonio and recently named a University of Texas System Chancellor’s Health Fellow in Graduate Education. He is a neuroscientist whose research has advanced the understanding of brain disorders such as epilepsy and the action of therapeutic drugs such as anxiety medications.

Patti Hurn, Ph.D.
Vice Chancellor for Research and Innovation, The University of Texas System

Dr. Patti Hurn is the vice chancellor for research and innovation at The University of Texas System. Her focus is on building collaborative models of bio-health research, creating innovative science education programs and constructing technological systems and infrastructure for the mission of discovery. She has created university-wide programs in faculty mentorship, evaluation, leadership development, the advancement of women in science and medicine, and attaining excellence through collaboration.

Education Intensive Careers (Undergrad/K-12)

Teaster Baird Jr, Ph.D.*
Assistant Professor, Department of Chemistry and Biochemistry, San Francisco State University

Dr. Teaster Baird is the assistant professor in the Department of Chemistry and Biochemistry at San Francisco State University. He currently teaches and manages a laboratory focused on researching the structure and function of metallo-enzymes and proteases.

Jessica Ibarra, Ph.D.
Assistant Professor, University of Incarnate Word

Dr. Jessica M. Ibarra is an assistant professor of biology in the School of Mathematics, Science, and Engineering at the University of Incarnate Word. She teaches general biology, anatomy and physiology, medical physiology, and research courses. She is also the University of Incarnate Word Pre-Dental Society faculty advisor and is very active in the American Physiological Society education programs.

James Roberts, Ph.D.
Cowles Distinguished Professor of Life Science, Trinity University

Dr. James Roberts is the Cowles Professor of Neuroscience in biology at Trinity University. He also leads the neuroscience program at Trinity University. He was previously a professor of neurobiology at Mt. Sinai School of Medicine and deputy director of the Center for Biomedical Neuroscience in San Antonio.

Lila LaGrange, Ph.D.
Associate Professor of Pharmaceutical Sciences, University of Incarnate Word

Dr. Lila LaGrange is an associate professor of pharmaceutical sciences at University of Incarnate Word. In keeping with her research interests and background in physiology, Dr. LaGrange teaches a two semester anatomy and physiology course to first year pharmacy students. A significant focus of her teaching is integrating tools such as concept mapping and case studies into the course in order to foster the transition of students from simply knowing concepts to critically analyzing them.

Brian Stout, Ph.D.
Professor, Northwest Vista College

Dr. Brian Stout is an adjunct professor at Northwest Vista College. He currently teaches biology, physiology, microbiology, and genetics courses and also serves as a consultant for Ulibarri-Mason Global Human Resources on faculty compensation projects across the country. He is also a board member for the John Jay Science Academy and was a member of the BioMed SA Neuroscience.
**Policy**

**Hudson Freeze, Ph.D.* (Moderator)**  
*Director, Human Genetics Program, Sanford-Burnham Medical Research Institute*

Dr. Hudson Freeze is the director of the Human Genetics Program at Sanford-Burnham Medical Research Institute. He is also an adjunct professor in the School of Medicine at the University of California San Diego. In the 1990s, Freeze discovered that a sugar called mannose fixed glycosylation problems in cells cultured from patients. Dr. Freeze is now experimenting with mannose with the hope of treating children who suffer from other rare glycosylation disorders.

**Tom Baldwin, Ph.D.*  
*Executive Associate Dean for External Relations, University of California Riverside*

Dr. Tom Baldwin is the executive associate dean for external relations for the University of California Riverside. He is responsible for programs in a college that spans the so-called “hard” sciences, from mathematics, physics, chemistry, and biology to entomology, botany, and the Agricultural Experiment Station. Prior to this position, he was professor and head of the Department of Biochemistry and Molecular Biophysics and founding director of the Bio5 Institute at the University of Arizona.

**Bettie Sue Masters, Ph.D.**  
*Robert A. Welch Foundation Distinguished Chair in Chemistry, University of Texas Health Science Center San Antonio*

Dr. Bettie Sue Masters holds the Robert A. Welch Foundation Distinguished Chair in Chemistry at the University of Texas Health Science Center at San Antonio, Texas. Dr. Masters has served on the Advisory Committee to the Director of the National Institutes of Health through 2004, followed by service on the National Advisory Research Resources Council from 2004-2009. She was President of the American Society for Biochemistry and Molecular Biology from 2002-2004.

**Science Communication and Outreach Careers**

**Geoff Hunt, Ph.D.* (Moderator)**  
*Public Outreach Coordinator, American Society for Biochemistry and Molecular Biology*

Dr. Geoff Hunt is the public outreach coordinator at the American Society for Biochemistry and Molecular Biology. He works to assess the current state of outreach and communication efforts across the country. He also facilitates new ways for American Society for Biochemistry and Molecular Biology members to take part using a wide range of tools, including social media and interactive science cafés.

**Jeanne Garbarino, Ph.D.*  
*Director of Science Outreach Programs, The Rockefeller University*

Dr. Jeanne Garbarino is the director of science outreach at The Rockefeller University. In this role, she helps bridge the gap between scientists and educators by creating scientific programming aimed to engage K-12 students, as well as professional development workshops for science teachers. She also works as a science communicator, both through live events and digital media, including Double X Science, Scientific American, The Huffington Post, and The Incubator, where she also acts as chief editor.

**Rajendrani Mukhopadhyay, Ph.D.**  
*Chief Science Correspondent, American Society for Biochemistry and Molecular Biology*

Dr. Rajendrani Mukhopadhyay is the chief science correspondent at American Society for Biochemistry and Molecular Biology where she writes features and profiles for the membership magazine, ASBMB Today. She also writes a blog called Wild Types and hosts live, interactive video discussions. She mentors young scientists interested in becoming science writers and regularly lectures on the role of journalism in science communication.
Irene Chapa, Ph.D.
*ASBMB Public Outreach Committee Member
**Panelist & Speaker Bios**
**Day 1**

Irene Chapa is the director of the Office of Recruitment and Science Outreach at the University of Texas Health Science Center San Antonio. She works to increase awareness of health profession opportunities at the university and to educate South Texas youth about pathways that lead to successful health care careers.

Meriam Good

Meriam Good is the director of the Mind Science Foundation, a non-profit organization dedicated to funding and disseminating research on how consciousness arises in human beings. She specializes in operations, program development and donor relations. She is passionate about the role of both institutional and personal philanthropy in effecting meaningful social change.

### Industry

Nicole Woitowich*

Graduate Student, Rosalind Franklin University of Medicine and Science

Nicole Woitowich is currently a Ph.D. candidate at Rosalind Franklin University of Medicine and Science in the Departments of Biochemistry & Molecular Biology and Physiology & Biophysics. She is the founder and co-director of Women in Scientific Discovery or Medicine (WISDOM), an organization that promotes education and retention of women in science, technology, engineering, math, and medicine (STEMM) through mentorship.

Ray Sweet, Ph.D.*

Senior Director and Fellow at Janssen R&D (retired)

Dr. Ray Sweet retired as a senior scientific director and fellow in the department of Biologics Research at Janssen Pharmaceutical Companies of Johnson & Johnson in Jan 2015 and is serving as an adviser for a biotech startup. His expertise is in biotechnology with a focus on antibody discovery and engineering. He maintains active roles in the American Society for Biochemistry and Molecular Biology (ASBMB) and serves on the board of trustees for the Delaware Valley Science Fairs in Philadelphia, PA.

Gabriele Niederauer, Ph.D.

CEO and President, Bluegrass Vascular Technologies INC.

Dr. Gabriele Niederauer joined Bluegrass Vascular Technologies, Inc. (BVT) in September 2014 as CEO & President. Over the last years, she has supervised the product development, patent, regulatory, quality, preclinical and clinical activities resulting in U.S. and international clearance of numerous devices. Dr. Niederauer has more than 25 years of experience in the study, development and commercialization of devices for orthopedic, dental and ENT.

Yvonne Addison

Service Engineer, StandardAero

Yvonne K. Addison is a service engineer with StandardAero where she is the primary technical engineer for the Power Section and Reduction Gearbox Modules. She earned her bachelor's degree in Mechanical Engineering from the University of Texas at San Antonio. She is a Licensed Engineer-in-Training in the State of Texas, a certified Project Management Professional, and a certified lean facilitator. This past year, Yvonne founded “The Young San Antonian,” a website dedicated to connecting and enhancing the Young Professionals Community of San Antonio.
Entrepreneurship

Jonathan Dattelbaum, Ph.D.* (Moderator)
Associate Professor of Chemistry, University of Richmond

Dr. Jon Dattelbaum is an associate professor of chemistry and co-coordinator of the Biochemistry & Molecular Biology Program at University of Richmond. He currently leads the biochemistry outreach project which encourages community-based learning for students outside the classroom through interactions with the public.

Guillermo Vela
CEO, Nebulab

Guillermo Vela is the CEO and co-founder of Nebulab, a San Antonio-based tech company working to simplify how scientists store, organize, and share their data, increasing efficiency and accelerating scientific discovery. Nebulab was 1 of 10 companies selected from over 1200 worldwide applicants to participate in the 2015 Techstars Cloud Accelerator program. Nebulab is also a recipient of the Geekdom Startup Fund. Previously, Guillermo worked as a brain cancer and stem cell researcher for the Department of Neurosurgery and Oncology at Johns Hopkins.

Christine Burke, Ph.D., M.B.A.
Director, University of Texas at San Antonio Office of Commercialization and Innovation

Dr. Christine Burke is the director of commercialization at the University of Texas San Antonio. Before moving to Texas, she worked at the University of California’s Systemwide Office of Technology Transfer for over four years. At UC, she helped create her position as their first strategic marketing and communications manager, and developed new outreach programs to help companies navigate the ten campus system. Before moving to the field of technology transfer, she was a founding employee of the laboratory services start-up company, LabVelocity.

Pratap Khanwilkar, Ph.D., M.B.A.
Vice President, Product Development at InCube Labs

Dr. Pratap Khanwilkar, PhD, MBA has recently joined InCube Labs in San Antonio as its VP of Product Development where he is helping incubate and commercialize six medtech companies in the epilepsy, brain cancer, iron-deficiency anemia, atrial fibrillation, over-active bladder and chronic disease management spaces. Pratap previously founded and led the University of Pittsburgh’s Coulter Translational Research Partnership program co-founding 3 start-ups in the cancer diagnostics, orthopedics, and sports performance enhancement and rehab spaces. Prior to that, he started 6 medtech companies, one of which he led as founder/CEO from inception to incorporation into a publicly traded company on the NASDAQ stock exchange, and two others that are in operation and generate revenue. These companies are in the medical prototyping and in vitro and in vivo testing of cardiovascular devices, in late-stage congesting heart failure and in medtech management consulting areas.
**Morgan Thompson, Ph.D.* (Moderator)**  
*Assistant Director, Career Development, University of Massachusetts Medical School*  
As assistant director of career development at the University of Massachusetts Medical School, Dr. Morgan Thompson develops new programs funded by UMMS’s National Institutes of Health Broadening Experiences in Scientific Training (BEST) grant. Dr. Thompson serves on the Public Outreach Committee of the American Society for Biochemistry and Molecular Biology (ASBMB) and is a member of the Coalition on the Public Understanding of Science (COPUS) and Voice of Young Science USA networks.

**Philip LoVerde, Ph.D.**  
*Professor of Biochemistry and Pathology, University of Texas Health Science Center San Antonio*  
Dr. Phillip LoVerde is a professor of biochemistry and pathology at the University of Texas Health Science Center San Antonio. He is currently leading a multi-national research team to study the host-parasite interactions of schistosomes.

**Linda McManus, Ph.D.**  
*Director, Office of Postdoctoral Affairs and Professor of Pathology, University of Texas Health Science Center San Antonio*  
Dr. Linda McManus is the director of Office of Postdoctoral Affairs and Professor of Pathology at the University of Texas Health Science Center San Antonio. She directs multiple training grants such as the recently funded NIH IRACDA as well as a T32 from NHLBI that is in its 33rd year. In addition to leading the new postdoctoral orientation, Spotlight on Research Integrity monthly workshop and co-directing Entering Mentoring, a workshop to facilitate mentoring skills, Dr. McManus also directs F-Troop, a fellowship grant writing workshop for trainees.

**Hannah Alexander, Ph.D.***  
*Adjunct Associate Professor, Division of Biological Sciences, University of Missouri*  
Dr. Hannah Alexander is an adjunct associate professor in the Division of Biological Sciences at University of Missouri. She has been a research scientist for over 35 years, working at the Hebrew University in Jerusalem, Tufts Medical School and The Scripps Research Institute. For the past 20 years, she has been at the University of Missouri, studying the molecular basis of resistance to anticancer drugs.

**Anand Ramasubramanian, Ph.D.**  
*Associate Professor, Department of Biomedical Engineering, South Texas Center for Emerging Infectious Disease*  
Anand Ramasubramanian is an Associate Professor of Biomedical Engineering, and a member of the South Texas Center for Emerging Infectious Diseases at the University of Texas at San Antonio (UTSA). His current research interests are in microbial bioengineering and vascular mechanobiology. His lab focuses on developing microscale tools for understanding and combating infection and inflammation; and in improving platelet storage modalities for transfusion. Prior to joining UTSA, Dr. Ramasubramanian received his PhD in Bioengineering from Rice University, and post-doctoral training in Chemical Engineering at UC Berkeley.
Panelist & Speaker Bios

Government/Military Careers

Billy Hudson, Ph.D.* (Moderator)
Professor of Medicine, Vanderbilt University

Dr. Hudson was an active duty researcher in the army during the years associated with Vietnam and as a part of his service he helped develop Amicon filters in Natick, MA. After his time as an active duty service member, he remained in the military as a reservist and retired after 30 years as a full colonel. Dr. Billy Hudson is a professor of medicine at Vanderbilt University. He is an avid proponent of science outreach and founded a program to provide research opportunities to young students. He is co-founder of the Aspirant program, a science education outreach program focused on recruiting and developing the science, technology, engineering, and math (STEM) workforce specifically from rural and diverse student populations.

Byron C. Hepburn, M.D., Maj. Gen. USAF (Ret)
AVP and Director of the Military Health Institute

Dr. Byron Hepburn is the inaugural Director of the Military Health Institute at the University of Texas Health Science Center San Antonio. In this role, he strengthens the University’s collaborations with the DoD and VA toward the goal of improving the health of military personnel, veterans and their families. He has a distinguished military career of 38 years and served as Commander of the 59th Medical Wing, where he led the Air Force’s largest medical wing. Prior to that, he served as Deputy Surgeon General of the U.S. Air Force.

Carmen Hinojosa-Laborde, Ph.D.
Research Physiologist, U.S. Army Institute of Surgical Research

Dr. Carmen Hinojosa-Laborde is a research physiologist in the U.S. Army Institute of Surgical Research. She is routinely asked to be guest speakers at conferences, organizational meetings, and university classrooms to showcase the latest research and innovative work of the U.S. Army Institute of Surgical Research.

Jose Salinas, Ph.D.
Research Task Area Manager for Comprehensive Intensive Care Research, Single/Multi Organ Support, and Vital Tissue Preservation at the U.S. Army Institute of Surgical Research

As the Research Task Area Manager for the Comprehensive Intensive Care Research program at the U.S. Army Institute of Surgical Research, Dr. Salinas is currently focused on development of clinical solutions to improve outcomes of military combat casualties arriving at different treatment facilities and echelons of care.
STEM trainees who present in this scientific poster session will practice their science communication skills during this unique public-facing poster session. Our poster judges are a panel of non-scientist community members who will choose winners based on the trainee’s ability to clearly explain their science.

**Poster Session Presenters**

**Poster #1**
**Jonathan Allen**
**UT Health Science Center San Antonio | Undergraduate**
Effects of Pargyline and PCPA on Social Behavior in Mice

**Poster #2**
**Amit Aurora**
**U.S. Army Institute of Surgical Research | Postdoctoral Fellow**
An Acellular Biologic Scaffold Does Regenerate Appreciable De Novo Muscle Tissue in Rodent Models of Volumetric Muscle Loss Injury

**Poster #3**
**Mohamed Basiouny**
**UT Health Science Center San Antonio | Student Associate, Peridontics department**
Incisor and molar enamel in rescued Ambn mutant mice

**Poster #4**
**Nikhil Bhat**
**Dallas VA Medical Center | Non-Profit Professional**
Million Veteran Program

**Poster #5**
**Travis Block**
**UT Health Science Center San Antonio | Graduate Student**
Rescuing the Regenerative Capacity of Human Mesenchymal Stem Cell Populations from Elderly Donors

**Poster #6**
**Jean Bopassa**
**UT Health Science Center San Antonio | Assistant Professor**
Mitochondrial Inner Membrane Protein (Mitofilin) Directly interacts With Cyclophilin D in the Inner Membrane of Heart Mitochondria

**Poster #7**
**Saurav Chandra**
**UT Health Science Center San Antonio | Postdoctoral Fellow**
The effects of dorzolamide on retinal and choroidal blood flow in the DBA/2J mouse model of Glaucoma

**Poster #8**
**Greg Clark**
**University of Texas at Austin | Primary Investigator**
Middle school science educational outreach programs: “Present your Ph.D. thesis to a 12-year-old” and “Shadow a scientist”

**Poster #9**
**Amy Daali**
**UT Health Science Center San Antonio | Postdoctoral Fellow**
A Principal Component Analysis (PCA) Based Algorithm for Longitudinal Brain Tumor Stage Recognition and Classification
Poster Session Presenters

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Poster #10
Emily Debner
Trinity University | Undergraduate
Beta-Amyloid Induced Mitochondrial Membrane Potential and Calcium Wave Alterations in Aging Astrocytes

Poster #11
Aria Deluna
Northwest Vista College | Undergraduate
Mutations of Epithelial Sodium Ion Channels (EnaC)

Poster #12
Allison Doyle
UT Health Science Center San Antonio | Graduate Student
Awakening the Delta Opioid Receptor in Peripheral Sensory Neurons

Poster #13
Divya Duggal
University Of North Texas Health Science Center | Graduate Student
The K104E Mutation of the Myosin Regulatory Light Chain Alters Kinetics and Distribution of Orientations of Cross-Bridges in Transgenic Cardiac Myofibrils

Poster #14
Marshall Edwards
UT Health Science Center San Antonio | Research Assistant
Impact of Neto1 Deficiency on Mouse Cognitive Flexibility and Sociability Preferences

Poster #15
Elizabeth Fisher
UT Health Science Center San Antonio | Graduate Student
The Role of Glutamate Uptake and Metabolism in P2Y1R-enhanced Neuroprotection after Brain Injury

Poster #16
Bridget Ford
UT Health Science Center San Antonio | Postdoctoral Fellow
Novel Role of Dual Oxidase 2 as a Mediator of Glomerular Cell Injury in the Diabetic Environment

Poster #17
Elizabeth Fucich
UT Health Science Center San Antonio | Graduate Student
Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits

Poster #18
Ming Gao
UT Health Science Center San Antonio | Graduate Student
Investigating the role of Lats1 and Lats2 in pancreatic acinar cells
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Poster Session Presenters

**Poster #19**

Valentina Garbarino  
*UT Health Science Center San Antonio | Graduate Student*

Testing Treatments for Autism Symptoms in an Aging Mouse Model of Type II Diabetes

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**Poster #20**

Lauren Garcia  
*St. Mary’s University | Student*

Estrogen Receptor β Agonists: Novel Therapy for Brain Tumors

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**Poster #21**

Nitai Giri  
*University of Texas at San Antonio | Postdoctoral Fellow*

Distinguishing Reactivities of the Individual Iron Centers in Flavo-Diiron Proteins (FDPs)

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**Poster #22**

Holly Hamilton  
*University of Texas MD Anderson Cancer Center | Postdoctoral Fellow*

Enabling a Smarter Fight Against Cancer by Defining the Roles of EXO1 in DNA Repair

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**Poster #23**

Mariam Ishaque  
*UT Health Science Center San Antonio | Graduate Student*

What Patients Can’t Tell Us: Brain Scans can Detect Awareness and Function in Brain-Damaged Children

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**Poster #24**

Julianne Jett  
*UT Health Science Center San Antonio | Graduate Student*

Prefrontal cortical plasticity and behavioral effects of chronic stress

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**Poster #25**

Kalyani Josyula  
*Purdue University | Postdoctoral Fellow*

Similar yet different: a comparative analysis of extra diol dioxygenases from E. coli, Arabidopsis, beet and portulaca.

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**Poster #26**

Sharon Kuss  
*UT Southwestern Medical Center | Postdoctoral Fellow*

Influenza Virus Glycoproteins Activate mTOR to Promote Viral Replication

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**Poster #27**

Milos Marinkovic  
*UT Health Science Center San Antonio | Graduate Student*

Tissue-Specific Stem Cell Niches Display Differences in Physical, Mechanical, and Chemical Properties Which Influence Stem Cell Properties
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**Poster Session Presenters**

**Poster #28**

Paul Martinez  
*UT Health Science Center San Antonio | Graduate Student*

Biogenic Aldehydes Contribute to a Parkinson Related Behavioral Phenotype in Alpha-Synuclein Overexpressing Mice

**Poster #29**

Sabrina Martinez  
*UT Health Science Center San Antonio | Graduate Student*

Interspecies inhibition of C. albicans filamentation by C. glabrata

**Poster #30**

Carlie McCartney  
*UT Health Science Center San Antonio | Undergraduate*

Involvement of NMDA and AMPA Receptors in the mPFC in Cognitive Set-Shifting

**Poster #31**

Megan Moerke  
*UT Health Science Center San Antonio | Graduate Student*

Repurposing FDA-approved Alzheimer’s disease pharmacotherapies as treatments for smoking cessation

**Poster #32**

Sribalasubashini Muralimanoharan  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

Mitochondrial function and glucose metabolism in the placenta with gestational diabetes mellitus

**Poster #33**

Junnie Mwaniki  
*Texas A&M Health Science Center | Graduate Student*

Academic Pharmacy: Yesterday, Today, Tomorrow

**Poster #34**

Bhavani Nagarajan  
*University Of North Texas Health Science Center | Graduate Student*

Characterization and Optimization of Nanoparticles for Polynucleotide Delivery

**Poster #35**

Miranda Orr  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

NF-κB Regulates Alzheimer’s Disease Associated Tau Protein in Skeletal Muscle and Brain

**Poster #36**

Denisse Paredes  
*UT Health Science Center San Antonio | Research Assistant*

Role of α-1 receptors in the medial prefrontal cortex on the therapeutic effects of extinction learning in rats
STEM trainees who present in this scientific poster session will practice their science communication skills during this unique public-facing poster session. Our poster judges are a panel of non-scientist community members who will choose winners based on the trainee’s ability to clearly explain their science.

Poster #37
Lily Raines  
*Johns Hopkins University School of Medicine | Graduate Student*

Using Biochemical and Structural Approaches to Study ErbB2-Containing Heterodimers

Poster #38
Trevi Ramirez  
*UT Health Science Center San Antonio | Graduate Student*

Investigating interstitial fibrosis in doxorubicin cardiotoxicity

Poster #39
Anastasia Rugel  
*UT Health Science Center San Antonio | Graduate Student*

Schistosomicidal Oxamnique Derivative Drug Activity against Human Schistosomiasis

Poster #40
Amit Saha  
*University of Texas at San Antonio | Graduate Student*

Effect of Membrane Cholesterol on Monocyte Biomechanics

Poster #41
Jesus Segovia  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

NLRP3 is required for inflammasome activation during Mycoplasma pneumoniae infection

Poster #42
Mikaela Sifuentes  
*UT Health Science Center San Antonio | Graduate Student*

The Hormonal Increase of Energy Production in Astrocytes Protects the Brain from Stroke

Poster #43
Prajjal Singha  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

TMEPAI, A Novel Diagnostic Marker and A Therapeutic Target in Triple Negative Breast Cancer Prevention and Therapy

Poster #44
Erin Sybouts  
*UT Health Science Center San Antonio | Graduate Student*

Elucidating the Relationship Between R-Loops and Recombination in Bloom Syndrome

Poster #45
Nelson Torres  
*University of Texas at San Antonio/ US Army Institute of Surgical Research Graduate Student*

Screening the Prestwick Chemical Library for Drugs with Novel Anti-Biofilm Activity
2

Poster Session Presenters

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**Poster # 46**

**Simon Trevino**  
*Texas Biomedical Research Institute | Postdoctoral Fellow*

Improved single-cell genomic profiling of malaria parasites

**Poster # 47**

**Ablat Tursun**  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

Increased Nitrotyrosine (NT) Expression in the Pancreas of IUGR Fetal Baboons in Late Gestation Indicates That Fetal Nutrient Restriction Promotes Inflammatory Responses and Oxidative Stress (OS)

**Poster # 48**

**Anandakrishnan Venkatesan**  
*UT Health Science Center San Antonio | Postdoctoral Fellow*

Chemical Genetic Screen to Uncover Modifiers of Drosophila Neurexin I Behavioral Problems

**Poster # 49**

**Cynthia Zavala**  
*Texas A&M Irma Lerma Rangel College of Pharmacy | Professional Pharmacy Student*

Pharmacist: Changing Roles and New Frontiers
Day STEM trainees who present in this scientific poster session will practice their science communication skills during this unique public-facing poster session. Our poster judges are a panel of non-scientist community members who will choose winners based on the trainee's ability to clearly explain their science.

The Office of Career Development provides comprehensive career and professional development programming to graduate trainees at the University of Texas Health Science Center in San Antonio (UTHSCSA).

The office does this through the implementation of workshops, networking opportunities, and outreach programs for trainees.

Additionally, one-on-one career planning meetings are available with Dr. Teresa Evans, UTHSCSA alum and certified Career Development Facilitator.

Visit our website: gsbs.uthscsa.edu/gsbs_ocd
Visit our blog: gsbs.uthscsa.edu/blog

Teresa M. Evans, Ph.D.
Director
Office of Career Development

Category: Career Development
Poster Session Presenters

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Student Research Presentations

Sigma Xi offers more opportunities to present your research to the world. We are proud to profile two avenues for student research presentation for 2015–16:

Are you or do you know...

- A scientist interested in a traditional poster presentation session, complete with networking opportunities?

Consider Sigma Xi’s Student Research Conference in Kansas City, Missouri—October 23–24, 2015

In this face-to-face conference, students across disciplines can interact and compete with contemporaries for awards, as well as attend career development workshops.

Are you or do you know...

- A student scientist on a budget, interested in learning more about how to formally present research through varied media?

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Poster Session Presenters

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WHAT YOU NEED TO KNOW

Abstract Submission Deadline: Nov. 5

Travel Award Application Deadline: Nov. 12

ASBMB Abstract Topic Categories: #2000-2697

Plenary Speakers:

Francis Collins, National Institutes of Health

Michael K. Rosen, University of Texas Southwestern, HHMI

Peter Walter, University of California, San Francisco, HHMI

Anna M. Pyle, Yale University, HHMI

Jared P. Rutter, University of Utah

Xiaowei Zhuang, Harvard University, HHMI

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- Free online access to all ASBMB journals:
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  - Journal of Biological Chemistry
  - Journal of Lipid Research
- Free print and online subscription to ASBMB Today, the member magazine
- Travel awards
- Discounts on registration for ASBMB meetings
- A voice on Capital Hill

*Must be a regular member publishing as the corresponding author.

www.asbmb.org/join
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ASBMB Public Outreach Committee

The American Society for Biochemistry and Molecular Biology Public Outreach Committee is responsible for organizing and coordinating science outreach programs and is dedicated to “increasing and expanding the effectiveness of science outreach activities through the involvement of ASBMB members.”

The committee offers a number of ways for member scientists to get involved:

**Website:** Find how-to guides, browse listings of local outreach activities and events, and connect with your outreach peers on our interactive website: [www.asbmb.org/outreach](http://www.asbmb.org/outreach).

**Funding:** Our Outreach Seed Grants and Student Chapter Grants provide funds for ASBMB members to get their own programs up and running.

**Projects and activities:** We help to arrange outreach opportunities for ASBMB members, such as booths at science festivals, science fair judging and all sorts of local events.

**Science communication course:** Become a great communicator with ASBMB’s online training course, “The Art of Science Communication,” offered EXCLUSIVELY for ASBMB members.
St. Jude is a world-class non-profit biomedical research institution in Memphis, Tennessee where researchers study the molecular basis of both normal and diseased cellular processes. Over 100 faculty investigators perform basic research in close association with 90 clinical faculty, creating an excellent environment for translational research. Opportunities are available in a wide range of research areas including biochemistry, cancer biology, chemical biology, computational biology, epidemiology, immunology, infectious diseases, neurobiology, pharmaceutical sciences, and structural biology. Visit www.stjude.org/postdoc for more information.

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EOE/Minorities/Females/Vet/Disability
Innovations Transforming Patient Outcomes

Based in Silicon Valley and San Antonio, InCube Labs is a life sciences research lab focused on developing medical breakthroughs that dramatically improve patient outcomes.

**Multidisciplinary Capabilities**
InCube Labs’ world-class team has expertise across a range of disciplines: pharmacology and physiology, protein and polymer chemistry, tissue engineering, mechanical engineering and material science, electronics and software, industrial design, clinical development and manufacturing.

**Research & Development**
Our lab is developing medical devices and combination therapies to address unmet clinical needs across a variety of therapeutic areas, from CNS and Cardiovascular to Metabolic, IBD and Renal Disease. InCube has also developed a number of drug delivery platforms available for out-licensing including Transdermal, Implantable, Inhalation, Injectable, and Oral Biotherapeutics platforms.

**Company Building**
InCube has created 15 companies since its founding in 1995. Currently, InCube companies are in various stages of development from early to late stage.

**University Collaborations**
InCube has partnerships with local Universities and organizations to identify promising technologies, develop IP and commercialize these innovations.

**Partner Network**

Incube is led by Mir Imran, an accomplished medical innovator, entrepreneur and venture capitalist, who has founded more than 20 life sciences companies and holds more than 200 patents. Many of Imran’s innovations have resulted in new standards of care, including the first FDA-approved Automatic Implantable Cardioverter Defibrillator.

*For more information:*

www.incubelabs.com

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