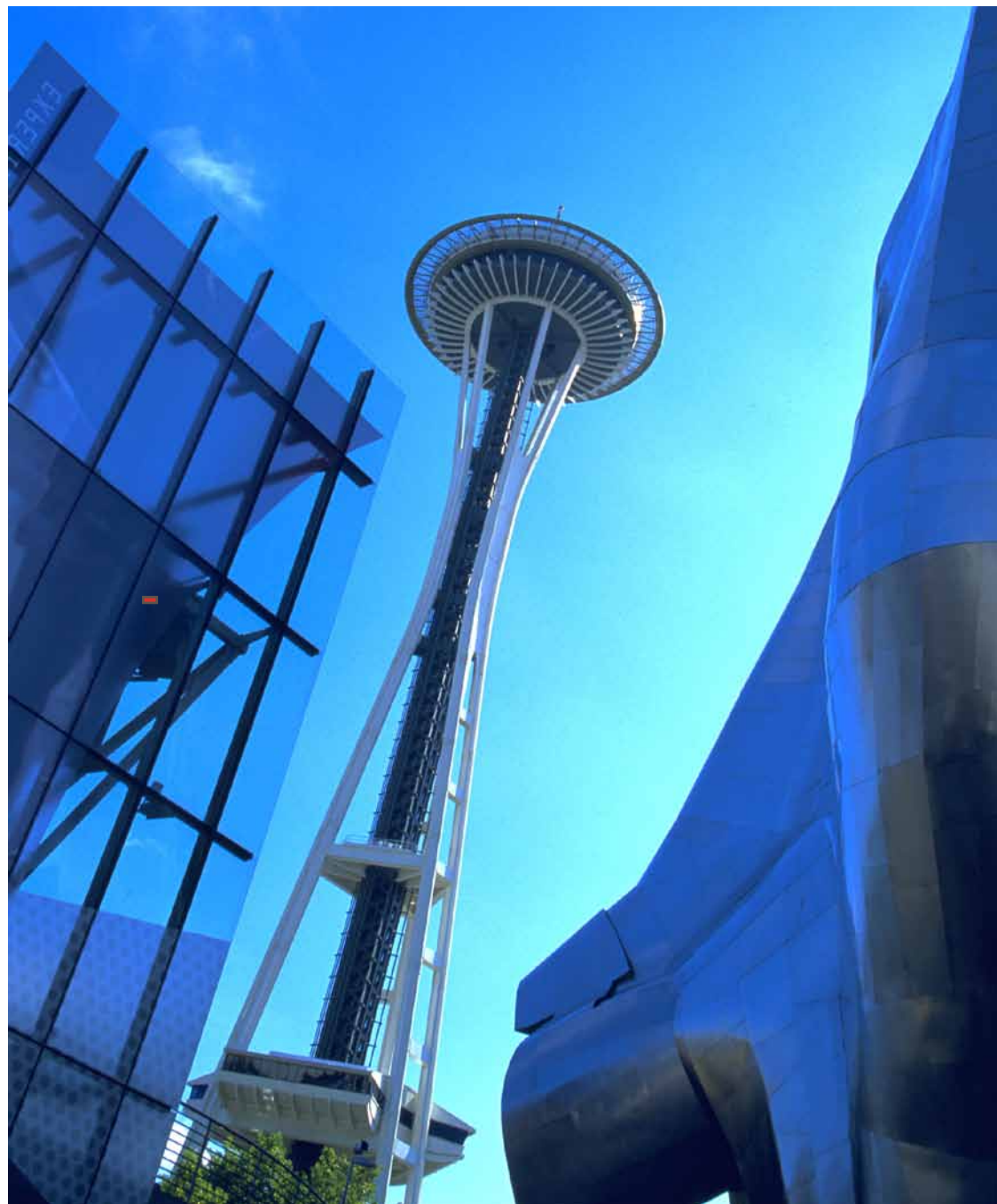




21ST ANNUAL MEETING OF THE
Society for Free Radical Biology and Medicine
THE PREMIER FORUM FOR REDOX RESEARCH



**PRELIMINARY PROGRAM AND
REGISTRATION MATERIALS**

NOVEMBER 19 - 23, 2014 | SHERATON SEATTLE | SEATTLE, WA



► PROGRAM GOALS

- Explore new issues in free radical chemistry, redox biology and antioxidants
- Instruct new members and students in the basics of free radical chemistry and biology
- Build personal and scientific relationships between newcomers to the field, established researchers, academicians and the private sector

► CONFERENCE DATES

WEDNESDAY, NOVEMBER 19 –
SUNDAY, NOVEMBER 23, 2014

A full-day workshop on “Translation of Redox Methodology from Bench to Bedside — Problems and Solutions” will be held on Wednesday, November 19. Workshop participants should arrive by Tuesday night, November 18 in order to attend the full-day program on November 19.

The Registration Desk will open at 5:00 pm on Tuesday, November 18.

PLAN TO ARRIVE in Seattle no later than Wednesday afternoon as SFRBM 2014 will officially kick off on Wednesday evening at 6:00 pm with a special session featuring a keynote lecture by Mark Gladwin, MD titled, “Translating Redox Biology to Medicine” and a lecture by the 2014 Lifetime Achievement Recipient.



PRESIDENT'S MESSAGE

The Society for Free Radical Biology and Medicine’s (SFRBM) Annual Meeting has long been the premier venue for cutting edge research in all aspects of redox biology, featuring the latest technologies and applications in basic and translational research. In keeping with tradition the 2014 program offers a diverse range of topics.

SFRBM continues to nurture a collegial environment for the open exchange of the latest scientific advances through poster and oral presentations. As always, some of the most exciting research will be communicated through the three-day poster symposium. Forty-five abstracts will be selected through a rigorous peer review process for oral presentations.

SFRBM 2014 meeting begins with a pre-meeting workshop on “Translation of Redox Methodology from Bench to Bedside — Problems and Solutions.” This workshop will critically assess how to study redox biology in cells, tissues and whole organisms. Speakers will give a critical overview of specific methodologies, focusing on their strengths and limitations and giving examples of where the methodologies have been appropriately applied.

Now in its 20th year, the popular Sunrise Free Radical School provides valuable didactic lectures specifically designed for attendees who are new to the redox biology field as well as more seasoned investigators in need of a refresher course.

The SFRBM 2014 Program Committee has worked hard to select sessions, which emphasize scientific excellence, and introduces both new investigators and novel research topics. Featured plenary sessions include:

- Insights into Mechanisms of Neurodegenerative Diseases
- The Keap1-Nrf2 Signaling Pathway: Role in Disease and Pharmacological Approaches
- Oxygen in Development and Cancer
- Important Biological Functions of the Neglected Sources of Reactive Oxygen Species

In addition to the usual extensive opportunities for networking we will be offering several career and professional development sessions including:

- Team Science: Overcoming the Challenges of Multidisciplinary Research Teams
- First Impressions: Presenting Your Science and Yourself — The “Elevator Pitch”
- Mock NIH Study Section
- Changing Roles: Moving From the Bench into Administrative Positions
- Opening Doors: The Leadership in You

SFRBM will continue its popular Young Investigator and Travel Awards to encourage and stimulate the next generation of scientists in our field throughout the Americas and worldwide.

Please come and join us this November in Seattle to share your passion for the most creative, dynamic and groundbreaking science in our field.

Sincerely,

Henry Jay Forman, Ph.D.

University of California, Merced and University of Southern California





FORMAT

KEY DATES TO REMEMBER

► FRIDAY, AUGUST 15

TRAVEL AWARD DEADLINE

Submission deadline for abstracts to be considered for a Travel Award. You must be a student or postdoc SFRBM member at the time of submission to be eligible for this award.

► MONDAY, SEPTEMBER 1

ABSTRACT & YIA AWARD DEADLINE

- Submission deadline for abstracts to be considered for either oral or poster presentation.
- Deadline for indicating you wish an abstract to be considered for a "Young Investigator Award (YIA)." **You must be a student or postdoc SFRBM member at the time of submission to be eligible for this award.**
- Presenting authors are limited to submitting one (1) abstract to be considered for a Young Investigator Award. SFRBM recommends authors submit their best work for YIA consideration.

► WEDNESDAY, OCTOBER 15

EARLY-BIRD DEADLINE, SAVE \$50

Deadline for early-bird conference registration. Registrations received after this time will be charged an additional \$50 late fee.

► FRIDAY, OCTOBER 17

HOTEL RESERVATION DEADLINE

Reservation deadline for conference rate of \$159 USD at the Sheraton Seattle. Reservations received after this date will be accepted on a space-available basis only and a higher hotel room rate may prevail.

► WEDNESDAY, NOVEMBER 19

- Pre-meeting Workshop: Translation of Redox Methodology from Bench to Bedside — Problems and Solutions
- Welcome Reception

► NOVEMBER 19 – 23, 2014

SFRBM 21st Annual Meeting

2014 will feature five days of scientific communication. A full-day pre-meeting workshop, "Translation of Redox Methodology from Bench to Bedside — Problems and Solutions" will be held Wednesday, November 19. Registration for the pre-meeting workshops is NOT included in your Annual Meeting registration fee and must be completed separately.

The Annual Meeting is scheduled for the following four days (Thursday through Sunday). Each day will begin with the popular Sunrise Free Radical School, continue with morning plenary lectures, afternoon professional development sessions, parallel thematic sessions and poster presentations. In addition, there will be several special programs and receptions to network with fellow scientists.

FREE RADICAL SCHOOL (8:00 AM - 9:00 AM)

For the 20th consecutive year, the Sunrise Free Radical School will kick off each day of our Annual Meeting. Led by Lin Mantell, MD, Ph.D., North Shore University Hospital and Luis E. S. Netto, Ph.D., University of São Paulo, Brazil, the Free Radical School is designed to provide a detailed overview of the basic concepts of free radical chemistry and biology and is targeted towards students, fellows and those wishing to learn about new areas. A faculty of highly respected investigators in free radical research will deliver lectures and provide key literature references in their subject areas.

PLENARY SESSIONS (9:30 AM - 12:00 PM)

Plenary sessions, which will be held during each morning of the annual meeting, will be comprised of speakers who will address common or closely related topics. Each will deliver a 20-25 minute talk followed by a 5-10 minutes question and answer session moderated by a 2-3 member panel. Topics to be covered include:

- Insights into Mechanisms of Neurodegenerative Diseases
- The Keap1-Nrf2 Signaling Pathway: Role in Disease and Pharmacological Approaches
- Oxygen in Development and Cancer
- Important Biological Functions of the Neglected Sources of Reactive Oxygen Species

AFTERNOON PARALLEL SESSIONS

ORAL PRESENTATIONS (2:30 pm - 4:15 pm)

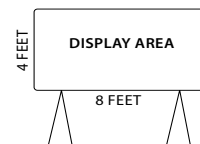
A number of high-quality abstracts are chosen from those submitted to the Society for primary authors to give 20-minute oral presentations of their research. Three concurrent sessions will be structured around basic topic areas and will feature 45 speakers.

POSTER SESSIONS (THURSDAY - SATURDAY)

FORMAL POSTER PRESENTATION (4:15 pm – 6:45 pm)

Authors must be present during this poster session time.

During each day of this three-day session, posters will be on display all day (9:00 am - 9:00 pm) and can be viewed at any time during this period. Each day, two and half hours of formal presentation time (4:15 pm – 6:45 pm) will be scheduled for authors to be available to discuss their work with other attendees. Poster boards for display of abstracts will again be 4 feet (122 cm) wide X 8 feet (244 cm) long for greater display area.



ABSTRACTS AND AWARDS

ABSTRACTS

DEADLINE: SEPTEMBER 1

Abstracts for oral or poster presentation consideration should be submitted online at <http://www.sfrbm.org/sections/annual-meeting/21st-annual-meeting>.

The deadline for submitting abstracts for SFRBM 2014 is Monday, September 1. **Submitted abstracts must be previously unpublished work.** Abstracts submitted for either oral and poster presentation consideration will be subject a double blind review process. Decisions on abstract acceptance for SFRBM 2014 will be posted on the SFRBM site during the week of October 6, 2014.

Abstracts must fit into a 3 in. (7.62 cm) wide x 4.75 in. (12.1 cm) high space within the online form. This is approximately 1900 characters. Abstracts that exceed this size will display a "TOO LONG" message during the proofreading stage and authors will be asked to resubmit an edited version. The site will set the font size of your abstract to an 8 pt. font and the abstract will appear in the abstract book in 8 pt. font.

All submitted abstracts will be published in the meeting's program and abstract book. If you would like an abstract to be considered for a Travel Award, abstracts must be received by Friday, August 15, 2014. Submission deadline to be considered for a Young Investigator Award is Monday, September 1, 2014. Please mark the appropriate box on the online abstract form.

TRAVEL AWARDS

DEADLINE: AUGUST 15

SFRBM's Outreach Committee are making Travel Awards available to students and postdocs who wish to attend SFRBM 2014 to present their research. Ten (10) awards at \$500 each will be presented to postdoc and student SFRBM members in the US. An additional ten (10) awards at \$1,000 each will be given by SFRBM to postdoc or student SFRBM members throughout the rest of the world.

Any student or postdoc wishing to submit an abstract for Travel Award consideration must check the appropriate box on the online abstract form and submit the abstract no later than Friday, August 15, 2014.

- Abstract judging will be based on research merit only and applicants must be the first author of the abstract.
- Winners will be notified during the week of October 6 about their award and will be given their check at the SFRBM 2014 Awards Banquet on November 22 as well as free meeting registration for the 2015 SFRBM Annual Meeting in Boston, MA or 2016 SFRBM Annual Meeting in San Francisco, CA.
- Travel Award winners are not eligible for Young Investigator Awards (YIA) given at the meeting.
- You may simultaneously apply for SFRBM membership when submitting an abstract for a Travel Award.
- Decisions on Travel Awards for SFRBM 2014 will be posted on the SFRBM site during the week of October 6, 2014.

YOUNG INVESTIGATOR AWARDS

DEADLINE: SEPTEMBER 1

SFRBM's "Young Investigator Awards" (YIAs) will be presented to graduate students and postdoctoral fellows based on the submitted abstract and the presentation of the work at the annual meeting, either in oral or poster symposia.

- Candidates must be first authors on a submitted abstract, must check the appropriate box on the electronic abstract form and must be fully registered to attend the meeting.
- Eligible graduate students must be enrolled in an accredited full-time doctoral degree program at the time of abstract submission.
- Eligible postdoctoral fellows must be engaged in full-time postdoctoral research and must have no more than five years of research experience beyond their doctoral degree.
- Finally, to be considered for the award, the author must be a postdoc or student SFRBM member. You may simultaneously apply for SFRBM membership when submitting an abstract for a YIA.

Presenting authors are limited to submitting one (1) abstract to be considered for a Young Investigator Award. SFRBM recommends authors submit their best work for YIA consideration.

YIA awardees will receive a \$500 stipend in recognition of their work as well as free meeting registration for the 2015 Annual Meeting in Boston, MA or the 2016 Annual Meeting in San Francisco, CA.



LOCATION

Sheraton Seattle

1400 6th Avenue, Seattle, WA 98101

Phone: (206) 621-9000

Reservations: (888) 627-7056

www.sheratonseattle.com



HOTEL RESERVATIONS

The Sheraton Seattle is the host hotel for SFRBM 2014. The hotel is located in the heart of downtown Seattle. A special room rate of \$159 USD per night single/double is available for all meeting participants. This rate is offered on a space-available basis through October 17, 2014. Please contact the Sheraton Reservations at (888) 627-7056 or (206) 621-9000 and indicate you are with "SFRBM 2014" to receive the special room rate or make your reservations on-line by visiting <http://www.sfrbm.org/sections/annual-meeting/21st-annual-meeting>.



ROOM SHARE PROGRAM

If you plan to attend the conference and wish to share a room with another conferee you do not know, please indicate this request (as well as your gender) on the enclosed registration form no later than November 1, 2014. SFRBM staff will then contact you to match you with a roommate as they become available. Matched roommates will be responsible for paying half of the room cost per night.

WORKSHOP AND SPECIAL PROGRAMS

WEDNESDAY, NOVEMBER 19, 2014

PRE-MEETING WORKSHOP 8:15 AM - 3:00 PM

TRANSLATION OF REDOX METHODOLOGY FROM BENCH TO BEDSIDE — PROBLEMS AND SOLUTIONS

Chairs: Corinne Spickett, Ph.D., Aston University, UK and Christine Winterbourn, Ph.D., University of Otago, New Zealand

Advances in redox biology depend on the availability of accurate and robust methods for detecting reactive oxygen species and identifying the products of their reactions. This is a challenging task and unfortunately, there are many otherwise excellent studies that have been let down by the misuse or misinterpretation of redox methodology. This workshop will critically assess how to study redox biology in cells, tissues and whole organisms. Speakers will give a critical overview of specific methodologies, focussing on their strengths and limitations and giving examples of where the methodologies have been appropriately applied.

Registration fees for the workshop, which includes lunch and course materials, are not included in the annual meeting tuition. Persons wishing to attend the workshop must clearly indicate their participation on the enclosed registration form. Attendance will be limited to the first 175 applicants, so it is advisable to register early! Participants should plan to arrive in Seattle on Tuesday to be ready for the Wednesday morning start.

Cost is \$175 per person for SFRBM members, \$200 for non-members.

KEYNOTE LECTURE 6:05 PM - 6:35 PM

TRANSLATING REDOX BIOLOGY TO MEDICINE *Mark Gladwin, MD, University of Pittsburgh*

SFRBM LIFETIME ACHIEVEMENT AWARD LECTURE 6:35 PM - 7:05 PM

A RADICAL NOTION: SPECIALIZATION IS FOR INSECTS *Jack Lancaster, Jr., Ph.D., University of Alabama at Birmingham*

WELCOME RECEPTION* 7:00 PM - 9:00 PM

THURSDAY, NOVEMBER 20, 2014

SFRBM YEAR IN REVIEW: ANNUAL MEMBER MEETING 12:00 PM - 12:30 PM

The member meeting will discuss past and future financial, administrative and academic activities of the society and recruit suggestions and comments from the general membership.

12TH ANNUAL OPENING DOORS EVENT 6:45 PM - 9:00 PM

THE LEADERSHIP IN YOU

Organized by Maria Clara Franco, Ph.D., University of Central Florida, Sumitra Miriyala, Ph.D., LSU Health Sciences Center – Shreveport, and the Women in Science Committee (WIS)

Possessing a great idea, assembling a team to bring that conception to life is the first step in creating a successful project. While finding a new and exclusive idea is exceptional enough; the ability to successfully execute this idea is what separates the dreamers from the entrepreneurs. As soon as you make that exciting first hire, you have taken the first steps in becoming a prevailing leader. When finance is tight, stress levels are high, and the visions of instant success don't happen like you thought, it's easy to let those emotions get to you, and thereby your team. Take a deep breath, calm yourself down, and remind yourself of the leader you are and would like to become one. Join us to learn to explore some key qualities that every good leader should possess, and learn to emphasize.

Cost is \$25 for student & postdocs, \$35 for senior investigators.

SATURDAY, NOVEMBER 21, 2014

NEW MEMBER MEETING 12:00 PM - 12:30 PM

This session will inform you of the activities and benefits of being a member of the Society and give you the opportunity to get all of your questions answered about SFRBM.

CLOSING/AWARDS BANQUET* 7:30 PM - 9:30 PM

The Awards Banquet on Saturday, November 22 will feature the recognition of Young Investigator and Travel Award winners and outstanding leaders in the field.

*The Welcome Reception and Awards Banquet are included in your registration fee.



CONFERENCE PROGRAM

WEDNESDAY, NOVEMBER 19

PRE-MEETING WORKSHOP

Translation of Redox Methodology from Bench to Bedside — Problems and Solutions

8:15 AM – 3:00 PM

Chairs: Corinne Spickett, Ph.D., Aston University, UK and Christine Winterbourn, Ph.D., University of Otago, New Zealand

8:15 AM – 8:30 AM

Setting the Scene

Christine Winterbourn, Ph.D., University of Otago, New Zealand

8:30 AM – 9:00 AM

Measuring Cellular Oxidizing Species with Small Molecule Luminescent Probes

Jacek Zielonka, Ph.D., Medical College of Wisconsin

9:00 AM – 9:30 AM

Detection and Interpretation of Physiological Forms of H₂S

Christopher Kevil, Ph.D., LSU Health Sciences Center

9:30 AM – 10:00 AM

Detection of H₂O₂ in Cells and Whole Organisms Using Genetically Encoded Fluorescent

Tobias Dick, Ph.D., German Cancer Research Center (DKFZ), Germany

10:00 AM – 10:30 AM Break

10:30 AM – 11:00 AM

Live Cell Imaging of the Glutathione Redox Potential

Andreas Meyer, Ph.D., University of Bonn, Germany

11:00 AM – 11:30 AM

Probing Oxidant-Modulated Cell Signaling Pathways Using Biosensors

Thomas Michel, MD, Ph.D., Brigham and Women's Hospital, Harvard Medical School

11:30 AM – 12:00 PM

Detection of Oxylipids and Their Relevance in Disease

Ginger Lohr Milne, Ph.D., Vanderbilt University

12:00 PM – 1:00 PM Lunch



1:00 PM – 1:30 PM

Advantage and Limitations of Mass Spectrometry as a Diagnostic Tool for Redox Biology

Corinne Spickett, Ph.D., Ashton University, UK

1:30 PM – 2:00 PM

Assessing the Ability of Micronutrients to Act as Inducers of Nrf2 Signaling

Thomas Kensler, Ph.D., University of Pittsburgh

2:00 PM – 2:30 PM

Redox Proteomics: A Versatile Tool to Study Thiol-based Redox Regulation

Lars Leichert, Ph.D., Ruhr University Bochum, Germany

2:30 PM – 3:00 PM

Measuring Oxidative Damage to DNA and Assessing its Clinical Relevance

Andrew Collins, Ph.D., University of Oslo, Norway

► ANNUAL MEETING BEGINS

OPENING SESSION

6:00 PM – 6:05 PM

SFRBM President's Welcome

Henry Jay Forman, Ph.D., University of California, Merced and University of Southern California

6:05 PM – 6:35 PM

Keynote Lecture — Translating Redox Biology to Medicine

Mark Gladwin, MD, University of Pittsburgh

6:35 PM – 7:05 PM

SFRBM Lifetime Achievement Award

A Radical Notion: Specialization is for Insects

Jack Lancaster, Jr., Ph.D., University of Alabama at Birmingham

7:00 PM – 9:00 PM Welcome Reception

9:00 PM – 12:00 AM Hospitality

CONFERENCE PROGRAM

THURSDAY, NOVEMBER 20

SUNRISE FREE RADICAL SCHOOL

Back to the Basics

8:00 AM – 9:00 AM

*Chairs: Lin Mantell, MD, Ph.D., North Shore University Hospital and
Luis E. S. Netto, Ph.D., University of São Paulo, Brazil*

8:00 AM – 8:30 AM

How SOD Goes Bad in ALS

Joe Beckman, Ph.D., Linus Pauling Institute

8:30 AM – 9:00 AM

Redox Homeostasis in Neurodegenerative Diseases

Jeffrey Johnson, Ph.D., University of Wisconsin-Madison

PLENARY SESSION

Insights Into Mechanisms of Neurodegenerative Diseases

*Chairs: Catherine Clarke, Ph.D., University of California, Los Angeles and
Jon Fukuto, Ph.D., The California State University, Sonoma*

The brain is particularly susceptible to free radical damage; oxidative stress indices have been documented across neurodegenerative diseases, including Huntington disease (HD), Parkinson disease (PD) and amyotrophic lateral sclerosis (ALS). Intriguingly, these diseases are also characterized by protein aggregation, inflammation, mitochondrial dysfunction, and damage to large and small molecules, including proteins and lipids. In this plenary session four leading experts will highlight recent insights into the key processes impacted in neurodegenerative diseases, and how their work has identified therapeutic targets.

9:30 AM – 10:00 AM

Oxidative Induction of Cellular Senescence in the Brain: A Novel Therapeutic Target in Parkinson's Disease

Julie Andersen, Ph.D., Buck Institute for Research on Aging

10:00 AM – 10:30 AM

Understanding the Pathways that Lead to Nerve Cell Death in Huntington's Disease

Lisa Ellerby, Ph.D., Buck Institute for Research on Aging

10:30 AM – 11:00 AM Break

11:00 AM – 11:30 AM

Targeting Free Radicals: A Valid Therapeutic Approach for Huntington's Disease?

Marie-Francoise Chesselet, MD, Ph.D., UCLA Neurobiology

11:30 AM – 12:00 PM

Roles for Oxidative Stress in Sarcopenia and Amyotrophic Lateral Sclerosis

Holly Van Remmen, Ph.D., Oklahoma Medical Research Foundation

12:00 PM – 12:30 PM

SFRBM Year In Review: Annual Member Meeting

12:30 PM – 2:30 PM Lunch

Attendees on own or attend a professional development session

1:00 PM – 2:15 PM

PROFESSIONAL DEVELOPMENT SESSION I

Team Science: Overcoming the Challenges of Multidisciplinary Research Teams

1:00 PM – 2:15 PM

PROFESSIONAL DEVELOPMENT SESSION II

First Impressions: Presenting Your Science and Yourself — The "Elevator Pitch"

*Victor Darley-Usmar, Ph.D., University of Alabama at Birmingham
Sponsored by the Trainee Council*

2:30 PM – 4:15 PM

Oral Presentations From Submitted Abstracts

3 concurrent sessions

4:15 PM – 6:45 PM Formal Poster Presentations

6:30 PM – 8:00 PM

FRBM and Redox Biology Editorial Board Reception

6:45 PM – 9:00 PM

Opening Doors Event: The Leadership in You

*Organized by Maria Clara Franco, Ph.D., University of Central Florida,
Sumitra Miriyala, Ph.D., LSU Health Sciences Center - Shreveport, and the
Women in Science Committee (WIS)*

9:00 PM – 12:00 AM Hospitality

MARK YOUR
CALENDAR EARLY!
SFRBM 2015
November 18 – 22, 2015
Westin Waterfront Hotel, Boston, MA, USA



CONFERENCE PROGRAM

FRIDAY, NOVEMBER 21

SUNRISE FREE RADICAL SCHOOL

Back to the Basics

8:00 AM – 9:00 AM

*Chairs: Lin Mantell, MD, Ph.D., North Shore University Hospital and
Luis E. S. Netto, Ph.D., University of São Paulo, Brazil*

8:00 AM – 8:30 AM

Detection of Electrophile-Sensitive Proteins

Aimee Landar, Ph.D., University of Alabama at Birmingham

8:30 AM – 9:00 AM

NRF2 in Human Diseases

Steven Kleeberger, Ph.D., NIEHS

PLENARY SESSION

The KEAP1-NRF2 Signaling Pathway: Role in Disease and Pharmacological Approaches

*Chairs: Anna-Liisa Levonen, MD, Ph.D., University of Eastern, Finland
and Francisco Jose Schopfer, MBA, Ph.D., University of Pittsburgh*

The redox-sensitive transcription factor Nrf2 is an important regulator of cellular antioxidant defenses and a lucrative target for therapy, given its role in various degenerative diseases and cancer. Herein, we aim at giving the current view of the role of Nrf2 in the age-related diseases in brain, liver regeneration and its emerging dual role in cancer. In addition, therapeutic approaches to either increase or decrease Nrf2 activity via e.g. targeting Keap1, the inhibitor of Nrf2, will be discussed.

9:30 AM – 10:00 AM

Targeting the Keap1/Nrf2 Pathway for Chemoprotection

Albena Dinkova-Kostova, Ph.D., University of Dundee, UK

10:00 AM – 10:30 AM

The Nrf2-Keap1-ARE Pathway and its Dual Role in Cancer

Donna Zhang, Ph.D., University of Arizona

10:30 AM – 11:00 AM Break

11:00 AM – 11:30 AM

Crosstalk Between Nrf2 and Notch Signaling

Nobunao Wakabayashi, Ph.D., University of Pittsburgh

11:30 AM – 12:00 PM

Development of a Novel Neuroprotective Strategy by the Cooperative Transcriptional Network Centered on Nrf2

Ken Itoh, MD, Ph.D., Hirotsuki University, Japan

12:00 PM – 12:30 PM Mini-Fellowship Grant Lecture

12:30 PM – 2:30 PM Lunch

Attendees on own or attend a professional development session

1:00 PM – 2:15 PM

PROFESSIONAL DEVELOPMENT SESSION III

Mock NIH Study Section

Neil Hogg, Ph.D., Medical College of Wisconsin and Francis Miller, MD, University of Iowa

1:00 PM – 2:15 PM

PROFESSIONAL DEVELOPMENT SESSION IV

Changing Roles: Moving From the Bench into Administrative Positions

*Kelly Andringa, Ph.D., University of Alabama - Birmingham and
Victor Darley-Usmar, Ph.D., University of Alabama - Birmingham*

2:30 PM – 4:15 PM

ORAL PRESENTATIONS FROM SUBMITTED ABSTRACTS

3 concurrent sessions

4:15 PM – 6:45 PM Formal Poster Presentations

9:00 PM – 12:00 AM Hospitality



SATURDAY, NOVEMBER 22

SUNRISE FREE RADICAL SCHOOL

Back to the Basics

8:00 AM – 9:00 AM

*Chairs: Lin Mantell, MD, Ph.D., North Shore University Hospital and
Luis E. S. Netto, Ph.D., University of São Paulo, Brazil*

8:00 AM – 8:30 AM

• NO, Chemical Biology and Cancer Etiology

Douglas Thomas, Ph.D., University of Illinois at Chicago

8:30 AM – 9:00 AM

Oxygen in Human Health: From Life to Death

Margaret Briehl, Ph.D., University of Arizona

CONFERENCE PROGRAM

PLENARY SESSION

Oxygen in Development and Cancer

*Chairs: Marcelo Bonini, Ph.D., University of Illinois at Chicago and
Sruti Shiva, Ph.D., University of Pittsburgh*

Oxygen is possibly the one major reason why life on Earth evolved and thrived. However some organisms and even mammalian cells adapted to survive under extremely low oxygen levels. These include stem cells, hematopoietic stem cells and cancer cells which share surprising and unexpected metabolic, adaptative and functional characteristics. Work by the four proposed speakers has revolutionized our understanding of the intricate mechanisms by which oxygen availability rewires signaling and forces metabolic adaptations that in health maintain a health pool of progenitor cells and in cancer contribute to the appearance of tumorigenic and metastatic cells. Their recent works have also opened new opportunities of research with tremendous translational and clinical potential thereby being of superior value to SFRBM and its members.

9:30 AM – 10:00 AM

Oxygen-dependent Regulation of Cancer Epigenetics

Lynne Postovit, Ph.D., University of Alberta, Canada

10:00 AM – 10:30 AM

Manganese Superoxide Dismutase Regulates a Metabolic Switch During the Mammalian Cell Cycle

Prabhat Goswami, Ph.D., The University of Iowa

10:30 AM – 11:00 AM Break

11:00 AM – 11:30 AM

The Hypoxic Control of Stemness

Hannele Ruohola-Baker, Ph.D., University of Washington

11:30 AM – 12:00 PM

Hypoxia and ROS Activate AMPK in Tumors: What is the Problem?

Poul Sorensen, MD, Ph.D., FRCPC, University of British Columbia, Canada

12:00 PM – 12:30 PM New Member Welcome Meeting

12:30 PM – 2:30 PM Lunch (Attendees on own)

1:00 PM – 2:15 PM

SPECIAL SESSION

Goals and Priorities of the National Institute of Environmental Health Sciences (NIEHS)

Leslie Reinlib, Ph.D., NIEHS, NIH

2:30 PM – 4:15 PM

Oral Presentations From Submitted Abstracts

3 concurrent sessions

4:15 PM – 6:45 PM Formal Poster Presentations

7:30 PM – 9:30 PM Closing Awards Banquet

9:00 PM – 12:00 AM Hospitality

SUNDAY, NOVEMBER 23

PLENARY SESSION

Important Biological Functions of the Neglected Sources of Reactive Oxygen Species

*Chairs: Ralf Brandes, MD, Goethe-University, Germany and
Jeannette Vasquez-Vivar, Ph.D., Medical College of Wisconsin*

Despite the fact that most researchers acknowledge that cellular reactive oxygen species (ROS) are produced by numerous systems, current research focusses almost exclusively on three sources: Nox enzymes, mitochondrial respiratory chain and NO synthases. Given the biological importance of other sources radicals, this attention bias has to be acknowledged. This session therefore highlights the biomedical importance of other enzymatic sources of ROS. The audience will be informed that these enzymes are equally important as radical generators under certain conditions and should receive more attention.

8:30 AM – 9:00 AM

Monoamine Oxidase — Not Just to Detoxify Catecholamines in Nerves

Fabio Di Lisa, MD, University of Padua, Italy

9:00 AM – 9:30 AM

Lysyl Oxidases: Emerging Promoters of Senescence Escape, Tumor Initiation and Progression

David Bernard, Ph.D., Centre de Recherche en Cancerologie de Lyon, France

9:30 AM – 9:45 AM Break

9:45 AM – 10:15 AM

Xanthine Oxidase: A Janus-faced Enzyme in Intestinal Infection

John Crane, MD, Ph.D., University at Buffalo, NY

10:15 AM – 10:45 AM

Aldehyde Oxidase: Another Important Source of ROS in Biological Tissues

Jay Zweier, MD, The Ohio State University

10:45 AM Adjourn



Photos provided by visitseattle.org © Howard Frisk and © Tim Thompson

OTHER IMPORTANT INFORMATION

ANNUAL MEETING REGISTRATION

Annual Meeting Conference Registration Includes:

- Networking opportunities with scientists and potential collaborators from around the world
- Access to three days of educational sessions and symposia (Thursday – Sunday)
 - Sunrise Free Radical School
 - Plenary Sessions
 - Oral Presentations from selected abstracts
 - Poster Sessions
- Continental Breakfast & Coffee Breaks (Thursday – Sunday)
- Complimentary attendance to Professional Development Sessions
- Opening Reception (Wednesday evening)
- One ticket to the Awards Banquet (Saturday evening)
- Poster and Networking Sessions/Receptions (Thursday – Saturday)
- Hospitality Room for networking with junior and senior scientists (Wednesday – Saturday evenings)
- Access to Exhibit Hall where you can learn more about the latest products and services that can assist you in your research
- Entrance to the SFRBM Annual Member Meeting
- Formally provided poster space to display your research

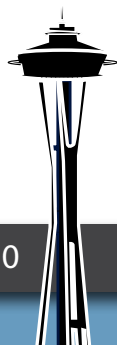
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TRAVEL INFORMATION

The Seattle/Tacoma International Airport (SEA) is approximately 16 miles from the Sheraton Seattle. Taxi service is available; average cost is \$40 one-way from the Seattle/Tacoma International Airport. Shuttle service is available by Shuttle Express for approximately \$18 one way (\$31 round trip) from the airport to the Sheraton Seattle. The Light Rail is available for \$2.75 one way and will take approximately 35 minutes each way. For further transportation options, please visit: <http://www.sheratonseattle.com/transportation>.



"GREEN" MEETING MATERIALS

Participants will be provided with the Program and Abstract book on a USB drive, which indexes all plenary lectures, oral presentation and poster symposia abstracts by topic. The book is produced as a supplement to the Society's journal, *Free Radical Biology and Medicine (FRBM)*, making the abstracts contained within scientifically citeable. In addition, the course materials for the Sunrise Free Radical School will also be distributed at the Annual Meeting. Attendees will also receive a list of all meeting participants and speakers. Upon request, attendees may also receive an official certificate of attendance.

USB Drive: Attendees will receive an SFRBM USB drive that will contain the SFRBM program and abstract book.

If you wish to receive a "printed" version of the program and abstract book, the cost will be \$15 and you must pre-order the printed program and abstract book on the registration form. Extra printed copies will not be available at the meeting.

OFFICIAL LANGUAGE

English is the official language of SFRBM 2014. No simultaneous translation will be provided.

CME CREDIT

NO Category 1 CME Credits will be offered for SFRBM 2014.

QUESTIONS?

Questions about SFRBM 2014 can be directed to SFRBM via phone at (317) 205-9482, fax at (317) 205-9481 or e-mail at info@sfrbm.org. Registration forms can be mailed to: SFRBM, 8365 Keystone Crossing, Suite 107, Indianapolis, IN 46240.

CANCELLATIONS & REFUNDS

Fees include all receptions, breaks and banquet. Requests for refunds will be honored if received in writing by November 5, 2014. Please note that all refunds will be issued AFTER the meeting and will be subject to a \$50 processing fee.

VISIT WWW.SFRBM.ORG FOR THE FURTHER INFORMATION AND THE MOST CURRENT PROGRAM.

SFRBM 2014 REGISTRATION FORM

Name: _____ Degree: _____

Affiliation: _____

Address: _____ City: _____ State: _____ Zip: _____

Country: _____ Phone: _____ Fax: _____

Email: _____

Require SFRBM to assign you a roommate: ☐ Yes ☐ No If yes, registrant is: ☐ Male ☐ Female Arrival Date: _____ Departure Date: _____

If yes, may SFRBM share your email address with others interested in a roommate? ☐ Yes ☐ No

☐ New Member ☐ First Time Attendee Saturday Banquet Choice: (please check one) ☐ Chicken ☐ Fish ☐ Vegetarian ☐ Not Attending

REGISTRATION FEES:

PRE-REGISTERED (BY OCT. 15)

LATE & ONSITE

☐ SFRBM Member – Full/Associate

☐ \$535

☐ \$585

☐ SFRBM Member – Student/Postdoc*

☐ \$275

☐ \$325

*Post-doc Members are those with five (5) years or less from the date they received their doctorate.

☐ SFRBM Member – Emeritus

☐ \$250

☐ \$300

☐ SFRRRI Member**

☐ \$535

☐ \$585

**The SFRBM member fee is extended to all SFRRRI members, provided proof of current membership in an SFRRRI-affiliate society is provided upon registration

☐ Non-Member

☐ \$685

☐ \$735

☐ Non-Member – Student/Postdoc

☐ \$350

☐ \$400

☐ One-Day Pass* Day attending: _____

☐ \$225

☐ \$250

*Cost is the same for members and non-members. If attending only on Saturday, this does not include the Saturday evening banquet.

☐ Guest Registration (Receptions, Banquet & Hospitality only)

☐ \$150

☐ \$200

Guest Name: _____

☐ Printed SFRBM 2014 Program & Abstract Book

☐ \$15

All attendees will receive a USB drive with an electronic version of the 2014 Program and Abstracts. Select now if you would like to order a printed copy. Only the quantity ordered will be printed. You will NOT be able to purchase at the meeting.

PRE-MEETING WORKSHOP:

Translation of Redox Methodology from Bench
to Bedside – Problems and Solutions

☐ \$175 member

☐ \$225 member

☐ \$200 non-member

☐ \$250 non-member

OPENING DOORS EVENT:

The Leadership in You

☐ \$25 Student/Postdoc

☐ \$30 Student/Postdoc

☐ \$35 Senior Investigator

☐ \$40 Senior Investigator

PROFESSIONAL DEVELOPMENT SESSIONS 1:00 PM – 2:15 PM:

You may choose to attend one session per day. These sessions are complimentary and part of your conference registration.

THURSDAY, NOVEMBER 20

FRIDAY, NOVEMBER 21

☐ Team Science: Overcoming the Challenges of Multidisciplinary Research Teams

☐ Mock NIH Study Section

☐ First Impressions: Presenting Your Science and Yourself - The "Elevator Pitch"

☐ Changing Roles: Moving From the Bench into Administrative Positions

SPECIAL SESSION 1:00 PM – 2:15 PM: This session is complimentary and part of your conference registration.

SATURDAY, NOVEMBER 22 ☐ Goals and Priorities of the NIEHS

METHOD OF PAYMENT: ☐ Check** ☐ Visa ☐ Mastercard ☐ AmEx

Card Number: _____ Exp. Date: _____

Cardholder Name (please print): _____ Signature: _____



PHONE REGISTRATIONS ARE NOT ACCEPTED. Please select one of the following three options:
www.sfrbm.org or fax: (317) 205-9481 or SFRBM - 8365 Keystone Crossing, Suite 107, Indianapolis, IN 46240

It is very important that you enjoy SFRBM 2014. If due to a disability, you have any special needs or requirements, please call (317) 205-9482 and we will do our best to accommodate your needs. For additional registrants, please make photocopies of this form. Full registration fees must accompany this form.



Society for Free Radical Biology and Medicine
8365 Keystone Crossing, Suite 107
Indianapolis, IN 46240

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PROFESSIONAL DEVELOPMENT SERIES

THURSDAY AND FRIDAY – 1:00 PM - 2:15 PM

THURSDAY, NOVEMBER 20

TEAM SCIENCE: OVERCOMING THE CHALLENGES OF MULTIDISCIPLINARY RESEARCH TEAMS

The major funding agencies have embraced collaborative or “team science” approaches. This workshop will feature a panel of established investigators working within academic, industry or government settings with diverse experiences in building and leading multidisciplinary teams. The panel will engage the participants in conversations about the importance and challenges of working with-in cross-disciplinary teams. Topics for discussion include assembling investigators from diverse fields; utilization of resources to support cross-disciplinary teams, leadership traits that facilitate effective and creative team dynamics; and academic promotion and authorship in the era of team science.

FIRST IMPRESSIONS: PRESENTING YOUR SCIENCE AND YOURSELF — THE “ELEVATOR PITCH”

Communication is one of the key attributes of a successful scientist. Whether you are interviewing for a position, taking a visiting politician on a lab tour, or wooing a potential collaborator at a conference, it is important to know how to present yourself and your work in a concise and effective manner. This workshop will teach techniques to develop your “elevator pitch” — a short, clear, and concise synopsis of yourself and your research. Discussion will include tailoring your elevator pitch to both experts and lay people.

Bring your lunch, join colleagues and plan to attend an introductory session. The sessions for 2014 have been tailored for both the junior and mid-level investigators.

FRIDAY, NOVEMBER 21

NIH MOCK STUDY SECTION

This workshop will simulate how study sections review submitted research proposals at the NIH. Participants will have an opportunity to register to be a study section member prior to the meeting and will be assigned actual twelve-page K and R grants for which they will be expected to prepare a written critique and discuss during a simulated study section.

CHANGING ROLES: MOVING FROM THE BENCH TO ADMINISTRATIVE POSITIONS

It can happen at different stages of your career - perhaps you have moved through the faculty ranks to become a tenured professor and now you are being offered a position within the institution's administration. Or perhaps after a couple years at the bench you are considering a career change. Should you stay in your comfortable world or should you venture into the unknown realm of administration? This workshop will present two distinct perspectives of the challenges and the benefits of academic administrative positions.