24TH ANNUAL MEETING OF THE
SOCIETY FOR REDOX BIOLOGY AND MEDICINE

PRELIMINARY PROGRAM
& REGISTRATION MATERIALS

SfRBM
2017

NOVEMBER 29 - DECEMBER 2 • HILTON BALTIMORE

Baltimore, Maryland
The Society for Redox Biology and Medicine (SfRBM) is excited to invite you to attend our 24th Annual Meeting to be held November 29 – December 2, 2017, in Baltimore, Maryland (SfRBM 2017).

The meeting continues the strong tradition of the SfRBM Annual Meeting as a premier venue for cutting edge research in all aspects of redox biology, featuring the latest technologies and applications in basic and translational research. SfRBM 2017 will include plenary speakers, selected abstracts, posters and attendees from around the globe.

SfRBM has always nurtured a collegial environment for the open exchange of the latest scientific advances, whether from a first-year graduate student or from established investigators. Our 2017 program offers a broad and extensive range of topics from leaders in our field. Through poster symposia or our popular oral presentation sessions – where forty-five abstracts will be selected for oral presentation through a rigorous peer review process – your most creative, dynamic and exciting science will be on display.

In partnership with the National Cancer Institute (NCI), SfRBM 2017 will kick off with a full day pre-meeting workshop on Wednesday titled, “Basic to Translational Understanding in Redox Physical Oncology.”

Highlights of SfRBM 2017 begin with the Wednesday evening opening plenary session titled, “Translational Aspect of Redox Signaling,” and the Welcome Reception. SfRBM 2017 continues Thursday through Saturday with plenary sessions and the popular Sunrise Free Radical School (SFRS), now in its 23rd year! SFRS provides valuable didactic lectures especially 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 2017 Program Committee worked hard to select sessions which emphasize scientific excellence and introduce both new investigators and novel research topics. Again this year, to enhance the educational value during SfRBM, we increased the number of plenary sessions on Thursday and Friday mornings.

Featured plenary sessions include:
- Translational Aspects of Redox Signaling
- Selenium in Biology and Medicine
- Ferroptosis: The Rancid Smell of Death
- Redox Control of Calcium Homeostasis in Health and Disease
- Redox Biology of Normal vs Tumor Cells: A Therapeutic Target
- Mitochondrial Dynamics in Health and Disease

In addition to the usual extensive opportunities for networking, we will be offering several career and professional development sessions including:
- Opening Doors Event: Who is the Indiana Jones of Your Team?
- Professional Development Series
  - Speed Mentoring
  - Visual Arts
  - How to Deal with Failure?
  - Science Policy

As always, some of the most exciting research will be communicated through the three-day poster symposium. SfRBM will also continue our very popular Young Investigator and Travel Awards to encourage and stimulate the next generation of scientists in our field throughout the Americas and worldwide.

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

Rick Domann, Ph.D., President, SFRBM
The University of Iowa
PROGRAM GOALS

- Explore the latest issues in redox biology, a unifying theme in the pathophysiology of human diseases
- 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 29 – Saturday, December 2, 2017**

SfRBM 2017 will begin with a featured full day pre-meeting workshop, “Basic to Translational Understanding in Redox Physical Oncology,” to be held on Wednesday, November 29.

Pre-Meeting workshop participants should arrive by Tuesday evening, November 28, in order to attend the full-day program that starts on Wednesday morning.

The Registration Desk will open at 5:00 pm on Tuesday, November 28.

**PLAN TO ARRIVE** in Baltimore no later than Wednesday afternoon as SfRBM 2017 will officially kick off on Wednesday evening at 5:30 pm with a featured plenary session, “Translational Aspects of Redox Signaling,” followed by the Welcome Reception.

KEY DATES TO REMEMBER

**TUESDAY, 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.

**FRIDAY, 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.

**SUNDAY, 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 27**

**HOTEL RESERVATION DEADLINE**

- Reservation deadline for conference rate of $165 USD at the Hilton Baltimore. Reservations received after this date will be accepted on a space-available basis only and a higher hotel room rate may prevail.

**WEDNESDAY, NOVEMBER 29**

- Pre-meeting Workshop, Basic to Translational Understanding in Redox Physical Oncology
- SfRBM 2017 Opening Session
- Welcome Reception

**NOVEMBER 29 – DECEMBER 2, 2017**

**Official Meeting Dates ➔ SfRBM 2017**
WEDNESDAY, NOVEMBER 29, 2017

7:00 am – 6:30 pm  
REGISTRATION/INFORMATION DESK

Pre-Meeting Workshop

8:00 am – 3:45 pm  
Full Day Pre-Meeting Workshop Partnership with the National Cancer Institute (NCI)  
Basic to Translational Understanding in Redox Physical Oncology  
Chair: Michael Graham Espey, Ph.D., NIH, USA  
This workshop is designed to explore the concept of Redox Physical Oncology. The use of advanced technologies to study and understand the roles of redox effectors in cancer processes will be highlighted in sessions that span both basic mechanistic studies and translational work on tumor cells and physical microenvironment dynamics.

8:00 am – 8:15 am  
Welcome  
Rick Domann, Ph.D., The University of Iowa, USA and Paul Rothman, MD, Johns Hopkins University School of Medicine, USA

8:15 am – 10:30 am  
Session 1: Cancer Redox Cartography  
Session Chairs: Rick Domann, Ph.D., The University of Iowa, USA and Zaver Bhujwalla, Ph.D., Johns Hopkins University School of Medicine, USA

8:15 am – 8:50 am  
The Cancer Metallome  
Thomas O’Halloran, Ph.D., Northwestern University, USA

8:50 am – 9:25 am  
The When and Where of Intracellular H$_2$O$_2$  
Melissa Kemp, Ph.D., Georgia Institute of Technology, USA

9:25 am – 9:45 am  
Break

9:45 am – 10:25 am  
New Dimensions in Hypoxia and Cancer Metastasis  
M. Celeste Simon, Ph.D., University of Pennsylvania, USA

10:25 am – 11:00 am  
In Vivo Imaging of Metastasis  
John Condeelis, Ph.D., Albert Einstein College of Medicine, USA

11:00 am – 12:10 pm  
Session 2: Translation of Redox Physical Oncology  
Session Chair: Kenneth Pienta, MD, Johns Hopkins University School of Medicine, USA

11:00 am – 11:35 pm  
Challenges in Oxygen and Redox Modifiers  
Mark Dewhirst, DVM, Ph.D., Duke University, USA

11:35 am – 12:10 pm  
Drugging the Tumor Microenvironment  
Amato Giaccia, Ph.D., Stanford University, USA

12:10 pm – 1:00 pm  
Meet the Experts Lunch

1:00 pm – 3:40 pm  
Session 3: Cancer Cell Biology Dynamics  
Session Co-Chairs: Sharon Gerecht, Ph.D., Johns Hopkins University School of Medicine, USA and Michael Graham Espey, Ph.D., NCI, USA

1:00 pm – 1:35 pm  
Metabolic Reprogramming and Tumor Hypoxic Stresses  
M. Celeste Simon, Ph.D., University of Pennsylvania, USA

1:35 pm – 2:10 pm  
The Mito-Metastasis Axis  
Dario Altieri, MD, The Wistar Institute Cancer Center, USA
2:10 pm – 2:30 pm  Break

2:30 pm – 3:05 pm  Roles of Mitochondria in Quality Control & Asymmetry in Cancer  
Rong Li, Ph.D., Johns Hopkins University School of Medicine, USA

3:05 pm – 3:40 pm  Born Different: Metabolic Maintenance of Asymmetric Cell Division  
Douglas Green, Ph.D., St. Jude Children’s Research Hospital, USA

3:40 pm – 3:45 pm  NCI Funding Opportunities  
Michael Graham Espey, Ph.D., NCI, USA

3:45 pm  Closing Remarks and Adjournment  
Rick Domann, Ph.D., The University of Iowa, USA

ANNUAL MEETING BEGINS

5:30 pm – 7:10 pm  OPENING SESSION

5:30 pm – 5:40 pm  SfRBM President’s Welcome  
Rick Domann Ph.D., The University of Iowa, USA, SfRBM President

PLENARY SESSION
5:40 am – 7:10 pm  Translational Aspects of Redox Signaling
Chairs: Katrin Schröder, Ph.D., Goethe-University, Frankfurt am Main, Germany and Albert van der Vliet, Ph.D., University of Vermont, USA

ROS are important second messengers in cellular signaling and thereby play a crucial role in health and disease. Indeed specific redox modifications such as S-glutathionylation or other oxidative protein modifications have been shown to be related to cardiovascular or pulmonary diseases and successful translation of the knowledge derived from basic research to clinical or therapeutic applications will require a more complete understanding of specific redox events, and development of more selective approaches to target such specific events rather than generic antioxidant approaches which have had limited clinical application. This session will highlight some recent advances in this field and novel approaches to translate experimental findings into pharmacologic and clinical applications.

5:40 pm – 6:10 pm  The Regulation of Nox in Vascular Disease  
Francis Miller, MD, Duke University, USA

6:10 pm – 6:40 pm  Redox Regulation of Kinases in the Heart  
Friederike Cuello, Ph.D., University of Hamburg, Germany

6:40 pm – 7:10 pm  Glutathione, Glutaredoxin and S-glutathionylation in Lung Disease  
Yvonne Janssen-Heininger, Ph.D., University of Vermont, USA

7:15 pm – 8:30 pm  WELCOME RECEPTION

7:15 pm – 8:30 pm  TRAINEE / MENTOR & MENTEE RECEPTION

9:00 pm – 11:00 pm  HOSPITALITY

THURSDAY, NOVEMBER 30, 2017

8:00 am – 9:00 am  SUNRISE FREE RADICAL SCHOOL  
Back to the Basics
Chairs: Ralf Brandes, MD, Goethe-University, Frankfurt am Main, Germany and Jianhua Zhang, Ph.D., University of Alabama at Birmingham, USA

8:00 am – 8:30 am  Selenium in Biology and Medicine  
Trent Tipple, MD, University of Alabama at Birmingham, USA

8:30 am – 9:00 am  Ferroptosis and Neurodegeneration  
Qitao Ran, Ph.D., UTHSCSA, USA

PLENARY SESSION 1
9:30 am – 12:00 pm  Selenium in Biology and Medicine: Celebrating the Discovery of Selenium by Jacob Berzelius and its Discovery in Biomolecules  
by Terry Stadtman
Chairs: Rodney Levine, NIH, MD, Ph.D., USA and Sue Goo Rhee, Ph.D., Yonsei University College of Medicine, South Korea

2017 is the 200th anniversary of the discovery of selenium by the Swedish chemist, Berzelius. He recognized that this new element had properties similar to sulfur, even though it was a metal. The American biochemist Thressa Stadtman, who died last year, made major contributions to understanding selenium’s roles in biology and has been referred to as “The Mother of Selenium Biochemistry.”
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| 9:30 am – 10:00 am | Scientific Discoveries: Berzelius, Stadtman, and the Chemistry of Selenium  
                    | Buhm Soon Park, Ph.D., KAIST (Korea Advanced Institute of Science and Technology)/ Harvard Kennedy School, USA |
| 10:00 am – 10:30 am | How Selenocysteine Altered Our Understanding of Redox Biology     
                    | Vadim Gladyshev, Ph.D., Harvard Medical School, USA                  |
| 10:30 am – 11:00 am | Break                                                                   |
| 11:00 am – 11:30 am | Selenium Status in Health & Disease                                     
                    | Margaret Rayman, DPhil, University of Surrey, UK                      |
| 11:30 am – 12:00 pm | Differential Function of Catalase, Glutathione Peroxidase, and Peroxiredoxin 
                    | in Mouse Red Blood Cells                                             
                    | Sue Goo Rhee, Ph.D., Yonsei University College of Medicine, South Korea |

**PLENARY SESSION 2**

9:30 am – 12:00 pm  
**Ferroptosis: The Rancid Smell of Death**

*Chairs: Marcus Conrad, Ph.D., Helmholtz Zentrum Munchen, Germany and Maret Traber, Ph.D., Linus Pauling Institute, USA*

Ferroptosis is a novel form of regulated necrotic cell death characterized by iron-dependent lipid peroxidation, which has attracted increased attention as a potential new anti-cancer strategy. With the identification of key enzymatic players, such as system Xc-, GPX4, ACSL4 and the micronutrient alpha-tocopherol, ferroptosis has been recognized to intersect at the cross-roads of cysteine/glutathione and polyunsaturated fatty acid metabolism. Therefore, it is now accepted that ferroptosis is not only an attractive anti-cancer strategy but that it is also implicated in a broad range of pathological conditions including neurodegeneration. With the advance of our knowledge on how to tip the ferroptosis scale, present and future research will provide insightful evidences on the beneficial effects of inducing or halting this form of cell death in defined pathological settings.

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| 9:30 am – 10:00 am | Ferroptosis: Mechanisms and Therapeutic Applications                        
                    | Brent Stockwell, Ph.D., Columbia University, USA                         |
| 10:00 am – 10:30 am | Oxidation of Phosphatidylethanolamines as Ferroptotic Signals: Control by Lipoxygenases  
                    | Valerian Kogan, Ph.D., ScD, University of Pittsburgh, USA              |
| 10:30 am – 11:00 am | Break                                                                   |
| 11:00 am – 11:30 am | Ferroptosis, Mechanism of Cell Death in Vitamin E Deficiency During Embryogenesis?  
                    | Maret Traber, Ph.D., Linus Pauling Institute, USA                      |
| 11:30 am – 12:00 pm | In Vivo Relevance of Ferroptotic Cell Death                                
                    | Marcus Conrad, Ph.D., Helmholtz Zentrum Munchen, Germany               |
| 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 the professional development session     |
| 1:00 pm – 2:15 pm | **PROFESSIONAL DEVELOPMENT SESSION I**  
                    | Speed Mentoring                                                        |
                    | An opportunity to gather career advice from numerous attendees/mentors with a variety of backgrounds. |
| 1:00 pm – 2:15 pm | **PROFESSIONAL DEVELOPMENT SESSION II**  
                    | Visual Arts                                                            |
                    | Learn to enhance your manuscript figures and online presence.           |
| 2:30 pm – 4:15 pm | **ORAL PRESENTATIONS FROM SUBMITTED ABSTRACTS** (3 concurrent sessions) |
| 4:15 pm – 6:45 pm | **FORMAL POSTER PRESENTATIONS**                                        |
| 6:45 pm – 9:00 pm | **OPENING DOORS EVENT**  
                    | Who is the Indiana Jones of Your Team?                                
                    | Organized by Nukhbet Aykin-Burns, Ph.D., University of Arkansas for Medical Sciences, USA, Maria Clara Franco, Ph.D., University of Central Florida, USA, Samantha Giordano, Ph.D., University of Alabama at Birmingham, USA, and Azza El-Remessy, Ph.D., RPh, FAHA, University of Georgia, USA, and the Women in Science Committee (WIS) |
                    | While trying to find our ways in the jungle of science, having a strong team makes a difference! Join us in an adventure in team building. Discover and share insights into how team dynamics support lab productivity, recruitment, and collaborations. |
| 9:00 pm – 11:00 pm | **HOSPITALITY**                                                          |

*THURSDAY, NOVEMBER 30, 2017 CONTINUED*
## SUNRISE FREE RADICAL SCHOOL  ▶ Back to the Basics
**Chairs:** Ralf Brandes, MD, Goethe-University, Frankfurt am Main, Germany and Jianhua Zhang, Ph.D., University of Alabama at Birmingham, USA

### 8:00 am – 9:00 am
**ROS and Calcium  ▶ Indu Ambudkar, Ph.D., NIH, USA**

### 8:30 am – 9:00 am
**PRDX1 Redox Signaling in Cancer  ▶ Carola Neumann, MD, University of Pittsburgh, USA**

## PLENARY SESSION 1
**9:30 am – 12:00 pm ▶ Redox Control of Calcium Homeostasis in Health and Disease**  
**Chairs:** Nadine Hempel, Ph.D., Penn State University College of Medicine, USA and Andre Melendez, Ph.D., SUNY Polytechnic Institute, USA

The regulation of calcium gradients across membranes and organelles is essential to cellular function. Plasma membrane and intracellular ion channels, such as those of the ER and mitochondria, are tightly regulated in a spatial and temporal manner by a variety of stimuli, including the emerging role of redox-dependent regulation. This plenary session focuses on the interplay between redox and Calcium-regulated cellular signaling pathways in normal and pathophysiological conditions.

### 9:30 am – 10:00 am
**CaMKII, ROS and Fight or Flight Physiology  
Mark Anderson, MD, Ph.D., Johns Hopkins University School of Medicine, USA**

### 10:00 am – 10:30 am
**Mitochondrial-ER Ca²⁺ ROS Cross Talk  ▶ Gyorgy Hajnóczky MD, Ph.D., Thomas Jefferson University, USA**

### 10:30 am – 11:00 am
**Break**

### 11:00 am – 11:30 am
**Role of the Ca²⁺ Channel TRPM2 in Regulation of Oxidative Stress and Energy Balance  
Barbara Miller, MD, Penn State Hershey Children's Hospital, USA**

### 11:30 am – 12:00 pm
**Redox Regulation of Store Operated Calcium Entry via STIM and Orai  
Ivan Bogeski, MD, Saarland University, Germany**

## PLENARY SESSION 2
**9:30 am – 12:00 pm ▶ Redox Biology of Normal vs Tumor Cells: A Therapeutic Target**  
**Chairs:** Ines Batinic-Haberle, Ph.D., Duke University, USA and Margaret Tome, Ph.D., University of Arizona, USA

In general, cancer cells have shifted to a pro-oxidative state with altered energy metabolism, chronic elevation of ROS production and an imbalance in the antioxidant response. Therapeutic strategies (drugs/radiation) that increase oxidative stress enhance tumor cell death; however, the adverse effect on normal tissues is often dose limiting. This session focuses on recent findings indicating that redox active therapeutics can differentially, and to our advantage, target cancer cells while sparing or protecting normal cells; possible mechanisms will be discussed.

### 9:30 am – 10:00 am
**Therapeutic Potential of Metabolic Inhibition Combined with ROS Modulation  
Douglas Spitz, Ph.D., The University of Iowa, USA**

### 10:00 am – 10:30 am
**Protection of Normal Hematopoietic Stem Cells During the Treatment of Hematopoietic Malignancies  ▶ Daret St. Clair, Ph.D., University of Kentucky, USA**

### 10:30 am – 11:00 am
**Break**
## FRIDAY, DECEMBER 1, 2017

### 11:00 am – 11:30 am
**Use of Manganese Porphyrins as a Chemotherapeutic in Lymphoma**  
*Margaret Tome, Ph.D., University of Arizona, USA*

### 11:30 am – 12:00 pm
**Protection of Neurocognitive Function During Cranial Irradiation of Brain Tumors**  
*Ting-Ting Huang, Ph.D., Stanford University & VA Palo Alto HSC, USA*

### 12:00 pm – 12:30 pm
**SfRBM Discovery Award Lecture**  
**Maintenance of Oxygen and Redox Homeostasis by Hypoxia-Inducible Factor 1**  
*Gregg Semenza, MD, Ph.D., Johns Hopkins University School of Medicine*

### 12:00 pm – 2:30 pm
**LUNCH**  
Attendees on own or attend a professional development session

### 1:00 pm – 2:15 pm
**PROFESSIONAL DEVELOPMENT SESSION III**  
**How to Deal with Failure?**  
As scientists we face constant struggles including grant and paper rejections, failed hypotheses, and maybe the threat of not making tenure. We will brainstorm methods on how to deal with real challenges in the academic world and how not lose hope!

### 1:00 pm – 2:15 pm
**PROFESSIONAL DEVELOPMENT SESSION IV**  
*organized by the SfRBM Trainee Council*  
**Science Policy:** Discussion with an AAAS policy fellow.

### 2:30 pm – 4:15 pm
**ORAL PRESENTATIONS FROM SUBMITTED ABSTRACTS**  
(3 concurrent sessions)

### 4:15 pm – 6:45 pm
**FORMAL POSTER PRESENTATIONS**

### 7:00 pm – 8:00 pm
**FRBM & REDOX BIOLOGY EDITORS RECEPTION**

### 9:00 pm – 11:00 pm
**HOSPITALITY**

## 2017 SPONSORS

SfRBM wishes to recognize and thank the following supporters of SfRBM 2017:

- Agilent Technologies
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- Vascular Medicine Institute
- IOWA

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**FRIDAY, DECEMBER 1, 2017 CONTINUED**
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| 8:00 am – 9:00 am | SUNRISE FREE RADICAL SCHOOL  ▶ Back to the Basics  
Chairs: Ralf Brandes, MD, Goethe-University, Frankfurt am Main, Germany and Jianhua Zhang, Ph.D., University of Alabama at Birmingham, USA |
| 8:00 am – 8:30 am | Mitochondrial Dynamics and Cardiac Mitochondrial Function  
Asa Gustafsson, Ph.D., University of California, San Diego, USA |
| 8:30 am – 9:00 am | Mitochondrial Metabolic Oscillations and Networks in Diabetes  
Orian Shirihai, MD, Ph.D., Boston University, USA |

PLENARY SESSION
9:30 am – 12:00 pm  ▶ Mitochondrial Dynamics in Health and Disease  
Chairs: Kimberly Dunham-Snary, Ph.D., Queen’s University, Canada and Samantha Giordano, Ph.D., University of Alabama at Birmingham, USA

Mitochondrial dynamics (fission, fusion, and mitophagy) play a critical role in cellular homeostasis and redox regulation. Crosstalk between mitochondrial dynamics and reactive species production has become increasingly important in modulating cell survival and has been implicated in numerous pathologies including neurodegeneration, cardiovascular disease, and hyperproliferative diseases such as cancer. This session addresses the roles of mitochondrial fission, fusion, and mitophagy in cellular homeostasis during health and disease.

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| 9:30 am – 10:00 am | Mitochondria, Mitophagy and Proteotoxicity in Relation to Parkinson’s Disease  
Richard Youle, Ph.D., NINDS (National Institute of Neurological Disorders and Stroke), USA |
| 10:00 am – 10:30 am | PINK1/Parkin and Mitochondrial Dynamics in Neurodegeneration  
Ming Guo, MD, Ph.D., UCLA, USA |
| 10:30 am – 11:00 am | Break                                                                                          |
| 11:00 am – 11:30 am | Mitochondrial Dynamics in Lung Fibrosis  
A. Brent Carter, MD, University of Alabama at Birmingham, USA |
| 11:30 am – 12:00 pm | Molecular Analysis of Mitochondrial Dynamics ▶ David Chan, MD, Ph.D, Caltech, USA |
| 12:00 pm – 12:30 pm | NEW MEMBER WELCOME MEETING                                                                 |
| 1:00 pm – 2:30 pm | LUNCH - Attendees on own                                                                        |
| 2:30 pm – 4:15 pm | ORAL PRESENTATIONS FROM SUBMITTED ABSTRACTS (3 concurrent sessions)                           |
| 4:15 pm – 7:00 pm | FORMAL POSTER PRESENTATIONS                                                                    |
| 7:30 pm – 9:30 pm | CLOSING AWARDS BANQUET                                                                         |
| 9:00 pm – 11:00 pm | HOSPITALITY                                                                                    |

SfRBM 19
NOVEMBER 20 - 23
Planet Hollywood Resort and Casino

www.sfrbm.org
WORKSHOPS AND SPECIAL PROGRAMS

WEDNESDAY, NOVEMBER 29

PRE-MEETING WORKSHOP

Full Day Pre-Meeting Workshop ▶ 8:00 am – 3:45 pm
Partnership with the National Cancer Institute (NCI)

Basic to Translational Understanding in Redox Physical Oncology
Chair: Michael Graham Espey, Ph.D., NIH, USA

This workshop is designed to explore the concept of Redox Physical Oncology. The use of advanced technologies to study and understand the roles of redox effectors in cancer processes will be highlighted in sessions that span both basic mechanistic studies and translational work on tumor cells and physical microenvironment dynamics.

Registration fees for the workshop, which includes lunch and course materials, are not included in the annual meeting tuition. Attendees wishing to attend the workshop must clearly indicate their participation on the enclosed registration form.

Attendance will be limited, so it is advisable to register early! Participants should plan to arrive in Baltimore on Tuesday to be ready for the Wednesday morning start.

Cost: $95 Students, Postdocs & Scientists (5 years or less from the completion of training) $175 Senior Scientists

SPECIAL PROGRAMS

WELCOME RECEPTION ▶ 7:15 pm – 8:30 pm
The Welcome Reception is included in your registration fee.

TRAINEE / MENTOR & MENTEE WELCOME EVENT
7:15 pm – 8:30 pm
This event will be during the SfRBM Welcome Reception and has specifically been tailored for students/postdocs (trainees), allowing time to meet and network with each other in a more casual setting!

FRIDAY, DECEMBER 1

SfRBM DISCOVERY AWARD LECTURE
12:00 pm – 12:30 pm
Maintenance of Oxygen and Redox Homeostasis by Hypoxia-Inducible Factor 1
Gregg Semenza, MD, Ph.D., Johns Hopkins University School of Medicine

THURSDAY, NOVEMBER 30

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.

15th ANNUAL OPENING DOORS EVENT
6:45 pm - 9:00 pm
Who is the Indiana Jones of Your Team?
Organized by: Nukhet Aykin-Burns, Ph.D., University of Arkansas for Medical Sciences, USA, Maria Clara Franco, Ph.D., University of Central Florida, USA, Samantha Giordano, Ph.D., University of Alabama at Birmingham, USA, and Azza El-Remessy, Ph.D., RPh, FAHA, University of Georgia, USA, and the Women in Science Committee (WIS)

While trying to find our ways in the jungle of science, having a strong team makes a difference! Join us in an adventure in team building. Discover and share insights into how team dynamics support lab productivity, recruitment, and collaborations.

All levels welcome, undergraduates to senior investigators. Dress for “adventure”, high heels not recommended!

Cost: $25 for Student & Postdocs
$35 for Senior Investigators

SATURDAY, DECEMBER 2

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 will feature the recognition of Young Investigator and Travel Award winners and outstanding leaders in the field.
FORMAT

SfRBM 2017 will begin on Wednesday, November 29, at 5:00 pm and conclude with the Closing Awards Banquet on Saturday, December 2, 2017.

SfRBM 2017 will feature four days of scientific communication. On Wednesday, the featured pre-meeting workshop is NOT included in your Annual Meeting registration fee and must be completed separately.

The Annual Meeting is scheduled for the following three days (Thursday through Saturday). 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 23rd consecutive year, the Sunrise Free Radical School will kick off each day of our Annual Meeting. Led Ralf Brandes, Ph.D., Goethe-University, Frankfurt am Main, Germany, and Jianhua Zhang, Ph.D., University of Alabama at Birmingham, USA, 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:
- Translational Aspects of Redox Signaling
- Selenium in Biology and Medicine
- Ferroptosis: The Rancid Smell of Death
- Redox Control of Calcium Homeostasis in Health and Disease
- Redox Biology of Normal vs Tumor Cells: A Therapeutic Target
- Mitochondrial Dynamics in Health and Disease

ABSTRACTS

Abstracts for oral or poster presentation consideration should be submitted on-line at http://sfrbm.org/meetings/2017-annual-meeting/

The deadline for submitting abstracts for SfRBM 2017 is Friday, September 1.

Submitted abstracts must be previously unpublished work. Abstracts submitted for oral presentation consideration will be subject to a double-blind review process. Presenting authors of the highest scored abstracts will be invited to share their work in one of 45 oral presentation slots in the program.

All other abstracts will be programmed as a poster presentation, to be presented on one day of SfRBM three-day poster symposia. Decisions on abstract acceptance for SfRBM 2017 will be posted on the SfRBM site during the week of October 9, 2017.

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.

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.

DUAL PLENARY SESSIONS

SfRBM 2017 will offer dual morning plenary sessions on Thursday and Friday, providing additional scientific education.
ABSTRACTS (CONTINUED)

All submitted abstracts will be published in the meeting’s program and abstract book. If you wish an abstract to be considered for a Travel Award, abstracts must be received by Tuesday, August 15, 2017. Submission deadline to be considered for a Young Investigator Award is Friday, September 1, 2017. Please mark the appropriate box on the on-line abstract form.

TRAVEL AWARDS

SfRBM’s Outreach Committee are making Travel Awards available to students and postdocs who wish to attend SfRBM 2017 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 on-line abstract form and submit the abstract no later than Tuesday, August 15, 2017.

- Abstract judging will be based on research merit only and applicants must be the first author of the abstract.
- 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 2017 will be posted on the SfRBM site during the week of October 9.
- Recipients will be given their check at the Closing Awards Banquet on December 2 as well as free meeting registration for SfRBM 2018 or SfRBM 2019.

YOUNG INVESTIGATOR AWARDS (YIA)

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.
- YIA awardees will receive a $500 stipend in recognition of their work as well as free meeting registration to SfRBM 2018 or SfRBM 2019.

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.

POSTER NOTIFICATION & PRESENTATION POLICY

SfRBM has seen an increasing number of investigators who formally confirm their posters but do not attend to present their research, we have instituted a policy for poster presentations during its Annual Meeting.

Should you confirm a presentation in a reply to your acceptance email and do not show up to present your work, you will be ineligible to submit any abstracts for the subsequent year’s conference. The same applies to investigators who receive an acceptance email but fail to communicate that they will NOT be presenting.

Investigators will have up until November 10, 2017, to indicate whether or not to accept an invitation to present a poster. Investigators in violation of this policy will not be eligible to submit their latest work for SfRBM 2018.
LOCATION & HOTEL ACCOMODATIONS

HILTON BALTIMORE
401 W. Pratt Street, Baltimore, MD, USA, 21201
P: (443) 573-8700 Reservations: (800) 445-8667

The Hilton Baltimore is the host hotel for SfRBM 2017. The hotel is located in downtown Baltimore, a mere 2 blocks from Baltimore’s Inner Harbor. A special room rate of $165 USD per night single/double is available for all meeting participants. This rate is offered on a space-available basis through October 27, 2017.

Contact Hilton reservations at (800) 445-8667 and indicate you are with “SfRBM 2017” or visit www.sfrbm.org and click on “online hotel reservations.”

TRAVEL INFORMATION

Baltimore has several airports to select from, please see below:

Baltimore/Washington International Airport:
Approximately 10 miles (15 minutes)
Super Shuttle: Average Cost $13
Taxi: Average cost is $25 one-way

Washington National Airport:
Approximately 41 miles (50 minutes)
Super Shuttle: Average Cost $115
Taxi: Average cost is $140 one-way

Washington Dulles International Airport:
Approximately 70 miles (75 minutes)
Taxi: Average cost is $100 one-way

For further transportation options, please contact the Hilton Baltimore Concierge at (443) 573-8700.

ROOM SHARE PROGRAM (ROOMMATE)

If you plan to attend the conference and wish to share a room with another conferee that you do not know, please indicate this request (as well as your gender) on the enclosed registration form no later than October 30, 2017. SfRBM staff will then contact you to match you with a roommate as they become available. Matched roommates will be responsible for making the hotel reservations and for paying half of the room cost per night.

ANNUAL MEETING REGISTRATION INCLUDES

- Networking opportunities with scientists and potential collaborators from around the world
- Access to four days of educational sessions (Wednesday – Saturday)
  - Sunrise Free Radical School
  - Plenary Sessions
  - Oral Presentations from selected abstracts
  - Poster Sessions
  - Professional Development Sessions
- Formally provided poster space to display your research
- Scientific Exhibit Hall — where you can learn more about the latest products and services that can assist you in your research
- Invited to attend the SfRBM Annual Member Meeting
- Welcome Reception on Wednesday evening
- Continental Breakfast & Coffee Breaks (Thursday – Sunday)
- Poster and Networking Sessions and Receptions (Thursday – Saturday)
- Admittance to the Closing Awards Banquet (Saturday evening)
- Hospitality Room for networking with senior faculty and trainees (Wednesday – Saturday evenings)
MEETING MATERIALS & MOBILE MEETING APP

The Program and Abstract book will be provided on a mobile app that will include the 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.

Course materials for the Sunrise Free Radical School and an attendee list will also be included on the SfRBM 2017 Mobile meeting app.

PRINTED PROGRAM & 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.

PHOTOS & VIDEOS

SfRBM 2017 prohibits the taking of unauthorized photography and/or videography of any kind during the plenary sessions, lectures, workshops, and poster presentations without consent from the presenter/speaker/author.

I understand that participation in SfRBM 2017 grants permission for photos and videos taken of the individual participants and groups during the event to be used by the Society for Redox Biology and Medicine (SfRBM) in promotional media during the conference and online, unless the SfRBM is notified in writing that an individual or group does not grant permission. SfRBM must be notified via email at info@sfrbm.org before November 15.

OFFICIAL LANGUAGE

English is the official language of SfRBM 2017. No simultaneous translation will be provided.

CANCELLATIONS & REFUNDS

Fees include all receptions, breaks and banquet. Requests for refunds will be honored if received in writing by November 15, 2017. Please note that all refunds will be issued AFTER the meeting and will be subject to a $50 processing fee.

QUESTIONS?

Questions about SfRBM 2017 can be directed to SfRBM via phone at (317) 205-9482, fax at (317) 205-9481 or e-mail at info@sfrbm.org.

CME CREDIT

NO Category 1 CME Credits will be offered for SfRBM 2017.
SfRBM 2017 REGISTRATION FORM

Name: ______________________________________________________________________________________________ Degree: _______________________

Affiliation: ________________________________________________________________________________________________________________________

Address: _____________________________________________________________ City: __________________________ State: ________ Zip: _________________

Country: _____________________________  Phone: ____________________________________________ Fax: ________________________________________

Email: ___________________________________________________________________________________________________________________________

SATURDAY BANQUET CHOICE: (please check one)  □  CHICKEN    □  FISH    □  VEGETARIAN  □  NOT ATTENDING

*Require SfRBM to assign you a roommate:  □  Yes  □  No  If yes, registrant is:  □  Male  □  Female

*SRBM will contact you via email for additional information.

REGISTRATION FEES:

- **FULL/ASSOCIATE – SfRBM**
  - PRE-REGISTERED (BY OCT. 15) $535
  - LATE & ONSITE $585

- **STUDENT/POST-DOC SfRBM / SFRRI MEMBER**
  - PRE-REGISTERED (BY OCT. 15) $275
  - LATE & ONSITE $325

- **EMERITUS – SfRBM**
  - $250

- **SFRRI MEMBER**
  - **The SfRBM member fee is extended to all SFRRI members, provided proof of current membership in an SFRRI affiliate society is provided upon registration.**

- **NON-MEMBER REGULAR**
  - $685

- **NON-MEMBER POSTDOC/STUDENT**
  - $350

- **UNDERGRADUATE – SfRBM MEMBER**
  - $200

- **ONE-DAY PASS* Day attending:**
  - $225

  *Cost is the same for members and non-members. This fee does not include the Saturday, December 2 Closing Awards Banquet.

- **GUEST REGISTRATION (Receptions, Banquet & Hospitality only)**
  - $150

- **PRINTED ABSTRACT AND PROGRAM BOOK**
  - $15 (You will NOT be able to purchase at the meeting.)

POSTER NOTIFICATION & PRESENTATION POLICY

(see page 12 for details) Review and check that you understand and agree to the following terms:

- **I agree that if my abstract is accepted for presentation in any format (i.e. oral or poster), I understand I must confirm my attendance for SfRBM 2017 and comply with all conference policies.**

PHOTOS & VIDEOS

(see page 14 for details)

- **Permission granted for photos and videos taken at SfRBM 2017.**

PRE-MEETING WORKSHOP (check and circle membership type)

- Basic to Translational Understanding in Redox Physical Oncology
  - **Students, Postdocs & Scientists (5 years or less from the completion of training)** $95
  - **Senior Scientists** $175

OPENING DOORS EVENT

Who is the Indiana Jones of Your Team?

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 30
- Speed Mentoring
- Visual Arts

FRIDAY, DECEMBER 1
- How to Deal with Failure
- Science Policy

METHOD OF PAYMENT

- **Check**
- **Visa**
- **Mastercard**
- **AmEx**

Card Number: _____________________________________________ CVV: _______________ Exp.Date: ____________________

Cardholder Name (please print): ___________________ Signature: ______________________

Unless appropriate check/charge information accompanies this form you will NOT be considered pre-registered. **Payable to the Society for Free Redox Biology and Medicine (SfRBM). All checks must be made in U.S. Dollars, drawn on U.S. Banks, U.S. postal money orders and U.S. travelers checks are also accepted.**

It is very important that you enjoy SfRBM 2017. 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.

PHONE REGISTRATIONS ARE NOT ACCEPTED.

Please register by selecting one of the following three options:

www.SfRBM.org or fax: (317) 205-9481 or SfRBM - 8365 Keystone Crossing, Suite 107 Indianapolis, IN 46240