



Society for Experimental Biology and Medicine

<http://www.sebm.org/>

Spring 2011, Vol 4, No. 1

130 West Pleasant Ave, Maywood, NJ, 07607-1727

Phone: 201-962-3519 Fax: 201-962-3522 Email: sebm@inch.com

President

Susan E. Mulrone, PhD
Georgetown University
School of Medicine

President-Elect

Martin L. Adamo, PhD
University of Texas HSC
San Antonio

Past-President

**President, Board of Governors for
the Endowment Fund**
Burton E. Sobel, MD
University of Vermont

Treasurer

H. Fred Downey, PhD
University of Texas HSC, Fort Worth

Treasurer-Elect

Warren E. Zimmer, PhD
Texas A&M HSC
College of Medicine

Editor-in-Chief, Experimental Biology and Medicine

Steven R. Goodman, PhD
SUNY Upstate Medical University

Executive Director, SEBM

Felice O'Grady

Newsletter Editor

Holly A. LaVoie, PhD
University of South Carolina
School of Medicine

SEBM at EB 2011, Washington, D.C.

On **Sunday, April 10th, from 5:15-7:15 PM**, SEBM is pleased to host the **SEBM Members' Social and Awards Presentation**. It will be held at the Grand Hyatt Washington Hotel, in the Independence Rooms F/G. We encourage members to bring a non-member guest. Please RSVP to the SEBM email invitation sent on 3/14/11 by March 31st. Drinks and light hors d'oeuvres will be provided. Winners of the Best Paper Awards for 2010, 2011 Young Investigator Awards, and Distinguished Scientist Award will be recognized. Please come and enjoy the opportunity to mingle with your fellow members and their guests.

Other SEBM activities at Experimental Biology 2011 include:

Council/Member's Business Meeting

Saturday, April 9, 2011, 12:30-4:30 pm
Arlington Room, Grand Hyatt Washington Hotel

SEBM Symposium: "Energy Metabolism and the Pathogenesis, Treatment and Prevention of Diabetes and Obesity"

Sunday, April 10, 2011, 8-10 am
Chaired by: Martin Adamo, Ph.D. and David Kendall, M.D.
Room 146A, Washington DC Conference Center

Editorial Board Meeting

Sunday, April 10, 2011, 11-11:45 am
Cabin John/Roosevelt Room, Grand Hyatt Washington Hotel

SEBM Career Roundtable

Sunday, April 10, 2011, 7:15-8 pm
Immediately following the SEBM Social
Independence Rooms F/G, Grand Hyatt Washington Hotel

Washington, DC is the site of this year's EB 2011 where SEBM is a guest society. Capitol shown.



President's Perspective

Susan E. Mulroney, Ph.D.

The society continues to move forward in its missions to bridge basic sciences and medicine, publish a first-rate scientific journal, and provide mentorship and support to trainees. While the past few years have been challenging, we maintained excellence in the Journal, trainee support, and symposia. In all areas, we couldn't get the mission accomplished without the tireless work of the executive office (Felice O'Grady and Nancy Blake), Journal (Steve Goodman and RSM Press) and SEBM Council. I extend my appreciation to all.

In the past two years we have worked on providing cutting edge symposia including "*The Co-Morbidity of Stress and Disease: Effects of Chronic Stress on Metabolism, Cardiovascular Disease and Behavior*" (EB 2009), and "*Evolving from Reductionism to Holism: The Future is Systems Medicine*" (EB 2010, featuring opening talk by Leroy Hood). These sessions were well-attended and provided great fora for discussion of translational research and medicine. We will use future symposia to continue the dialogue and potential goal of making the SEBM the society for those interested in systems biology/medicine, which is a natural extension of our general mission.

Experimental Biology and Medicine is on the move in so many ways. Under the Editorial supervision of Steve Goodman, EBM is increasing its impact factor, and has made great headway into the international market, with the appointment of European and Asian Editors. I have no doubts that the rankings of this flagship of the Society will continue to increase in the next few years, and I encourage everyone to submit (and tell your colleagues to submit) quality manuscripts and keep the momentum going.

The perpetual challenge of the Society is the recruitment and retention of new members. While this is an issue for all societies, smaller groups such as ours have a harder time sustaining membership when potential members are pulled by competing societies and financial considerations. A key objective is to nurture and mentor trainees, and keep them involved within the society. Our Membership Committee under the aegis of Rex Gaskins and Nancy Turner keep the great ideas coming, and some of the true winners have included having trainees and junior faculty sit on Committees, and the Roundtable event following the reception at EB (thanks to Warren Zimmer), in which young investigators can get advice and mentorship from senior faculty. This event is being expanded this year, and the young investigators have been challenged to bring non-member friends to the reception and Roundtable. We're looking forward to seeing who shows up, and working with new faces. This is a great direction for the membership, and I laud this effort.

Lastly, we have a new face on the web! The new and improved SEBM website is up and running, and although we will still be working out the bells and whistles, it is vastly improved and will hopefully be a great interactive platform for growth of the Society. Thanks again to Nancy Turner and Rex Gaskins for shepherding this through its metamorphosis.

Hope to see you all at EB and the reception. Best wishes for a successful year.

SEBM SYMPOSIUM at EB 2011

*Martin Adamo, Ph.D. and David Kendall, M.D.
Co-chairs, SEBM Symposium*

Energy Metabolism and the Pathogenesis, Treatment and Prevention of Obesity and Diabetes

The United States is suffering from a pandemic of metabolic diseases, in which more than 30% of adults are obese, more than 80 million have some form of cardiovascular disease, and approximately 24 million have type 2 diabetes. The purpose of this symposium is to provide a forum for presentation, discussion and integration of the latest concepts and breakthroughs in our understanding of the regulation of metabolism as it relates to the pathogenesis and therapies for successful treatment and prevention of metabolic syndrome, obesity and diabetes. To achieve this goal four eminent speakers will present their research and perspectives. Dr. Newgard will discuss comprehensive metabolic profiling, or "metabolomics." This is emerging as a valuable tool for defining the full range of metabolic disturbances that accompany these chronic diseases, leading to novel and testable hypotheses about disease mechanisms. Dr. Goodyear will focus on our expanding knowledge of the role of AMP-activated protein kinase (AMPK) in skeletal muscle energy metabolism. In addition, emerging data suggesting that AMPK related kinases are also critical in metabolism will be discussed. Dr. DeFronzo will discuss his findings in human diabetics, which are at the interface of basic and clinical research. These studies provide basic science mechanisms into the pathogenesis of human obesity and type 2 diabetes and a basis for the development of practical therapies. Dr. Kendall will provide important public health insights into metabolism and the global diabetes and obesity pandemic, and breakthroughs in diabetes treatment and prevention.

8:00 am Changes in Fuel Selection in Chronic Metabolic Diseases Revealed by Comprehensive Metabolic Profiling
Christopher B. Newgard, Ph.D.
Duke University Medical Center

- 8:30 am AMPK and AMPK Related Kinases: Critical Regulators of Energy Metabolism
Laurie Goodyear, Ph.D.
Joslin Diabetes Center
- 9:00 am Pathophysiology of Type 2 Diabetes: Implications for Therapy
Franco Folli, M.D., Ph.D.
University of Texas Health Science Center at San Antonio
- 9:30 am Diabetes Care 2020 – From Scientific Discovery to Clinical Translation
David M. Kendall, M.D.
American Diabetes Association

SEBM Distinguished Scientist Award

Robert Mallet, Ph.D. Chair, Distinguished Scientist Award Committee

The Distinguished Scientist Award was created in 2009 to honor SEBM members who have made seminal contributions to biomedical research while also contributing significantly to the advancement of SEBM. The first SEBM Distinguished Scientists, honored in 2010, are the 8 living former presidents of the Society:

Hector F. DeLuca, Ph.D.
University of Wisconsin
SEBM President, 1987-1989

Henry C. Pitot, M.D., Ph.D.
University of Wisconsin
SEBM President, 1991-1993

Dale R. Romsos, Ph.D.
Michigan State University
SEBM President, 1997-1999

Robert H. Knopp, M.D.
University of Washington
SEBM President, 1999-2001

Barbara A. Horwitz, Ph.D.
University of California – Davis
SEBM President, 2001-2003

Kenneth L. Barker, Ph.D.
State University of New York – Syracuse
SEBM President, 2003-2005

Charles A. Blake, Ph.D.
University of South Carolina
SEBM President, 2005-2007

Burton E. Sobel, M.D.
University of Vermont
SEBM President, 2007-2009

This year's Distinguished Scientists will be announced and honored on Sunday, April 10th at the SEBM Social and Awards Presentation at Experimental Biology 2011 (see page 1).

2011 Young Investigator Awards

Peter Snyder, Chair, Young Investigators Committee

Congratulations to the seven winners of the 2011 SEBM Young Investigator Awards! The awards will be presented during the SEBM Social at Experimental Biology 2011 (see page 1) Sunday, April 10th. The winners were selected from 37 outstanding submissions by a committee of council members and past recipients. Three of the awards are named in honor of Kenneth L. Barker, Charles A. Blake, and Burton E. Sobel in recognition of their support for the mentoring of young scientists. The awards provide \$500 to allow the awardees to present their work at Experimental Biology 2011 and to foster interactions with more senior investigators. This is an important mission of the SEBM. The competition is open to undergraduate students, graduate students, and postdoctoral fellows (within 5 years of their doctoral degree) who are members of the SEBM. **The 2011 SEBM Young Investigator Award winners are:**

Adam Goodwill, West Virginia University
(Burton E. Sobel Award)

"Tumor Necrosis Factor Alpha Contributes to Vascular Dysfunction and Skeletal Muscle Microvascular Rarefaction in the Obese Zucker Rat"

Terrence Hubert, Temple University
"rhCC10 Treatment Modulates the Pro and Anti-Inflammatory Profile in the Immature Lung"

Sumit Kar, University of Nebraska Medical Center **(Charles A. Blake Award)**
"Central Ang-(1-7) Reduces Sympathetic Nerve Activity in Conscious Rabbits with Heart Failure"

Joshua K. Meisner, University of Virginia
(Kenneth L. Barker Award)
"MMP9 from Bone Marrow-Derived Cells Regulates Arteriogenesis and Skeletal Muscle Regeneration in a Hindlimb Ischemia Model"

Luke B. Potts, Texas A&M HSC College of Medicine
"Selective Activation of ROCK2 Isoform Contributes to Vasomotor Regulation of Retinal Arterioles"

Madhan Subramanian, Michigan State University
"Chronic Estradiol-17 β Exposure Increases the Expression of Cytokine and Chemokine Genes in the Rostral Ventrals Lateral Medulla"

Zhen Wang, University of Arkansas for Medical Sciences
"Even Delayed Targeting of Reactive Oxygen Species/Oxidative Stress Protects the Renal Microcirculation during Sepsis-Induced Renal Injury in Mice"

Lend your name and financial support to the SEBM Young Investigator Award Program

The SEBM Young Investigator Award (YIA) Program seeks to honor the most deserving young investigators who are members of the SEBM by presenting awards for the most outstanding presentations at the Experimental Biology meeting each year. Recipients of these awards are selected by an ad hoc YIA Selection Committee. These awards provide a stipend of \$500 and recognition at the annual SEBM meeting. To further enhance the prestige of these awards, the SEBM Endowment fund is soliciting financial support and naming opportunities for these awards. Contributions ranging from \$500 to \$15,000 will allow the donor to designate a name, including their own, to be affixed to an award and the donor will be recognized each time the award is made at the annual meeting and on the SEBM web site. In 2011, three named awards were given (see preceding YIA section).

Here is what various contributions in increments of \$500 will provide.

\$500 to \$5,000 in \$500 increments will designate a "named YIA" for 1 to 10 years depending on the amount of the contribution.

\$15,000 will permanently endow a "named YIA."
\$5,000 with a commitment to add \$10,000 within 5 years will also permanently endow a

named Young Investigator Award. If the additional full contribution is not made by the end of the year 5, the award will be made annually for 10 years or until the \$500 increments are exhausted.

Tax-exempt contributions with naming instructions may be sent to the SEBM Endowment Fund at the SEBM Office. Questions regarding this naming opportunity may be addressed to Felice O'Grady at email: sebm@inch.com.

Membership Committee

Rex Gaskins, Ph.D., Chair, Membership Committee
Our efforts have focused on three initiatives to enhance Member benefits. First, we have led efforts to update and redesign the SEBM website <http://www.sebm.org>.

The importance of this is obvious and we hope you like the new edition. Your suggestions on format and functionality would be welcomed.

Second, we have established a SEBM Career Roundtable as a standing activity at Experimental Biology. The first of these guided but informal discussions was held at Experimental Biology 2009 in New Orleans. Conversations focused on networking with peers and senior scientists, guidance on collaborative interactions, and mentoring. This year's Career Roundtable will be held on Sunday April 10, 2011 (just following the SEBM Social) Grand Hyatt Washington Hotel. This year we are holding a *Bring your Friends* challenge: The attendee who brings the greatest number of potential SEBM members (Trainee or Regular) will be given a \$75 gift certificate to *Best Buy* and be featured on the SEBM webpage. We look forward to meeting you there.

Third, we have created a SEBM eCommunity on Facebook. This idea emerged from the first SEBM Career Roundtable. SEBM eCommunity provides a virtual platform for trainees to network, communicate and to exchange career advice. Of course now most scientific societies have active Facebook pages that are used to communicate the society's activities, report scientific breakthroughs, as well as mentoring and career advice. "Like" the SEBM eCommunity

on Facebook and build relationships with fellow SEBMs in the most efficient way possible

Finally, we ask that you recruit your most valued colleagues to become a member of SEBM. This is key to the livelihood and promotion of the SEBM and its journal.

SEBM Endowment Fund

The SEBM is most grateful to the individuals who contributed to the Endowment Fund. The Fund was established in 2002 to provide fiscal stability for the Society's missions. The following is a list of individuals who have contributed in 2009 and 2010. Donations to the fund are tax deductible. Please see the SEBM website or contact the SEBM office if you are interested in donating.

SEBM Endowment Fund Contributors:

2009-10

Martin L. Adamo (2010)
Kenning M. Anderson (2009)
Carolyn D. Berdanier (2010)
Adele Boskey (2009 and 2010)
Felix Bronner (2009)
Rolf Brekken (2009)
Arthur I. Cohen (2009 and 2010)
Charles C. Congdon (2009 and 2010)
Susanna Cunningham-Rundles (2009)
Hideki Katoh (2009)
Theofilos M. Kolettis (2009)
Robert H. Knopp (2009)
Yee-Shin Lin (2010)
Shyh-Ching Lo (2009)
Robert T. Mallet (2010)
Harry J. Mersmann (2010)
Thomas Q. Morris (2009)
Apostolos E. Papalois (2009 and 2010)
Dale R. Romsos (2009 and 2010)
Toshiie Sakata (2009)
Mukut Sharma (2010)
Bernard G. Steinetz (2009 and 2010)
Sumio Takahashi (2010)
Nancy D. Turner (2009 and 2010)
Charles E. Wade (2009)
Masako Yamamoto (2009)

Editor-in-Chief Corner

We've Come a Long Way Together and We Have a Long Way to Go

My first issue as Editor-in-Chief of *Experimental Biology and Medicine* was published in July 2006. Looking at the most recent issues of EBM, I have to say we've come a long way together since that time. We have EBM offices in Asia Pacific (National Cheng Kung University) and Europe (King's College London) led by Huan-Yao Lei and Farzin Farzaneh, respectively. The globalization of EBM has improved the number of submissions to greater than 32 per month with 45% coming from Asia Pacific, 15% coming from Europe and 25% from the USA in the first two months of 2011. Not only are the numbers increasing but the quality as well. The wonderful work done by our Asian and European Editors and their staff, in pre-reading manuscripts, has also improved the acceptance rates of manuscripts from Asia and Europe.

Looking at our EBM Categories and Editorial Board, I am struck by several things. We have seven new Interdisciplinary Categories and one new Multidisciplinary Category since July 2006. I have had the privilege of recommending all sixteen of the current outstanding group of Associate Editors and over one hundred members of Editorial Board since July 2006. During the first two months of 2011, 38% of our manuscript submissions were in categories that did not exist prior to July 2006.

The quality of manuscripts that we are publishing has gone way up as we have become more stringent in our level of manuscript acceptance. Our impact factor is improving as we move beyond a June 2006 issue, where approximately 100 articles from a scientific meeting were published, that substantially reduced the EBM Factor. Our 2009 Impact Factor of 2.635, while an improvement over 2008, still leaves us a long way to go to reach our goals. I am confident that due to the very high quality of articles that we are publishing since July 2006 we will see steady increases in this impact factor.

We have a new publishing partner in the Royal Society of Medicine Press since January 2010.

They have produced a beautiful journal, stabilized our journal income, and been a pleasure to work with since this partnership began. I suspect that their presence in London will also help the attention received by EBM and SEBM in Europe over the coming years. I would like to see our submissions from Europe grow to 25% over the next two years.

Over the past four plus years of being your Editor-in-Chief, I have learned a great number of lessons from you, made many new friends, come to understand the very large responsibility that I have in leading this SEBM journal, and have enjoyed the good times and those that were difficult. With your continued support, help, and submitted manuscripts, I will continue to work tirelessly to help us reach our common goal of establishing EBM as a premier first tier interdisciplinary journal with a global outreach and impact.

I thank you for the opportunity to serve SEBM as the EIC of *Experimental Biology and Medicine*.

My Best Regards,

