1. News from the Chair:

March, 2011

Dear Members of the Cardiovascular Section,

We are looking forward with great anticipation to the EB2011 meeting, April 8-13, 2011, in Washington, D.C. The CV Section has put together a superb program of special lectures, symposia, featured topics, slide sessions, and poster sessions. The CV Sponsored Symposia and Featured Topics sessions are listed below. In addition, the CV section will have its annual Trainee Reception and Dinner on Monday, April 11 as well as other special events which are described below. The contributions of the other Sections and Interest Groups of the APS and the other attending societies will ensure that the upcoming EB2011 will be an exciting and rewarding experience for all attendees. I would like to remind you that starting this year, the programming will continue through the last day, Wednesday, April 13th.

The CV Section has a series of awards that are presented at Experimental Biology and we encourage all section members to attend. Two major awards are the Berne Lecture and the Wiggers Award. The Berne Lecturer for EB 2011 is Dr. Stephen Vatner from the University of Medicine and Dentistry of New Jersey. This presentation will be on Monday, April 11th at 2:00 pm in Ballroom B of the Convention Center. The Wiggers Awardee is Dr. Roberto Bolli from the University of Louisville. This presentation will be made on Monday, April 11th at 10:30 am in room 154B of the Convention Center. Additional awards are listed below under the Awards Committee Report.

Dr. Stephen Vatner

Dr. Roberto Bolli
We will have the CV Section banquet at the Ronald Reagan Building and International Trade Center at 1300 Pennsylvania Ave. NW on Monday, April 11. Limited tickets will be available on a first come basis at the APS office located in Room 304 in the Washington Convention Center. The trainee reception will be at 5:00 pm followed by an open reception at 6:00 pm and dinner at 7:00 pm. Gerry Meininger and the CV Section Banquet Committee have done a great job in organizing this annual event. Trainee awards will be made prior to dinner.

Given the venue and the concern among the membership about current and future science funding, we encourage you to attend the session on **How to Be an Advocate: A Workshop for Scientists**, Saturday, April 9, 2011, from 1-3 PM in the Walter E. Washington Convention Center Room 147A. Join the members of the APS Science Policy Committee in order to learn how to be an effective advocate for science. This workshop will address what scientists can do to encourage federal support for research and what you need to understand about the budget process. You will also learn how to schedule a meeting with your Member of Congress while you are in Washington. Experienced science advocates will be available to guide small group discussions about advocacy and answer questions about meeting with Members of Congress. For more information on planning ahead to visit Capitol Hill during EB, see the APS Science Policy website: [http://www.the-aps.org/pa/advocate/AdvocateforScience.htm](http://www.the-aps.org/pa/advocate/AdvocateforScience.htm)

See you at EB2011!

Robert Hester, Ph.D.,
Chair CV Section

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2. CV Section Committee Reports:

**Trainee Committee: Julie Rennison, Ph.D., Chair.**

**Trainee Symposia at EB 2011**
The APS Trainee Advisory Committee sponsored symposium “Developing an Individual Development Plan - A Roadmap to Success” will be Wednesday April 13 from 10:30 am - 12:30 pm. I encourage all to attend.

**Trainee Reception at the CV Section Awards Banquet at EB 2011**
The CV Section Awards Banquet will be held at the Ronald Reagan Building and International Trade Center on Monday evening, April 11th. The Trainee Reception will begin at 5pm. This is an excellent opportunity to meet other CV Section trainees.

**Trainee - led Symposia and Featured Topics at Experimental Biology 2012**
The CV Section Programming Committee will be selecting one Symposium and one Featured Topic for the EB 2012 CV Section program from topics submitted by trainees (students, post-docs, and early-career investigators). This is a great opportunity for trainees to become more involved in APS meetings. Several trainee proposals were received by CV Section Programming Committee. The proposals will be reviewed at EB 2011 and trainees will be notified the week after FASEB whether their proposal was selected for presentation at EB 2012.

**Awards Committee: David W. Stepp, Ph.D., Chair.**
The CV Section Awards committee is pleased to report a robust response to this year’s call for applications. We received 116 Research Recognition Award, 8 Young Investigator Award and 20 Clinical Science New Investigator Award applications. This year a total of 11 awards are to be presented:

2011 Clinical Science Young Investigator Award, Sponsored by Portland Press
Ryan Harris, Ph.D.
Georgia Health Sciences University
2011 Cardiovascular Section New Investigator Award
Brad J. Behnke, Ph.D.
University of Florida

2011 Cardiovascular Section Research Recognition Award
Heidi Fridolfisson – University of California San Diego
Ashley Walker – University of Colorado
Amy Sindler – University of Colorado
Jill Barnes – The Mayo Clinic
Maria Alicia Sepulveda – University of Iowa
Ying Ann Chiao – University of Texas Health Science Center in San Antonio
Heather Edgell – University of Western Ontario
Matthew DiStasi – Indiana University School of Medicine
Matthew Socha – University of Missouri

These awards will be presented during the Cardiovascular Section Banquet at Experimental Biology 2011 in Washington D.C. Congratulations to all award recipients!

The Awards Committee has also received 3 nominations for the Wiggers Award and 10 for the Berne Lectureship. Awardees will be announced in the next newsletter.

We thank all members for their support of the section through their nominations of outstanding applicants for the section awards.

Joint Programming Committee: Merry Lindsey, Ph.D., and William F. Jackson, Ph.D., CV Section Representatives.

We wish to thank the membership for their support of the programming efforts of the Cardiovascular Section for Experimental Biology 2012. We received 21 proposals for Symposia, 17 proposals for Featured Topics, and 4 proposals for Cross Sectional Symposia. These proposals will be evaluated by the CVS steering committee between now and EB 2011. Keep up the good work!

We also want to remind everyone that APS Conferences provide the ultimate in programming opportunities. The APS Conference Committee will work with organizers to assist in all aspects of conference planning to facilitate the task of putting on the conference. The APS provides up to $30,000 toward reimbursement of invited speaker direct costs and registration. Proposals are due April 1, August 1, and December 1 and are reviewed by the APS Conferences Committee. The guidelines and online application form can be found at: http://www.the-aps.org/meetings/aps/index.htm. Questions should be directed to Sarah Knox (sknox@the-aps.org or 301-634-7967) or to Gerald A. Meininger, Ph.D. (Meininger@missouri.edu or 573-882-9662).

APS Physiologists in Industry Committee (PIC): John T. Liles, Ph.D., Chair.

The APS PIC is sponsoring a Symposium at EB 2011 entitled "Stem Cells in Physiology and Drug Discovery" (chaired by Magdalena Alonso-Galicia, Ph.D. and Cheryl Watson, Ph.D.) on Sunday, April 10, at 8:00 – 10:00 am in the Convention Center, Rm. 145A. Recent
breakthroughs have allowed the generation of induced pluripotent stem cells (iPS cells) from somatic cells which maintain all the potential of embryonic stem cells without using embryos, eliminating ethical concerns. These findings have generated the excitement and interest of the biomedical research community as well as the pharmaceutical industry. The first stem cell trial in the U.S. has recently been approved by the FDA for severe spinal cord injury. Beyond therapeutics, the promise of using differentiated human stem cells in drug discovery as disease relevant and toxicology models is maturing. Stem cells and cell lines derived from iPS cells of patients can accelerate the development of existing targets for different diseases and provide opportunity to explore innovative treatments in regenerative medicine. This symposium will review the current use of pluripotent stem cells as enabling technology in drug discovery as well as provide examples of therapeutic approaches.

In addition, the APS Translational Physiology Group and the PIC are co-sponsoring a Symposium entitled “The Cardiac Sarcomere as a Therapeutic Target” (chaired by John Liles, Ph.D. and Kelly R. Pitts, Ph.D.) on Wednesday, April 13, at 3:15 – 5:15 pm in the Convention Center, Rm. 145A. The cardiac sarcomere is the core structure responsible for active mechanical heart function and dynamics. A better understanding of the interactions at the crossbridge level has led to the discovery of novel pathways and to the development of new clinical targets. In this symposium, key opinion leaders in the field will: (a) review the sarcomere components associated with regulating basic cardiac function; (b) discuss the effect of calcium signaling on sarcomere proteins; (c) address the clinical consequences of certain genetic mutations of the sarcomere; and (d) review the successes and challenges that sarcomeric modulators are experiencing in the clinic. Attendees will gain an appreciation for the translational nature of studying and targeting the cardiac sarcomere.

The PIC Novel Disease Model Award is now sponsored by Plato BioPharma, Inc., a world leader in in vivo model development and execution. The PIC Novel Disease Model Award will be granted to a graduate student and a postdoctoral fellow who submit the best abstracts at EB 2011 that describe a novel disease model. The model can be in vitro or in vivo but should clearly emphasize the potential utility of the system for future research related to a disease. The award which is $500 for the graduate student and $800 for the postdoctoral fellow categories, respectively, is sponsored by the PIC and the APS, and will be presented at the APS Business Meeting on Tuesday, April 12, 5:45 – 7:00 pm in the Convention Center, Ballroom B.

You are invited to come meet, eat, and socialize with your fellow Physiologists who work in the corporate, industrial, or academic sector. The 11th Annual Physiologists in Industry Mixer at EB 2011 is on Sunday, April 10, 7:00 – 8:15 pm (location TBD). Free hors d’oeuvres will be available along with a cash bar and information on the roles of Physiologists in Industry. This is a great opportunity to network with both industry and academic APS members. We hope to see you there!

The APS PIC meeting is scheduled for Monday, April 11, 2:30 – 4:00 pm (location TBD). This is the committee’s annual opportunity to have a face-to-face meeting to discuss committee business and new initiatives. Please feel free to contact your PIC section representative if there are issues to be brought to the attention of the PIC.
Nominations Committee: Michael Hill, Ph.D., Chair.

In September, 2010 a ‘Special Election’ was held for the position of Secretary-Treasurer of the Section. David Busija, Ph.D. (Regents Professor and Chairman of Pharmacology, Tulane University School of Medicine) was elected by the Section members from a strong field of candidates. We would again like to congratulate Dave on his election and his willingness to serve the Section. We would like to also acknowledge Thomas Hintze, Ph.D., outgoing Secretary-Treasurer, for his service.

During January and February, 2011 nominations were sought for positions on the Fellowship, Awards, NIH Liaison, and Nomination Committees. We have had a very strong response with over thirty applicants for these seven positions, ensuring enthusiastic replacements for the current committee vacancies. The Nominating Committee has ranked the candidates for the Fellowship, Award, and NIH Liaison Committees and will present the results to the Steering Committee at the forthcoming EB Meeting. For the vacancy on the Nominating Committee an election has been held. These results will be presented to the Steering Committee and will be announced shortly thereafter.

The Steering Committee would like to emphasize that we are always willing to hear from Section Members (Primary or Secondary) who would like to be considered for committee positions in future years. If you are interested, please send an e-mail to Michael Hill (Hillmi@missouri.edu) indicating on which committees you would like to serve accompanied by a brief biosketch. In 2012 we anticipate having vacancies on the Awards, Trainees, NIH Liaison, Industry Liaison, and Nomination Committees. Details of the CV Section committees can be found on the APS website.

Membership & Fellowship Committee: Dorothy Vatner, Ph.D., Chair.

This year we had eight CV Section Fellows suggesting 12 nominees. These nominees are being evaluated by the CV Section Fellowship Committee, and the successful candidates will receive their Fellowship award certificate at the Experimental Biology meeting. New membership is critical for the future of the Cardiovascular Section and we would like to thank everyone for their participation.
| Symposia for EB 2011                                                                                                                                  |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Salt, Angiotensin II, Superoxide, and Endothelial Function                                       | Julian Lombard                                                                                  | Sunday                                                                                         | 8:00 AM                                                                                         |
|                                                                                                 | Andrew Greene                                                                                   | April 10, 2011                                                                                 |                                                                                                 |
| Latest on the Potential of Stem Cell Therapy in Cardiovascular Diseases                          | Mohan Raizada                                                                                  | Sunday                                                                                         | 8:00 AM                                                                                         |
|                                                                                                 | Julian Paton                                                                                     | April 10, 2011                                                                                 |                                                                                                 |
| Matrix Metalloproteinases Induce Vasomotor Dysfunction in Inflammatory States                  | Ronald Korthuis                                                                                  | Sunday                                                                                         | 10:30 AM                                                                                        |
|                                                                                                 | Geert Schmid-Schonbein                                                                           | April 10, 2011                                                                                 |                                                                                                 |
| Circadian Clocks: Emerging Roles in the Cardiovascular System                                  | John Chatham                                                                                     | Sunday                                                                                         | 3:15 PM                                                                                         |
|                                                                                                 | Martin Young                                                                                    | April 10, 2011                                                                                 |                                                                                                 |
| Linking Integrin Adhesion and Mechanotransduction to Myocardial Function                       | Mariappan Muthuchamy                                                                            | Tuesday                                                                                       | 3:15 PM                                                                                         |
|                                                                                                 | Gerald Meininger                                                                                | April 12, 2011                                                                                 |                                                                                                 |
| Mechanisms of Mitochondria-mediated Cardiovascular Dysfunction and the Application of Organelle-specific Therapies in the Metabolic Syndrome | David Busija                                                                                     | Wednesday                                                                                      | 8:00 AM                                                                                         |
|                                                                                                 | Tiffany Nguyen                                                                                  | April 13, 2011                                                                                 |                                                                                                 |
| What Makes the Mitochondria a Killer?                                                          | Elizabeth Murphy                                                                                | Wednesday                                                                                      | 10:30 AM                                                                                        |
|                                                                                                 | Mesia Moore Steed                                                                               | April 13, 2011                                                                                 |                                                                                                 |

**Featured Topics Presentations for EB 2011**

<p>| Inflammation, Oxidative Stress and Vascular Function                                           | Lusha Xiang                                                                                     | Sunday                                                                                         | 10:30 AM                                                                                         |
|                                                                                                 | Jay Naik                                                                                        | April 10, 2011                                                                                 |                                                                                                 |
| Form and Function of Cellular Microdomains in the Vasculature                                  | Brant Isakson                                                                                   | Monday                                                                                         | 8:00 AM                                                                                         |
|                                                                                                 |                                                                                                 | April 11, 2011                                                                                 |                                                                                                 |
| Wiggers Award Featured Topic: Role of Stem/Progenitor Cells in Cardiovascular Pathophysiology and Therapy | Roberto Bolli                                                                                  | Monday                                                                                         | 10:30 AM                                                                                         |
|                                                                                                 |                                                                                                 | April 11, 2011                                                                                 |                                                                                                 |
| Coupling Blood Flow to Metabolic Demand: New Insights and Perspectives                          | Steven Segal                                                                                     | Monday                                                                                         | 3:15 PM                                                                                         |
|                                                                                                 |                                                                                                 | April 11, 2011                                                                                 |                                                                                                 |
| Adaptation of the Microcirculation to Inflammatory Insult                                      | Jerome Breslin                                                                                  | Tuesday                                                                                       | 8:00 AM                                                                                         |
|                                                                                                 |                                                                                                 | April 12, 2011                                                                                 |                                                                                                 |
| Fibroblast-cardiomyocyte Signaling                                                            | Ian Dixon                                                                                       | Tuesday                                                                                       | 10:30 AM                                                                                         |
|                                                                                                 |                                                                                                 | April 12, 2011                                                                                 |                                                                                                 |</p>
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<th>Event Title</th>
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<tr>
<td>ECM-Cardiomyocyte Signaling in Heart Disease</td>
<td>Farah Sheikh</td>
<td>Wednesday</td>
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<td>Angiogenesis, Arteriogenesis, and Muscle Function: Contributions of Animal Models to Understanding Peripheral Artery Disease</td>
<td>Joseph Unthank</td>
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<td>Recent Concepts in Redox Signaling in the Cardiovascular System</td>
<td>William Chilian</td>
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**CARDIOVASCULAR SECTION COMMITTEES 2010-2011**

**STANDING COMMITTEES ROSTERS (with term expiration)**

*Only the chairs of the standing committees serve as official steering committee members.*

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