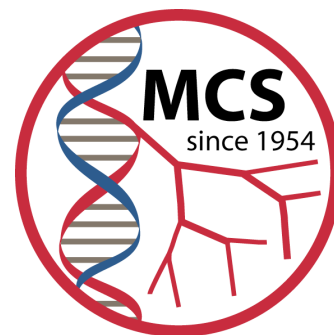


# The Microcirculatory Society, Inc.

## Newsletter

Volume 37, Number 4 – Spring 2010



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### Officers

#### President

William F. Jackson, Ph.D.  
[jacks783@msu.edu](mailto:jacks783@msu.edu)

#### President-elect

David C Zawieja, Ph.D.

#### Secretary

Judy Muller-Delp, Ph.D.  
[jdelp@ufl.edu](mailto:jdelp@ufl.edu)

#### Treasurer

Terrence Sweeney, Ph.D.  
[sweeneyt1@scranton.edu](mailto:sweeneyt1@scranton.edu)

## A Note from the President

It is hard to believe that a year has come and gone since our last meeting in New Orleans. I am really looking forward to our meeting in Anaheim and hope to see all of you at the MCS sponsored events at EB2010. We have a great meeting planned (see below for details).

Just a few reminders related to our meeting at EB 2010:

- Please purchase your tickets for our annual luncheon banquet (see below) that will be held Saturday, April 24, 2010 from 12:00-1:45 pm in the Marriott Platinum 5 Ballroom immediately after the first session of the President's Symposium.
- In preparation for our annual business meeting, which will be held on Sunday, April 25, 2010 from 4:30 – 5:30 in the Marriott Platinum Ballroom 3/4, please review the changes that are proposed to the MCS Bylaws that were recently distributed to the membership. These also may be found on the Society's website at:  
<http://microcirc.org/MCS%20By-Laws%20Revisions%20March%202010.pdf>
- Please attend our poster sessions (April 25<sup>th</sup> – Tuesday, April 27<sup>th</sup>) and the Young Investigator Symposium (Monday, April 26<sup>th</sup>). Interactions between senior MCS members and our students and postdocs has always be a strength of the MCS. Please help to continue this important tradition.

Finally, as my term as President of the MCS comes to an end, I would like to thank the membership for their support of the Society. Special thanks are also offered to the Society's officers, Councilors and Committee Members for their service to the MCS. Our Society could not exist without all of your efforts. Finally, I would like to thank our Membership Director, Johanna B. Echols for all her hard work recruiting and retaining members of the Society.

All the best to everyone; See you in Anaheim!

A handwritten signature in blue ink that reads 'Bill'.

William F. Jackson, Ph.D.  
President

## MCS Awardees for 2010

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### **The Eugene M. Landis Research Award**

Ulrich H. von Andrian Harvard Medical School

### **The MCS Travel Award for Outstanding Young Investigators**

Pedro Cabrales University of California, San Diego

### **The August Krogh Young Investigator Award**

Feilim Mac Gabhann Johns Hopkins University

#### **Zweifach Student Travel Awards**

Shaquira Adderley, St. Louis University

Matthew Durand, Medical College of Wisconsin

Katie Heberlein, University of Virginia

Paulina Kowalewska, McMaster University

Erica Lange, Michigan State University

Yingying Mao, Temple University

Nicole Novielli, University of Western Ontario

Melissa Riddle, University of New Mexico

Joshua Scallan, University of Missouri

Xueping Zhou, West Virginia University

#### **Pappenheimer Postdoctoral Travel Awards**

Sanjukta Chakraborty, Texas A&M Health Science Center

Joseph Rutkowski, University of Texas Southwestern Medical Center

Matthew Socha, University of Missouri

Adam Straub, University of Virginia

Prithu Sundd, LaJolla Institute of Allergy and Inflammation

Ozlem Yalcin, University of California San Diego

Genqian Zhang, West Virginia University

## Microcirculation Awardees for 2010

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### **Gerritsen Award**

Steven Segal

Regulation of blood flow in the microcirculation. *Microcirculation* 12(1): 33-45, 2005

### **Wiederhelm Award**

Mack H. Wu

Sun HR, Breslin, JW, Zhu J, Yuan, SY, Wu MH. Rho and ROCK signaling in VEGF-induced microvascular endothelial hyperpermeability. *Microcirculation* 13(3): 237-247, 2006

# Welcome to New MCS Members

## Regular Members:

Mark Olfert, West Virginia University  
Olivier Birot, York University  
Ronen Sumagin, University of Rochester  
Katrin Reimann, Kansas State University

## Associate Members:

Heather O'Leary, West Virginia University  
Natalia Piper, St. Francis Hospital

## Student Members:

Anthony Dewar, Stony Brook University  
Cheryl Maier, Yale University  
Cam Ha Tran, University of Calgary

## Congratulations to our new Society Officers!

### President-Elect

Matthew Boegehold, Ph.D.

### Treasurer

Rolando Rumbaut, Ph.D.

### Councilors

Norman Harris, Ph.D.

Donald Welsh, Ph.D.

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## MCS Events at EB 2010

**Saturday, April 24, 2010**

**President's Symposium I**

**Ion Channels and Microvascular Function, Marriott Platinum 3/4, 9:00-11:30 AM**

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|----------|--|
| 9:00 AM  | Ion channels and calcium signaling in skeletal muscle arterioles – William F. Jackson, Michigan State University.  |
| 9:35 AM  | Distinct contribution of Ca <sup>2+</sup> -dependent K <sup>+</sup> -channels (IK1, SK3) in endothelium - dependent dilation in the microcirculation. Cor de Wit, University of Lübeck |
| 10:10 AM | Vasoregulation by smooth muscle cell IP <sub>3</sub> receptors – Jonathan Jaggar, University of Tennessee.   |

10:45 AM Calcium Sparklets in Cardiac and Arterial Smooth Muscle – Luis Fernando Santana, University of Washington.

**MCS Awards Banquet Luncheon, Platinum Ballroom 5, 12:00-1:45 PM**

**President's Symposium II**

**Hot Topics in Renal Microvascular Control, Marriott Platinum 3/4, 2:00-4:30 PM**

2:00 PM Introduction – William F. Jackson, Michigan State University.

2:05 PM Autoregulation and reactivity of afferent and efferent arterioles - Edward Inscho, Medical College of Georgia.

2:40 PM Vascular smooth muscle signaling mechanisms in the renal microcirculation - William Arendshorst, University of North Carolina.

3:15 PM Role of vasa recta in medullary perfusion and countercurrent exchange - Thomas Pallone, University of Maryland.

3:50 PM Multiphoton imaging of the (juxta) glomerular microcirculation and functions - Janos Peti-Peterdi, University of Southern California.

4:20 PM Concluding questions and comments.

**Sunday April 25, 2010**

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**The Eugene M. Landis Research Award Lecture**

**Imaging the Immune Response – Ulrich H. von Andrian, Harvard Medical School, Marriott Platinum 3/4, 3:15-4:30**

**MCS Poster Sessions, 8:00AM-4:00 PM, Poster Hall**

**MCS General Business Meeting, Marriott Platinum 3/4, 4:45-5:30**

**Monday, April 26, 2010**

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**MCS Young Investigator Symposium, Marriott Platinum 7/8, 10:30-12:30**

10:30 AM Substance P activates both inflammatory and contractile signaling pathways in lymphatics through neurokinin receptors – Sanjukta Chakraborty, Texas A&M Health Sciences Center.

10:45 AM A fibronectin fragment elicits vasodilation and alters myogenic responsiveness of skeletal muscle arterioles - J-T Sherry Chao, University of Missouri, Columbia.

11:00 AM Arteriolar rarefaction in murine skeletal muscle linked to shear rate and plasma cytokine dysregulation – MKB Georgi, Stony Brook University

- 11:15 AM A potential for localized translation and induction of plasminogen activator inhibitor-1 at the myoendothelial junction in response to TNF-alpha - Katherine Heberlein, University of Virginia.
- 11:30 AM Gut wall compromise in the presence of pancreatic enzymes causes circulatory shock - Erik B.Kistler, University of California, San Diego.
- 11:45AM PAR4 deficiency inhibits microvascular inflammation after cerebral ischemia/reperfusion injury - Yingying Mao, Temple University School of Medicine.
- 12:00 PM TNFalpha compromises the inner ear microcirculation in a sphingosine kinase1/sphingosine-1 phosphate dependent manner--a novel mechanism for sudden hearing loss - Elias Q. Scherer, Technical University of Munich.
- 12:15 PM Stressed microvilli and long tethers in rolling, tight adhesion zones and aft trunks in arresting neutrophils revealed using TIRFM - Prithu Sundd, University of California, San Diego.

### **MCS Poster Sessions, 8:00AM-4:00 PM, Poster Hall**

**Tuesday, April 27, 2010**

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### **MCS Poster Sessions, 8:00AM-4:00 PM, Poster Hall**

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#### **A note from the Communications Committee:**

We are looking to breath young life into the society and are therefore encouraging a more in-depth and modernized webpage (which has already begun), as well as a strong presence on social media sites such as Facebook. If you have a Facebook account, please "fan us" and encourage your graduate students/post-docs to do the same. Please take a moment to look around the webpage and Facebook page and feel free to give your comments/suggestions at EB or via email (bei6n@virginia.edu).

Microcirculatory Society Luncheon  
Saturday, April 24, 2010  
12:00 Noon – 1:45 PM  
Marriott Platinum Ballroom 5

**Luncheon tickets may be purchased online at the MCS website;  
look for the link on our homepage ([www.microcirc.org](http://www.microcirc.org))**

**Use this form ONLY to reserve and pay for luncheon tickets by check**

Those paying by check, please mail this form and your check  
**(made out to The Microcirculatory Society, Inc.)** to

Terrence E. Sweeney, Ph.D., MCS Treasurer  
Department of Biology, The University of Scranton, Scranton, PA 18510 USA

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please write the name of each person for whom you are purchasing a ticket, and check the type of lunch they choose. Each lunch ticket is \$15.00\*

<b>Name</b>	<b>Chicken</b>	<b>Beef</b>	<b>Vegetarian</b>
<b>Total numbers of meals:</b>			

\*significantly less than cost. Meals are served warm on china service.

\_\_\_\_\_ Total Meals x \$15.00 = \_\_\_\_\_ Balance due

## Upcoming Meetings

# 9<sup>th</sup> World Congress for Microcirculation

The 9<sup>th</sup> World Congress will be held September 26-28, 2010 in Paris, France. Registration is now open, with early registration ending June 14, 2010. Deadline for abstract submission is May 9, 2010. More information can be found at <http://www.microcirculation2010.eu/>