The Microcirculatory Society, Inc. Newsletter

Volume 34, Number 3 Winter, 2007

Contents

Officers

President's Message

I hope that your 2007 is off to a good start. The Microcirculatory Society enters the New Year alive and well, and of course in need of your continued support. In other words, it is time to pay your dues, if you have not already done so. For this message, I challenged myself to find ten good reasons to pay. It was easier than I expected:

1. Receive this newsletter, which speaks for itself.

2. Be eligible to serve as an officer or a member of one of our twelve committees. The MCS runs remarkably smoothly, thanks to the many members who assist as officers and committee members. In most cases, the workload is not heavy, and it is both enjoyable and beneficial to our careers to interact with our colleagues in this way.

3. Be listed in our online directory. As scientists, we want people to know who we are and to be able to reach us easily (even if it is sometimes to ask us to review manuscripts). Our online directory is convenient to use and diligently maintained.

4. Help maintain the visibility of microcirculation research in the broader scientific community. The microcirculation represents a critical link in the chain of understanding from molecule to organism, and it is important that our contributions as microcirculation researchers are recognized and utilized.

5. Save up to $115 on your registration for Experimental Biology 2007, in Washington, DC, April 28 – May 2, 2007. Be sure to register by March 2 at http://www.eb2007.org/ for the lowest rate. Also, plan to attend our Business Meeting, Social Gathering, and Buffet which will be held 5 - 10 pm on Saturday, April 28th in Room 146B of the Washington Convention Center – details inside.

6. Help support the Eugene M. Landis Research Award each year at our annual meeting and the Benjamin W. Zweifach Award at each World Congress. By making these awards to our outstanding scientific leaders, we provide encouragement and inspiration to microcirculation researchers, and promote our field to others.

7. Help support travel awards to encourage young scientists to attend our meetings (the August Krogh Young Investigator Award for postdocs and the Zwei-

fach Student Award for graduate students) and to travel to laboratories in other countries (the Microcirculatory Society Travel Award for Outstanding Young Investigators residing in the USA and Canada, and the Christian Crone Travel Award for Outstanding Young Investigators residing elsewhere). These awards are our most important investment in the future of our field.

8. Help MCS sponsor the 8th World Congress for Microcirculation in Milwaukee, Wisconsin, August 15 - 19, 2007. Also, be sure to register and submit your abstracts by March 30, at http://www.microcirccongress.org/.

9. Receive a subscription to Microcirculation, the leading journal devoted to our field.

10. Be part of the welcoming and lively microcirculation research community. Ever since I first attended a meeting of the MCS (in 1982), it has been the professional society where I feel most at home and from which I have learned the most.

And here is one more – enhance the progress of microcirculation research and of biomedical science, for the benefit of humankind.

By now, you should have received a reminder email from Dr. Terrence Sweeney, our Treasurer, with an invoice attached. If you need an invoice and did not receive one, let me know. We are not planning to send paper invoices, so please respond to our electronic communications.

If you have any comments or suggestions about the goals and activities of the Microcirculatory Society, please feel free to contact me (secomb@u.arizona.edu).

With best wishes,

VERY IMPORTANT

Vote for New Officers

On-Line Voting Now in Place!!!
Go to the Microcirculatory Society Website (microcirc.org) and follow the instructions.

See Mini CVs for Candidates on Pages 5-12

Get your votes in soon!
Polls Close on March 14, 2007
(If you prefer to fax your vote, a paper ballot is included in this newsletter.)
We need your involvement in choosing our Society's leaders. You can make a difference!

Welcome to New Members

Regular Members:

Nikki L. Jernigan, Ph.D.
Department of Cell Biology and Physiology
University of New Mexico Health Sciences Center
Albuquerque, New Mexico

Walter Murfee, Ph.D.
Department of Bioengineering
Univeristy of California San Diego
LaJolla, California

Rupert Pearse, M.D.
Intensive Care Unit
Barts and The London School of Medicine and Dentistry
University of London
London, UK

Thomas C. Resta, Ph.D.
Department of Cell Biology and Physiology
University of New Mexico Health Sciences Center
Albuquerque, New Mexico

Vidula Vachharajani, M.D.
Department of Anesthesiology/Critical Care
Wake Forest University School of Medicine
Winston-Salem, North Carolina

Associate Members:

Fan Wu, Ph.D.
Department of Physiology
Medical College ofWisconsin
Milwaukee, Wisconsin

Alexander Zarbock, M.D.
Cardiovascular Research Center,
University of Virginia
Charlottesville, Virginia

Student Members:

Shaquria Adderley
Department of Pharmacology and Physiology
St. Louis University
St. Louis, Missouri

Joshua Scallan
Department of Medical Pharmacology and Physiology
University of Missouri School of Medicine
Columbia, Missouri

Michael Paffett
Department of Cell Biology and Physiology
University of New Mexico Health Sciences Center
Albuquerque, New Mexico

Xueping, Zhou
Department of Physiology and Pharmacology
West Virginia University
Morgantown, West Virginia

Curt Canine
Department of Medical Pharmacology and Physiology
Univeristy of Missouri School of Medicine
Columbia, Missouri

2007-2008 Microcirculatory Society Ballot

**** DO NOT USE if you utilize the on-line voting system ****

Vote for ONE of the following for President-Elect:

Steven Segal _____

Akos Koller _____

Vote for ONE of the following for Secretary:

Molly Frame _____

Judy Muller-Delp _____

Vote for TWO of the following for Councillors:

Steve Alexander _____

Michael Hill _____

Lih Kuo _____

Rolando Rumbaut _____

Please submit ballots no later than March 14, 2007 to the Vice-chair of the nominating committee:

Mary Ellsworth, Ph.D.
Department of Pharmacological and Physiological Scinece
1402 South Grand Boulevard
Saint Louis University
St. Louis, MO 63104
Ellsworthm@slu.edu
fax: (314) 977-6411

Candidates for Office

President-Elect

Steve Segal, Ph.D.

Present position: Professor of Medical Pharmacology and Physiology, University of Missouri-Columbia; and Investigator, Dalton Cardiovascular Research Center, Columbia MO
Education (Field, year completed): BA: UC Berkeley (Physical Education, 1976); MA: UC Berkeley (Exercise Physiology, 1978); PhD: U of M, Ann Arbor (Physiology and Education, 1984); Postdoctoral: UVA, Charlottesville (Microcirculation: 1987)
Active Research Support (as PI): NIH RO1 HL41026-15: "Intercellular Coordination of Blood Flow Control" and NIH RO1 HL56786-09: "Unit Control of Muscle Blood Flow".
Professional Societies (year joined): American College of Sports Medicine (1977), Microcirculatory Society, Inc. (1985), American Physiological Society (1985), American Heart Association (1987), European Society for Microcirculation (1990), The North American Vascular Biology Organization (1994).
Honors And Awards: NIH NRSA Postdoctoral Fellowship (1984-7); Fellow of The American College of Sports Medicine (1989); MCS Travel Award (1990); Abbott Award of the European Society for Microcirculation (1992); Fellow, Cardiovascular Section of the APS (1996), AHA Established Investigator Award (1995-8), AHA Fellow (2001).
Traineeships completed: Postdoctoral: 13; PhD: 5, Masters: 6; Visiting Scientists: 4
Seminars and Symposia (National + International): 82
Editorial & Referee Experience: Associate Editor: Microcirculation; Editorial Boards Served: Journal of Applied Physiology, American Journal of Physiology: Heart and Circulatory Physiology, Journal of Vascular Research, Microcirculation. Manuscript Referee: American Journal of Physiology; Arteriosclerosis, Thrombosis, and Vascular Biology; British Journal of Pharmacology; Circulation Research; Hypertension; European Journal of Physiology; FASEB Journal; Journal of Applied Physiology; Journal of Clinical Investigation; Journal of Physiology; Journal of Vascular Research; Laboratory Investigation; Medicine and Science in Sports and Exercise; Microvascular Research; Microcirculation; Proceedings of the National Academy of Sciences.
Grant Reviews & Study Sections Served: American Heart Association; American Institute of Biological Science; Canadian Institute of Health Research; National Bank Trust; National Institutes of Health: Hypertension and Microcirculation (Ad hoc), Vascular Control (Ad hoc), Bioengineering Partnership SEP (Ad hoc); Swiss National Science Foundation; Wellcome Trust.
Publications: Refereed Journal Articles as first or senior author: 66; Book Chapters: 10; Invited Reviews: 7; Invited Editorials: 2.
Current Research Interests: General: The nature of coupling between motor unit recruitment and microvascular perfusion in exercising skeletal muscle. Specific: Intra- and intercellular signaling in endothelium and smooth muscle of arterioles and resistance arteries, how these processes are initiated, how they are modulated by sympathetic nerve activity, and how they are affected by aging.
Personal Statement: I was drawn to study the microcirculation over 20 years ago and have focused my scientific career on understanding its secrets. I have shared this passion with members of the MCS as we have grown independently and as colleagues. The future of our Society rests with its youngest members. It is essential that we propagate our interest and excitement for studying the smallest of vessels because this is where the action is throughout the body! As an active member of the MCS, I have contributed to the planning and programming of national and international meetings, have recruited and sponsored numerous student, postdoctoral and senior memberships, have served on our Executive Council for 6 years, and have chaired our Nominations Committee for the last 3 years. I have also served on our Journal's editorial board for 7 years and as Associate Editor for the last 3 years. As the molecular tools, biophysical techniques and genetic strategies with which we attack our questions become increasingly sophisticated and multifaceted, it is essential that cutting-edge findings be

connected to their vascular supply. My goal as President is to increase the visibility of our Society through fostering an interdisciplinary appreciation of the central role of the microcirculation as a foundation for new and established investigators in basic, clinical and translational research.

Akos Koller, M.D., Ph.D.

Present position
Professor, Department of Physiology, New York Medical College, Valhalla, NY
Education
M.D. Semmelweis University of Medicine, Budapest, Hungary.
Ph.D. Hungarian Academy of Sciences.
Professional Societies (selected)
Microcirculatory Society (US)
European Society for Microcirculation
Hungarian Society for Mivrocirculation and Vascular Biology
American Heart Association
American Physiological Society
Hungarian Physiological Society
International Society for Pathophysiology
Recent National Funding
NIH "Endothelial control of arteriolar tone in hypertension" HL-46813
NIH "Endothelium and Vascular Function" PO-1 HL-43023.
AHA "Cardiovascular dysfunction in hyperhomocysteinemia" 0555897T
Recent Awards
Institute for Microcirculation Award from the European Society for Microcircualtion. 2006.
Committee Assignments
Development Committee, Microcirculatory Society, Member (1995-1997)
Development Committee, Microcirculatory Society, Chairman (1997-1998)
Publication Committee, Microcirculatory Society, Member (2000-2002)
Strategy Committee, European Society for Microcirculation (2005-present)
APS CV section Membership and Fellowship Committee, Chairman (2006-present)
Editorial Boards
Microcirculation (1992 – 1998)
Microvascular Research (2000 - present)
American Journal of Physiology Heart & Circulatory Physiology (2003 – present)
Acta Physiologica Hungarica, Co-Editor (1999 – present)
Journal of Vascular Research (2007- present)
Peer Reviewer (selected)
American Journal of Physiology, Circulation Research, Circulation, Cardiovascular Research, Am. J. of Ob. & Gyn., Hypertension, Arteriosclerosis, Thrombosis and Vasc. Biol
Grant Review Committees
American Heart Association, (1992–1997, 2006-present)
National Instuitute of Health (2005, 2006-present)
Research Foundation (2001-present)
American Physiological Society (2005-present)

Personal Statement: I joined The Microcirculatory Society (MCS) in 1985, as a postdoc in the laboratory of Paul Johnson, when the annual meeting was organized in Tucson, Arizona. I still remember two important events: one is, when Paul Johnson and Brian Duling rushed into a tree climbing competition (it was very scary) and the other one, is the first, and perhaps the most successful 5K run in the city of Tucson (which I organized). Since around this time, I was a newcomer to this country, the feeling of belonging to a family in this Society was very important to me. I think this is the essence of our Society, which did not change since that time. MCS was the first US Society that I became a member of. Although, since 1985, I became a member of several Societies, I still feel that The Microcirculatory Society is my Alma Mater ("first love"). One of my priorities, as a regular member or an officer is to maintain the warm, friendly and productive environment of this Society, in which we can embrace both young and older scientists. Last, but not least, my other priorities are to maintain and improve the scientific output of MCS, by increasing the quality of our meetings and contribute, whenever I can to the structural, functional and financial well-being of MCS.

Secretary

Mary D. (Molly) Frame, Ph.D.

Present Position: Associate Professor and Vice-Chair, Director of the Undergraduate Program in Biomedical Engineering. Associate Professor of Physiology/Biophysics. Stony Brook University, Stony Brook, NY.
Education: B.S., University of Missouri-Columbia, Biology (1980), Ph.D., University of Missouri-Columbia, Physiology (1990), Post-Doctoral Fellow, University of Rochester, Department of Biophysics (1990-1993).
Professional Societies: Biophysical Society (1990); American Physiological Society (1990); American Heart Association, Circulation (1994); Biomedical Engineering Society (1999); American Association for the Advancement of Science (1990); Microcirculatory Society (1991); Society for Women's Health Research (2003).
Honors and Awards: Curator's Scholarship, University of Missouri (1976), National Institutes of Health Pre-Doctoral Fellowship (1986-1989), National Institutes of Health Post-Doctoral Fellowship (1990-1993), Travel Award, 5th World Congress for Microcirculation (1991), American Heart Association, Finalist Melvin L. Marcus Young Investigator Award (1994), Whitaker Foundation Research Grant (1995-1999), National Institutes of Health R29 (FIRST) Award (1996-2000); American Heart Association Established Investigator Award (2000-2003); McGowen Research Award for Contribution to Regenerative Medicine (2004); National Institutes of Health NHLBI R01 (2001-2007); National Institutes of Health DK R01 (co-PI, 2004-2008); American Heart Association Grant in Aid (2006-2009); National Science Foundation S-STEM (education grant, 2006-2010.
National Funding: National Institutes of Health NHLBI R01 (1996-2007, pending); NIH DK R01 (co-PI, 2004-2008). American Heart Association Grant in Aid (2006-2009).
Editorial Boards:
Grant Review: Ad hoc Member of National Institutes of Health Experimental Cardiovascular Sciences Study Section (2001, 2002); National Institutes of Health Special Emphasis Panel (1999,

2001); American Heart Association Northeast (2004, 2005); NIH Grant Review, Special Emphasis Panel, Programs of Excellence for Nanotechnology (NHLBI, 2004); NIH Grant Review, Special Emphasis Panel, Modeling and Analysis of Biological Systems (2005, 2006).

Peer Review: American Journal of Physiology, Journal of Applied Physiology, Cancer Research, FASEB Journal, Journal of Vascular Research, Microcirculation, Microvascular Research, Thrombosis Research, Quarterly Review of Biology.

Professional Activities: Registered Outside User of the Cornell Nanofabrication Facility (1994-2004); Biomedical Engineering Society Annual Meeting, symposia organizer (2000); Whitaker Academic Leadership Program (2003); User's Executive Committee for the Center for Functional Nanomaterials, Brookhaven National Laboratory (2004-2008, Chair 2006-2008); Joint NSLS/CFN Annual Meeting: Workshop Organizer (2006,2007); Co-Chair (2007); NIH Working Group, Vascular Biology and Computational Models (2005); Microcirculatory Society, Program Committee, 1996-2000; Membership Committee, 2001-2005, Chair, 2002-2005; Treasurer, 2004-2006.

Current Research Interests: Our laboratory is focused on understanding arteriolar network flow regulation during neurogenic inflammation and with leptin-deficient models of diabetes and wound healing. To this end we relate ongoing fluid mechanical factors to the pathological state, and network response capability in vivo, and design artificial microvascular network components to enhance angiogenesis and wound healing.

Personal Statement

Serving the Microcirculatory Society is a small way that I can give back to a group that has fostered my career development. Senior mentorship from the society has provided me a depth and breath of experience that continues today. My goals within the society are to continue the excellent communication within the society, and between other societies; to help with the final transition phase in moving the web site to Jackson, MI; to help retain new members by passing on what I have learned.

Judy Muller-Delp, Ph.D.

Present Position: Associate Professor of Physiology and Pharmacology, West Virginia University School of Medicine, Morgantown, WV

Education: B.S., Rockhurst College, Biology,1987; Ph.D.,University of Missouri, Physiology, 1992; Postdoctoral Fellow, Texas A&M University, Physiology,1992-1996;

Postdoctoral Fellow, University of Missouri, Physiology, 1996-1997

Professional Societies: Microcirculatory Society (Membership Committee 2003-2005, Programming Committee Chair, 2005-); American Physiological Society

Honors and Awards: National Institutes of Health National Research Service Award 1993-1996; Microcirculatory Society August Krogh Young Investigator Award, 1996; Texas A&M University, Development Council Outstanding New Faculty Award, 2002; Texas Chapter of the American College of Sports Medicine Spring Lecture Tour, 2005

National Funding: NIH R01 HL077224-04, "Aging, Estrogen, and Coronary Endothelial Function"

Grant Review: American Heart Association: Western States Consortium Study Section, 2002-2004; American Heart Association: Vascular Biology and Blood Pressure/ Regulation, 2004-present

Peer Review: Microcirculation, American Journal of Physiology, Journal of Applied Physiology, Journal of Physiology, Cardiovascular Research, Circulation; Medicine in Science Sports and Exercise; Mechanisms of Ageing and Development; Journal of Clinical Endocrinology & Metabolism

Current Research Interests: Aging-induced adaptations of coronary and skeletal muscle microvasculature; Cardiovascular adaptations to exercise training; Effects of ovarian hormones on coronary microvascular

reactivity
Personal Statment: I joined the Microcirculatory Society as a graduate student, and I found it to be a rigorous, yet collegial society that fostered my development as a young scientist. The Microcirculatory Society provided a wonderful environment for me to gain experience and develop connections with more experienced senior investigators. The Society is also unique in its ability to bring together scientists who share an interest in the microcirculation, but utilize diverse research approaches. I want to work toward maintaining this unique environment, and to continue to provide excellent opportunities for scientific development to graduate students and young scientists.

Councillors

J. Steven Alexander, Ph.D.

Present Position: Associate Professor of Molecular and Cellular Physiology, LSU Health Sciences Center, Shreveport, LA
Education: Ph.D. (1989) Vascular Cell Biology, Boston University, Boston, MA
Professional Societies: Microcirculatory Society (Development Committee 2005-2007), American Physiological Society, National Association of Science Writers, North American Vascular Biology Association, American Gastroenterological Association
National Funding: NHLBI (PI or Project Leader). Intestinal Ischemia Reperfusion, (Matrix Metalloproteinases in Vascular Injury). AHA, NMDA Receptors and Stroke
Editorial boards. Microcirculation (1999-2007), American Journal of Physiology, Cell Physiology (2002-2007)
Grant Review: NIH, NHLBI Special panel CHD, American Heart Association (Southeast affiliate 1996-2005)
Peer Review: American Journal of Physiology, Circulation Research, Experimental Cell Research, Journal of Applied Physiology, Journal of Biomechanical Engineering, Journal of Biomechanics, Journal of Cerebral Blood Flow and Metabolism, Free Radical Biology and Medicine, Microcirculation
Current Research Interests: Lymphatic endothelial biology, lymphangiogenesis, Mechanisms of post-ischemic cerebrovascular injury, Multiple sclerosis, Angiogenesis, Endothelial junctional biology, Microvascular permeability
Personal Statement: Participation in the MCS has been an important part of my professional development for over 15 years. The MCS meeting continues to be my favorite conference experience. Strengths of the MCS include the diversity and collegial interactions of the membership, overall quality of research presentations at its annual meeting, the growing scope and impact of the Society journal (Microcirculation), and the emphasis given to nurturing trainees and new investigators. If elected to Council, I will work to strengthen the financial health of the Society, improve attendance at the annual meeting, and increase membership by targeting graduate students, postdoctoral fellows and physician-scientists.

Michael A. Hill, Ph.D.

Present Position: Associate Director, Dalton Cardiovascular Research Center
Professor of Physiology, Dep't of Medical Pharmacology and Physiology
University of Missouri
Columbia, Missouri 65211
Education: Ph.D. Department of Medicine, University of Melbourne, Australia, 1988.
Postdoctoral Training, Department of Medical Physiology, Texas A&M University 1988-1991
Professional Societies: Microcirculatory Society, American Physiological Society, Australian Physiological SocietyAustralian and New Zealand Microcirculation Society
American Association for the Advancement of Science
Honors and Awards: Fulbright Scholarship, 1988-89, Juvenile Diabetes Foundation postdoctoral fellowship, 1989, NIH FIRST Award, 1992, Australian and New Zealand Microcirculatory Society, John Casely Smith Award, 1999
National Funding (representative): National Health and Medical Research Council (Australia, 1997 – 2007), National Heart Foundation (Australia, 2001-2002; 2005 – 2006), Juvenile Diabetes Foundation (1990 – 1993; 1997 – 1999), NIH (1992 – 1999)
Editorial Boards:
American Journal of Physiology (1996 -1998), Microcirculation (2002 - present), Journal of Vascular Research (2007 – present)
Grant Review: American Heart Association (National; Vascular Wall 1, 2006 – present), American Heart Association (Virginia Affiliate, 1992 – 1995; Chair 1995), National Health and Medical Research Council (Australia), National Heart Foundation (Australia), Canadian Heart and Stroke Foundation, Alberta Heritage Foundation for Medical Research, Wellcome Trust
Peer Review (representative): American Journal of Physiology, Journal of Physiology, Journal of Applied Physiology, Journal of Vascular Research, Clinical and Experimental Physiology and Pharmacology
Current Research Interests: Signalling mechanisms and mechanotransduction underlying the arteriolar myogenic response; Ca2+ handling in microvascular smooth muscle; Smooth muscle – endothelial cell interactions; Microvascular complications of diabetes.
Personal Statement: From a personal standpoint the Microcirculatory Society has provided me with the opportunity to develop a number of ongoing friendships and collaborations. In addition, it has always provided me an opportunity to further my research interests. The multidisciplinary nature of the Society is a major asset and at the same time a threat. We as Society members benefit from the input of scientists from many different fields, but at the same time find ourselves drawn to societies and meetings of increasing specialization. A challenge, therefore, is for the Society to provide what I believe is a vital integrative link between different disciplines.

Lih Kuo, Ph.D.

Present Position: Professor, Department of Systems Biology and Translational Medicine, Cardiovascular Research Institute, Texas A&M Health Science Center; Director of Ophthalmic Vascular Research Program, Scott & White Memorial Hospital, Texas A&M Health Science Center
Education: Ph.D., Medical College of Virginia (in Physiology); Postdoctoral Fellow (in Microcirculation), College of Medicine, Texas A&M University
Professional Societies: Microcirculatory Society (Nomination Committee, 1997-2000); American

Physiological Society (Fellow, Cardiovascular Section); American Heart Association (Fellow, Basic Cardiovascular Sciences); Association for Research in Vision and Ophthalmology.
Honors and Awards: Forbes Research Paper Competition First Place Award, Medical College of Virginia, 1985; Grega-Zacharkow Young Investigator Award, Microcirculatory Society, 1990; International Symposium on Resistance Arteries Travel Award, Denmark, 1991; Outstanding Young Investigator Microcirculation World Congress Travel Award, Microcirculatory Society, 1991; FIRST Award, NIH, 1992-1997; Research Career Development Award, NIH, 1997-2002; Kruse Family Centennial Chair, Scott & White Memorial Hospital, Texas A&M Health Science Center, 2003-present; Distinguished Alumni Lectureship Award, Tunghai University, 2004.
Editorial Board: American Journal of Physiology Heart and Circulatory Physiology, 1997-2006.
Grant Review: Member of Central Research Review Committee, American Heart Association, 1992-1995; Member of Experimental Cardiovascular Sciences Study Section, NIH, 1994-1998; Merit Review, Cardiovascular Program Review Board, VA Medical Center, 1995-2002; Special Emphasis Panels, NHLBI, NIH, 1996-1999; Member, Cardiovascular Disease Study Section, California Tobacco-Related Disease Research Program, 2000-2002; Member, VA Medical Research Service Merit Review, Cardiovascular Studies-A, 2005-2008.
Journal Review: American Journal of Physiology; Arteriosclerosis, Thrombosis, and Vascular Biology; British Journal of Pharmacology; Canadian Journal of Physiology and Pharmacology; Cardiovascular Research; Circulation; Circulation Research; American Journal of Pathology; Endothelium; Journal of Pharmacology and Experimental Therapeutics; Journal of the American College of Cardiology; Journal of Applied Physiology; Journal of Vascular Research; FASEB Journal; Investigative Ophthalmology & Visual Science; Hypertension; Current Eye Research; Endocrinology; Infection and Immunity; Stroke; Microcirculation
Personal Statement: The Microcirculatory Society is a unique society with members who are interested in the microscopic view of the circulation. However, from macroscopic and integrated views, the Society needs to grow (i.e., angiogenesis and vasculogenesis) while maintaining its distinctive characteristics (i.e., multidisciplinary study of blood flow regulation) and creating the opportunities for idea exchange (i.e., functional capillaries). Although the promotion of scholarly interactions (i.e., cell-cell communication) is one of the important goals, the Society cannot survive without a healthy blood supply (i.e., members need to pay their dues on time). IF elected as Councilor, I would help to lubricate the microcirculation to attain its optimal function.

Rolando E. Rumbaut, M.D., Ph.D.

Present Position: Associate Professor of Medicine and Pediatrics, Baylor College of Medicine; Staff Physician, VA Medical Center, Houston, TX; Adjunct faculty in Bioengineering, Rice University
Education: M.D., Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico (1988); Internal Medicine Residency, Pulmonary/Critical Care subspecialty: Baylor College of Medicine & University of Missouri-Columbia (1989-1995); Ph.D. in Physiology, University of Missouri-Columbia (1998)
Professional Societies: Microcirculatory Society (Program Committee 2001-2004), American Physiological Society (Career Opportunities in Physiology Committee 2006-2008), American College of Chest Physicians, American Thoracic Society, American College of Physicians
Honors and Awards: Fellow, Cardiovascular Section-American Physiological Society, 2006; Microcirculatory Society Travel Award for Outstanding Young Investigators, 2004; Superior Graduate Achievement Award, University of Missouri-Columbia, 1997; Fellow, American College of Chest Physicians, 1997; Chief Medical Resident, Baylor College of Medicine, 1991

National Funding: NHLBI-HL079368 (PI-Active); NHLBI-HL070537 (Co-I, Active); VA Merit Award (Co-I, Active); NHLBI-HL64721 (PI-Completed); AHA National Grant-in-Aid (PI-Completed)
Editorial Boards: Microcirculation (1998-2003)
Grant Review: NIH Hypertension and Microcirculation Study Section (2006); AHA Western Review Consortium (2003-present); NIH Cardiovascular and Renal Study Section (2002); NIH Clinical Cardiovascular Sciences (2002)
Peer Review: Am J Physiol; FASEB J; Arterioscler Thromb Vasc Biol; J Physiol; J Vasc Res; Circulation; Microcirculation; J Leuk Biol.
Current Research Interests: Microvascular permeability, platelet-microvessel interactions
Personal Statement: The Microcirculatory Society has been enormously helpful to my career development; it would be a privilege to serve as councilor. As a physician-scientist, I would encourage the society to continue promoting integration of clinical and basic scientists. I welcome the opportunity to encourage other physician-scientists to become involved in our society and participate in future activities that are mutually beneficial.

Congratulations to our 2007 MCS Award Recipients

Landis Award

Gerry Meininger, Ph.D.
Professor, Department of Medical Pharmacology and Physiology, School of Medicine, University of Missouri-Columbia, Columbia, Missouri

Award for Excellence in Lymphatic Research

James Brandon Dixon, Ph.D.
EPFL
SV-IBI-LMBM
Building AAB, Station 15
1015 Lausanne, Switzerland
"Lymph flow, shear stress, and lymphocyte velocity in rat mesenteric prenodal lymphatics"

Krogh Travel Awards

Brad R.S. Broughton, Ph.D.
Vascular Physiology Group, Dept. of Cell Biology and Physiology, University of New Mexico Health Sciences Center, Albuquerque, NM, 87131
"Chronic Hypoxia Augments Membrane Depolarization-Induced Myofilament Ca2+-Sensitization Through Stimulation of Rho Kinase in Small Pulmonary Arteries"

Walter L. Murfee, Ph.D.
Department of Bioengineering, University of California San Diego, 9500 Gilman Drive, La Jolla, CA, 92093-0412

"Identification of lymphatic/blood vessel connections at the capillary level in adult rat mesenteric microvascular networks"

Michael Paffett, Ph.D.
Department of Cell Biology & Physiology, Basic Medical Sciences Building, Room 149, MSC08 4750, 1 University of New Mexico, Albuquerque, NM 87131
"PKC Inhibition Restores Store-Operated Ca2+ Entry in Pulmonary Endothelial Cells From Chronically Hypoxic Rats"

Alexander Zarbock, Ph.D.
University of Virginia, Robert M. Berne Cardiovascular Research Center, Charlottesville, VA, 22903.
"Dual signaling pathways control LFA-1 mediated rolling and arrest on ICAM-1"

Zweifach Travel Awards

Christopher R. Anderson
Department of Biomedical Engineering, University of Virginia, Charlottesville, VA 22908
"CD36 is Downregulated by VEGF-A and the Removal of Wall Shear Stress: Implications for the Regulation of a CD36- Capillary Sprout Specific Endothelial Phenotype"

Julia C Arciero
Program in Applied Mathematics, University of Arizona, Box 210089, Tucson, AZ, 85721
"Roles of oxygen-dependent ATP release by red blood cells and conducted responses in metabolic regulation of blood flow"

Kim Parker Gannon,
Department of Physiology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS, 39216
"ASIC2 protein is required for pressure-induced constriction in mouse middle cerebral artery"

Lori S. Kang.
Center for Interdisciplinary Research in Cardiovascular Sciences, West Virginia University, Morgantown, WV 26506
"Aging and gender alter thromboxane-induced vasoconstriction and thromboxane receptor expression in coronary microvasculature"

Benjamin L. Hodnett.
Department of Physiology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS, 39216
"KATP-mediated vasodilation is impaired in obese Zucker rats"

Feilim Mac Gabhann,
Department of Biomedical Engineering, Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD, 21205
"Combinations of pro-angiogenic therapies targeting VEGF and VEGF receptors outperform monotherapies in computational models of human skeletal muscle"

MCS Awards Reception
at the Experimental Biology Meeeting in Washington, D.C.

Washington Convention Center
Room 146B
Saturday April 28, 2007
6:30 - 9 P.M.

curried chicken tartlets

gruyere and leek quiche

wild mushroom puffs

crab salad in mini bouchee

prosciutto-wrapped melon

Asian chicken satay

market fresh vegetables and dips

beverages
(limited beer, soft drinks, and wine)

Ticket price: $40

You may purchase tickets on line by accessing the newsletter on the society website. Tickets may also be purchased by mail using the form that follows.

MCS Awards Reception
Ticket purchase

Number of Tickets ($40 each) _____

Total Cost _____

Please enclose a check with this completed form and mail to:

Dr. Terry Sweeney
Department of Biology
University of Scranton
Scranton, PA 18510-4625

Announcements

*On November 9, 2006 the Office of the Vice President for Research and Graduate Studies at the University of Virginia recognized the outstanding achievements of one of our members. Dr. Brian Duling was an inaugural winner of the University of Virginia Distinguished Scientist Award. The society congratulates Dr. Duling on receiving this prestigious award

*Don't forget to submit abstracts and register for the 8th World Congress for Microcirculation.