

The Microcirculatory Society, Inc.

Newsletter

Volume 41, Number 4 – Spring 2014



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A Note from the President

Greetings!

It was great to see many of you in San Diego! Despite that the Experimental Biology attendance was decreased overall, the MCS enjoyed a vibrant meeting with great science, camaraderie, and a renewed focus on our fantastic Early Stage Investigators. Dr Frisbee's President's Symposium was an excellent look at a spectrum of new models (zebrafish!) to new applications and findings in cerebral blood flow. The Young Investigator Symposium and Rapid Fire sessions truly showcased our Early Stage Investigators. At the poster sessions, I met with many graduate (and undergraduate!) students. Many thanks to the MCS members, meeting organizers, program committee and session chairs for an outstanding meeting.

I was honored to attend the First Annual Gabor Kaley Symposium in San Diego. The presentations showcased the legacy of mentoring and of the science of our great friend and colleague, Professor Kaley. I look forward to continuing collaboration, with APS and MCS alternating in organizing this important symposium. MCS is driving the selection for 2015. As soon as the Lectureship is confirmed, we will let you know.

Officers

President

Mary D. (Molly) Frame, PhD
mary.frame@stonybrook.edu

President-Elect

Rolando E. Rumbaut, PhD
rrumbaut@bcm.edu

Past-President

Jefferson C. Frisbee, PhD
jefrisbee@hsc.wvu.edu

Secretary

Trevor R. Cardinal, PhD
tcardina@calpoly.edu

Treasurer

Shayn M. Peirce-Cottler, PhD
smp6p@virginia.edu

I am pleased to inform you of Council's decision to hire administrative assistance for the daily maintenance of the society. The MCS Membership approved hiring of administrative support in 2009. At that time, we felt that a Membership Director would be sufficient. The initial contract with our prior Membership Director is over. Council has unanimously decided to expand this position to be an Executive Director. With Past-president, Dr. Frisbee, and President-elect, Dr. Rumbaut, we are actively seeking an Executive Director, who will support us in our continued mission, *to actively encourage and promote all forms of innovative research and teaching, leading to an increase in understanding of microcirculatory function in health and disease.*

Looking forward, we have Vascular Biology 2014 with NAVBO, October 19-23, 2014 (<http://www.navbo.org/events/vb2014>). This meeting will take place at the beautiful and rustic Asilomar Conference Grounds, Monterey, CA. MCS is adding three symposia of Inflammatory Oxidative/Nitrosative Stress on Microvascular Responses in Vascular Disease, New Perspectives on the Roles of Lymphatics in Inflammation and Molecular and Cellular Dynamics of Angiogenesis. These topics dovetail nicely with the overall theme of the meeting: Developmental Vascular Biology & Genetics, and Vascular Inflammation. The abstract deadline is August 1.

A Note from the President, continued

EB 2015 deadlines are just around the corner! The Landis Award Nominations will be issued very soon. The Awards Committee is poised and ready to sift through the many resumes and letters. There is a strict deadline. Please forward your nominations to the Chair of the Awards Committee, **Dr. Roland Pittman** at pittman@vcu.edu by **5:00 pm, May 26, 2014**. Keep in mind the many travel awards we have so that our excellent Early Stage Investigators (graduate students and post-doctoral fellows) can attend EB. We will post those deadlines in the next Newsletter.

The World Congress preparations are underway. Place a note on your calendar to meet in Kyoto, Japan September 25-27, 2015. At the MCS General Business Meeting in San Diego, we voted to sponsor 10 Early Stage Investigator Travel Awards at \$1,500 (USD) each. Of course, we next agreed upon a definition of 'Early Stage Investigator' to be an 'MCS member in good standing ranging from graduate students to 6 years post terminal doctoral degree by the time of application'. These Travel Awards will be competitive and chosen by the MCS Awards Committee. Additionally, remember we will also be sending a call for Zweifach Award nominations for the Zweifach Lecturer who will speak in Kyoto. Join us in Kyoto in September 2015!

As a heads-up, over the next few weeks, expect to see changes to our by-laws, which we will vote upon in the fall (3 months after they are presented to the membership).

I send a heart-felt thank you to the efforts of all outgoing MCS Officers, Councilors, and the un-sung heroes of our society's function, the Committee members. I welcome all new Officers, Councilors, and Committee members. With a wide representation to reflect our membership demographic, I welcome any suggestions for Committee members. I gratefully welcome your voice.

And lastly, it is with great sadness that I tell you of the passing of Professor Olga Hudlicka. She will be remembered as a brilliant colleague with a sharp wit and loving nature. Please read more on our website (<http://microcirc.org/>). A formal obituary will be forthcoming in the journal, *Microcirculation*.

Respectfully,



President, Microcirculatory Society, Inc.

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Welcome to New MCS Members**Regular Members**

Andrea N Moor, University of South Florida
 Anthony C Bruce, University of Virginia

Associate Members

Fong W Lam, Baylor College of Medicine

Student Members

none

Membership Benefits

- Discounted Registration for the Annual Meeting, Experimental Biology (\$165 savings for Regular/Associate Members and \$20 savings for Student Members)
- Twenty (20) Travel Awards at the Annual Meeting
- Full electronic access to the journal Microcirculation, and electronic table of contents with each issue
- International Travel Award for Outstanding Young Investigators
- Microcirculation Journal
 - No submission fee
 - No page charges
 - No charges for color figures

Dues are \$120 (Regular/Associate Members) or \$25 (Student Members)

MCS Officer and Councilor Election Results***President-elect***

- Rolando E. Rumbaut

Treasurer

- Shayn M. Peirce-Cottler

Councilors

- Jerome (Jerry) W. Breslin
- Kim A. Dora
- Anatoliy (Tolya) A. Gashev
- Walter Lee Murfee

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Landis Award Nominations

Nominations are called for the 2015 Microcirculatory Society Eugene M. Landis Award.

This annual award was established in 1969 to recognize an outstanding investigator in the field of microcirculation who is in residence in the United States or Canada. The awardee is expected to be an active investigator who has published and continues to provide meritorious research in the field of microcirculation. The award consists of a certificate and \$2000 to be used at the discretion of the awardee, as well as financial support to defray the cost of travel to the annual meeting to receive the award.

To nominate an individual for this award, prepare a letter of nomination describing the nominee's most important work and a current curriculum vitae, including a list of the nominee's 10 most significant publications from the last 10 years. This information should be forwarded to the Chair of the Awards Committee, Dr. Roland Pittman at pittman@vcu.edu by 5:00 pm, May 26, 2014. The award will be presented at the annual meeting of the Microcirculatory Society and the awardee will be invited to present a brief lecture related to his or her professional and research career activities. Awardees are expected to publish their formal lecture in Microcirculation as a 'Highlighted Manuscript.'

Microcirculation – Journal Awards**Wiederhielm Award – most highly cited original article (previous 5 years)**

Herbert Lipowsky & Aaron Mulivor

"Inhibition of glycan shedding and leukocyte-endothelial adhesion in postcapillary venules by suppression of matrixmetalloprotease activity with doxycycline", Microcirculation 16(8): 657-666, 2009

Gerritsen Award - most highly cited review (previous 5 years)

Dai Fukumura, Dan G. Duda, Lance L. Munn, Rakesh K. Jain

"Tumor Microvasculature and Microenvironment: Novel Insights Through Intravital Imaging in Pre-Clinical Models", Microcirculation 17(3):206-25, 2010

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Highlights from the 2014 Annual Meeting



Julian Lombard accepts the 2014 Eugene M. Landis Award for Outstanding Microcirculation Research from President Jeff Frisbee, after delivering his award lecture, entitled “Antioxidant Actions of Angiotensin II—A Complex (and Cautionary) Tale of Bright Seashells, Unexpected Results, Exciting Discoveries and Outrageous Good Fortune”.



President Jeff Frisbee passes the gavel to President-Elect Molly Frame, while receiving a plaque commemorating his term as President.

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Preview – Fall Meeting with NAVBO

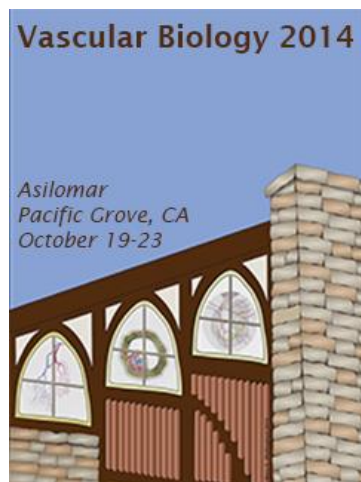
The Microcirculatory Society will again partner with NAVBO to host our Fall Meeting in 2014. The MCS “Special Symposia” at Vascular Biology 2014 will be held on Monday and Tuesday, October 20th and 21st at the Asilomar Conference Grounds in Monterey (Pacific Grove), California. Trainee Travel Awards will be available and Poster Sessions will occur on Monday and Tuesday evenings.

The Symposia Topics include:

- Inflammatory Oxidative/Nitrosative Stress on Microvascular Responses in Vascular Disease
Chairs: Zoltán Ungvári, Oklahoma University
Molly Frame, Stony Brook University
- New Perspectives on the Roles of Lymphatics in Inflammation
Chairs: Jerome Breslin, University of South Florida
Mariappan Muthuchamy, Texas A&M Health Science Center
- Molecular and Cellular Dynamics of Angiogenesis
Chairs: Shayn Peirce-Cottler, University of Virginia
W. Lee Murfee, Tulane University

Similar to last year, Symposia will include both invited speakers and selections from the submitted abstracts. The Abstract submission deadline is **August 1** for the following categories:

- Molecular and Cellular Dynamics of Angiogenesis
- New Perspectives on the Roles of Lymphatics in Inflammation
- Inflammatory Oxidative/Nitrosative Stress on Microvascular Responses in Vascular Disease
- Other Microcirculation (posters only)



For more information, please visit-
<http://www.navbo.org/events/vb2014>

Preview – Fall Meeting with NAVBO, continued

Opening Session – Sunday, October 19th

Keynote Lecture:

Gerald Crabtree, Stanford University

Chromatin Regulation: New Methods and Implications for Human Disease

Career Development Session – Monday, October 20th

Have an Editor Eye on Your Paper

Sponsored by the Journal of Vascular Pharmacology

Presenter: Luisa Iruela-Arispe, UCLA

Concurrent Sessions – Monday, October 20th – Wednesday, October 22nd

Developmental Vascular Biology & Genetics Workshop VI

and

Vascular Inflammation Workshop

Special Symposia – Tuesday, October 21st

Molecular mechanisms underlying the vascular disorder Hereditary Hemorrhagic Telangiectasia

Sponsored by the HHT Foundation International

Organized by C. Chris Hughes, University of California, Irvine

Chaired by Douglas Marchuk, Duke University

NAVBO Award Lectures - Wednesday, October 22

Earl P. Benditt Award Lecture

Jordan S. Pober, Yale University

Judah Folkman Award in Vascular Biology Lecture

Tatiana Byzova, Cleveland Clinic

Special Symposia – Thursday, October 23rd

Vascular Therapeutics

Organized and Chaired by Jan Kitjowski, Columbia University

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Upcoming Meetings**Frontiers in CardioVascular Biology**

Barcelona, Spain – July 4-6, 2014

<http://www.escardio.org/congresses/frontiers-in-cardiovascular-biology-2014/Pages/welcome.aspx>**Gordon Research Conference – Endothelial Cell Phenotypes in Health & Disease**

Girona, Spain – July 6-11, 2014

<http://www.grc.org/programs.aspx?year=2014&program=endothel>**11th International Symposium on Resistance Arteries**

Banff, Alberta, Canada – September 7-11, 2014

<http://www.isra2014.org/>**Small Blood Vessels: Big Health Problems?**

Bethesda, MD (NIH) – September 18-19, 2014

<http://meetings.ninds.nih.gov/meetings/small-vessel-workshop2014/>**Vascular Biology 2014 - Joint meeting of NAVBO and the MCS**

Monterey (Pacific Grove), CA – October 19-23, 2014

<http://www.navbo.org/events/vb20134>**Critical Issues in Tumor Microenvironment, Angiogenesis, Metastasis & Immunology**

Cambridge, MA – September 29-October 2, 2014

<http://steelelab.mgh.harvard.edu/tumorcourse>**10th World Congress for Microcirculation**

Kyoto, Japan – September 25-27, 2015

<http://www.congre.co.jp/wcmic2015/>

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Appendix – Meeting Flyers

FRONTIERS IN CARDIOVASCULAR BIOLOGY

Third Meeting of the ESC Council on Basic Cardiovascular Science



www.escardio.org/FCVB

ESC Working Groups on: Atherosclerosis and Vascular Biology - Cardiac Cellular Electrophysiology - Cardiovascular Pharmacology and Drug Therapy - Cellular Biology of the Heart - Coronary Pathophysiology and Microcirculation - Developmental Anatomy and Pathology - Myocardial Function - Thrombosis
Sister Societies: European Vascular Biology Organisation - International Society for Heart Research European Section - European Council for Cardiovascular Research - European Society for Microcirculation - Association for European Cardiovascular Pathology

GRC Gordon Research Conferences

July 6-11, 2014

**Endothelial Cell
Phenotypes in
Health & Disease**

**Endothelial Pathogenic Pathways:
Challenges and Opportunities for Translation**

GRS Gordon Research Seminars

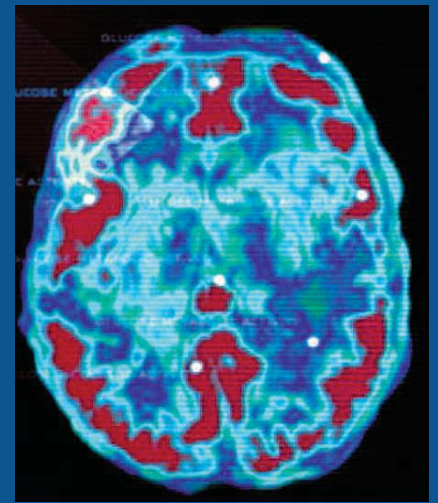
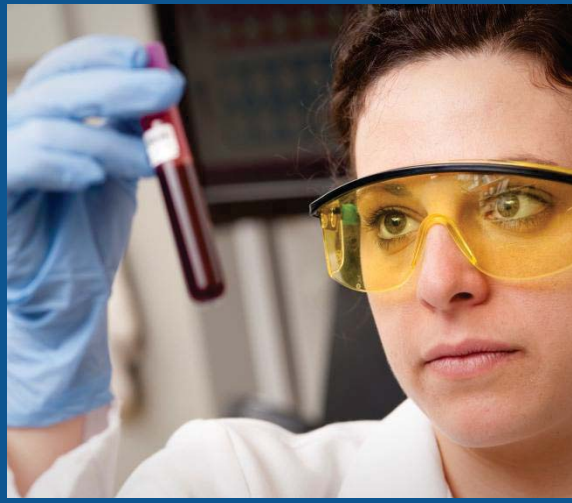
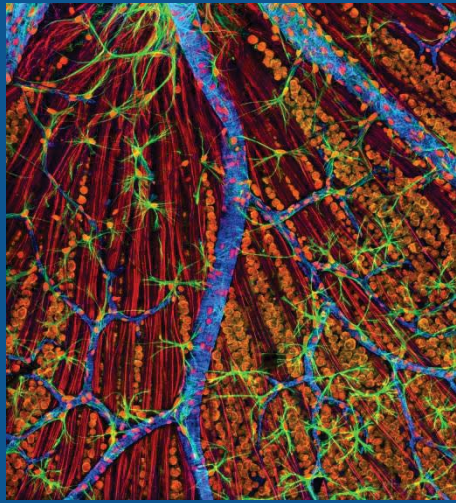
July 5-6, 2014

Girona, Spain

**Melia Golf Vichy Catalan
Business & Convention Center**



<http://www.grc.org/programs.aspx?year=2014&program=endothel>



Small Blood Vessels: Big Health Problems?

When: September 18-19, 2014

Where: Porter Conference Center (Bldg. 35A), NIH Main Campus,
Bethesda, MD

SAVE THE DATE for the first NIH-sponsored workshop on Small Blood Vessel Biology and Disease. **Registration is free.**



This two-day conference will bring together scientists and clinicians from diverse areas of small blood vessel research to share their latest discoveries, identify common challenges, and foster collaborative research on the normal function and malfunction of small blood vessels in the brain, heart, lung, kidney, eye, and other organs. Topics include: basic biology and natural history of small vessels, vascular dynamics, vessel-cellular interactions, vessels and disease, effects of environment, research tools and innovation, and more!

Meeting Information and Registration will be available soon at:
<http://meetings.ninds.nih.gov/meetings/small-vessel-workshop2014/>



Sponsored by:
National Institute of Neurological Disorders and Stroke
National Heart Lung and Blood Institute

<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Twenty-Fourth Annual Offering of Critical Issues in Tumor Microenvironment, Angiogenesis and Metastasis: From Bench to Bedside and Back</p> <p>September 21-24, 2009</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Twenty-Third Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 4-7, 2008</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Twenty-Second Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 5-8, 2007</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Twenty-First Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 5-8, 2006</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Twentieth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 8-9, 2005</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Nineteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 7-10, 2004</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Eighteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 2-5, 2003</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital Department of Radiation Oncology</p> <p>Present the Seventeenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 3-6, 2002</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Sixteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 4-7, 2001</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>
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<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Fifteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 5-8, 2000</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	 <h1>Critical Issues in Tumor Microenvironment, Angiogenesis, Metastasis & Immunology</h1> <h2>September 29 - October 2, 2014</h2> 							<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Tenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 2-5, 1997</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>
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<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Fourteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 7-10, 1999</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>	<p>2014 Faculty</p>	<p><i>Lewis Cantley, Ph.D.</i></p> <p><i>Glenn Dranoff, M.D.</i></p> <p><i>Harold F. Dvorak, M.D.</i></p> <p><i>Jeffrey Engleman, M.D., Ph.D.</i></p> <p><i>Napoleone Ferrara, M.D., Ph.D.</i></p> <p><i>Isaiah J. Fidler, D.V.M., Ph.D.</i></p> <p><i>Rakesh K. Jain, Ph.D.</i></p> <p><i>Robert S. Kerbel, Ph.D.</i></p> <p><i>Raju Kucherlapati, Ph.D.</i></p> <p><i>Marsha Moses, Ph.D.</i></p> <p><i>Drew Pardoll, M.D., Ph.D.</i></p> <p><i>Jeffrey W. Pollard, Ph.D.</i></p> <p><i>George W. Sledge, Jr., M.D.</i></p> <p><i>Zena Werb, Ph.D.</i></p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Eleventh Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 3-7, 1996</p> <p>at the Royal Sonesta Hotel Cambridge</p>
<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Thirteenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 1-4, 1998</p> <p>at the Royal Sonesta Hotel Cambridge, Massachusetts</p>		<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Tenth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 5-9, 1995</p> <p>at the Royal Sonesta Hotel Cambridge</p>	

<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Eighth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 7-11, 1993</p> <p>at the Omni Parker House Hotel Boston</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Seventh Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 8-12, 1992</p> <p>at the Omni Parker House Hotel Boston</p>	<p>Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 3-7, 1991</p> <p>Sixth Annual Offering</p> <p></p> <p>Current Sponsors American Cancer Society American Dynamal Company Boehringer-Ingelheim Bristol-Myers Squibb Burrhus Wellcome Company Daiichi Pharmaceutical Co., Ltd. E.I. duPont de Nemours & Co. Hoffmann-La Roche Lilly Mitsubishi Novartis Pfizer Roche Sandoz Schering Takeda Toshiba Wako Pure Chemical Industries, Ltd. Watanabe Yamanouchi</p>	<p>Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 4-8, 1990</p> <p>Fifth Annual Offering</p> <p></p> <p>Current Sponsors American Cancer Society Boehringer-Ingelheim Bristol-Myers Squibb Burrhus Wellcome Company Daiichi Pharmaceutical Co., Ltd. E.I. duPont de Nemours & Co. Hoffmann-La Roche Lilly Mitsubishi Novartis Pfizer Roche Sandoz Schering Takeda Toshiba Wako Pure Chemical Industries, Ltd. Watanabe Yamanouchi</p>	<p>Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 5-9, 1989</p> <p>Fourth Annual Offering</p> <p></p> <p>Past and Current Sponsors Abbott Laboratories American Cancer Society American Dynamal Company Boehringer-Ingelheim Bristol-Myers Squibb Burrhus Wellcome Company Daiichi Pharmaceutical Co., Ltd. E.I. duPont de Nemours & Co. Hoffmann-La Roche Lilly Mitsubishi Novartis Pfizer Roche Sandoz Schering Takeda Toshiba Wako Pure Chemical Industries, Ltd. Watanabe Yamanouchi</p>	<p>Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 13-17, 1988</p> <p></p> <p>Sponsors American Cancer Society American Dynamal Company E.I. du Pont de Nemours & Company Eli Lilly & Company Monsanto Company Pharmacia Leo Pharmaceutical</p>	<p>Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 8-12, 1987</p> <p></p> <p>Sponsors Abbott Laboratories E.I. du Pont de Nemours & Company, Inc. Biomedical Products Glaxo, Inc. Johnson & Johnson Novartis Roche Sandoz Schering Takeda Toshiba Wako Pure Chemical Industries, Inc.</p>	<p>General Biology and Pathophysiology of Tumors</p> <p>June 16-20, 1986</p> <p>Mellon Institute Carnegie Mellon University</p>	<p>Harvard Medical School Department of Continuing Education and Massachusetts General Hospital</p> <p>Present the Ninth Annual Offering of Critical Issues in Tumor Microcirculation, Angiogenesis and Metastasis: Biological Significance and Clinical Relevance</p> <p>June 8-10, 1994</p> <p>at the Royal Sonesta Hotel Cambridge</p>
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