# The Microcirculation in Acute Infections Symposium
## Agenda as of 04/20/2015

### DAY ONE: Monday, April 27, 2015

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Length</th>
<th>Clock Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A.</td>
<td>Dietmar Vestweber, PhD (Professor, Max Planck Institute for Molecular Biomedicine, Münster, Germany): The Role of Endothelial Junctions in Leukocyte Extravasation and Permeability Control</td>
<td>25 min</td>
<td>9:45-10:15</td>
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<tr>
<td>1B.</td>
<td>Dolly Mehta, PhD (Professor, Department of Pharmacology, University of Illinois, Chicago, IL): Signaling Mechanisms Regulating Opening and Closing of the Vascular Barrier</td>
<td>25 min</td>
<td>10:45-11:15</td>
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<tr>
<td>1C.</td>
<td>Short talk: Pascal Yazbeck, MS: Focal Adhesion Kinase Regulates Ca^{2+} Entry by Downregulating Orai1 Expression (University of Illinois, Chicago, IL)</td>
<td>10 min.</td>
<td>11:15-11:30</td>
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<tr>
<td>1D.</td>
<td>Short talk: Abha Sahni, PhD: miRNA-regulated FGF2/FGFR1 on Host Endothelium Facilitates Rickettsial Invasion (University of Texas Medical Branch, Galveston, TX)</td>
<td>10 min.</td>
<td>11:30-11:45</td>
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<tr>
<td>1E.</td>
<td>Short talk: Tatyana Buzhdygan, PhD: Endothelial Injury in HIV-Infected Brain is Associated with Low Inhibitory Tone (University of Texas Medical Branch, Galveston, TX)</td>
<td>10 min.</td>
<td>11:45-12:00</td>
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### Session 1: Vascular Permeability | Moderators: Dolly Mehta and Sanjeev Sahni

<table>
<thead>
<tr>
<th>Lunch in Levin Hall Dining Room</th>
<th>1 hr, 15 min</th>
<th>12:00-1:15</th>
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</thead>
<tbody>
<tr>
<td>1F. Eric Schmidt, MD (Assistant Professor, University of Colorado Anschutz Medical Campus, Aurora, CO): The Endothelial Glycocalyx—A Determinant of Lung Injury Onset and Resolution during Sepsis.</td>
<td>25 min</td>
<td>1:15-1:45</td>
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<tr>
<td>1G. Dennis Grab, PhD (Associate Professor, Department of Pathology, Johns Hopkins University, Baltimore, MD): Traveling with African Trypanosomes with Their Twists and Turns across the Human Blood Brain Barrier.</td>
<td>25 min</td>
<td>1:45-2:15</td>
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### Session 2: Coagulation | Moderator: Stephen Dumler

<table>
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<tr>
<th>Lunch in Levin Hall Dining Room</th>
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<tbody>
<tr>
<td>2A. Morley Hollenberg, PhD, MD (Professor, Department of Physiology and Pharmacology, University of Calgary, Calgary, Alberta, Canada): Proteinases, Proteinase-activated Receptors (PARs) and Vascular Regulation.</td>
<td>25 min</td>
<td>2:15-2:45</td>
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<tr>
<td>2B. Katherine Hajjar, MD (Professor, Department of Pediatrics, Weill Cornell Medical College, Cornell University, New York, NY): The Annexin A2 System in Acute Inflammation.</td>
<td>25 min</td>
<td>2:45-3:15</td>
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### Break 2; refreshments in Levin Hall Foyer

### DAY TWO: Tuesday, April 28, 2015

All scientific sessions take place in 2.222 Levin Hall South Auditorium

| Reminder: no food or drink allowed in the auditorium |

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>2C.</td>
<td>Welcome by Gustavo Valbuena, Scientific Organizing Committee Chair and Slobodan Paessler, McLaughlin Committee Chair</td>
<td>15 min.</td>
<td>8:30-8:45</td>
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<tr>
<td>2D.</td>
<td>Keynote Address #2. Kevin Kain, MD (Professor, Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Ontario, Canada): Endothelial Pathobiology in Malaria: A Model for Life-threatening Infections?</td>
<td>50 min</td>
<td>8:45-9:45</td>
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<tr>
<td>2E.</td>
<td>Short talk: Jordan Pober, MD, PhD (Yale University, Director, Human and Translational Immunology Program, New Haven, CT): Immune-mediated Activation and Dysfunction of the Microcirculation.</td>
<td>25 min</td>
<td>4:30-5:00</td>
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<thead>
<tr>
<th>Lunch in Levin Hall Foyer</th>
<th>1 hr, 15 min</th>
<th>12:00-1:15</th>
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<tbody>
<tr>
<td>3A. Tanya Mayadas, PhD (Professor, Department of Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA): Modulating Neutrophil Recruitment in Autoimmune-mediated Renal Inflammation.</td>
<td>25 min</td>
<td>3:30-4:00</td>
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<tr>
<td>3B. Andrew Lichtman, MD, PhD (Professor, Department of Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA): Bidirectional Regulation of Lymphoid and Endothelial Cells in Cardiovascular Disease.</td>
<td>25 min</td>
<td>4:00-4:30</td>
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<tr>
<td>3C.</td>
<td>15 min</td>
<td>3:15-3:30</td>
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### General Announcements, Housekeeping

- **Wrap up:** General announcements, housekeeping  
  - **Time:** 5 min  
  - **Clock Time:** 5:00 - 5:05

### Poster Session in Levin Hall Foyer

- **Time:** 1.5 hours  
- **Clock Time:** 5:00 - 6:30

### Dinner in Honor of David H. Walker, MD in the Levin Hall Dining Room

- **Time:** 2 hours  
- **Clock Time:** 6:30 - 8:30
  - **Activities:**
    - Introduction by Danny O. Jacobs, MD, Executive Vice President, Provost and Dean, School of Medicine, University of Texas Medical Branch
    - Comments by colleagues and friends

### Day Three: Wednesday, April 29, 2015

All general session talks take place in 2.222 Levin Hall South Auditorium

**Reminder: no food or drink allowed in the auditorium**

### Breakfast Burritos in Levin Hall Dining Room

- **Time:** 1 hour  
- **Clock Time:** 7:30 - 8:30

### Welcome. Acknowledgement of Travel Grantees and Recognition Award recipients

- **Time:** 30 min  
- **Clock Time:** 8:30 - 8:45

### Session 4: Inflammation and Immunity

**Moderators:** Bin Gong and Dennis Bente

| Keynote Address (#3), Sherif Zaki, MD, PhD (Chief, Infectious Disease Pathology Branch, Division of High-Consequence Pathogens and Pathology, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA): Breaching the Barrier: Pathology and Pathogenesis of Endothelial Infections |
|---|---|---|
| Length: 50 min + Q&A: 10 min | Clock Time: 8:45 - 9:45 |

**4A. Erich Mackow, PhD** (Professor, Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY): Endothelial Cell Responses to Hantavirus and Dengue Virus Infection

- **Time:** 25 min + Q&A: 5 min  
- **Clock Time:** 9:45 - 10:15

**Break; refreshments in Levin Hall Foyer**

- **Time:** 15 min  
- **Clock Time:** 10:15 - 10:30

**4B. Galina Gusarova, PhD** (Associate Research Scientist, Columbia University Medical Center, New York, NY): The Enigma of Acute Lung Injury

- **Time:** 25 min + Q&A: 5 min  
- **Clock Time:** 10:30 - 11:00

**4C. Short talk: Lynn Soong, MD, PhD** (Lynn Soong, MD, PhD): Exacerbated Endothelial Activation and Type 1 Immune Responses, but Impaired Type 2 Responses, Contribute to Severe Scrub Typhus in Mice (University of Texas Medical Brach, Galveston, TX)

- **Time:** 10 min + 5 min Q&A  
- **Clock Time:** 11:00 - 11:15

**4D. Short talk: Vanessa Sarathy, PhD** (Vanessa Sarathy, PhD): A Lethal Dengue Virus 3 Infection Model Leads to Systemic Disease in AG129 Mice (University of Texas Medical Brach, Galveston, TX)

- **Time:** 10 min + 5 min Q&A  
- **Clock Time:** 11:15 - 11:30

### Workshop on Technical Advances (Choose One from Two Concurrent Sessions)

**Workshop 1:** Cutting-edge advances in imaging, including advanced microscopy. Levin Hall 3.320.  
**Leaders:** Galina Gusarova, PhD (Columbia Univ.) and Paul Kubes, PhD (Univ. of Calgary)

- **Time:** 1 hour  
- **Clock Time:** 11:30 - 12:30

**Workshop 2:** Tissue Engineering and 3-dimensional In Vitro Modeling. Levin Hall 3.324.  
**Leader:** Peter Searson, PhD (Johns Hopkins Univ.)

- **Time:** 1 hour  
- **Clock Time:** 11:30 - 12:30

**Lunch in Levin Hall Dining Room**  
**Box lunches are available for those people that need to catch flights**

- **Time:** 1 hour  
- **Clock Time:** 12:30 - 1:30

### Workshop on Technical Advances, continued (Choose One from Two Concurrent Sessions)

**Workshop 3:** The role of microRNAs in vascular disease and as potential therapeutics.  
**Levin Hall 3.320.**  
**Leaders:** Sanjeev Sahni, PhD and Bin Gong, MD, PhD (both at UTMB)

- **Time:** 1 hour  
- **Clock Time:** 1:30 - 2:30

**Workshop 4:** Mouse models of vascular disease. Levin Hall 3.324.  
**Leaders:** Gustavo Valbuena, MD, PhD and David Walker, MD (both at UTMB)

- **Time:** 1 hour  
- **Clock Time:** 1:30 - 2:30