Monday, October 3, 2016

9:00-9:20 Opening Ceremony

9:20-10:00 Presidential Address

Chair - Soheyl Bahrami, IFSS President-elect; Ludwig Boltzmann Institute for Experimental & Clinical Traumatology, Vienna, Austria

My Odyssey in Shock Research, Japan Shock Society, Shock Society of North America, European Shock Society, and IFSS

Hiroyuki Hirasawa, President, IFSS; Professor Emeritus, Department of Emergency and Critical Care Medicine, Chiba University Graduate School of Medicine; CEO and Director, Eastern Chiba Medical Center, Chiba, Japan

10:00-11:40 Symposium 1

Achievement and Future Perspectives of Member Shock Society

Chairs - Hiroyuki Hirasawa, Professor Emeritus, Department of Emergency and Critical Care Medicine, Chiba University Graduate School of Medicine; CEO and Director, Eastern Chiba Medical Center, Chiba, Japan

Robert Cooney, Department of Surgery, Upstate Medical University, Syracuse, NY, USA

1. The State of Shock Society, US

Ping Wang, Shock Society, USA and Center for Immunology & Inflammation, The Feinstein Institute for Medical Research, Manhasset, NY, USA

2. Achievement and Future Perspectives of the Brazilian Shock Society and Latin-American Sepsis Institute

Reinaldo Salomao, Brazilian Shock Society (BSS) Latin American Sepsis Institute; Infectious Diseases / Hospital São Paulo, Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brazil

3. The Update of Severe Sepsis in China

Yong-Ming Yao, Chinese Shock Society (CSS) and Trauma Research Center, First Hospital Affiliated to the Chinese PLA General Hospital, Beijing, China

4. European Shock Society: Past, Present and Future

Jean-Marc Cavaillon, European Shock Society (ESS) and Cytokines & Inflammation Unit, Institut Pasteur, Paris, France

5. Present Status and Future Perspective of Japan Shock Society

Shigeto Oda, Japanese Shock Society (JSS) and Department of Emergency and Critical Care Medicine, Chiba University Graduate School of Medicine, Chiba, Japan

6. Society for Shock Studies (Russia) - Current State and Future

Viktor V. Moroz, Society for Shock Studies (Russia); V.A. Negovsky Research Institute of General Reanimatology, Moscow, Russia

11:50-12:50 Lunch Seminar 1 Sponsored by LSI Medience Corporation

Chair - Toshiaki Ikeda, Division of Critical Care Medicine, Tokyo Medical University, Hachioji Medical Center, Tokyo, Japan

A New Biomarker Presepsin in the Diagnosis and Evaluation of Sepsis

Yasushi Suzuki, Department of Critical Care, Disaster and General Medicine, Iwate Medical University, Iwate, Japan
### Symposium 2 (parallel session)

**Sepsis and Trauma Associated Coagulopathy**

**Chairs**
Soheyl Bahrami, Ludwig Boltzmann Institute for Experimental & Clinical Traumatology, Vienna, Austria
Toshiaki Iba, Department of Emergency and Disaster Medicine, Juntendo University, Tokyo, Japan

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<th>Time</th>
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<tr>
<td>13:00-13:20</td>
<td>1. Circulating Histones and Coagulation Disorder</td>
<td>Toshiaki Iba, Department of Emergency and Disaster Medicine, Juntendo University, Tokyo, Japan</td>
</tr>
<tr>
<td>13:20-13:40</td>
<td>2. Molecular Management in Polytrauma</td>
<td>Markus Huber-Lang, Department of Traumatology, University of Ulm, Ulm, Germany</td>
</tr>
<tr>
<td>13:40-14:00</td>
<td>3. The Role of Fibrinogen in Acute Trauma-induced Coagulopathy: Novel Insights and Therapeutic Options</td>
<td>Heinz Redl, AUVA Trauma Centre Salzburg, Salzburg; Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>4. The Updated Guideline for the Clinical Management of Acute Trauma Hemorrhage and Coagulopathy: The European Perspective</td>
<td>Marc Maegele, Department of Traumatology, Orthopedic Surgery and Sports Traumatology, Cologne-Merheim Medical Center (CMMC)/University Witten-Herdecke (Germany), Cologne, Germany</td>
</tr>
<tr>
<td>14:20-14:40</td>
<td>5. Coagulation Abnormality During Sepsis and Acute Pancreatitis in Aged Animals</td>
<td>Hiroshi Saito, Department of Surgery, University of Kentucky, Lexington, KY, USA</td>
</tr>
<tr>
<td>14:40-15:00</td>
<td>6. Experimentally Approaching the Trauma-induced Coagulopathy</td>
<td>Wenjun Martini, Hemostasis – Damage Control Resuscitation, US Army Institute of Surgical Research, Fort Sam Houston, TX, USA</td>
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### Symposium 4 (parallel session)

**Global Burden of Sepsis**

**Chairs**
Reinaldo Salomao, Infectious Diseases / Hospital São Paulo, Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brazil
Toshiaki Ikeda, Division of Critical Care Medicine, Tokyo Medical University, Hachioji Medical Center, Tokyo, Japan

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<tr>
<td>13:00-13:20</td>
<td>1. Current Situation of Diagnosis and Treatment of Sepsis in Japan</td>
<td>Hiroyasu Ishikura, Department of Emergency and Critical Care Medicine, Faculty of Medicine, Fukuoka University, Fukuoka, Japan</td>
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<tr>
<td>13:20-13:40</td>
<td>2. The Impact of Sepsis in USA</td>
<td>Philip A. Efron, University of Florida, Gainesville, FL, USA</td>
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<tr>
<td>13:40-14:00</td>
<td>3. Sepsis in Developing Countries</td>
<td>Reinaldo Salomao, Infectious Diseases / Hospital São Paulo, Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brazil</td>
</tr>
<tr>
<td>14:00-14:20</td>
<td>4. Direct Hemoperfusion with Polymyxin-B Immobilized Fiber (PMX-DHP) for Septic Shock Patients in Japan</td>
<td>Toshiaki Ikeda, Division of Critical Care Medicine, Tokyo Medical University, Hachioji Medical Center, Tokyo, Japan</td>
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<tr>
<td>14:20-14:40</td>
<td>5. A Novel Therapeutic Target for Sepsis</td>
<td>Ping Wang, Center for Immunology &amp; Inflammation, The Feinstein Institute for Medical Research, Manhasset, NY, USA</td>
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Monday, October 3, 2016 - continued

14:40-15:40  
Symposium 5 (parallel session)  
Role of Alarmins in Shock and Sepsis  

Cynthia / North  

Chairs -  
Timothy R. Billiar, Department of Surgery, University of Pittsburgh, Pittsburgh, PA, USA  
Ping Wang, Center for Immunology & Inflammation, The Feinstein Institute for Medical Research, Manhasset, NY, USA  

1. Targeting HMGB1 in the Treatment of Sepsis  
Haichao Wang, Laboratory of Emergency Medicine, The Feinstein Institute for Medical Research, Manhasset, NY, USA  

15:00-15:20  
Effect of High Mobility Group Box-1 Protein (HMGB1) on Host Immune Response and Its Regulatory Mechanism After Major Burns  
Yong-Ming Yao, Trauma Research Center, First Hospital Affiliated to the Chinese PLA General Hospital, Beijing, China  

15:20-15:40  
From Pamps and Alarmins to Tolerogens in Shock / Sepsis: What We Are Learning from Innate Regulatory Lymphocytes  
Alfred Ayala, Department of Surgery, Rhode Island Hospital; Division of Surgical Research, Brown University, Providence, RI, USA  

15:00-17:00  
Symposium 3 (parallel session)  
Persistent Inflammation, Immunosuppression and Catabolism Syndrome (PICS)  

Aurora  

Chairs -  
Lyle L. Moldawer, Department of Surgery, University of Florida College of Medicine, Gainesville, FL, USA  
Jean-Marc Cavaillon, Cytokines & Inflammation Unit, Institut Pasteur, Paris, France  

1. Persistent Inflammation, Immunosuppression and Catabolism Syndrome: A New Form of Chronic Critical Illness  
Lyle L. Moldawer, Department of Surgery, University of Florida College of Medicine, Gainesville, FL, USA  

15:20-15:40  
Concomitant Inflammation and Immunosuppression  
Jean-Marc Cavaillon, Cytokines & Inflammation Unit, Institut Pasteur, Paris, France  

15:40-16:00  
Bench to Bedside Research on Critical Illness Myopathy (CIM) and Ventilator Induced Diaphragm Muscle Dysfunction (VIDD): Mechanisms and Interventions  
Lars G. Larsson, Physiology and Pharmacology, Karolinska Institutet, Stockholm, Sweden  

16:00-16:20  
Influence of Age on PICS  
Philip A. Efron, University of Florida, Gainesville, FL, USA  

16:20-16:40  
Long Term Cognitive and Functional Declines Following Sepsis  
Djillali Annane, Raymond Poincaré Hospital (APHP), University of Versailles, Garches, France  

16:40-17:00  
Inflammation Associated Epigenetics and Metabolism: Novel Treatment Targets  
Charles E. McCall, Department of Molecular Medicine, Wake Forest University Medical Center, Winston Salem, NC, USA
Monday, October 3, 2016 - continued

15:40-17:20 Symposium 6 (parallel session)
Room 2
Cynthia / North
Sepsis and Shock: Painstaking Way to Comprehend and Treat Them

Chairs -
Marcin F. Osuchowski, Department of Intensive Care, Ludwig Boltzmann Institute for Experimental and Clinical
Traumatology, AUVA Research Center, Vienna, Austria
Satoshi Ono, Department of Critical Care Medicine, Tokyo Medical University Hachioji Medical Center, Tokyo, Japan

1. Mouse Sepsis Models in the Post-PNAS Reality: Still Viable or Utterly Helpless?
   Marcin F. Osuchowski, Department of Intensive Care, Ludwig Boltzmann Institute for Experimental and Clinical
   Traumatology, AUVA Research Center, Vienna, Austria

2. Impact of Immunosenescence on Sepsis: T Cell Exhaustion and Secondary Infection After Sepsis in the Elderly
   Shigeaki Inoue, Tokai University School of Medicine, Kanagawa, Japan

3. Understanding the Heterogeneity of the Host Response to Infection May Direct Therapy
   Daniel Remick, Department of Pathology and Laboratory Medicine, Boston University School of Medicine, Boston, MA, USA

4. Artesunate Protects Against the Organ Injury and Dysfunction Induced by Severe Hemorrhage and Resuscitation
   Chris Thiemermann, William Harvey Research Institute, Queen Mary University of London, London, UK

5. The Effective Therapy Using Endotoxin Tolerance Against Lethal Septicemia
   Manabu Kinoshita, Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan

17:20-18:20 Plenary Lecture 1
Room 1
Aurora

Innate Immunity and Inflammation
Shizuo Akira, Laboratory of Host Defense, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan

18:30-19:30 Evening Seminar Sponsored by Covidien Japan Inc.
Room 1
Aurora

The Potential Usefulness of Regional Cerebral Oxygen Saturation (rSO2) Monitoring for Better Cardiopulmonary Cerebral Resuscitation (CPCR) and Post-cardiac Arrest Care
Tomohiko Orita, Department of Emergency and Critical Care Medicine, Saiseikai Yokohamashi Tobu Hospital, Yokohama, Japan
Program - as of 08/05/16 - subject to change

Tuesday, October 4, 2016

8:30-10:30  Room 1  Aurora
Symposium 7 Sponsored by Asahi Kasei ZOLL Medical Corporation (parallel session)
Pathophysiology and Therapeutic Approach of Post-Cardiac Arrest Syndrome
Chairs - Clifton W. Callaway, Department of Emergency Medicine, University of Pittsburgh, Pittsburgh, PA, USA
Mayuki Aibiki, Emergency and Critical Care Medicine, Ehime University Graduate School of Medicine, Ehime, Japan

8:30-9:00  1.  **Keynote - Post-Heart Arrest Syndrome: The New Science**
Robert W. Neumar, Department of Emergency Medicine, University of Michigan Medical School, Ann Arbor, MI, USA; International Liaison Committee on Resuscitation

9:00-9:15  2.  **Molecular Mechanisms of Ischemic Brain Damage**
Hiroyuki Uchino, Department of Anesthesiology, Tokyo Medical University, Tokyo, Japan

9:15-9:30  3.  **Post-cardiac Arrest Brain Injury**
Clifton W. Callaway, Department of Emergency Medicine, University of Pittsburgh, Pittsburgh, PA, USA

9:30-9:45  4.  **Cardiologist’s Perspective of Post-cardiac Arrest Syndrome**
Shoji Kawakami, Department of Cardiovascular Medicine, National Cerebral and Cardiovascular Center, Osaka, Japan

9:45-10:00  5.  **How to Provide the Cardioprotection for the Ischemic Heart – A Lesson from the J-WIND Trial**
Masafumi Kitakaze, Department of Clinical Medicine and Development, National Cerebral and Cardiovascular Center, Osaka, Japan

10:00-10:30  Time for Questions and Answers

8:30-9:45  Room 2  Cynthia / North
Oral Session 1 (parallel session)
O1-1–O1-5

9:45-11:00  Room 2  Cynthia / North
Oral Session 2 (parallel session)
O2-1–O2-5
**Program**  - as of 08/05/16 - subject to change

**Tuesday, October 4, 2016 - continued**

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<tr>
<td>10:30-12:30</td>
<td>Symposium 8 Sponsored by Baxter Limited (parallel session) Blood Purification and ECMO for Sepsis and Septic Shock</td>
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<td>Room 1</td>
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<td>Aurora</td>
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<td>Chairs - Patrick M. Honore, ICU Department, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel, Brussels, BelgiumOsamu Nishida, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan</td>
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<tr>
<td>10:30-10:50</td>
<td>1. ECMO in Septic Shock: When to Use It and Not to Use It? Tao-Min Huang, Department of Internal Medicine, National Taiwan University Hospital and College of Medicine, Taichung, Taiwan</td>
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<td>10:50-11:10</td>
<td>2. The Pathophysiology of AKI and the Rational for Blood Purification Hernando Gomez, Critical Care Medicine, Center for Critical Care Nephrology and The CRISMA Center, University of Pittsburgh, Pittsburgh, PA, USA</td>
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<td>11:10-11:30</td>
<td>3. Endotoxin Adsorption Therapy for Septic Shock Kent Doi, Department of Emergency and Critical Care Medicine, The University of Tokyo, Tokyo, Japan</td>
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<td>11:30-11:50</td>
<td>4. Immunomodulating Blood Purification System in Sepsis and Septic Shock Yoshitaka Hara, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan</td>
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<td>11:50-12:10</td>
<td>5. Continuous Hemodiafiltration with a Cytokine-Adsorbing Hemofilter in Patients with Septic Shock Hidetoshi Shiga, Emergency and Intensive Care Center, Teikyo University Chiba Medical Center, Chiba, Japan</td>
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<td>12:10-12:30</td>
<td>6. Membrane Adsorption As a Key Modality in Blood Purification for Sepsis in the Future Patrick M. Honore, ICU Department, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel, Brussels, Belgium</td>
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<td>11:00-12:30</td>
<td>Oral Session 3 (parallel session) O3-1–O3-6</td>
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<td>Room 2</td>
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<td>Cynthia / North</td>
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<td>9:00-10:45</td>
<td>Oral Session 4 (parallel session)</td>
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<td>9:00-10:45</td>
<td>Oral Session 5 (parallel session)</td>
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<td>9:00-10:24</td>
<td>Poster Sessions (parallel session)</td>
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<td>1. Sepsis 1 (P1-1~P1-12)</td>
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<td>2. Sepsis 2 (P2-1~P2-12)</td>
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<td>3. Shock 1 (P3-1~P3-12)</td>
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<td>4. Shock 2 (P4-1~P4-12)</td>
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<td>5. Inflammation (P5-1~P5-12)</td>
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<td>6. Organ Failure (P6-1~P6-12)</td>
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<td>10:55-11:55</td>
<td>Plenary Lecture 2</td>
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<td>Chair - Timothy G. Buchman, Critical Care Center, Emory University School of Medicine, Atlanta, GA, USA</td>
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<td>Molecular Foundations of Bioelectronic Medicine</td>
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<td>Kevin J. Tracey, The Feinstein Institute for Medical Research, Manhasset, NY, USA</td>
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<td>12:05-13:05</td>
<td>Lunch Seminar 2 Sponsored by Toray Industries, Inc. / Toray Medical Co., Ltd.</td>
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<td>Chair - Osamu Nishida, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan</td>
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<td>Role of Endotoxin in Septic AKI</td>
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<td>Kent Doi, Department of Emergency and Critical Care Medicine, The University of Tokyo, Tokyo, Japan</td>
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<td>12:05-13:05</td>
<td>Lunch Seminar 3</td>
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<td>Chair - Manabu Kinoshita, Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan</td>
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<td>Universal Platelet Products using iPS Cell Technology</td>
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<td>Koji Eto, Department of Clinical Application Research, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto; Department of Innovation Stem Cell Therapy, Chiba University Graduate School of Medicine, Chiba, Japan</td>
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Program  - as of 08/05/16 - subject to change

Wednesday, October 5, 2016  -  continued

| 13:15-15:15 | Symposium 9 (parallel session)  
| Room 1 | Immunopathology of Traumatic Brain Injury |

Aurora  

Chairs -  
Irshad H. Chaudry, Department of Surgery, University of Alabama at Birmingham, Birmingham, AL, USA  
Daniel Remick, Department of Pathology and Laboratory Medicine, Boston University School of Medicine, Boston, MA, USA  

**Basic Science Symposium on Traumatic Brain Injury**

| Patricia E. Molina, Department of Physiology and Alcohol & Drug Abuse Center of Excellence, Louisiana State University Health Sciences Center, New Orleans, LA, USA |

| Shigeaki Inoue, Tokai University School of Medicine, Kanagawa, Japan |

| Steven J. Schwulst, Department of Surgery, Northwestern University, Chicago, IL, USA |

| 14:15-14:35 | 4. Estrogens for the Treatment of Traumatic Brain Injury  
| Irshad H. Chaudry, Department of Surgery, University of Alabama at Birmingham, Birmingham, AL, USA |

**Clinical/Translational Science Symposium on Traumatic Brain Injury**

| 14:35-14:55 | 5. Development of a Stretch-induced Neurotrauma Model for Medium-throughput Screening *in vitro*: Identification of Rifampicin As a Neuroprotectant  
| Csaba Szabo, Department of Anesthesiology, University of Texas Medical Branch, Galveston, TX, USA |

| Daniel Remick, Department of Pathology and Laboratory Medicine, Boston University School of Medicine, Boston, MA, USA |
### Symposium 11 (parallel session)

**Background Mechanisms of Major Surgery-induced Septic Complications**

**Chairs**
Yuko Kitagawa, Department of Surgery, Keio University School of Medicine, Tokyo, Japan
Masao Miyashita, Department of Surgery, Nippon Medical School Chiba Hokusoh Hospital, Chiba, Japan

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<th>Time</th>
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<th>Speaker(s)</th>
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<tr>
<td>13:15-13:30</td>
<td>Surgery Induced Septic Complications in Myanmar: A Single Center Experience</td>
<td>Kyaw Htet, Department of GI and HBP Surgery, No. 2 Defence Services General Hospital, Nay Pyi Taw, Myanmar</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td>Selective Management of Unexpected Complications by Delayed Surgical Management of Oesophageal Perforation and Therapeutic Endoscopy</td>
<td>Sirikan Limpakan (Yamada), Division Chief of Gastrointestinal Surgery and Endoscopy, Department of Surgery, Chiang Mai University, Chiang Mai, Thailand</td>
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<tr>
<td>13:45-14:00</td>
<td>Chemokine-chemokine Receptor Network and Esophagectomy for Esophageal Squamous Cell Carcinoma</td>
<td>Hiroya Takeuchi, Department of Surgery, Keio University School of Medicine, Tokyo, Japan</td>
</tr>
<tr>
<td>14:00-14:15</td>
<td>Immunological Evaluation of the Postoperative Complications after Esophagectomy</td>
<td>Hironori Tsujimoto, Department of Surgery, National Defense Medical College, Saitama, Japan</td>
</tr>
<tr>
<td>14:15-14:30</td>
<td>The Predictive Role of Lipid Mediators for Postoperative Complications after Gastrointestinal Surgery</td>
<td>Akihisa Matsuda, Department of Surgery, Nippon Medical School Chiba Hokusoh Hospital, Chiba, Japan</td>
</tr>
<tr>
<td>14:30-14:45</td>
<td>Background of Major Hepato-biliary-pancreatic Surgery-induced Sepsis</td>
<td>Yu Katayose, Department of Surgery, Tohoku Rosai Hospital, Miyagi, Japan</td>
</tr>
<tr>
<td>14:45-15:00</td>
<td>Early Detection and Treatment for Postoperative Liver Failure Based on the Mechanistical Insights</td>
<td>Itaru Endo, Department of Gastroenterological Surgery, Yokohama City University School of Medicine, Kanagawa, Japan</td>
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<tr>
<td>15:00-15:15</td>
<td>Relationship Between Surgical Stress Induced Hyperglycemia and Septic Complications: What Is Optimal Perioperative Glycemic Control?</td>
<td>Kazuhiro Hanazaki, Department of Surgery, Kochi Medical School, Kochi, Japan</td>
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**Symposium 10 (parallel session)**  
**Critical Illness and the Gut**

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<tr>
<th>Time</th>
<th>Presentation</th>
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</table>
| 15:30-15:54   | 1. Gut Epithelial Integrity in Sepsis  
Craig Coopersmith, Emory University, Atlanta, GA, USA                                           |
| 15:54-16:18   | 2. Nutrition Management of Critically Ill Patients: Evidences and Practice  
Joji Kotani, Department of Emergency, Disaster and Critical Care Medicine, Hyogo College of Medicine, Hyogo, Japan |
| 16:18-16:42   | 3. Dynamic Changes of Gut Microbiota in Critically Ill Patients  
Kentaro Shimizu, Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, Osaka, Japan |
| 16:42-17:06   | 4. Application of Therapeutic Medical Gas for Bowel Dysfunction  
Atsunori Nakao, Department of Emergency and Critical Care Medicine, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan |
| 17:06-17:30   | 5. Toll-like Receptor Stimulation Reverses Antibiotic-induced Gut Defense Impairment  
Lee-Wei Chen, Department of Surgery, Kaohsiung Veterans General Hospital, Kaohsiung; Institute of Emergency and Critical Care Medicine, National Yang-Ming University, Taipei, Taiwan |
Program - as of 08/05/16 - subject to change

Wednesday, October 5, 2016 - continued

15:30-17:30  Symposium 12 (parallel session)
Room 2
Cynthia / North

Microcirculation and Endothelial Damage in Sepsis and Shock

Chairs -
E. Christiaan Boerma, Department of Intensive Care, Medical Center Leeuwarden, Leeuwarden; Department of Translational Physiology, Academic Medical Center Amsterdam, Amsterdam, The Netherlands
Toshishige Shibamoto, Department of Physiology II, Kanazawa Medical University, Ishikawa, Japan

15:30-15:50  1. The potential of Near-infrared Spectroscopy As an Oxygenation Index of Pivotal Organs and Tissue Oxygenation in Critically Ill Patients
Yasuyuki Kakihana, Department of Emergency and Intensive Care Medicine, Kagoshima University, Kagoshima, Japan

15:50-16:10  2. Capillary Recruitment During Fluid Resuscitation Is Limited in Sepsis
E. Christiaan Boerma, Department of Intensive Care, Medical Center Leeuwarden, Leeuwarden; Department of Translational Physiology, Academic Medical Center Amsterdam, Amsterdam, The Netherlands

16:10-16:30  3. The Role of Arginine Vasopressin Receptors in Microvascular Hyper-permeability During Septic Shock
Perenlei Enkhbaatar, Department of Anesthesiology, University of Texas Medical Branch, Galveston, TX, USA

16:30-16:50  4. Integrin-mediated Cross Talk Between Coagulation and Inflammation
Motomu Shimaoka, Mie University Graduate School of Medicine, Mie, Japan

16:50-17:10  5. S1P2, A Receptor for the Lysophospholipid Mediator Sphingosine 1-phosphate, Protects Against Vascular Barrier Disruption
Yasuo Okamoto, Department of Physiology, Kanazawa University Graduate School of Medical Sciences, Ishikawa; Department of Pharmacology, Kawasaki Medical University, Okayama, Japan

17:10-17:30  6. Glycocalyx, 'Missing' Link Between Endothelium and Microcirculation
Christa Boer, Department of Anesthesiology, VU University Medical Center, Amsterdam, The Netherlands