

# International Shock Congress 2016 Tokyo

The 8th Congress of the International Federation of Shock Societies

October 3 (Mon) ▶ October 5 (Wed), 2016 Tokyo Dome Hotel, Tokyo, Japan

President : Hiroyuki Hirasawa, M.D., Ph.D. Professor Emeritus, Department of Emergency and Critical Care Medicine, Chiba University Graduate School of Medicine

In conjunction with The 31st Annual Meeting of Japan Shock Society

October 6 (Thu), 2016 President : Shigeto Oda, M.D., Ph.D. Professor, Department of Emergency and Critical Care Medicine, Chiba University Graduate School of Medicine

**Program** - as of 08/24/16 - subject to change

## Monday, October 3, 2016

9:00-9:20

Room 1

Aurora

### Opening Ceremony

9:20-10:00

Room 1

Aurora

### 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

Room 1

Aurora

### 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 Cavallion, 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

Room 1

Aurora

### 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

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#### Monday, October 3, 2016 - continued

13:00-15:00  
Room 1  
Aurora

#### **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

13:00-13:20

1. **Circulating Histones and Coagulation Disorder**  
Toshiaki Iba, Department of Emergency and Disaster Medicine, Juntendo University, Tokyo, Japan

13:20-13:40

2. **Molecular Management in Polytrauma**  
Markus Huber-Lang, Department of Traumatology, University of Ulm, Ulm, Germany

13:40-14:00

3. **The Role of Fibrinogen in Acute Trauma-induced Coagulopathy: Novel Insights and Therapeutic Options**  
Heinz Redl, AUVA Trauma Centre Salzburg, Salzburg; Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

14:00-14:20

4. **The Updated Guideline for the Clinical Management of Acute Trauma Hemorrhage and Coagulopathy: The European Perspective**  
Marc Maegele, Department of Traumatology, Orthopedic Surgery and Sports Traumatology, Cologne-Merheim Medical Center (CMMC)/ University Witten-Herdecke (Germany), Cologne, Germany

14:20-14:40

5. **Coagulation Abnormality During Sepsis and Acute Pancreatitis in Aged Animals**  
Hiroshi Saito, Department of Surgery, University of Kentucky, Lexington, KY, USA

14:40-15:00

6. **Experimentally Approaching the Trauma-induced Coagulopathy**  
Wenjun Martini, Hemostasis – Damage Control Resuscitation, US Army Institute of Surgical Research, Fort Sam Houston, TX, USA

13:00-14:40  
Room 2  
Cynthia /  
North

#### **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

13:00-13:20

1. **Current Situation of Diagnosis and Treatment of Sepsis in Japan**  
Hiroyasu Ishikura, Department of Emergency and Critical Care Medicine, Faculty of Medicine, Fukuoka University, Fukuoka, Japan

13:20-13:40

2. **The Impact of Sepsis in USA**  
Philip A. Efron, University of Florida, Gainesville, FL, USA

13:40-14:00

3. **Sepsis in Developing Countries**  
Reinaldo Salomao, Infectious Diseases / Hospital São Paulo, Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brazil

14:00-14:20

4. **Direct Hemoperfusion with Polymyxin-B Immobilized Fiber (PMX-DHP) for Septic Shock Patients in Japan**  
Toshiaki Ikeda, Division of Critical Care Medicine, Tokyo Medical University, Hachioji Medical Center, Tokyo, Japan

14:20-14:40

5. **A Novel Therapeutic Target for Sepsis**  
Ping Wang, Center for Immunology & Inflammation, The Feinstein Institute for Medical Research, Manhasset, NY, USA

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#### Monday, October 3, 2016 - continued

14:40-15:40  
Room 2  
Cynthia /  
North

#### Symposium 5 (parallel session) Role of Alarmins in Shock and Sepsis

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

14:40-15:00

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

2. **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

3. **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  
Room 1  
Aurora

#### Symposium 3 (parallel session) Persistent Inflammation, Immunosuppression and Catabolism Syndrome (PICS)

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

15:00-15:20

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

2. **Concomitant Inflammation and Immunosuppression**

Jean-Marc Cavaillon, Cytokines & Inflammation Unit, Institut Pasteur, Paris, France

15:40-16:00

3. **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

4. **Influence of Age on PICS**

Philip A. Efron, University of Florida, Gainesville, FL, USA

16:20-16:40

5. **Long Term Cognitive and Functional Declines Following Sepsis**

Djillali Annane, Raymond Poincaré Hospital (APHP), University of Versailles, Garches, France

16:40-17:00

6. **Inflammation Associated Epigenetics and Metabolism: Novel Treatment Targets**

Charles E. McCall, Department of Molecular Medicine, Wake Forest University Medical Center, Winston Salem, NC, USA

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### Monday, October 3, 2016 - continued

15:40-17:20  
Room 2  
Cynthia /  
North

#### Symposium 6 (parallel session)

#### 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

15:40-16:00

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

16:00-16:20

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

16:20-16:40

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

16:40-17:00

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

17:00-17:20

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

Chair - Masataka Majima, Department of Pharmacology, Kitasato University School of Medicine, Kanagawa, Japan

#### 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

Chair - Hiroyuki Uchino, Department of Anesthesiology, Tokyo Medical University, Tokyo, Japan

#### The Potential Usefulness of Regional Cerebral Oxygen Saturation (rSO<sub>2</sub>) 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

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### 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-Cardiac 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**

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## Tuesday, October 4, 2016 - continued

<b>10:30-12:30</b> Room 1 Aurora	<b>Symposium 8 Sponsored by Baxter Limited (parallel session)</b> <b>Blood Purification and ECMO for Sepsis and Septic Shock</b>  Chairs - Patrick M. Honore, ICU Department, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel, Brussels, Belgium Osamu Nishida, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan
10:30-10:50	1. <b>ECMO in Septic Shock: When to Use It and Not to Use It?</b> Tao-Min Huang, Department of Internal Medicine, National Taiwan University Hospital and College of Medicine, Taichung, Taiwan
10:50-11:10	2. <b>The Pathophysiology of AKI and the Rational for Blood Purification</b> Hernando Gomez, Critical Care Medicine, Center for Critical Care Nephrology and The CRISMA Center, University of Pittsburgh, Pittsburgh, PA, USA
11:10-11:30	3. <b>Endotoxin Adsorption Therapy for Septic Shock</b> Kent Doi, Department of Emergency and Critical Care Medicine, The University of Tokyo, Tokyo, Japan
11:30-11:50	4. <b>Immunomodulating Blood Purification System in Sepsis and Septic Shock</b> Yoshitaka Hara, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan
11:50-12:10	5. <b>Continuous Hemodiafiltration with a Cytokine-Adsorbing Hemofilter in Patients with Septic Shock</b> Hidetoshi Shiga, Emergency and Intensive Care Center, Teikyo University Chiba Medical Center, Chiba, Japan
12:10-12:30	6. <b>Membrane Adsorption As a Key Modality in Blood Purification for Sepsis in the Future</b> Patrick M. Honore, ICU Department, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel, Brussels, Belgium
<b>11:00-12:30</b> Room 2 Cynthia / North	<b>Oral Session 3 (parallel session)</b> <b>03-1~03-6</b>

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### Wednesday, October 5, 2016

9:00-10:45  
Room 1  
Aurora  
**Oral Session 4 (parallel session)**  
O4-1~O4-7

9:00-10:45  
Room 2  
Cynthia /  
North  
**Oral Session 5 (parallel session)**  
O5-1~O5-7

9:00-10:24  
Room 3  
Cynthia /  
South  
**Poster Sessions (parallel session)**  
1. Sepsis 1 (P1-1~P1-12)  
2. Sepsis 2 (P2-1~P2-12)  
3. Shock 1 (P3-1~P3-12)  
4. Shock 2 (P4-1~P4-12)  
5. Inflammation (P5-1~P5-12)  
6. Organ Failure (P6-1~P6-12)

10:55-11:55  
Room 1  
Aurora  
**Plenary Lecture 2**  
Chair - Timothy G. Buchman, Critical Care Center, Emory University School of Medicine, Atlanta, GA, USA

**Molecular Foundations of Bioelectronic Medicine**  
Kevin J. Tracey, The Feinstein Institute for Medical Research, Manhasset, NY, USA

12:05-13:05  
Room 1  
Aurora  
**Lunch Seminar 2 Sponsored by Toray Industries, Inc. / Toray Medical Co., Ltd.**  
Chair - Osamu Nishida, Department of Anesthesiology and Critical Care Medicine, Fujita Health University School of Medicine, Aichi, Japan

**Role of Endotoxin in Septic AKI**  
Kent Doi, Department of Emergency and Critical Care Medicine, The University of Tokyo, Tokyo, Japan

12:05-13:05  
Room 2  
Cynthia /  
North  
**Lunch Seminar 3**  
Chair - Manabu Kinoshita, Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan

**Universal Platelet Products using iPS Cell Technology**  
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

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## Wednesday, October 5, 2016 - continued

13:15-15:15  
Room 1  
Aurora

### **Symposium 9 (parallel session)** **Immunopathology of Traumatic Brain Injury**

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*

- 13:15-13:35 1. **Alcohol-Neuroimmune Interactions in 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
- 13:35-13:55 2. **Traumatic Brain Injury Induces Apoptosis and Exhaustion of T Cells with Increased Mortality after Sepsis**  
[Shigeaki Inoue](#), Tokai University School of Medicine, Kanagawa, Japan
- 13:55-14:15 3. **The Role of Innate Immunity in the Traumatic Brain Injury-induced Immune Suppression Syndrome**  
[Steven J. Schwulst](#), Department of Surgery, Northwestern University, Chicago, IL, USA

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

- 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
- 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
- 14:55-15:15 6. **Mild Traumatic Brain Injury but Not Tail Trauma Augments Pulmonary Clearance of Bacteria via Release of Substance P**  
[Daniel Remick](#), Department of Pathology and Laboratory Medicine, Boston University School of Medicine, Boston, MA, USA



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### Wednesday, October 5, 2016 - continued

13:15-15:15  
Room 2  
Cynthia /  
North

#### **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

13:15-13:30

1. **Surgery Induced Septic Complications in Myanmar: A Single Center Experience**

[Kyaw Htet](#), Department of GI and HBP Surgery, No. 2 Defence Services General Hospital, Nay Pyi Taw, Myanmar

13:30-13:45

2. **Selective Management of Unexpected Complications by Delayed Surgical Management of Oesophageal Perforation and Therapeutic Endoscopy**

[Sirikan Limpakan \(Yamada\)](#), Division Chief of Gastrointestinal Surgery and Endoscopy, Department of Surgery, Chiang Mai University, Chiang Mai, Thailand

13:45-14:00

3. **Chemokine-chemokine Receptor Network and Esophagectomy for Esophageal Squamous Cell Carcinoma**

[Hiroya Takeuchi](#), Department of Surgery, Keio University School of Medicine, Tokyo, Japan

14:00-14:15

4. **Immunological Evaluation of the Postoperative Complications after Esophagectomy**

[Hironori Tsujimoto](#), Department of Surgery, National Defense Medical College, Saitama, Japan

14:15-14:30

5. **The Predictive Role of Lipid Mediators for Postoperative Complications after Gastrointestinal Surgery**

[Akihisa Matsuda](#), Department of Surgery, Nippon Medical School Chiba Hokusoh Hospital, Chiba, Japan

14:30-14:45

6. **Background of Major Hepato-biliary-pancreatic Surgery-induced Sepsis**

[Yu Katayose](#), Department of Surgery, Tohoku Rosai Hospital, Miyagi, Japan

14:45-15:00

7. **Early Detection and Treatment for Postoperative Liver Failure Based on the Mechanistical Insights**

[Itaru Endo](#), Department of Gastroenterological Surgery, Yokohama City University School of Medicine, Kanagawa, Japan

15:00-15:15

8. **Relationship Between Surgical Stress Induced Hyperglycemia and Septic Complications: What Is Optimal Perioperative Glycemic Control?**

[Kazuhiro Hanazaki](#), Department of Surgery, Kochi Medical School, Kochi, Japan

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### Wednesday, October 5, 2016 - continued

15:30-17:30  
Room 1  
Aurora

#### **Symposium 10 (parallel session)** **Critical Illness and the Gut**

Chairs -

Craig Coopersmith, Emory University, Atlanta, GA, USA

Joji Kotani, Department of Emergency, Disaster and Critical Care Medicine, Hyogo College of Medicine, Hyogo, Japan

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

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15:30-17:30  
Room 2  
Cynthia /  
North

### **Symposium 12 (parallel session)**

#### **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

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| 15:30-15:50 | 1. <b>The potential of Near-infrared Spectroscopy As an Oxygenation Index of Pivotal Organs and Tissue Oxygenation in Critically Ill Patients</b><br>Yasuyuki Kakihana, Department of Emergency and Intensive Care Medicine, Kagoshima University, Kagoshima, Japan  |
| 15:50-16:10 | 2. <b>Capillary Recruitment During Fluid Resuscitation Is Limited in Sepsis</b><br>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. <b>The Role of Arginine Vasopressin Receptors in Microvascular Hyper-permeability During Septic Shock</b><br>Perenlei Enkhbaatar, Department of Anesthesiology, University of Texas Medical Branch, Galveston, TX, USA  |
| 16:30-16:50 | 4. <b>Integrin-mediated Cross Talk Between Coagulation and Inflammation</b><br>Motomu Shimaoka, Mie University Graduate School of Medicine, Mie, Japan   |
| 16:50-17:10 | 5. <b>S1P<sub>2</sub>, A Receptor for the Lysophospholipid Mediator Sphingosine 1-phosphate, Protects Against Vascular Barrier Disruption</b><br>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. <b>Glycocalyx, 'Missing' Link Between Endothelium and Microcirculation</b><br>Christa Boer, Department of Anesthesiology, VU University Medical Center, Amsterdam, The Netherlands  |