Commentary

What’s New in Shock, May 2011?

Invited Reviews

Genetic Predisposition for Development of Complications in Multiple Trauma Patients
Frank Hildebrand, Philipp Mommsen, Michael Frink, Martijn van Griensven, and Christian Krettek

Measure for Measure—Determination of Infarct Size in Murine Models of Myocardial Ischemia and Reperfusion: A Systematic Review
Jan Mersmann, Kathrina Latsch, Katharina Habeck, and Kai Zacharowski

Clinical Aspects

Thenar Oxygen Saturation and Invasive Oxygen Delivery Measurements in Critically Ill Patients in Early Septic Shock
Jaume Mesquida, Guillem Gruartmoner, Maria Luisa Martinez, Jordi Masip, Caroline Sabattier, Cristina Espinal, Antonio Artigas, and Francisco Baigorri

Circulating Levels of Peroxiredoxin 4 as a Novel Biomarker of Oxidative Stress in Patients with Sepsis
Janin Schulte, Joachim Struck, Josef Köhrle, and Beat Müller

Midkine, a Multifunctional Cytokine, in Patients with Severe Sepsis and Septic Shock: A Pilot Study
Daniel Pens Gelain, Matheus Augusto de Bittencourt Pasquali, Clarissa Comim, Marcelo Sartori Granwold, Cristiane Ritter, Cristiane Damiani Tomasi, Sarah Cascaes Alves, Joao Quevedo, Felipe Dal-Pizzol, and José Claudio Fonseca Moreira

Basic Science Aspects

The Heat Shock Paradox and Cardiac Myocytes: Role of Heat Shock Factor
Samuel Kobha, Se-Chan Kim, Le Chen, EunJung Kim, Alice L. Tran, Pascal Kneefermann, and Anne A. Knowlton

BK Large Conductance Ca²⁺-Activated K⁺ Channel–Deficient Mice are Not Resistant to Hypotension and Display Reduced Survival Benefit Following Polymicrobial Sepsis

A Monoclonal Antibody Against RAGE Alters Gene Expression and is Protective in Experimental Models of Sepsis and Pneumococcal Pneumonia
Eirini Christaki, Steven M. Opal, James C. Keith Jr, Nahar Kessimmian, John E. Palardy, Nicolas A. Parejo, Xiang Yang Tan, Nicole Piche-Nicholas, Lioudmila Tchistiakova, George P. Vlasuk, Kathleen M. Shields, Jeffrey L. Feldman, Edward R. LaVallie, Maya Aral, William Mounts, and Debra D. Pittman

The Dual Functions of Receptor Interacting Protein 1 in Fas-Induced Hepatocyte Death During Sepsis
Sam J. McNeal, Mark P. LeGolvan, Chun-Shiang Chung, and Alfred Ayala
Suppression of Autophagy in Rat Liver at Late Stage of Polymicrobial Sepsis

Wei-Shan Chien, Yen-Hsu Chen, Pei-Chi Chiang, Hsiu-Wen Hsiao, Shu-Mien Chuang, Sheng-I Lue, and Chin Hsu

IL-6 and TGF-α Costimulate Mesenchymal Stem Cell Vascular Endothelial Growth Factor Production by ERK-, JNK-, and PI3K-Mediated Mechanisms

Jeremy L. Herrmann, Brent R. Weil, Aaron M. Abarbanell, Yue Wang, Jeffrey A. Poynter, Mariuxi C. Manukyan, and Daniel R. Meldrum

Role of Estrogen Receptor-Dependent Upregulation of p38 MAPK/Heme Oxygenase 1 in Resveratrol-Mediated Attenuation of Intestinal Injury After Trauma-Hemorrhage

Huang-Ping Yu, Tsong-Long Hwang, Pei-Wen Hsieh, and Ying-Tung Lau

C-Peptide Ameliorates Kidney Injury Following Hemorrhagic Shock

Ranjit S. Chima, Giuseppe Maltese, Timothy LaMontagne, Giovanna Piraino, Alvin Denenberg, Michael O’Connor, and Basilia Zingarelli

C-Peptide Ameliorates Kidney Injury Following Hemorrhagic Shock

Xian-Fei Ji, Lin Yang, Ming-Yue Zhang, Chun-Sheng Li, Shuo Wang, and Lu-Hong Cong

C-Peptide Ameliorates Kidney Injury Following Hemorrhagic Shock

Shen-Fu Injection Attenuates Postresuscitation Myocardial Dysfunction in a Porcine Model of Cardiac Arrest

Ranjit S. Chima, Giuseppe Maltese, Timberly LaMontagne, Giovanna Piraino, Alvin Denenberg, Michael O’Connor, and Basilia Zingarelli

Letters to the Editor

Effects of Physostigmine on Microcirculatory Alterations During Experimental Endotoxemia

To the Editor: Ronan M.G. Berg, Hermona Soreq, and Kirsten Møller

Reply: Christoph Peter, Karsten Schmidt, Stefan Hofer, Markus A. Weigand, Eike Martin, and Andreas Walther

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COVER: Porcine cardiac perfusion (Tc MIBI SPECT) at rest (baseline) and 6 h after spontaneous circulation. (A): Myocardial perfusion imaging before cardiac arrest; (B): Myocardial perfusion imaging of the saline group after resuscitation; (C): Myocardial perfusion imaging of Shen-Fu injection group at 6 h after resuscitation. The bright areas indicate blood flow. See Ji et al., pages 530–536, 2011.