Commentary
What’s New in Shock, March 2009?

Review Article
The Role of Estrogen and Receptor Agonists in Maintaining Organ Function After Trauma-Hemorrhage

Huang-Ping Yu and Irshad H. Chaudry

Clinical Aspects
Differential Expression of Toll-Like Receptor Genes: Sepsis Compared with Sterile Inflammation 1 Day Before Sepsis Diagnosis

Matthew E. Lissauer, Steven B. Johnson, Grant V. Bochicchio, Carinda J. Feild, Alan S. Cross, Jeffrey D. Hasday, Craig C. Whiteford, William A. Nussbaumer, Michael Towns, and Thomas M. Scalea

Basic Science Aspects
Role of T Cells for Cytokine Production and Outcome in a Model of Acute Septic Peritonitis

Daniel Reim, Kay Westenfelder, Simone Kaiser-Moore, Sylvia Schlautköttner, Bernhard Holzmann, and Heike Weighardt

Heme Oxygenase-1 Induction in Macrophages by a Hemoglobin-Based Oxygen Carrier Reduces Endotoxin-Stimulated Cytokine Secretion

Jonathan P. Roach, Ernest E. Moore, David A. Partrick, Sagar S. Damle, Christopher C. Silliman, Robert C. McIntyre Jr, and Anirban Banerjee

Drag-Reducing Hyaluronic Acid Increases Survival in Profoundly Hemorrhaged Rats

Antonella Cotoia, Marina V. Kameneva, Philip J. Marascalco, Mitchell P. Fink, and Russell L. Deude

Recombinant Human Soluble Tumor Necrosis Factor-Y Alpha Receptor Fusion Protein Partly Attenuates Ventilator-Induced Lung Injury


Anti-Apoptotic and Anti-Inflammatory Effects of Hydrogen Sulfide in a Rat Model of Regional Myocardial I/R

Ahila Sivarajah, Massimo Collino, Mohammad Yasin, Elisa Benetti, Margherita Gallicchio, Emanuela Mazzon, Salvatore Cuzzocrea, Roberto Fantozzi, and Christoph Thiemermann

Sepsis-Induced Intestinal Microvascular and Inflammatory Responses in Obese Mice

Georg Singer, Karen Y. Stokes, Satoshi Terao, and D. Neil Granger

Role of Toll-Like Receptors 2 and 4, and the Receptor for Advanced Glycation End Products in High-Mobility Group Box 1–Induced Inflammation In Vivo

Marieke A.D. van Zoelen, Huan Yang, Sandrine Florquin, Joost C.M. Meijers, Shizuo Akira, Bernd Arnold, Peter P. Nawroth, Angelika Bierhaus, Kevin J. Tracey, and Tom van der Poll

Synthetic Oligopeptides Related to the β-Subunit of Human Chorionic Gonadotropin Attenuate Inflammation and Liver Damage After (Trauma) Hemorrhagic Shock and Resuscitation

H. Rogier van den Berg, Nisar A. Khan, Marten van der Zee, Fred Bonhuis, Jan N. M. Lzermans, Willem A. Dik, Ron W. F. de Bruin, and Robbert Benner
Intestinal Hemodynamic Effects of Milrinone in Asphyxiated Newborn Pigs After Reoxygenation with 100% Oxygen: A Dose-Response Study

Polymerized Bovine Hemoglobin Can Improve Small-Volume Resuscitation from Hemorrhagic Shock in Hamsters

Peroxisome Proliferator-Activated Receptor-α Modulates the Anti-Inflammatory Effect of Glucocorticoids in a Model of Inflammatory Bowel Disease in Mice

The Effect of Hypoxia, Reoxygenation, Ischemia, and Reperfusion on Hydraulic Permeability in Rat Mesenteric Venules

The Effect of High-Mobility Group Box 1 Protein on Activity of Regulatory T Cells After Thermal Injury in Rats

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COVER: A, Estrogen-mediated genomic action. When an estrogen molecule binds to an estrogen receptor, the hormone-receptor complex then moves to the nucleus, where it binds to DNA and initiates transcription. B, Estrogen-mediated nongenomic action, membrane-initiated steroid signaling. In the case of the nongenomic, that is, MISS estrogen signaling pathway, estrogen receptors are located in the cell membrane. Their activity is linked to the PI3K/Akt or MAPK pathway, resulting in a rapid, nonnuclear effect, and is associated with the novel growth factor GPR30. See Yu et al., pages 227–237, 2009.