Commentary
What’s New in Shock, August 2010?

Clinical Aspects
Early and Small Changes in Serum Creatinine Concentrations are Associated with Mortality in Mechanically Ventilated Patients

Basic Science Aspects
Activation of Peroxisome Proliferator–Activated Receptor-β/δ Attenuates Myocardial Ischemia/Reperfusion Injury in the Rat

Llama Heavy-Chain Antibody Fragments Efficiently Remove Toxic Shock Syndrome Toxin 1 from Plasma In Vitro But Not in Experimental Porcine Septic Shock

Glycocalyx Protection Reduces Leukocyte Adhesion After Ischemia/Reperfusion

Changes in the Mesenteric Lymph Proteome Induced by Hemorrhagic Shock

Deficiency of Bid Protein Reduces Sepsis-Induced Apoptosis and Inflammation, While Improving Septic Survival

Systemic Administration of a Centrally Acting Acetylcholinesterase Inhibitor Improves Outcome from Hemorrhagic Shock During Acute Alcohol Intoxication

Hypoxia-Induced Alteration of Mitochondrial Genes in Cardiomyocytes: Role of BNIP3 and PDK1

The P38α and P38δ MAP Kinases May Be Gene Therapy Targets in the Future Treatment of Severe Burns
Subanesthetic Dose of Isoflurane Protects Against Zymosan-Induced Generalized Inflammation and Its Associated Acute Lung Injury in Mice

Supplemental Digital Content is available in the text.

Hydrogen Sulfide Does Not Increase Resuscitability in a Porcine Model of Prolonged Cardiac Arrest

Intravenous Delivery of Bone Marrow–Derived Endothelial Progenitor Cells Improves Survival and Attenuates Lipopolysaccharide-Induced Lung Injury in Rats

Ethyl Pyruvate Prevents Inflammatory Responses and Organ Damage During Resuscitation in Porcine Hemorrhage

Supplemental Digital Content is available in the text.

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COVER: Characteristics of circulating endothelial progenitor cells (EPCs). The EPCs from rat bone marrow were isolated and cultured in DMEM containing 20% fetal bovine serum. These EPCs exhibited phenotyping of endothelial cells such as incorporating acetyl-LDL and isolectin (A). Expressions of vWF (B) and VEGFR-2 (C) were detected by immunofluorescent staining. Nuclei were counterstained in blue fluorescence. Formation of round or fusiform shape appearance was also observed after 1 week in culture (D). See Mao et al., pages 196–204, 2010.