Commentary

What’s New in Shock, May 2008?

Clinical Aspects

Tonometry Revisited: Perfusion-Related, Metabolic, and Respiratory Components of Gastric Mucosal Acidosis in Acute Cardiorespiratory Failure

Insufficient Production of Urinary Trypsin Inhibitor for Neutrophil Elastase Release After Cardiac Arrest

Nicotinamide Adenine Dinucleotide Phosphate (Reduced Form) Oxidase is Important for LPS-Induced Endothelial Cell Activation

Basic Science Aspects

Etanercept Reduces Acute Tissue Injury and Mortality Associated to Zymosan-Induced Multiple Organ Dysfunction Syndrome

Endothelial Glycocalyx Damage During Endotoxicemia Coincides with Microcirculatory Dysfunction and Vascular Oxidative Stress

Critical Role for Small and Large Conductance Calcium-Dependent Potassium Channels in Endotoxemia and TNF Toxicity

Hemin Arginate-Induced Heme Oxygenase 1 Expression Improves Liver Microcirculation and Mediates an Anti-Inflammatory Cytokine Response After Hemorrhagic Shock

CD4-Expressing Cells are Early Mediators of the Innate Immune System During Sepsis

Hypertonic Saline Modulation of Intestinal Tissue Stress and Fluid Balance

Human Amniotic Epithelial Cells Ameliorate Behavioral Dysfunction and Reduce Infarct Size in the Rat Middle Cerebral Artery Occlusion Model

Exogenous Cytochrome c Restores Myocardial Cytochrome Oxidase Activity Into the Late Phase of Sepsis

Berberine Inhibits Cytosolic Phospholipase A2 and Protects Against LPS-Induced Lung Injury and Lethality Independent of the α2-Adrenergic Receptor in Mice
### Transcriptional Profiles of Human Epithelial Cells in Response to Heat: Computational Evidence for Novel Heat Shock Proteins

Jason M. Laramie, T. Philip Chang, Buddy Brownstein, Gary D. Stormo, and J. Perren Cobb

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### The Synergistic Effect of Ethanol and Shock Insults on CaCO2 Cytokine Production and Apoptosis

Parth B. Amin, Lawrence N. Diebel, and David M. Liberati

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### Mitochondrial Complex III is Involved in Proapoptotic Bak-Induced Microvascular Endothelial Cell Hyperpermeability

Ed W. Childs, Binu Tharakan, Felicia A. Hunter, Mfon Isong, and Nichole D. Liggins

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### Novel Ovine Model of Methicillin-Resistant *Staphylococcus aureus*–Induced Pneumonia and Sepsis

Perenlei Enkhbaatar, Collette Joncam, Lillian Traber, Yoshimitsu Nakano, Jianpu Wang, Matthias Lange, Rhykka Connelly, Gabriela Kulp, Fiona Saunders, Raksana Huda, Robert Cox, Frank Schmalstieg, David Herndon, and Daniel Traber

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### Book Reviews

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<tr>
<td>David J. Dries</td>
<td><em>Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice, 18th Edition</em></td>
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<tr>
<td>Da Zhang</td>
<td><em>Heptinstall’s Pathology of the Kidney - 2 Volume Set, 6th Edition</em></td>
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<td>Zdravka Zafirova</td>
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<td><em>Handbook of Drug Monitoring Methods: Therapeutics and Drugs of Abuse</em></td>
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Current Impact Factor 3.318

**COVER:** Photomicrographs of migrated human amniotic epithelial cells (hAECs) in the ischemic rat brain. Diagrams showing the extent of migration of hAECs after transplantation in the middle cerebral artery occlusion rats on 3 consecutive weeks (A–C). Black lines indicate the implantation site. Black dots represent the location of the transplanted hAECs, and the red dots and shadows represent the ischemic area. Hochest 33258-labeled hAECs survived in the ischemic brain for 3 consecutive weeks (D–F). Lenti-enhanced green fluorescent protein (EGFP)-transduced hAECs migrated on 3 consecutive weeks; 7 days after transplantation, EGFP-positive cells around the injection tract (G & J). Some cells migrated from the injection tract 2 weeks later (H & K). Most of the cells migrated from the injection tract 3 weeks after transplantation, and the cells were morphologically changed (I & L). Scale bar = 50 μm. See Liu et al., pages 603–611, 2008.