

SHOCK®

Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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		<u>Commentary</u>
<i>Mark G. Clemens</i>	1	What's New in <i>Shock</i>, January 2009?
<hr/>		
		<u>Review Article</u>
<i>Takeshi Tsukamoto and Hans Christoph Pape</i>	3	Animal Models for Trauma Research: What Are the Options?
<hr/>		
		<u>Invited Review</u>
<i>Vanessa Nomellini, Christian R. Gomez, Richard L. Gamelli, and Elizabeth J. Kovacs</i>	11	Aging and Animal Models of Systemic Insult: Trauma, Burn, and Sepsis
<hr/>		
		<u>Clinical Aspects</u>
<i>Dik Versteeg, Erik Dol, Imo E. Hoefler, Suzanne Flier, Wolfgang F. Buhre, Dominique de Kleijn, Eric P. van Dongen, Gerard Pasterkamp, and Jean-Paul de Vries</i>	21	Toll-Like Receptor 2 and 4 Response and Expression on Monocytes Decrease Rapidly in Patients Undergoing Arterial Surgery and Are Related to Preoperative Smoking
<i>Tom Sprong, Giuseppe Peri, Chris Neeleman, Alberto Mantovani, Stefano Signorini, Jos W.M. van der Meer, and Marcel van Deuren</i>	28	Pentraxin 3 and C-Reactive Protein in Severe Meningococcal Disease
<hr/>		
		<u>Basic Science Aspects</u>
<i>Min He, Shabbir M. Moochhala, Sharmila Adhikari, and Madhav Bhatia</i>	33	Administration of Exogenous Fractalkine, a CX3C Chemokine, Is Capable of Modulating Inflammatory Response in CLP-Induced Sepsis
<i>Kana Umeda, Toru Takahashi, Kazuyoshi Inoue, Hiroko Shimizu, Shigeru Maeda, Hiroshi Morimatsu, Emiko Omori, Reiko Akagi, Hiroshi Katayama, and Kiyoshi Morita</i>	40	Prevention of Hemorrhagic Shock-Induced Intestinal Tissue Injury by Glutamine Via Heme Oxygenase-1 Induction
<i>Peter Brendt, Ulrich Frey, Michael Adamzik, Simon T. Schäfer, and Jürgen Peters</i>	50	Darbepoetin α, a Long-Acting Erythropoietin Derivate, Does Not Alter LPS Evoked Myocardial Depression and Gene Expression of Bax, Bcl-Xs, Bcl-Xl, Bcl-2, and TNF-α
<i>Yingzhe Li, E. Annette Howell, Anand S. Lagoo, Maragatha Kuchibhatla, Hongjie Pan, Harvey J. Cohen, and Sandhya A. Lagoo</i>	55	Differential Gene Expression of Interleukin-1 Receptor Associated Kinase-1 and Interleukin-1 Receptor Associated Kinase-M in Peripheral Blood Mononuclear Cells of Young and Aged Rats Following Preconditioning with Endotoxin
<i>Susan Stern, Jennifer Rice, Nora Philbin, Gerald McGwin, Françoise Arnaud, Todd Johnson, W. Shannon Flournoy, Stephen Ahlers, L. Bruce Pearce, Richard McCarron, and Daniel Freilich</i>	64	Resuscitation with the Hemoglobin-Based Oxygen Carrier, HBOC-201, in a Swine Model of Severe Uncontrolled Hemorrhage and Traumatic Brain Injury
<i>Jia Ming, Tao Li, Yuan Zhang, Jing Xu, Guangming Yang, and Liangming Liu</i>	80	Regulatory Effects of Myoendothelial Gap Junction on Vascular Reactivity After Hemorrhagic Shock in Rats

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-
- | | | |
|---|-----|---|
| <i>S. David Cho, John B. Holcomb,
Brandon H. Tieu, Michael S. Englehart,
Melanie S. Morris, Z. Ayhan Karahan,
Samantha A. Underwood, Patrick J. Muller,
M. Dale Prince, Leticia Medina, Jill Sondeen,
Christian Shults, Michael Duggan,
Malek Tabbara, Hasan B. Alam, and
Martin A. Schreiber</i> | 87 | Reproducibility of an Animal Model Simulating Complex
Combat-Related Injury in a Multiple-Institution Format |
| <i>Tanja Johannes, Egbert G. Mik, and Can Ince</i> | 97 | Nonresuscitated Endotoxemia Induces Microcirculatory Hypoxic Areas in
the Renal Cortex in the Rat |
| <i>Stephan Maier, Werner Pajk, Hanno Ulmer,
Hans Hausdorfer, Christian Torgersen,
Josef Klocker, Walter Hasibeder, and
Hans Knotzer</i> | 104 | Epoprostenol Improves Mucosal Tissue Oxygen Tension in an Acute
Endotoxemic Pig Model |

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COVER: Effect of glutamine pretreatment of neutrophil in the ileum after hemorrhagic shock (HS). Rats were administered glutamine (GLN) or lactated Ringers (LR) i.v. 9 h before the onset of HS. Tin mesoporphyrin (1 μmol/kg) was administered to rats i.v. before HS. Nine hours after the start of resuscitation, the ileum was removed and neutrophils stained by naphthol AS-D chloroacetate method. The arrowheads indicate positively stained neutrophils (hematoxylin-eosin; original magnification x 400. Sham: LR/HS = lactated Ringers/HS); GLN/HS - glutamine/HS; GLN/SnMP/HS = glutamine/specific competitive inhibitor of hemeoxygenase, SnMP)/hemorrhagic shock. See Umeda et al., pages 40–49, 2009.