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Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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		<i>Commentary</i>
<i>Mark G. Clemens</i>	215	What's New in <i>Shock</i> September 2010?
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		<i>Clinical Aspects</i>
<i>Jean-Marc Tadié, Ludovic Trinquart, Caroline Jannière-Nartey, Emmanuel Guerot, Bruno Louis, Jean-Yves Fagon, Jean-Luc Diehl, and Christophe Delclaux</i>	217	Prediction of Nosocomial Infection Acquisition in Ventilated Patients By Nasal Nitric Oxide: Proof-of-Concept Study
<i>Zhi-gang Chu, Jia-ping Zhang, Hua-pei Song, Jiong-yu Hu, Qiong Zhang, Fei Xiang, and Yue-sheng Huang</i>	222	P38 Map Kinase Mediates Burn Serum-Induced Endothelial Barrier Dysfunction: Involvement of F-Actin Rearrangement and L-Caldesmon Phosphorylation
<hr/>		
		<i>Basic Science Aspects</i>
<i>Ed W. Childs, Binu Tharakan, Felicia A. Hunter, and W. Roy Smythe</i>	229	17β-Estradiol Mediated Protection Against Vascular Leak After Hemorrhagic Shock: Role of Estrogen Receptors and Apoptotic Signaling
<i>Jiangning Tan, Brent R. Weil, Aaron M. Abarbanell, Yue Wang, Jeremy L. Herrmann, Megan L. Dake, and Daniel R. Meldrum</i>	236	Ablation of TNF-α Receptors Influences Mesenchymal Stem Cell-Mediated Cardiac Protection Against Ischemia
<i>Fuhong Su, Hongchuan Huang, Kazuki Akieda, Giovanna Occhipinti, Katia Donadello, Michael Piagnerelli, Daniel De Backer, and Jean-Louis Vincent</i>	243	Effects of a Selective iNOS Inhibitor Versus Norepinephrine in the Treatment of Septic Shock
<i>Kelly M.S. Hugunin, Christopher Fry, Katherine Shuster, and Jean A. Nemzek</i>	250	Effects of Tramadol and Buprenorphine on Select Immunologic Factors in a Cecal Ligation and Puncture Model
	SDC	Supplemental Digital Content is available in the text.
<i>Ahmed M. Al-Mousawi, Gabriela A. Kulp, Ludwik K. Branski, Robert Kraft, Gabriel A. Mecott, Felicia N. Williams, David N. Herndon, and Marc G. Jeschke</i>	261	Impact of Anesthesia, Analgesia, and Euthanasia Technique on the Inflammatory Cytokine Profile in a Rodent Model of Severe Burn Injury
<i>York A. Zausig, Diana Geilfus, Goetz Missler, Barbara Sinner, Bernhard M. Graf, and Wolfgang Zink</i>	269	Direct Cardiac Effects of Dobutamine, Dopamine, Epinephrine, and Levosimendan in Isolated Septic Rat Hearts
<i>Javier García-Septien, José A. Lorente, Miguel A. Delgado, Marta de Paula, Nicolás Nin, Amelia Moscoso, Alberto Sánchez-Ferrer, Francisco Perez-Vizcaino, and Andrés Esteban</i>	275	Levosimendan Increases Portal Blood Flow and Attenuates Intestinal Intramucosal Acidosis in Experimental Septic Shock
<i>Masahiko Bougaki, Robert J. Searles, Kotaro Kida, JiaDe Yu, Emmanuel S. Buys, and Fumito Ichinose</i>	281	NOS3 Protects Against Systemic Inflammation and Myocardial Dysfunction in Murine Polymicrobial Sepsis
<i>Jen-Feng Fang, Lih-Yuann Shih, Kuo-Ching Yuan, Kuan-Ying Fang, Tsann-Long Hwang, and Sen-Yung Hsieh</i>	291	Proteomic Analysis of Post-Hemorrhagic Shock Mesenteric Lymph

<p>Motoki Fujita, Ryosuke Tsuruta, Tadashi Kaneko, Yohei Otsuka, Satoshi Kutsuna, Tomonori Izumi, Tetsuya Aoki, Masaki Shitara, Shunji Kasaoka, Ikuro Maruyama, Makoto Yuasa, and Tsuyoshi Maekawa</p>	299	<p>Hyperoxia Suppresses Excessive Superoxide Anion Radical Generation in Blood, Oxidative Stress, Early Inflammation, and Endothelial Injury in Forebrain Ischemia/Reperfusion Rats: Laboratory Study</p>
<p>Alexandre Learth Soares, Fernando Rodrigues Coelho, Rodrigo Guabiraba, Mamdouh Kamal, B. Boris Vargafitig, Lily Li, Jian Li, Wothan Tavares-de-Lima, and Bernhard Ryffel</p>	306	<p>Tumor Necrosis Factor is Not Associated with Intestinal Ischemia/Reperfusion-Induced Lung Inflammation Supplemental Digital Content is available in the text.</p>
<p>Wen-Jun Liu, Hong-Tai Tang, Yi-Tao Jia, Bing Ma, Jin-Feng Fu, Yu Wang, Kai-Yang Lv, and Zhao-Fan Xia</p>	314	<p>Notoginsenoside R1 Attenuates Renal Ischemia-Reperfusion Injury in Rats</p>
<p>Wolfgang Stahl, Martin Matejovic, and Peter Radermacher</p>	321	<p><i>Editorial Comment</i> Inhibition of Nitric Oxide Synthase During Sepsis: Revival Because of Isoform Selectivity?</p>

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COVER: 17 β -Estradiol prevents hemorrhagic shock (HS)-induced decrease in mitochondrial transmembrane potential. Under control conditions, JC-1 fluoresced the mitochondria red (Cy3) and the cytoplasm green (FITC), indicating an intact mitochondria. Hemorrhagic shock for 60 min MAP at 40 mmHg followed by 60 min of resuscitation induces the collapse of membrane potential, allowing diffusion of the red (Cy3) fluorescence into the cytoplasm. 17 β -Estradiol pretreatment 10 min before HS prevents the decrease in membrane potential. See Childs et al., pages 229–235, 2010.