SHOCK[®]

Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

OFFICIAL JOURNAL OF THE SHOCK SOCIETY, THE EUROPEAN SHOCK SOCIETY, THE INDONESIAN SHOCK SOCIETY, THE INTERNATIONAL FEDERATION OF SHOCK SOCIETIES, AND THE OFFICIAL AND INTERNATIONAL JOURNAL OF THE JAPAN SHOCK SOCIETY

Volume 34, No. 6 December 2010 **Commentary** Peter Radermacher 545 What's New in Shock, December 2010? **Review** Article Yue Wang, Aaron M. Abarbanell, 548 Toll-Like Receptor Signaling Pathways and the Evidence Linking Jeremy L. Herrmann, Brent R. Weil, Jeffrey Poynter, Mariuxi C. Manukyan, Toll-Like Receptor Signaling to Cardiac Ischemia/Reperfusion Injury Paul R. Crisostomo, and Daniel R. Meldrum **Clinical Aspects** Katri Saukkonen, Päivi Lakkisto, 558 Heme Oxygenase 1 Polymorphisms and Plasma Concentrations in Mari A. Kaunisto, Marjut Varpula, **Critically Ill Patients** Liisa-Maria Voipio-Pulkki, Tero Varpula, Ville Pettilä, and Kari Pulkki **Basic Science Aspects** Amanda H. Klein, Scott M. Wendroth, Small-Volume D-β-Hydroxybutyrate Solution Infusion Increases 565 Lester R. Drewes, and Matthew T. Andrews Survivability of Lethal Hemorrhagic Shock in Rats Kiminori Takano. Masahiro Shinoda. 573 Protective Effect of High-Mobility Group Box 1 Blockade on Acute Liver Minoru Tanabe, Taku Miyasho, Shingo Yamada, **Failure in Rats** Shigeshi Ono, Yohei Masugi, Koichi Suda, Koichi Fukunaga, Tetsu Hayashida, Taizo Hibi, Hideaki Obara, Hiroya Takeuchi, Shigeyuki Kawachi, Kazufumi Kawasako, Minoru Okamoto, Hiroshi Yokota, Ikuro Maruyama, and Yuko Kitagawa Chieh-Yu Peng, Shiow-Lin Pan, Hui-Chen Pai, 580 The Indazole Derivative YD-3 Specifically Inhibits Thrombin-Induced An-Chi Tsai, Jih-Hwa Guh, Ya-Ling Chang, Angiogenesis In Vitro and In Vivo Sheng-Chu Kuo, Fang-Yu Lee, and Che-Ming Teng Hiromichi Takano, Toshishige Shibamoto, 586 Liver Volume, as Assessed by Four Ultrasonic Crystals Arranged to Wei Zhang, and Yasutaka Kurata Form a Tetrahedron, Decreases During Anaphylactic Shock in Anesthetized Rats Adrian Doroszko, Dorota Polewicz, 592 Neonatal Asphyxia Induces the Nitration of Cardiac Myosin Light Virgilio J.J. Cadete, Jolanta Sawicka, Chain 2 That is Associated with Cardiac Systolic Dysfunction Michelle Jones, Danuta Szczesna-Cordary, Po-Yin Cheung, and Grzegorz Sawicki Robert L. Conhaim, Martin J. Mangino, 601 Microthrombus Formation May Trigger Lung Injury After William F. Dovi, Kal E. Watson, Acute Blood Loss Thomas F. Warner, and Bruce A. Harms Konstantin Tsoyi, Irina Tsoy Nizamutdinova, 608 Carbon Monoxide from CORM-2 Reduces HMGB1 Release Through Hwa Jin Jang, Lidiya Mun, Hye Jung Kim, Regulation of IFN-β/JAK2/STAT-1/INOS/NO Signaling But Not Han Geuk Seo, Jae Heun Leem, **COX-2** in TLR-Activated Macrophages and Ki Churl Chang Heme Oxygenase-1 Suppresses the Infiltration of Neutrophils in Rat Liver Yi-Tseng Lin, Yen-Hsu Chen, Yi-Hsin Yang, 615 Hsiao-Ching Jao, Yoshimitsu Abiko, **During Sepsis Through Inactivation of p38 MAPK** Kazushige Yokoyama, and Chin Hsu

Volume 34, No. 6

Fuhong Su, Hongchuan Huang, Xinrong He, David Simuen, Jingwei Xie, Aric Orbach, Orit Cohen-Barak, Michael Piagnerelli, and Jean-Louis Vincent	622	Effects of a Novel Anticoagulant Compound (TV7130) in an Ovine Model of Septic Shock
Roland C.E. Francis, Claudia Philippi-Höhne, Adrian Klein, Philipp A. Pickerodt, Matthias S. Reyle-Hahn, and Willehad Boemke	628	Xenon/Remifentanil Anesthesia Protects Against Adverse Effects of Losartan on Hemodynamic Challenges Induced by Anesthesia and Acute Blood Loss
Ingo Schwartges, Olaf Picker, Christopher Beck, Thomas W.L. Scheeren, and Lothar A. Schwarte	636	Hypercapnic Acidosis Preserves Gastric Mucosal Microvascular Oxygen Saturation in a Canine Model of Hemorrhage
Tsung-Ta Liu, Chou-Hui Hu, Chu-Dang Tsai, Chuan-Wang Li, Yuh-Feng Lin, and Jia-Yi Wang	643	Heat Stroke Induces Autophagy as a Protection Mechanism Against Neurodegeneration in the Brain
Stephan M. Jakob	649	<u>Editorial Comment</u> Does Hypercapnic Acidosis Preserve Mucosal Oxygenation During Hemorrhage?

SHOCK[®] is abstracted and/or indexed in *Index Medicus*, MEDLINE, Current Contents[®]/Life Sciences, Science Citation Index[®], SciSearch[®], Research Alert[®], the Biochemistry & Biophysics Citation Index[™], and Reference Update Current Impact Factor 2.871

Instructions for Authors are available online at http://journals.lww.com/shockjournal/Documents/SHOCK_IFA.pdf and are printed in the June and December issues of the journal.

COVER: Fibrinogen (green) and CD16 (red) fluorescences in a non-hemorrhaged control lung (left) and in a lung 24 h after hemorrhage (right). Colocalization of those fluorescences appears as yellow. The widespread yellow fluorescence in the hemorrhage lung demonstrates both the extensive deposition of fibrinogen and CD16-positive cells and their colocalization. The negligible fluorescence in the control lung suggests minimal microthrombus formation and minimal leukocyte sequestration, and although negligible, much of this fluorescence is yellow, again demonstrating colocalization of fibrinogen and CD16. These images, and the data in Table 2, suggest that CD16-positive cells colocalize with fibrin microthrombi under both normal conditions and after hemorrhage. See Conhaim et al., pages 601–607, 2010.