Perspective
Answering the Burning Question of How Transient Receptor Potential Vanilloid-1 Channel Antagonists Cause Unwanted Hyperthermia
Samir S. Ayoub, John C. Hunter, and Daniel L. Simmons

Review Articles
The Transient Receptor Potential Vanilloid-1 Channel in Thermoregulation: A Thermosensor It Is Not
Andrej A. Romanovsky, Maria C. Almeida, Andras Garami, Alexandre A. Steiner, Mark H. Norman, Shaun F. Morrison, Kazuhiro Nakamura, Jeffrey J. Burmeister, and Tatiane B. Nucci

Inflammatory Stress and Idiosyncratic Hepatotoxicity: Hints from Animal Models
Xiaomin Deng, James P. Luyendyk, Patricia E. Ganey, and Robert A. Roth

Pituitary Adenylate Cyclase-Activating Polypeptide and Its Receptors: 20 Years after the Discovery
David Vaudry, Anthony Falluel-Morel, Steve Bourgault, Magali Basille, Delphine Burel, Olivier Wurtz, Alain Fournier, Billy K. C. Chow, Hitoshi Hashimoto, Ludovic Galas, and Hubert Vaudry

Therapeutic Targeting of Nuclear Protein Import in Pathological Cell Conditions
Mirna N. Chahine and Grant N. Pierce

Regulation of Skeletal Muscle Physiology and Metabolism by Peroxisome Proliferator-Activated Receptor δ
Ewa Ehrenborg and Anna Krook

*About the cover:* Effects of different cellular stressors on nuclear protein import (NPI), NPC density, and cell growth through MAPK activation. See the article by Chahine and Pierce on page 358 of this issue.