

Table of Contents

This issue is available in electronic form at
<http://www.jlr.org>

Commentaries

- 495 **The *FTO* (fat mass and obesity-associated) gene: big in adipocyte lipolysis?**
Carol C. Shoulders
- 497 **Genes, environment, and lifespan: new insights into Niemann-Pick C disease**
Sandra K. Erickson

Thematic Review

- 499 **Thematic Review Series: Skin Lipids. Peroxisome proliferator-activated receptors and liver X receptors in epidermal biology**
Matthias Schmuth, Yan J. Jiang, Sandrine Dubrac, Peter M. Elias, and Kenneth R. Feingold

Research Articles

- 510 **Protein targets of oxidized phospholipids in endothelial cells**
B. Gabriel Gugiu, Kevin Mouillessaux, Victoria Duong, Tabitha Herzog, Avetis Hekimian, Lukasz Koroniak, Thomas M. Vondriska, and Andrew D. Watson
- 521 **Angiotensin II increases vascular proteoglycan content preceding and contributing to atherosclerosis development**
Fei Huang, Joel C. Thompson, Patricia G. Wilson, Hnin H. Aung, John C. Rutledge, and Lisa R. Tannock
- 531 **Ceramide kinase promotes Ca²⁺ signaling near IgG-opsonized targets and enhances phagolysosomal fusion in COS-1 cells**
Vania Hinkovska-Galcheva, Andrea Clark, Susan VanWay, Ji-Biao Huang, Miki Hiraoka, Akira Abe, Michael Borofsky, Robin G. Kunkel, Thomas Shanley, James A. Shayman, Frederick Lanni, Howard R. Petty, and Laurence A. Boxer
- 543 **Effects of the cholesteryl ester transfer protein inhibitor torcetrapib on VLDL apolipoprotein E metabolism**
John S. Millar, Margaret E. Brousseau, Margaret R. Diffenderfer, P. Hugh R. Barrett, Francine K. Welty, Jeffrey S. Cohn, Aisha Wilson, Megan L. Wolfe, Chorthip Nartsupha, Peter M. Schaefer, Andres G. Digenio, James P. Mancuso, Gregory G. Dolnikowski, Ernst J. Schaefer, and Daniel J. Rader
- 550 **The *trans*-10, *cis*-12 isomer of conjugated linoleic acid decreases adiponectin assembly by PPAR γ -dependent and PPAR γ -independent mechanisms**
Jessica R. Miller, Pilaiwan Siripurkpong, Jennifer Hawes, Amin Majdalawieh, Hyo-Sung Ro, and Roger S. McLeod
- 563 **Secretory phospholipase A₂ increases SR-BI-mediated selective uptake from HDL but not biliary cholesterol secretion**
Uwe J. F. Tietge, Niels Nijstad, Rick Havinga, Julius F. W. Baller, Fjodor H. van der Sluijs, Vincent W. Bloks, Thomas Gautier, and Folkert Kuipers
- 572 **Effect of apolipoprotein A-V on plasma triglyceride, lipoprotein size, and composition in genetically engineered mice**
Lisa Nelbach, Xiao Shu, Robert J. Konrad, Robert O. Ryan, and Trudy M. Forte

COVER: Cytochrome c permeating a ceramide channel. The sphingolipid, ceramide, can self-assemble in the mitochondrial outer membrane to form channels capable of allowing proteins, such as cytochrome c (crystal structure shown in the center of the pore), to cross the membrane. Illustrated is the structure of a typical channel composed of 48 columns, each consisting of six ceramide monomers. The central aqueous pore is 10 nm in diameter. (See Stiban et al., p. 625.)

§ The online version of this article contains supplemental material.

- 581 **An apolipoprotein A-I mimetic dose-dependently increases the formation of pre β ₁ HDL in human plasma**
Jason S. Troutt, William E. Alborn, Marian K. Mosior, Jiannong Dai, Anthony T. Murphy, Thomas P. Beyer, Youyan Zhang, Guoqing Cao, and Robert J. Konrad
- 588 **A common *VLDLR* polymorphism interacts with *APOE* genotype in the prediction of carotid artery disease risk**
Dana C. Crawford, Alex S. Nord, Michael D. Badzioch, Jane Ranchalis, Laura A. McKinstry, Magdalena Ahearn, Caterina Bertucci, Cynthia Shephard, Michelle Wong, Mark J. Rieder, Gerard D. Schellenberg, Deborah A. Nickerson, Patrick J. Heagerty, Ellen M. Wijsman, and Gail P. Jarvik
- 597 **Identification and characterization by electrospray mass spectrometry of endogenous *Drosophila* sphingadienes**
Henrik Fyrst, Xinyi Zhang, Deron R. Herr, Hoe Sup Byun, Robert Bittman, Van H. Phan, Greg L. Harris, and Julie D. Saba
- 607 **The common *rs9939609* gene variant of the fat mass- and obesity-associated gene *FTO* is related to fat cell lipolysis**
Kerstin Wählén, Eva Sjölin, and Johan Hoffstedt
- 612 **Omega oxidation of 3-hydroxy fatty acids by the human *CYP4F* gene subfamily enzyme *CYP4F11***
Madhurima Dhar, Daniel W. Sepkovic, Vandana Hirani, Ronald P. Magnusson, and Jerome M. Lasker
- 625 **Ceramide synthesis in the endoplasmic reticulum can permeabilize mitochondria to proapoptotic proteins**
Johnny Stiban, Laura Caputo, and Marco Colombini
- 635 **Cellular SR-BI and ABCA1-mediated cholesterol efflux are gender-specific in healthy subjects**
Giovanna Catalano, Emilie Duchene, Zélie Julia, Wilfried Le Goff, Eric Bruckert, M. John Chapman, and Maryse Guerin
- 644 **Three-dimensional structure/function analysis of SCP-2-like2 reveals differences among SCP-2 family members**
David H. Dyer, Vilena Wesseby, Katrina T. Forest, and Que Lan
- 654 **Ceramide regulation of nuclear protein import**
Randolph S. Faustino, Paul Cheung, Melanie N. Richard, Elena Dibrov, Annette L. Kneesch, Justin F. Deniset, Mirna N. Chahine, Kaitlin Lee, David Blackwood, and Grant N. Pierce
- 663 **Genetic variations and treatments that affect the lifespan of the NPC1 mouse**
Benny Liu, Hao Li, Joyce J. Repa, Stephen D. Turley, and John M. Dietschy

Patient-Oriented and Epidemiological Research

- 670 **Effects of a 1,3-diacylglycerol oil-enriched diet on postprandial lipemia in people with insulin resistance**
Gisette Reyes, Koichi Yasunaga, Eileen Rothenstein, Wahida Karmally, Rajasekhar Ramakrishnan, Stephen Holleran, and Henry N. Ginsberg

Methods

- 679 **Conditionally immortalized white preadipocytes: a novel adipocyte model**
D. L. Morganstein, M. Christian, J. J. O. Turner, M. G. Parker, and R. White
- 686 **Quantitative evaluation of sebum lipid components with nuclear magnetic resonance**
Lora C. Robosky, Kimberly Wade, Dayna Woolson, John David Baker, Matthew L. Manning, Douglas A. Gage, and Michael D. Reily
- 693 **Calendar**
- 694 **Author Index**