

## Table of Contents

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

### Thematic Review

- 1905 *Thematic review series: Adipocyte Biology. Adipocyte stress: the endoplasmic reticulum and metabolic disease*  
*Margaret F. Gregor and Gökhan S. Hotamisligil*

### Review

- 1915 **Structural requirements for antioxidative and anti-inflammatory properties of apolipoprotein A-I mimetic peptides**  
*G. M. Anantharamaiah, Vinod K. Mishra, David W. Garber, Geeta Datta, Shaila P. Handattu, Mayakonda N. Palgunachari, Manjula Chaddha, Mohamad Navab, Srinivas T. Reddy, Jere P. Segrest, and Alan M. Fogelman*

### Research Articles

- 1924 **Neutral sphingomyelinase-induced ceramide triggers germinal vesicle breakdown and oxidant-dependent apoptosis in *Xenopus laevis* oocytes**  
*Olga Coll, Albert Morales, José C. Fernández-Checa, and Carmen Garcia-Ruiz*
- 1936 **Novel synthetic ceramide derivatives increase intracellular calcium levels and promote epidermal keratinocyte differentiation**  
*Yoo Bin Kwon, Chang Deok Kim, Jong-Kyung Youm, Hyung Sub Gwak, Byeong Deog Park, Seung Hun Lee, Saewha Jeon, Bo Joong Kim, Young-Joon Seo, Jang-Kyu Park, and Jeung-Hoon Lee*
- 1944 **Amplification of the gene for SCAP, coupled with Insig-1 deficiency, confers sterol resistance in mutant Chinese hamster ovary cells**  
*Peter C. W. Lee, Pingsheng Liu, Wei-Ping Li, and Russell A. DeBose-Boyd*
- 1955 **Insect lipoprotein biogenesis depends on an amphipathic  $\beta$  cluster in apolipoprotein II/I and is stimulated by microsomal triglyceride transfer protein**  
*Marcel M. W. Smolenaars, Antoine de Morrée, Jana Kerver, Dick J. Van der Horst, and Kees W. Rodenburg*
- 1966 **Oleic acid is a potent inhibitor of fatty acid and cholesterol synthesis in C6 glioma cells**  
*Francesco Natali, Luisa Siculella, Serafina Salvati, and Gabriele V. Gnani*
- § 1976 **Sensitive profiling of chemically diverse bioactive lipids**  
*Guanghou Shui, Anne K. Bendt, Kevin Pethe, Thomas Dick, and Markus R. Wenk*
- 1985 **Sphingosylphosphorylcholine acts in an anti-inflammatory manner in renal mesangial cells by reducing interleukin-1 $\beta$ -induced prostaglandin E<sub>2</sub> formation**  
*Cuiyan Xin, Shuyu Ren, Wolfgang Eberhardt, Josef Pfeilschifter, and Andrea Huwiler*
- § 1997 **De novo biosynthesis of the late endosome lipid, bis(monoacylglycero)phosphate**  
*Françoise Hullin-Matsuda, Kiyoshi Kawasaki, Isabelle Delton-Vandenbroucke, Yang Xu, Masahiro Nishijima, Michel Lagarde, Michael Schlame, and Toshihide Kobayashi*

**COVER:** Apolipoprotein A-I (apoA-I) forms protein:lipid complexes. ApoA-I mimetics also form complexes analogous to apoA-I and are arranged in a head-to-tail fashion around the disc edge (yellow arrows). Stick models representing phospholipids and peptide molecules are shown in the space fill models. I8A analogs are atheroprotective and anti-inflammatory. (See Anantharamaiah et al., p. 1915.)

§ The online version of this article contains supplemental material.

- 2009**      **Regulation of interleukin-2 signaling by fatty acids in human lymphocytes**  
*Renata Gorjão, Sandro Massao Hirabara, Thais Martins de Lima, Maria Fernanda Cury-Boaventura, and Rui Curi*
- 2020**      **Mechanism for FGF-1 to regulate biogenesis of apoE-HDL in astrocytes**  
*Jin-ichi Ito, Yuko Nagayasu, Kuniko Okumura-Noji, Rui Lu, Tomo Nishida, Yutaka Miura, Kiyofumi Asai, Alireza Kheirollah, Seiichi Nakaya, and Shinji Yokoyama*
- 2028**      **Mechanisms involved in vitamin E transport by primary enterocytes and in vivo absorption**  
*Kamran Anwar, Jahangir Iqbal, and M. Mahmood Hussain*
- 2039**      **Searching for genetic factors of fatty liver in SMXA-5 mice by quantitative trait loci analysis under a high-fat diet**  
*Mayumi Kumazawa, Misato Kobayashi, Fusayo Io, Takahiro Kawai, Masahiko Nishimura, Tamio Ohno, and Fumihiko Horio*
- 2047**      **N-Glycosylation regulates endothelial lipase-mediated phospholipid hydrolysis in apoE- and apoA-I-containing high density lipoproteins**  
*Danielle Skropeta, Chatri Settasatian, Monica R. McMahon, Kate Shearston, Daniela Caiazza, Kristine C. McGrath, Weijun Jin, Daniel J. Rader, Philip J. Barter, and Kerry-Anne Rye*
- 2058**      **The phosphatidylethanolamine N-methyltransferase pathway is quantitatively not essential for biliary phosphatidylcholine secretion**  
*Henkjan J. Verkade, Rick Havinga, David J. Shields, Henk Wolters, Vincent W. Bloks, Folkert Kuipers, Dennis E. Vance, and Luis B. Agellon*
- 2065**      **Cloning and characterization of the hamster and guinea pig nicotinic acid receptors**  
*April Smith Torhan, Boonlert Cheewatrakoolpong, Lia Kwee, and Scott Greenfeder*

## Patient-Oriented and Epidemiological Research

- ▣ **2072**      **Genetic analysis of fluvastatin response and dyslipidemia in renal transplant recipients**  
*Jonathan B. Singer, Hallvard Holdaas, Alan G. Jardine, Bengt Fellström, Ingrid Os, Georgina Bermann, and Joanne M. Meyer, on behalf of the Assessment of Lescol in Renal Transplantation (ALERT) Study Investigators*

## Methods

- 2079**      **Specific and rapid analysis of ubiquinones using Craven's reaction and HPLC with postcolumn derivatization**  
*Haruo Shimada, David Kodjabachian, and Masami Ishida*
- 2086**      **Development of a novel method to determine very low density lipoprotein kinetics**  
*Iqbal A. R. Al-Shayji, Jason M. R. Gill, Josephine Cooney, Samira Siddiqui, and Muriel J. Caslake*
- 2096**      **Calendar**
- 2098**      **Author Index**
- 2098**      **Errata**
- 2099**      **Instructions to Authors**