

Arteriosclerosis, Thrombosis, and Vascular Biology

Volume 37 Number 7 July 2017

Key: VB=Vascular Biology AL=Atherosclerosis/Lipoproteins TH=Thrombosis

2016 Reviewer Acknowledgment Online Only e69

Recent Highlights of ATVB

AL Cell Death in the Vessel Wall: The Good, the Bad, the Ugly

Katey J. Rayner Online Onlye75

Editorials

AL A Game of Unknowns

A. Ross Naylor 1261
See accompanying article on page 1415

TH GAS6: Pouring GASoline Into the Inflammatory Inferno of Venous Thrombosis

Christoph Reinhardt 1263
See accompanying article on page 1315

TH Charming the Snake: Venom-Derived Peptides Show Surprising Efficacy as Glycoprotein VI-Targeting Antithrombotic Agents

Andrew B. Herr 1266
See accompanying article on page 1307

Insight Into ATVB Authors

ATVB Named Lecture Review—Insight Into Author: Alan E. Mast 1269


ATVB Named Lecture Review—Insight Into Author: John H. Griffin 1270

ARTERIOSCLEROSIS, THROMBOSIS, AND VASCULAR BIOLOGY (ISSN 1079-5642 print / 1524-4636 online) is published monthly by Wolters Kluwer Health, Inc. at 14700 Citicorp Drive, Bldg 3, Hagerstown, MD 21742. Business offices are located at Two Commerce Square, 2001 Market St., Philadelphia, PA 19103. Production offices are located at 351 West Camden Street, Baltimore, MD 21201-2436. Individuals may subscribe for their personal use at the following rates for print subscriptions: \$225 for AHA/ASA Domestic and International Members (excluding General Membership level), or \$669 for domestic non-members and \$793 for international non-members. AHA membership information can be found online at professional.heart.org. Periodicals postage paid at Hagerstown, MD and additional mailing offices. POSTMASTER: Send address changes to ARTERIOSCLEROSIS, THROMBOSIS, AND VASCULAR BIOLOGY, American Heart Association, Wolters Kluwer Health, Inc., PO Box 1610, Hagerstown, MD 21740.


Basic Sciences

- AL iNOS-Derived Nitric Oxide Induces Integrin-Linked Kinase Endocytic Lysosome-Mediated Degradation in the Vascular Endothelium**
Paula Reventun, Matilde Alique, Irene Cuadrado, Susana Márquez, Rocío Toro, Carlos Zaragoza, Marta Saura 1272 
- AL Increased Hepatic Expression of Endothelial Lipase Inhibits Cholesterol Diet-Induced Hypercholesterolemia and Atherosclerosis in Transgenic Rabbits**
Chuan Wang, Kazutoshi Nishijima, Shuji Kitajima, Manabu Niimi, Haizhao Yan, Yajie Chen, Bo Ning, Fumikazu Matsuhisa, Enqi Liu, Jifeng Zhang, Y. Eugene Chen, Jianglin Fan..... 1282 
- AL DBA/2J Haplotype on Distal Chromosome 2 Reduces Mertk Expression, Restricts Efferocytosis, and Increases Susceptibility to Atherosclerosis**
Yukako Kayashima, Natalia Makhanova, Nobuyo Maeda **Online Only**e82 
- AL Activation of Adiponectin Receptor Regulates Proprotein Convertase Subtilisin/Kexin Type 9 Expression and Inhibits Lesions in ApoE-Deficient Mice**
Lei Sun, Xiaoxiao Yang, Qi Li, Peng Zeng, Ying Liu, Lipei Liu, Yuanli Chen, Miao Yu, Chuanrui Ma, Xiaoju Li, Yan Li, Rongxin Zhang, Yan Zhu, Qing Robert Miao, Jihong Han, Yajun Duan..... 1290 
- AL Apolipoprotein A-I Mimetic Peptides: Discordance Between In Vitro and In Vivo Properties—Brief Report**
Michael Ditiatkovski, Jonatan Palsson, Jaye Chin-Dusting, Alan T. Remaley, Dmitri Sviridov 1301 
- TH Trowaglerix Venom Polypeptides As a Novel Antithrombotic Agent by Targeting Immunoglobulin-Like Domains of Glycoprotein VI in Platelet**
Chien-Hsin Chang, Ching-Hu Chung, Yi-Shu Tu, Cheng-Chieh Tsai, Chun-Chieh Hsu, Hui-Chin Peng, Yufeng J. Tseng, Tur-Fu Huang 1307 
See accompanying editorial on page 1266
- TH Gas6 Promotes Inflammatory (CCR2^{hi}CX3CR1^{lo}) Monocyte Recruitment in Venous Thrombosis**
Sandrine Laurance, François-René Bertin, Talin Ebrahimian, Yusra Kassim, Ryan N. Rys, Stéphanie Lehoux, Catherine A. Lemarié, Mark D. Blostein 1315 
See accompanying editorial on page 1263
- TH Tissue Factor Prothrombotic Activity Is Regulated by Integrin- α 6 Trafficking**
Andrea S. Rothmeier, Patrizia Marchese, Florian Langer, Yuichi Kamikubo, Florence Schaffner, Joseph Cantor, Mark H. Ginsberg, Zaverio M. Ruggeri, Wolfram Ruf..... 1323 
- TH ADAMTS13 Retards Progression of Diabetic Nephropathy by Inhibiting Intrarenal Thrombosis in Mice**
Nirav Dhanesha, Prakash Doddapattar, Mehul R. Chorawala, Manasa K. Nayak, Koichi Kokame, Janice M. Staber, Steven R. Lentz, Anil K. Chauhan..... 1332 
- AL ADAMTS5 Deficiency in Calcified Aortic Valves Is Associated With Elevated Pro-Osteogenic Activity in Valvular Interstitial Cells**
Fei Li, Rui Song, Lihua Ao, T. Brett Reece, Joseph C. Cleveland Jr, Nianguo Dong, David A. Fullerton, Xianzhong Meng..... 1339 
- VB Janus Kinase 3, a Novel Regulator for Smooth Muscle Proliferation and Vascular Remodeling**
Yung-Chun Wang, Xiao-Bing Cui, Ya-Hui Chuang, Shi-You Chen 1352 
- VB Serotonin Signaling Through the 5-HT_{1B} Receptor and NADPH Oxidase 1 in Pulmonary Arterial Hypertension**
Katie Y. Hood, Kirsty M. Mair, Adam P. Harvey, Augusto C. Montezano, Rhian M. Touyz, Margaret R. MacLean **OPEN** 1361 


VB Neutrophil Extracellular Traps Drive Endothelial-to-Mesenchymal Transition

Elmar Pieterse, Nils Rother, Marjolein Garsen, Julia M. Hofstra, Simon C. Satchell, Markus Hoffmann, Markus A. Loeven, Hanneke K. Knaapen, Olivier W.H. van der Heijden, Jo H.M. Berden, Luuk B. Hilbrands, Johan van der Vlag 1371 

VB Endothelial Myocyte Enhancer Factor 2c Inhibits Migration of Smooth Muscle Cells Through Fenestrations in the Internal Elastic Lamina


Yao Wei Lu, Anthony M. Lowery, Li-Yan Sun, Harold A. Singer, Guohao Dai, Alejandro P. Adam, Peter A. Vincent, John J. Schwarz..... 1380 
See cover image

VB Oligogalacturonic Acid Inhibits Vascular Calcification by Two Mechanisms: Inhibition of Vascular Smooth Muscle Cell Osteogenic Conversion and Interaction With Collagen

Ahmed Hodroge, Eric Trécherel, Marjorie Cornu, Walaa Darwiche, Ali Mansour, Katia Ait-Mohand, Thomas Verissimo, Cathy Gomila, Carole Schembri, Sophie Da Nascimento, Redouan Elboutachfaiti, Agnès Boullier, Emmanuel Lorne, Josiane Courtois, Emmanuel Petit, Sylvestre Toumieux, José Kovensky, Pascal Sonnet, Ziad A. Massy, Saïd Kamel, Claire Rossi, Jérôme Ausseil..... 1391 


Translational Sciences

VB Circulating MicroRNA-125b Predicts the Presence and Progression of Uremic Vascular Calcification

Chia-Ter Chao, You-Pi Liu, Sheng-Fang Su, Hsiang-Yuan Yeh, Hsuan-Yu Chen, Pei-Jung Lee, Wan-Jiun Chen, Yee-Ming Lee, Jenq-Wen Huang, Chih-Kang Chiang, Kuan-Yu Hung, Huei-Wen Chen..... 1402 

Clinical and Population Studies

AL Statin Pretreatment and Microembolic Signals in Large Artery Atherosclerosis

Apostolos Safouris, Christos Krogias, Vijay K. Sharma, Aristeidis H. Katsanos, Simon Faissner, Andromachi Roussopoulou, Christina Zompola, Janina Kneiphof, Odysseas Kargiotis, Spyridon Deftereos, Georgios Giannopoulos, Nikos Triantafyllou, Konstantinos Voumvourakis, Konstantinos Vadikolias, Georgios Tsivgoulis..... 1415 
See accompanying editorial on page 1261

On the cover: Endothelial-specific Mef2c deletion caused medial smooth muscle cells to traverse the aortic internal elastic lamina through fenestrations. Rendered 3D image with endothelial nuclei shown in blue, medial smooth muscle nuclei in magenta, smooth muscle cell nuclei traversing through fenestrations in red, and internal elastic lamina in white/semitransparent. (See pages 1380–1390.)

Instructions to the Authors are available online at <http://atvb.ahajournals.org/site/misc/ifora.xhtml>.

Some figures may appear in color in the online issue, while appearing in black and white for the print issue.

 This article contains online supplementary information that is available at <http://atvb.ahajournals.org>.

Arteriosclerosis, Thrombosis, and Vascular Biology



JOURNAL OF THE AMERICAN HEART ASSOCIATION

37 (7)

Arterioscler Thromb Vasc Biol. 2017;37:e75-1422

Arteriosclerosis, Thrombosis, and Vascular Biology is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231

Copyright © 2017 American Heart Association, Inc. All rights reserved.

Print ISSN: 1079-5642. Online ISSN: 1524-4636

The online version of this article, along with updated information and services, is located on the World Wide Web at:

<http://atvb.ahajournals.org/content/37/7>

Permissions: Requests for permissions to reproduce figures, tables, or portions of articles originally published in *Arteriosclerosis, Thrombosis, and Vascular Biology* can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the [Permissions and Rights Question and Answer](#) document.

Reprints: Information about reprints can be found online at:

<http://www.lww.com/reprints>

Subscriptions: Information about subscribing to *Arteriosclerosis, Thrombosis, and Vascular Biology* is online at:

<http://atvb.ahajournals.org/subscriptions/>