

Circulation

Editor-in-Chief

Joseph A. Hill

Executive Editor

James A. de Lemos

Deputy Editor

Darren K. McGuire

Senior Associate Editor

Mark H. Drazner

Associate Editors

Sana M. Al-Khatib, *Durham*
Joshua A. Beckman, *Nashville*
Jarett D. Berry, *Dallas*
Emmanouil S. Brilakis, *Minneapolis*
Biykem Bozkurt, *Houston*
Kelly Chin, *Dallas*
Sandeep R. Das, *Dallas*
Victoria Delgado, *Leiden*
Deborah B. Diercks, *Dallas*
Thomas Eschenhagen, *Hamburg*
Timothy J. Gardner, *Newark*
Shinya Goto, *Kanagawa*
Gerald Greil, *Dallas*
W. Gregory Hundley, *Winston-Salem*
Graeme J. Hankey, *Perth*
Stefan James, *Uppsala*
Dharam Kumbhani, *Dallas*
Sergio Lavandero, *Santiago*
Mark S. Link, *Dallas*
Charles J. Lowenstein, *Rochester*
Chang-Sheng Ma, *Beijing*
Laura Mauri, *Boston*
Bongani M. Mayosi, *Cape Town*
Torbjørn Omland, *Oslo*
Peipei Ping, *Los Angeles*
Wendy S. Post, *Baltimore*
Anand Rohatgi, *Dallas*
Hesham A. Sadek, *Dallas*
Naveed A. Sattar, *Glasgow*
Philippe Gabriel Steg, *Paris*
Nancy K. Sweitzer, *Tucson*
Sami Viskin, *Tel Aviv*
Wanpen Vongpatanasin, *Dallas*
Karol E. Watson, *Los Angeles*

Digital Strategies

Amit Khera

Podcasts

Carolyn S.P. Lam

Content Editors

Case Series

Aslan T. Turer

Clinical Implications of Basic Research

Nikhil V. Munshi
Satyam Sarma

CME

Susan Matulevicius
Monika Sanghavi
Melanie S. Sulistio

ECGs

José A. Joglar

Pathology

Jeffrey E. Saffitz

Pathways to Discovery

John D. Rutherford

Special Populations

Sharon C. Reimold

Editorial Staff

Karen Barry
Director of Journal Operations
Emily Picillo
Managing Editor
Molly Klemarczyk
Assistant Managing Editor
Sara O'Brien
Editorial Assistant

Senior Guest Editors

Vera Bittner
Gianluigi Condorelli
Frans Van de Werf

Senior Advisory Editors

François M. Abboud
Eugene Braunwald
Helen H. Hobbs
Eric N. Olson
Milton Packer
James T. Willerson

Senior Statistical Editor

Daniel F. Heitjan

Statistical Editors

Colby Ayers
Sue Duval
Julia Kozlitina

Editors, *Circulation Journals*

Paul J. Wang
Circulation: Arrhythmia and Electrophysiology
Ramachandran S. Vasan
Circulation: Cardiovascular Genetics
Marcelo F. Di Carli
Circulation: Cardiovascular Imaging
David P. Faxon
Circulation: Cardiovascular Interventions
Brahmajee K. Nallamothu
Circulation: Cardiovascular Quality and Outcomes
Nancy K. Sweitzer
Circulation: Heart Failure



American
Heart
Association®

Circulation

Editorial Board

David Aguilar	Jeptha P. Curtis	Erik Ingelsson	Craig R. Malloy	Samir Saba
Michelle A. Albert	Mary Cushman	Joachim H. Ix	Pradeep P.A. Mammen	Jeffrey L. Saver
Christine M. Albert	Christopher deFilippi	Allan S. Jaffe	Douglas L. Mann	Renate B. Schnabel
John H. Alexander	Geneviève Derumeaux	Pierre Jais	Barry J. Maron	Jay W. Schneider
Karen P. Alexander	Stefanie Dimmeler	Jan Janoušek	Nikolaus Marx	P. Christian Schulze
Fernando Alfonso	Xin Du	Edward C. Jauch	Manuel Mayr	Peter J. Schwartz
Amit Amin	Philip Eaton	Anders Jeppsson	James M. McCabe	Benjamin M. Scirica
Sonia S. Anand	Kenneth A. Ellenbogen	Lena Jonasson	Peter A. McCullough	Stephen L. Seliger
Cheryl A.M. Anderson	Raimund A. Erbel	Karen E. Joynt	John J.V. McMurray	Frank Sellke
Mark E. Anderson	David Erlinge	Daniel P. Judge	Elizabeth M. McNally	Ajay M. Shah
Dominick J. Angiolillo	N.A. Mark Estes III	Jonathan Kalman	Roxana Mehran	Prediman K. Shah
Elliott M. Antman	Michael Ezekowitz	David A. Kass	Ana Olga Mocumbi	Svati H. Shah
Paul W. Armstrong	James C. Fang	Padma Kaul	Gilles Montalescot	Philip W. Shaul
C. Noel Bairey Merz	William F. Fearon	Sanjay Kaul	James C. Moon	Leslee J. Shaw
George L. Bakris	Gemma A. Figtree	Sanjiv Kaul	David A. Morrow	Michael G. Shlipak
Christie M. Ballantyne	Rodolphe Fischmeister	Richard N. Kitsis	Elizabeth Murphy	Tabassome Simon
Subhash Banerjee	Charles Fraser	Bjorn C. Knollmann	Vijay Nambi	Karin Sipido
Sripal Bangalore	Norbert Frey	Michel Komajda	Khurram Nasir	Peter Smith
Eric R. Bates	Keiichi Fukuda	Issei Komuro	Jane W. Newburger	Randall C. Starling
Jeroen J. Bax	Daniel J. Garry	Marvin A. Konstam	Vuyisile Nkomo	Luke Szweda
Emelia J. Benjamin	Michael A. Gatzoulis	Ran Kornowski	Patrick O'Gara	Jean-François Tanguay
Ivor J. Benjamin	Bernard J. Gersh	Mikhail Kosiborod	Brian O'Rourke	Ling Tao
Jeffrey S. Berger	Edward P. Gerstenfeld	Christopher M. Kramer	Christopher Owens	John R. Teerlink
M. Angelyn Bethel	Samuel S. Gidding	Harlan M. Krumholz	Richard L. Page	Rong Tian
Deepak L. Bhatt	Robert P. Giugliano	Fred Kusumoto	Anushka Patel	Jolanda van der Velden
Vera Bittner	Thomas G. Gleason	Bonnie Ky	Chetan B. Patel	Jennifer E. Van Eyk
Roger S. Blumenthal	Zachary D. Goldberger	Susan G. Lakoski	Vlado Perkovic	Ronald G. Victor
Christoph Bode	Nora Goldschlager	Irene M. Lang	Ileana L. Piña	Salim S. Virani
Barry A. Borlaug	Paul A. Grayburn	Richard A. Lange	Tiffany M. Powell-Wiley	Renu Virmani
Javed Butler	Soffia Gudbjörnsdottir	Christophe Leclercq	Silvia G. Priori	Thomas M. Vondrisk
Paolo G. Camici	Naomi M. Hamburg	Benjamin D. Levine	Sunil V. Rao	Anton Vonk Noordegraaf
Mercedes R. Carnethon	Yaling Han	Martin M. LeWinter	Kausik K. Ray	Thomas J. Wang
Barbara Casadei	Anna R. Hemnes	Eldrin F. Lewis	Muredach Reilly	Tracy Y. Wang
Chern-En Chiang	David M. Herrington	Gregory D. Lewis	William Clifford Roberts	Lawrence R. Wechsler
Sumeet S. Chugh	Mark A. Hlatky	Peter Libby	Matthew T. Roe	Jeffrey I. Weitz
Joaquin E. Cigarroa	Judith S. Hochman	A. Michael Lincoff	Raphael Rosenhek	Harvey D. White
Nakela L. Cook	Marius M. Hoepfer	Brian R. Lindman	Anthony Rosenzweig	Y. Joseph Woo
Filippo Crea	Brian D. Hoit	Gregory Y.H. Lip	Helge Røsjø	Clyde W. Yancy
Mark A. Creager	Michael V. Holmes	Lars H. Lund	Marc Ruel	Robert Yeh
Michael H. Criqui	Dayi Hu	Xin-Liang L. Ma	Stuart D. Russell	Jianyi Zhang
Louise Cullen	Marc Humbert	Thomas M. Maddox	Andrea M. Russo	Michael R. Zile
Anne B. Curtis	Ahamed H. Idris	Ehtisham Mahmud	John J. Ryan	

2016-17 AHA Scientific Publishing Committee

Robert M. Carey, Chair
Alison Mudditt, Vice Chair
Marwah Abdalla
Matthew Allison
Gregory L. Burke
Angela Cochran
Brian D. Crawford
Eddie L. Greene

Alice Jacobs
E. Magnus Ohman
Alejandro A. Rabinstein
Robert C. Robbins
David S. Siscovick
Linda Van Horn
Raymond P. Vara, Jr.
Catherine L. Webb

Previous *Circulation* Editors-in-Chief

Thomas M. McMillan, 1950-56
Herrman L. Blumgart, 1956-66
Howard B. Burchell, 1966-71
Charles K. Friedberg, 1971-72
Ephraim Donoso, 1972-73
Eugene A. Stead, 1973-78

Elliot Rapaport, 1978-83
Burton E. Sobel, 1983-88
John Ross Jr., 1988-93
James T. Willerson, 1993-2004
Joseph Loscalzo, 2004-16



American
Heart
Association®