

### Editorials

#### Are Double Mutations Double Trouble?

*Diane Fatkin, MD; Renee Johnson, PhD, MGC* ..... e001749

#### Local Ancestry Association, Admixture Mapping, and Ongoing Challenges

*Arya Mani, MD* ..... e001747

### Original Articles

#### Identification of Cadherin 2 (CDH2) Mutations in Arrhythmogenic Right Ventricular Cardiomyopathy

*Bongani M. Mayosi, MB, ChB, DPhil; Maryam Fish, PhD; Gasnat Shaboodien, PhD; Elisa Mastantuono, MD; Sarah Kraus, MB, ChB; Thomas Wieland, MSc; Maria-Christina Kotta, PhD; Ashley Chin, MPhil; Nakita Laing, MSc; Ntobeko B.A. Ntusi, DPhil; Michael Chong, MSc; Christopher Horsfall, MB, ChB; Simon N. Pimstone, MB, ChB, PhD; Davide Gentilini, PhD; Gianfranco Parati, MD; Tim-Matthias Strom, MD; Thomas Meitinger, MD; Guillaume Pare, MD; Peter J. Schwartz, MD, PhD; Lia Crotti, MD, PhD* ..... e001605

#### Screening of the Filamin C Gene in a Large Cohort of Hypertrophic Cardiomyopathy Patients

*Juan Gómez, PhD; Rebeca Lorca, MD; Julian R. Reguero, MD; César Morís, MD; María Martín, MD; Salvador Tranche, MD; Belén Alonso, BSc; Sara Iglesias, BSc; Victoria Alvarez, PhD; Beatriz Díaz-Molina, MD; Pablo Avanzas, MD; Eliecer Coto, PhD* ..... e001584

#### Nonfamilial Hypertrophic Cardiomyopathy: Prevalence, Natural History, and Clinical Implications

*Jodie Ingles, GradDipGenCouns, PhD, MPH; Charlotte Burns, MGC, MPH; Richard D. Bagnall, PhD; Lien Lam, BSc, PhD; Laura Yeates, BSc; Tanya Sarina, MCommsMgmt; Rajesh Puranik, MBBS, PhD; Tom Briffa, PhD; John J. Atherton, MBBS, PhD; Tim Driscoll, BSc(Med), MBBS, MOHS, PhD; Christopher Semsarian, MBBS, PhD, MPH* ..... e001620

#### Prevalence and Clinical Implication of Double Mutations in Hypertrophic Cardiomyopathy: Revisiting the Gene-Dose Effect

*Dana Fourey, MD; Melanie Care, MSc; Katherine A. Siminovitch, MD; Adaya Weissler-Snir, MD; Waseem Hindieh, MD; Raymond H. Chan, MD, MPH; Michael H. Gollob, MD; Harry Rakowski, MD; Arnon Adler, MD* ..... e001685

#### Additional Candidate Genes for Human Atherosclerotic Disease Identified Through Annotation Based on Chromatin Organization

*Saskia Haitjema, MD; Claartje A. Meddens, MD; Sander W. van der Laan, PhD; Daniel Kofink, MSc; Magdalena Harakalova, MD, PhD; Vinicius Tragante, PhD; Hassan Foroughi Asl, PhD; Jessica van Setten, PhD; Maarten M. Brandt, MSc; Joshua C. Bis, PhD; Christopher O'Donnell, MD, PhD; on behalf of the CHARGE Consortium, the METASTROKE Group of the International Stroke Genetics Consortium; Caroline Cheng, PhD; Imo E. Hofer, MD, PhD; Johannes Waltenberger, MD, PhD; Erik Biessen, PhD; J. Wouter Jukema, PhD; Pieter A.F.M. Doevendans, MD, PhD; Edward E.S. Nieuwenhuis, MD, PhD; Jeanette Erdmann, MD, PhD; Johan L.M. Björkegren, MD, PhD; Gerard Pasterkamp, MD, PhD; Folkert W. Asselbergs, MD, PhD; Hester M. den Ruijter, PhD; Michal Mokry, MD, PhD* ..... e001664

#### Admixture Mapping of Subclinical Atherosclerosis and Subsequent Clinical Events Among African Americans in 2 Large Cohort Studies

*Aditi Shendre, PhD; Howard Wiener, PhD; Marguerite R. Irvin, PhD; Degui Zhi, PhD; Nita A. Limdi, PhD; Edgar T. Overton, MD; Christina L. Wassel, PhD; Jasmin Divers, PhD; Jerome I. Rotter, MD; Wendy S. Post, MD; Sadeep Shrestha, PhD* ..... e001569

**Socioeconomic Status Interacts with the Genetic Effect of a Chromosome 9p21.3 Common Variant to Influence Coronary Artery Calcification and Incident Coronary Events in the Heinz Nixdorf Recall Study (Risk Factors, Evaluation of Coronary Calcium, and Lifestyle)**

*Börge Schmidt, PhD; Stefanie Frölich, MSc; Nico Dragano, PhD; Mirjam Frank, MSc; Lewin Eisele, MD; Sonali Pechlivanis, PhD; Andreas J. Forstner, MD; Markus M. Nöthen, MD; Amir A. Mahabadi, MD; Raimund Erbel, MD; Susanne Moebus, PhD; Karl-Heinz Jöckel, PhD* ..... e001441

**Genome-Wide Association Study Meta-Analysis of Long-Term Average Blood Pressure in East Asians**

*Changwei Li, MD, PhD; Yun Kyoung Kim, PhD; Rajkumar Dorajoo, PhD; Huaixing Li, PhD; I-Te Lee, MD, PhD; Ching-Yu Cheng, MD, PhD; Meian He, MD, PhD; Wayne H-h Sheu, MD, PhD; Xiuqing Guo, PhD; Santhi K. Ganesh, MD; Jiang He, MD, PhD; Juyoung Lee, PhD; Jianjun Liu, PhD; Yao Hu, PhD; Dabeeru C. Rao, PhD; Fuu-Jen Tsai, MD, PhD; Jia Yu Koh, MS; Hua Hu, PhD; Kae-Woei Liang, MD; Walter Palmas, MD; James E. Hixson, PhD; Sohee Han, PhD; Yik-Ying Teo, PhD; Yiqin Wang, MD; Jing Chen, MD; Chieh Hsiang Lu, MD, PhD; Yingfeng Zheng, MD, PhD; Lixuan Gui, MS; Wen-Jane Lee, PhD; Jie Yao, MD; Dongfeng Gu, MD, PhD; Bok-Ghee Han, PhD; Xueling Sim, PhD; Liang Sun, PhD; Jinying Zhao, MD, PhD; Chien-Hsiun Chen, PhD; Neelam Kumari, PhD; Yunfeng He, PhD; Kent D. Taylor, PhD; Leslie J. Raffel, MD; Sanghoon Moon, PhD; Jerome I. Rotter, MD; Yii-der Ida Chen, PhD; Tangchun Wu, MD, PhD; Tien Yin Wong, MD, PhD; Jer-Yuarn Wu, PhD; Xu Lin, MD, PhD; E-Shyong Tai, MD, PhD; Bong-Jo Kim, PhD; Tanika N. Kelly, PhD* ..... e001527

**Investigating the Genetic Architecture of the PR Interval Using Clinical Phenotypes**

*Jonathan D. Mosley, MD, PhD; M. Benjamin Shoemaker, MD, MSCI; Quinn S. Wells, MD, PhD, MSc; Dawood Darbar, MD, PhD; Christian M. Shaffer, BS; Todd L. Edwards, PhD; Lisa Bastarache, MS; Catherine A. McCarty, PhD, MPH; Will Thompson, PhD; Christopher G. Chute, MD, DrPH; Gail P. Jarvik, MD, PhD; David R. Crosslin, PhD; Eric B. Larson, MD, MPH; Iftikhar J. Kullo, MD; Jennifer A. Pacheco, BA; Peggy L. Peissig, PhD, MBA; Murray H. Brilliant, PhD; James G. Linneman, BA; John S. Witte, PhD; Josh C. Denny, MD, MS; Dan M. Roden, MD* ..... e001482

**Heritability of the Severity of the Metabolic Syndrome in Whites and Blacks in 3 Large Cohorts**

*Solomon K. Musani, PhD; Lisa J. Martin, PhD; Jessica G. Woo, PhD; Michael Olivier, PhD; Matthew J. Gurka, PhD; Mark D. DeBoer, MD, MSc, MCR* ..... e001621

**Genetic Analysis of Venous Thromboembolism in UK Biobank Identifies the ZFPM2 Locus and Implicates Obesity as a Causal Risk Factor**

*Derek Klarin, MD; Connor A. Emdin, DPhil; Pradeep Natarajan, MD, MMSc; Mark F. Conrad, MD; the INVENT Consortium; Sekar Kathiresan, MD* ..... e001643

**Advances in Genetics**

**Delivering Clinical Grade Sequencing and Genetic Test Interpretation for Cardiovascular Medicine**

*Andrew R. Harper, MSc, MRCP; Victoria N. Parikh, MD; Rachel L. Goldfeder, BS; Colleen Caleshu, MS, LCGC; Euan A. Ashley, BSc, DPhil, FRCP* ..... e001221

**Correction** ..... e000036

**AHA Scientific Statement**

**Potential Impact and Study Considerations of Metabolomics in Cardiovascular Health and Disease: A Scientific Statement From the American Heart Association**

*Susan Cheng, MD, MMSc, MPH, Chair; Svati H. Shah, MD, MHS, FAHA, Co-Chair; Elizabeth J. Corwin, PhD; Oliver Fiehn, MD; Robert L. Fitzgerald, PhD; Robert E. Gerszten, MD, FAHA; Thomas Illig, PhD; Eugene P. Rhee, MD; Pothur R. Srinivas, PhD, MPH; Thomas J. Wang, MD, FAHA; Mohit Jain, MD, PhD; on behalf of the American Heart Association Council on Functional Genomics and Translational Biology; Council on Cardiovascular and Stroke Nursing; Council on Clinical Cardiology; and Stroke Council* ..... e000032

10 (2)

*Circ Cardiovasc Genet.* 2017;10:

*Circulation: Cardiovascular Genetics* is published by the American Heart Association, 7272 Greenville Avenue,  
Dallas, TX 75231

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

Print ISSN: 1942-325X. Online ISSN: 1942-3268

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

<http://circgenetics.ahajournals.org/content/10/2>

**Permissions:** Requests for permissions to reproduce figures, tables, or portions of articles originally published in *Circulation: Cardiovascular Genetics* 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 *Circulation: Cardiovascular Genetics* is online at:  
<http://circgenetics.ahajournals.org/subscriptions/>