

Chris Holmes, MD, Interim Director
<http://www.uvm.edu/medicine/medicine/hemonc/>

Executive Summary



The Division of Hematology and Oncology has had a successful clinical and academic year with a continued dedication to our tripartite mission of teaching, cutting-edge research and high quality, patient centered care. The division has 17 faculty members who care for patients with oncologic and hematologic malignancies, benign hematology, as well as thrombotic and bleeding disorders. The clinical care enterprise is also comprised of 6 APPs and over 40 nurses and staff in the outpatient clinic. In 2016-2017, the division cared for about 2,470 new outpatients and provided over 18,000 outpatient consults and visits (in total) in addition to ~1,400 treatment infusion/injection patients and about 6,000 inpatient consults and visits. Inpatient services offered by the division include a hematology consult service, an oncology consult service and a heme-malignancy inpatient service. In addition to subspecialty, tertiary oncologic care and specialized hematology services, the division also provides unique services to our patient population. These include:

- The Thrombosis & Hemostasis Program, (Dr. Cushman, Director)
- The Apheresis Program, (Dr. Sprague, Director)
- The Hemophilia Treatment Center supported by a federal grant, (Dr. Holmes, PI)
- The Stem Cell Transplant Program, reaccredited in 2016, (Dr. Sprague, Director)
- The High Risk Breast Program, a clinical research program, (Dr. Wood, PI)
- Familial Cancer Genetics, (Drs. Wood and Greenblatt, PI's)
- Oncology Rehabilitation, (Dr. Dittus, Medical Director)
- Lymphedema Services, (Dr. O'Brien)

Research within the division focuses on clinical trials as well as epidemiologic and translational research. In the past year, faculty members have served as the site PI on 26 National Cancer Institute clinical trials; 13 industry sponsored trials and 10 investigator initiated institutional trials. Investigators within the Division receive funding from clinical trials (cooperative group and pharmaceutical trials), NIH NCI, NHLBI, NINDS and ACS, and through the UVM Cancer Center.

The division maintains an active fellowship program comprised of 6 fellows under the direction of Dr. Julian Sprague (Program Director) and Dr. Molly Barry (Associate Program Director). Specialized tracks in thrombosis & haemostasis, familial genetics and breast cancer are available to fellows and promote the academic careers of interested fellows. Fellows maintain an active clinical and research schedule including presentations and posters at relevant regional and national meetings. Hematology and Oncology fellows generated 5 publications this year and Dr. Hibba Rehman (third year fellow) received a Fibrolamellar Cancer Foundation Grant.

Multiple members of the division continue to serve in leading national and international positions. A few highlights include: Dr. Steven Ades was appointed as site PI for the NCI Alliance Network as well as served as the President of the Northern New England Clinical Oncology Society; Dr. Cushman now serves as the inaugural Editor in Chief of RPTH (Research and Practice in Thrombosis and Hemostasis), an international on-line journal dedicated to the dissemination of high quality research and clinical care in thrombosis and hemostasis as well as continued to serve on the Board of Directors for the American Heart Association; Dr. Greenblatt served as the President of the Human Genome Variation Society and member of the International Scientific Advisory Council for the Human Variome Project; Dr. Holmes served as National Chair for the American Society of Hematology Workgroup on Transitions and Member of the Thrombosis Committee for the American Thrombosis and Hemostasis Network; Dr. Nunnink was a member of the Board of Directors for the American Society of Oncology; Dr. Marie Wood served on the Alliance Prevention Committee and is Chair-Elect of the ASCO Continuing Education Committee and Dr. Zakai served as a member of the American Society of Hematology VTE Guidelines Panel and co-chair of the Hemophilia and Thrombosis Research Society, Research Committee.

Additional highlights and accomplishments that round out a successful year in hematology and oncology are found below.

Faculty

Steven Ades, MD, MSc – Associate Professor

Associate Director, Hematology/Oncology Fellowship Program
Leader, UVM Medical Upper Gastrointestinal Oncology Transdisciplinary Team
Co-Leader, University of Vermont Medical Center Medical Center Genitourinary Oncology Transdisciplinary Team
Director, In-Patient Hematology/Oncology—Outgoing
Clinical Director, Cancer Clinical Trials Office—Incoming
Member, Vermont Cancer Center Protocol Review and Monitoring Committee
Member, UVM Faculty Senate Financial & Physical Planning Committee
Member, UVM Medical Center Hematology/Oncology Fellowship Program Evaluation Committee
Member, UVM Medical Center Hematology/Oncology Fellowship Clinical Competency Committee
Member, Hematology/Oncology Division Chief Search Committee
Research and clinical interests include: GI and GU cancers, supportive care and thrombosis in malignancy

George F. Atweh, MD-Professor

Clinical Director, Cancer Clinical Trials Office—Outgoing
Member, Protocol Review and Monitoring Committee, UVM Medical Center
Research interests include: Molecular basis of benign and malignant blood disorders, and clinical trials in malignant hematology

Maura Barry, MD-Assistant Professor

Associate Director, Hematology/Oncology Fellowship Program
Member, UVM Medical Center Faculty Development Committee,
Member, UVM Medical Center Hematology/Oncology Fellowship Program Evaluation
Committee
Member, UVM Internal Medicine Residency Program Evaluation Committee
Member, UVM Medical Center Hematology/Oncology Fellowship Clinical Competency
Committee
Research and clinical interests include: GI and head and neck cancers

Mary Cushman, MD, MSc – Professor, Medicine and Pathology

Director, Thrombosis and Hemostasis Program
Research interests include: Etiology of vascular diseases and other chronic diseases;
racial disparities; venous thrombosis and post thrombotic syndrome

Kim Dittus, MD, PhD – Assistant Professor

Medical Director of Oncology Rehabilitation
Chair Clinical Committee, Program in Integrative Health
Chair Research Committee, Program in Integrative Health
Member, Cancer Control Committee, UVM Medical Center
Research interests include: Cancer survivorship, diet/nutrition, exercise

Edmund Folefac, MD – Assistant Professor

Member, Vermont Cancer Center Protocol Review and Monitoring Committee
Research interests include: Lung cancer and melanoma; clinical trials

Marc Greenblatt, MD – Professor

Co-Chair, UVM Cancer Center Molecular Mechanisms of Malignancy Program
Assistant Director, Hematology/Oncology Fellowship Program
Research and clinical interests include: Cancer genetics and gastrointestinal cancers

Chris Holmes, MD, PhD – Associate Professor

Interim Director, Hematology/Oncology Division
Director, Vermont Regional Hemophilia Treatment Center
Assistant Director, Thrombosis and Hemostasis Program
Section Chief, Hematologic Malignancies
Associate Director, Clinical and Translational Research, UVM Cancer Center
Research interests include: Venous thrombosis, platelet function, coagulation and cancer

Farrah Khan, MD – Assistant Professor

Member: UVMMC Department of Medicine Faculty Development Committee, Faculty
Engagement Committee, QA&I Committee
Member, UVMMC Department of Medicine Quality Assurance and Improvement
Committee
Research and clinical interests include: Breast cancer, lung cancer, mesothelioma and
sarcoma

J. Chris Nunnink, MD, FASCO – Associate Professor

Member, UVM Medical Center Clinical Integration Committee
Member, UVM Medical Center CIC Committee representing Oncology
Co-Chair, UVM Medical Center Head and Neck Multidisciplinary Clinic
Director, UVM Cancer Center Network Development
Clinical interests include: Oropharyngeal Cancer and GU Cancer

Patricia O'Brien, MD – Assistant Professor Clinical Scholar

Director, Lymphedema Program

Julie Olin, MD – Associate Professor

Attending Physician—retired June 30, 2017

Julian Sprague, MD, PhD – Associate Professor

Director, Hematology/Oncology Fellowship Program
Director, Stem Cell Transplant Program, University of Vermont Medical Center
Clinical Director, Apheresis Services
Member, UVM Medical Center, Transfusion Committee
Member, UVM Medical Center, Ethics Committee
Member, UVM Medical Center, Medical School Curriculum Committee
Research and clinical interests include: Myeloma and neurotoxicity, hematologic malignancies

Eswar Tipirneni, MD—Clinical Practice Physician

Physician at CVMC

Elvira Umyarova, MD—Assistant Professor

Director, In-Patient Hematology/Oncology—Incoming
Research interests include: Malignant hematology, stem cell transplant, clinical trials

Marie Wood, MD – Professor

Director, Familial Cancer Program
Assistant Director, Hematology/Oncology Division
Medical Director of the Cancer Clinic
Research interests include molecular markers of breast cancer risk, attitudes of primary care physicians regarding cancer genetics, breast cancer screening and prevention

Neil Zakai, MD, MSc – Associate Professor of Medicine and Pathology

Chair, Data Safety and Monitoring Board, UVM Cancer Center
Member, UVMMC Pharmacy and Therapeutics Committee
Research interests include: Epidemiology and novel risk factors for venous thrombosis and cardiovascular disease. Epidemiology, causes, and consequences of anemia in diverse populations. Venous thrombosis causes and prevention, post thrombotic syndrome.

Hematology/Oncology Fellows

Hibba Rehman, MD – 3rd year fellow
Jose Ruades, MD – 3rd year fellow
Bhargavi Pulluri, MD – 2nd year fellow
Purva Sharma, MD – 2nd year fellow
Daniel Douce, MD – 1st year fellow
Saranya Kodali, MD – 1st year fellow

NP's and PA's

Jamie Kelly, PA
Penny Gibson, PA
Anne Berkowitz, NP
Janet Ely, NP
Patricia Lewis, NP
Emily Parenteau, MSN, FNP

Graduate students, post-doctoral fellows, MD PHD students

Katharine Cheung, MD, Post-Doctoral Fellow
Kara Landry, MD, Post-Doctoral, mentored by Mary Cushman
Elizabeth Hall, MD, LCCRO Fellow
Daniel Douce, MD, Post-Doctoral Fellow, mentored by Neil Zakai

Leadership in Professional Societies

Steven Ades, MD

Immediate Past President, Northern New England Clinical Oncology Society
Member, Alliance Cooperative Group Symptom Intervention Committee

Mary Cushman, MD, MSc

Member, Scientific Program Planning Committee, World Heart Federation and American Board Director, American Heart Association
Member of the American Society of Hematology Media Experts Subcommittee.
Board Director, North American Thrombosis and Hemostasis Society
President, Board of Directors Vermont District, American Heart Association
Member, Medical Alumni Executive Committee
Member, Volunteer Oversight Group, American Heart Association
Member, Quality Committee, American Society of Hematology
Member, Media Experts Committee, American Society of Hematology
Member, Statistics Committee, American Heart Association
Member, Corporate Relations Review Committee
Member, ASH Maintenance of Certification Committee
Member, Medical Advisory Committee for the Foundation for Women and Girls with Blood Disorders

Kim Dittus, MD, PhD

Member, Cancer Control Committee, UVM Medical Center

Member, Champlain Valley Healthy Lifestyle Collaborative

Marc Greenblatt, MD

President, Human Genome Variation Society (HGVS)
Member, International Scientific Advisory Council, Human Variome Project
Member, American Association of Cancer Research
Member, American Society of Clinical Oncology
Member, American Society of Human Genetics
Member, Collaborative Group of the Americas on Inherited Colorectal Cancer (CGA-ICC),
Co-Chair, Working Group on Assessment of Pathogenicity
Member, International Society of Gastrointestinal Hereditary Tumors (InSiGHT)
Core Member, Variant Interpretation Committee
Member, International Mismatch Repair Consortium (IMRC)
Member, Cancer and Leukemia Group B-Alliance for Clinical Trials
Member, Vermont Medical Society

Chris Holmes, MD, PhD

Member, Thrombosis Committee, American Thrombosis and Hemostasis Network, Centers for Disease Control
National Chair, Hemophilia Transitions, American Society of Hematology Workgroup on Transitions; American College of Physicians Pediatric to Adult Care Transition Initiative
Executive Board Member, National Network, Health and Human Services New England Comprehensive Hemophilia Diagnostic and Treatment Centers
Director, Community Counts-Vermont, Centers for Disease Control (CDC) Public Health Monitoring Program, Division of Blood Disorders
Member, Institutional Review Board, Committee on Human Research in the Medical Sciences (CHRMS), University of Vermont

J. Chris Nunnink MD, FASCO

Member, American Society of Clinical Oncology Board of Directors
Member, American Society of Clinical Oncology Strategic Planning Committee
Member, American Society of Clinical Oncology Clinical Guidelines Committee
Member, Northern New England Clinical Oncology Society Board of Directors

Julian Sprague, MD

Member, American Society of Hematology
Member, American Society of Clinical Oncology
Member, American College of Physicians
Member, Committee on Training, American Society of Hematology
Liaison, Committee on Quality from the Committee on Training, American Society of Hematology

Marie Wood, MD

Member, Alliance, Prevention Committee
Member, Alliance Foundation, Board of Trustees

Member, American Society of Clinical Oncology, CME Committee
Member, Northern New England Clinical Oncology Society Board of Directors
Member, American College of Physicians
Member, National Surgical Adjuvant Breast and Bowel Project
Chair-Elect, ASCO Continuing Education Committee

Neil Zakai, MD

Member, American Heart Association, Disparities Research Network Peer Review Committee
Member, American Society of Hematology VTE Guideline Panel: Prevention of VTE in Medical Patients
Co-Chair, Hemophilia and Thrombosis Research Society, Research Committee
Vice Chair, American Heart Association Council on Epidemiology and Prevention, Publications Committee
Member, American Society of Hematology “Consult a Colleague” program-content expert “Hemostasis/Thrombosis”
Member, American Heart Association Representative to the American Association of Blood Banks: Blood Banks and Transfusion Services Standards Program Unit
Member, American Heart Association POP 2 Peer Review Committee
Member, Hemophilia and Thrombosis Research Society Membership Committee
Coordinator, Hematology/Oncology Fellowship Quality Project Committee
Member, UVM Medical Center Hematology/Oncology Fellowship Research Committee
Member, UVM Medical Center Internal Medicine Residency Research Committee
Chair, Malignant Hematologist Faculty Search Committee
Chair, Medication Safety Subcommittee for the Pharmacy & Therapeutics Committee
Guest Editor, Circulation

Editorships and Editorial Boards

Neil Zakai

Guest Editor, Circulation
Editorial Board, Research and Practice of Thrombosis and Haemostasis

Mary Cushman

Editor-in-Chief, Research and Practice in Thrombosis and Haemostasis

Study Sections and Federal Advisory Boards

Chris Holmes

NIH, Patient-Centered Outcomes Research Institute (PCORI), merit review panel member, *Management of Care Transitions for Emerging Adults with Sickle Cell Disease*

NIH, National Heart, Lung, and Blood Institute (NHLBI), ad-hoc member, Clinical Trials Review Committee (CLTR)

Grants

Steven Ades

University of Vermont Medical Group Yang (PI) 01/01/17-12/31/17
Delineating Tumors of Pancreatic Origin
Role: Co-PI

George Atweh

NIHUO1 HL117709 Punam, Malik (PI) 08/15/13-05/31/18
Cincinnati Center Excellence in Hemoglobinopathies Research
Role: Co-Investigator

Maura Barry

University of Vermont Medical Center Foundation 12/1/15-12/1/17
Victoria Buffum Endowment
Quality of Life Assessment for Head and Neck Cancer Patients Undergoing Treatment in
The First Year of Survivorship
Role: PI

University of Vermont Medical Group Yang (PI) 01/01/17-12/31/17
Delineating Tumors of Pancreatic Origin
Role: Co-PI

Mary Cushman

NINDS 08/01/02-11/30/17
U01 NS041588
Etiology of Geographic and Racial Differences in Stroke
Mortality
G Howard, PI, University of Alabama at Birmingham
ADC (current Vermont subcontract): \$684,296
Role: Subcontract PI, 20%

NHLBI 01/01/98-03/31/20
R01 HL59367
Epidemiology of Venous Thrombosis and Pulmonary Embolism
AR Folsom, PI, University of Minnesota
ADC (current Vermont Contract: \$33,723)
Role: Subcontract PI, 10%

NHLBI 08/15/00-08/14/21
HHSN2682015000031
Multiethnic Study of Atherosclerosis
R. McClelland, PI, University of Washington
ADC (current Vermont Subcontract): \$92,375 (current cycle)
Role: Subcontract PI, 5%

NIH 07/01/14-06/30/19
P01HD03192116A1
The National Longitudinal Study of Adolescent Health - Wave V
ADC: (Vermont Subcontract): \$478,373
K Harris, PI; University of North Carolina, Chapel Hill
ADC: (Vermont Subcontract): \$478,373
Role: Subcontract PI, 10%

NIH 09/08/14-05/30/19
P20GM109098
Effects of Perfluoroalkyl Chemicals on Stroke Incidence and Mortality
S Frisbee, PI
ADC (Subcontract): \$6,978
Role: Subcontract, PI, 2%

NIH 04/01/16-03/31/21
NICHD
Social Context, Life Course and Genetic Transcription in Add Health
ADC (subcontract): \$23,489
Role: Subcontract PI, 2.5%

NIH 06/01/16-05/31/21
Transitions to Family Caregiving and its Impact on Health Indicators
ADC: \$75,466
Role: Co-Investigator, 5%

Kim Dittus

NIH-NIGMS Higgins (PI) 9/15/13-7/31/18
1P20GM103644-01A1
Vermont Center on Behavior and Health, COBRE
Junior Investigator Project: Predictors of Weight Loss Success in
Overweight Breast Cancer Survivors
Role: PI, Junior Investigator Project

ACS-IRG Gell (PI) 04/01/17-03/31/18
BeMobile: A Randomized Control Trial of a Novel, Technology-Based Intervention to
Support Physical Activity in Cancer Survivors
Role: Mentor

Marc Greenblatt

NIH-NHGRI Berg, Jonathan (PI) 11/1/13-10/31/17
U01 HG007437-01
A Knowledge Base for Clinically Relevant Genes and Variants
Role: Co-Investigator

1 ROI CA164944 03/01/13-02-28-17

NIH/NCI
Classifying DNA Mismatch Repair Gene Variants of Unknown Significance
Role: Co-PI

Chris Holmes

20694075 01/01/16-12/31/18
The Joint Commission Oversight
Pfizer & Bristol-Myers Squibb Funding
Transition of Care for Patients with Venous Thromboembolism at ATHN Affiliated Sites
Rajpurkar and DeSancho (Co-Is)
Role: Site PI

ATHN2011001-1-1 Brettler (PI) 09/30/11-09/29/18
Centers for Disease Control and Prevention
American Thrombosis and Hemostasis Network
Public Health Surveillance for the Prevention of Complications of Bleeding and Clotting
Disorders
Role: Sub-Investigator

LCCRO-Pilot Holmes, Thomas (co-PI) 01/01/17-12/31/17
Venous Thromboembolism (VTE) Prevention in Patients with Malignant Glioma

ATHN Dream Award 09/16-01/18
Evolving Real-world use of Standard and EHL Products in Moderate and Severe
Hemophilia Patients: A Practical Application of the ATHNdataset
Role: Site PI

Marie Wood

Alliance #A211601 Wood (PI) 02/24/17-02/23/18
Alliance Protocol Development Support: Concept A211601 A Companion to A011501:
Evaluation of Mammographic Breast Density Effect of Aspirin
Role: PI

Alliance 31828 Wood (PI) 08/01/17-11/04/21
Prevention Committee Co-Chair/Concept
Role: PI

Neil Zakai

NINDS U01 NS041588 04/2014-04/2019
Etiology of Geographic and Racial Differences in Stroke Mortality
PI: G Howard, University of Alabama at Birmingham
Role: Co-investigator 10%

NHLBI-R01 Reiner (PI) 04/01/17-03/31/17
The Epidemiology of Thrombosis in African Americans
Role: Site PI

NHLBI-R01

Pamir (PI)

09/01/17-08/31/22

Identification of the Role of HDL Function in Human Cardiovascular Disease through Proteomics and Genetics

Role: Site PI

Publications

Erten MZ, Fernandez LP, Ng HK, **McKinnon WC**, Heald B, Koliba CJ, **Greenblatt MS**. Universal versus Targeted Screening for Lynch Syndrome: Comparing Ascertainment and Costs Based on Clinical Experience, *Dig Dis Sci*, 2016 Jul in press. PMID: 27384051

Hermel DJ, **McKinnon WC**, **Wood ME**, **Greenblatt MS**. Multi-gene Panel Testing for Hereditary Cancer Susceptibility in a Rural Familial Cancer Program, *Familial Cancer* 2016, Jul in press. PMID: 27401692

Cushman M, O'Meara ES, Heckbert SR, **Zakai NA**, Rosamond W, Folsom AR. Body size measures, hemostatic and inflammatory markers, and risk of venous thrombosis: The Longitudinal Investigation of Thromboembolism Etiology. *Thromb Res* 2016; Aug; 144:127-32. doi: 10.1016/j.thromres.2016.06.012. PMID: 27328432

Colantonio LD, Gamboa CM, Kleindorfer DO, Carson AP, Howard VJ, Muntner P, **Cushman M**, Howard G, Safford MM. Stroke symptoms and risk for incident coronary heart disease in the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Int J Cardiol* 2016; Oct 1;220:122-8. doi: 10.1016/j.ijcard.2016.06.030. PMID: 27376567

Chami N, Chen MH, Slater AJ, Eicher JD, **Cushman M**, Evangelou E, Tajuddin SM, Love-Gregory L, Kacprowski T, Schick UM, Nomura A, Giri A, Lessard S, Brody JA, Schurmann C, Pankratz N, Yanek LR, Manichaikul A, Pazoki R, Mihailov E, Hill, WD, Raffield LM, Burt A, Bartz TM, Becker DM, Becker LC, Boerwinkle, E, Bork-Jensen J, Bottinger EP, O'Donoghue LM, Crosslin DR, deDenus S, Dube MP, Elliott P, Engstrom G, Evans MK, Floyd JS, Fornage M, Gao H, Greinacher A, Gudnason V, Hansen T, Harris TB, Hayward C, Hernesniemi J, Highland HM, Hirschhorn JN, Hofman A, Irvin MR, Kahonen M, Lange E, Launer LJ, Lehtimaki T, Li J, Liewald DC, Linneberg A, Liu Y, Lu Y, Lyytikainen LP, Magi R, Mathias RA, Melander O, Metspalu A, Mononen N, Nalls MA, Nickerson DA, Nikus K, O'Donnell CJ, Orho-Melander M, Pedersen O, petersmann A, Polfus L, Psaty BM, Raitakari OT, Raitoharju E, Richard M, Rice KM, Rivadeneira F, Rotter JI, Schmidt F, Smith AV, Starr JM, Taylor KD, Teumer A, Thuesen BH, Torstenson ES, Tracy RP, Tzoulaki I, **Zakai NA**, Vacchi-Suzzi C, van Duijn CM van Rooij FJ, Deary IJ, VelezEdwards DR, Vergnaud AC, Wallentin L, Waterworth DM, White HD, Wilson JG, Zonderman AB, Kathiresan S, Grarup N, Esko T, Loos RJ, Lange LA, Faraday N, Abumrad NA, Edwards TL, R Ganesh SK, Auer PL, Johnson AD, Reiner AP, Lettre G. Exome Genotyping Identifies Pleiotropic Variants Associated with Red Blood Cell Traits. *Am J Hum Genet* 2016; Jul 7;99(1):8-21. doi: 10.1016/j.ajhg.2016.05.007. PMID: 27346685

Tajuddin SM, Schick UM, Eicher JD, Chami N, Giri A, Brody JA, Hill WD, Kacprowski T, Li J, Lyytikäinen LP, Manichaikul A, Mihailov E, O'Donoghue ML, Pankratz N, Pazoki R, Polfus LM, Smith AV, Schurmann C, Vacchi-Suzzi C, Waterworth DM, Evangelou E, Yanek LR, Burt A, Chen MH, van Rooij FJ, Floyd JS, Greinacher A, Harris TB, Highland HM, Lange LA, Liu Y, Mägi R, Nalls MA, Mathias RA, Nickerson DA, Nikus K, Starr JM, Tardif JC, Tzoulaki I, Velez Edwards DR, Wallentin L, Bartz TM, Becker LC, Denny JC, Raffield LM, Rioux JD, Friedrich N, Fornage M, Gao H, Hirschhorn JN, Liewald DC, Rich SS, Uitterlinden A, Bastarache L, Becker DM, Boerwinkle E, de Denus S, Bottinger EP, Hayward C, Hofman A, Homuth G, Lange E, Launer LJ, Lehtimäki T, Lu Y, Metspalu A, O'Donnell CJ, Quarells RC, Richard M, Torstenson ES, Taylor KD, Vergnaud AC, Zonderman AB, Crosslin DR, Deary IJ, Dörr M, Elliott P, Evans MK, Gudnason V, Kähönen M, Psaty BM, Rotter JI, Slater AJ, Dehghan A, White HD, Ganesh SK, Loos RJ, Esko T, Faraday N, Wilson JG, **Cushman M**, Johnson AD, Edwards TL, **Zakai NA**, Lettre G, Reiner AP, Auer PL. Large-Scale Exome-wide Association Analysis Identifies Loci for White Blood Cell Traits and Pleiotropy with Immune-Mediated Diseases. *Am J Hum Genet* 2016 Jul 7;99(1):22-39. doi: 10.1016/j.ajhg.2016.05.003. PMID: 27346689

Eicher JD, Chami N, Kacprowski T, Nomura A, Chen MH, Yanek LR, Tajuddin SM, **Cushman M**, Schick UM, Slater A, Pankratz N, Polfus L, Schurmann C, Giri A, Brody JA, Lange LA, **Zakai NA**, Manichaikul A, Hill WD, Pazoki R, Elliot P, Evangelou E, Tzoulaki I, Gao H, Vergnaud AC, Mathias RA, Becker DM, Becker LC, Burt A, Crosslin DR, Lyytikäinen LP, Nikus K, Hernesniemi J, Kahoen M, Raitoharju E, Mononen N, Raitakari OT, Lehtimäki T, Nickerson DA, Raffield LM, Quarells R, Willer CJ, Peloso GM, Abecasis GR, Liu DJ, Global Lipids Genetics Consortium, Deloukas P, Samani NJ, Schunkert H, Erdmann J, CARDIoGRAM Exome Consortium; Myocardial Infarction Genetics Consortium, Fornage M, Richard M, Tardif JC, Rioux JD, Dube MP, deDenus S, Lu Y, Bottinger EP, Loos RJ, Smith AV, Harris TB, Launer LJ, Gudnason V, VelezEdwards DR, Torstenson ES, Liu Y, Tracy RP, Rotter JI, Rich SS, Highland HM, Boerwinkle E, Li J, Lange E, Wilson JG, Mihailov E, Maqi R, Hirschhorn J, Metspalu A, Esko T, Vacchi-Suzzi C, Nalls MA, Zonderman AB, Evans MK, Engstrom G, Orholm Melander M, Melander O, O'Donoghue ML, Waterworth DM, Wallentin L, White HD, Floyd JS, Bartz TM, Rice KM, Psaty BM, Starr JM, Liewald DC, Hayward C, Deary IJ, Greinacher A, Volker U, Thiele T, Volzke H, van Rooij FJ, Uitterlinden AG, Franco OH, Dehghan A, Edwards TL, Ganesh SK, Kathiresan S, Faraday N, Auer PL, Reiner AP, Lettre G, Johnson AD. Platelet-Related Variants Identified by Exomechip Meta-analysis in 157,293 Individuals. *Am J Hum Genet* 2016 Jul; 7;99(1):40-55. doi: 10.1016/j.ajhg.2016.05.005. PMID: 27346686

Liu CT, Raghavan S, Maruthar N, Kabagambe EK, **Cushman M**, Hong J, Ng MC, Hivert MF, Lu Y, An P, Bentley AR, Drolet AM, Gaulton KJ, Guo X, Armstrong LL, Irvin MR, Li M, Lipovich L, Rybin DV, Taylor KD, Agyemang C, Palmer ND, Cade BE, Chen WM, Dauriz M, Delaney JA, Edwards TL, Evans DS, Evans MK, Lange LA, Leong A, Liu J, Liu Y, Nayak U, Patel SR, Porneala BC, Rasmussen-Torvik LJ, Snijder MB, Stallings SC, Tanaka T, Yanek LR, Zhao W, Becker DM, Bielak LF, Biggs ML,

Bottinger EP, Bowden DW, Chen G, Correa A, Couper DJ, Crawford DC, Eicher JD, Fornage M, Franceschini N, Fu YP, Goodarzi MO, Gottesman O, Hara K, Harris TB, Jensen RA, Johnson AD, Jhun MA, Karter AJ, Keller MF, Kho AN, Kizer JR, Krauss RM, Langefeld CD, Li X, Liang J, Liu S, Lowe WL Jr, Mosley TH, North KE, Pacheco JA, Peyser PA, Patrick AL, Rice KM, Selvin E, Sims M, Smith JA, Tajuddin SM, Vaidya D, Wren MP, Yao J, Zhu X, Ziegler JT, Zmuda JM, Zonderman AB, Zwinderman HA, AAAG Consortium; CARE Consortium; COGGENT-BP Consortium; eMERGE Consortium; MEDIA Consortium, Adeyemo A, Boerwinkle E, Ferrucci L, Hayes MG, Kardina SL, Miljkovic I, Pankow JS, Rotimi CN, Sale MM, Wagenknecht LE, Arnett DK, Chen YD, Nalls MA, MAGIC Consortium, Province MA, Kao WH, Siscovick DS, Psaty BM, Wilson JG, Loos RJ, Dupuis J, Rich SS, Florez JG, Rotter JI, Morris AP, Meigs J. Trans-ethnic Meta-analysis and Functional Annotation Illuminates the Genetic Architecture of Fasting Glucose and Insulin. *Am J Hum Genet* 2016 Jul 7;99(1):56-75. doi: 10.1016/j.ajhg.2016.05.006 PMID: 27321945

Howard G, Moy CS, Howard VJ, McClure LA, Kleindorfer DO, Kissela BM, Judd SE, Unverzagt FW, Soliman EX, Safford MM, **Cushman M**, Flaherty ML, Wadley VG for the REGARDS Investigators. Where to Focus Efforts to Reduce the Black-White Disparity in Stroke Mortality: Incidence Versus Case Fatality? *Stroke* 2016 Jul;47(7):1893-8. doi: 10.1161/STROKEAHA.115.012631. PMID: 27256672

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