

Curriculum Vitae
MICHAEL RUTLEDGE DeBAUN, M.D., M.P.H.

Date: February 21, 2014

Personal Information:

Sex: Male
Date of birth: March 1, 1960
Place of birth: St. Louis, MO

Citizenship: United States

Address and Telephone Number:

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Education:

1982 B.S., (Chemistry), magna cum laude, Howard University
1987 M.D., Stanford University
1987 M.S., Stanford University (Health Services Research)
1993 M.P.H., Epidemiology, The Johns Hopkins University School of Hygiene and Public Health
1987-1990 Pediatric Resident, St. Louis Children's Hospital, Washington University School of Medicine, St. Louis, MO
1990-1993 Pediatric Hematology-Oncology Fellow, St. Louis Children's Hospital, Washington University School of Medicine, St. Louis, MO
1991-1992 Pediatric Chief Resident, St. Louis Children's Hospital, Washington University School of Medicine, St. Louis, MO
1992-1996 United States Public Health Service Epidemiology Fellowship, National Cancer Institute, National Institutes of Health, Bethesda, MD

Academic Positions/Employment:

1996-2003 Assistant Professor of Pediatrics (Hematology/Oncology), Washington University School of Medicine, St. Louis, MO
1998-2003 Assistant Professor of Biostatistics, Washington University, St. Louis, MO
2003-2007 Associate Professor of Pediatrics, Washington University School of Medicine, St. Louis, MO
2003-2007 Associate Professor of Biostatistics, Washington University School of Medicine, St. Louis, MO
2005-2007 Associate Professor of Neurology, Washington University School of Medicine, St. Louis, MO

- 2007-2010 Professor of Pediatrics, Biostatistics and Neurology, Washington University School of Medicine, St. Louis, MO
- 2008-2010 Ferring Family Chair in Pediatrics, Washington University School of Medicine, St. Louis, MO
- 2009-2010 Guest Researcher with the Centers for Disease Control's Division of Blood Disorders and Office of Public Health Genomics, Centers for Disease Control and Prevention, Atlanta, GA
- 2010- Professor of Pediatrics and Medicine, Vanderbilt University School of Medicine, Vice Chair of Clinical Research, Department of Pediatrics, Vanderbilt, Nashville, TN
- 2010- Director of the Vanderbilt-Meharry-Matthew Walker Center of Excellence in Sickle Cell Disease, Nashville, TN
- 2011- JC Peterson Chair in Pediatric Pulmonology, Vanderbilt, Nashville, TN

University and Hospital Appointments and Committees:

- 1996-1998 Physician Leader (Manager), 9W Hematology-Oncology Service, St. Louis Children's Hospital, BJC
- 1996-1998 Clinical Director, Department of Pediatrics, Division of Hematology-Oncology, St. Louis Children's Hospital, Washington University School of Medicine
- 1997-2002 Medical Director, Pediatric Hospice Program, Barnes-Jewish-Christian Hospitals
- 1999-2002 Advisory Committee Member, Washington University School of Medicine, General Clinical Research Center
- 1996-2003 Department of Pediatrics, Washington University School of Medicine Residency Selection Committee
- 2002-2003 Associate Director, Doris Duke Medical Student Fellowship Program at Washington University School of Medicine
- 2003-2010 Director, Doris Duke Medical Student Fellowship Program at Washington University School of Medicine
- 2003-2010 Co-Leader, Patient-Oriented Research Unit, Department of Pediatrics, Washington University School of Medicine
- 2004-2004 Acting Division Director for Genetics, Department of Pediatrics, Washington University School of Medicine
- 2006-2009 Member, Data and Safety Monitoring Board (DSMB) for Pulmonary, National Heart, Lung and Blood Institute, National Institutes of Health
- 2007-2010 Advisory Committee Member, K12/K30/T32 Multidisciplinary Advisory Committee, Washington University School of Medicine
- 2007-2010 Executive Committee, Pediatric PI, Clinical and Translational Science Training Program, Washington University School of Medicine
- 2012 Associate Director, VICTR CRC, Vanderbilt University Medical Center

Medical Licensure and Board Certification

- 1987 Diplomate National Board of Medical Examiners, #345623
- 1990 Missouri License, #R6P35
- 1992 Maryland License, #42942 (non-active)
- 1992 Diplomate American Board of Pediatrics, #48654, re-certification, 2008
- 1994 Diplomate American Board of Pediatric Hematology/Oncology, #1086, re-certification 2009
- 2010 Tennessee License, #MD0000047141

Howard University Awards

- 1978-1982 Howard University Presidential Scholarship, full scholarship (tuition, room, board)

1982 Phi Beta Kappa, Howard University

Stanford University School of Medicine Awards

1983 Medical Scholars recipient, Stanford University
1986 Peter Emge Traveling Scholars recipient, Stanford University

Washington University School of Medicine and University Awards

1991 Pediatric Resident/Fellow Teacher of the Year, Washington University School of Medicine
1996 Harvey Colten Achievement Award, Washington University School of Medicine, Department of Pediatrics
2002 Humanism in Medicine Award, Washington University School of Medicine
2003, 2008 Clinical Teacher of the Year Award, Washington University School of Medicine, Department of Pediatrics
2004 Advocacy Award, American Society of Hematology
2006 Washington University School of Medicine Alumni Association (Annual funding for medical student scholarship in honor of esteemed faculty) - Michael DeBaun Scholar
2009 Distinguished Faculty Award - Daniel P. Schuster Award for Distinguished Work in Clinical and Translational Science Washington University School of Medicine
2009 Distinguished Faculty Award, Founders Day, Washington University School of Medicine

Vanderbilt University School of Medicine Awards

2012 Distinguished Martin Luther King Jr. Faculty Award, Vanderbilt University

National Awards

1987 National Medical Fellowships, Inc., Henry J. Kaiser Family Foundation Merit Scholar
2008 National Medical Association Scroll of Merit Award

National Competitive Investigator Awards

1996-2000 Robert Wood Johnson Minority Faculty Development Award
1999-2004 Doris Duke Clinical Scientist Development Award
2007-2014 Burroughs Wellcome Translational Research Award

Elected Professional Societies

1998 Society for Pediatric Research
2006 American Society for Clinical Investigation
2008 Association of American Physicians
2008 American Pediatric Society
2009 Institute of Medicine, National Academy of Sciences
2011 American Association for the Advancement of Science

Community-Based Awards

1999 St. Louis American – Excellence in Education, Annual Awards Banquet
2001 National Diversity Outreach Award, American Red Cross
2004 Backer Memorial Alumni Award, St. Louis University High School
2004 Community Health Award, 19th Annual Unity Ball, Better Family Life, Inc.

Professional Societies, Organizations and National Committees

1988- Fellow, American Academy of Pediatrics
1993- Member, Pediatric Oncology Group (POG), (Site Principal Investigator 1996-

- 1997- 2010 1999), now referred to as Children's Oncology Group (COG)
Genetic Disease Advisory Committee and Sickle Cell Standing Committee, State of Missouri
- 1999-2004 Sickle Cell Disease Association of America (National Board Member)
- 1999-2006 American Red Cross Missouri-Illinois Region (Board Member)
- 1999-2001 Scientific Advisory Board, Consultant, United States Environmental Protection Agency, Cancer Guidelines Subcommittee
- 2001-2002 Environmental Health Committee, United States Environmental Protection Agency, Science Advisory Board
- 2001-2004 American College of Medical Genetics, Newborn Screening Expert Group
- 2002 2004 Executive Committee of the Section of Epidemiology, American Academy of Pediatrics
- 2002-2003 March of Dimes Greater Missouri Chapter (Board Member)
- 2003-2007 Sickle Cell Disease Advisory Committee, US Department of Health and Human Services, Public Health Service, National Institutes of Health
- 2006 Renal Tumor Committee Member, Children's Oncology Group (COG)
- 2006 American Society for Clinical Investigation
- 2010 Accelerating Rare Diseases Research and Orphan Product Development, Institute of Medicine of the National Academy of Sciences
- 2010- NIH Advisory Board for Clinical Research, National Institutes of Health
- 2011 National Research Council, National Associate – lifetime appointment

American Society of Hematology (ASH)

- 2004-2007 Clinical Research Training Institute (CRTI), Faculty
- 2007-2008 Clinical Research Training Institute (CRTI), Study Section
- 2007-2009 Clinical Research Training Institute (CRTI), Co-Director
- 2007-2010 Clinical Research Training Institute (CRTI) Oversight Subcommittee, Appointed Member
- 2011-2014 ASH, Committee on Promoting Diversity, Chairperson - Committee responsible for research scholarship and mentored experiences for underrepresented minorities in medical school and post-doctoral fellowships
- 2011-2014 ASH, Executive Committee, Ad Hoc Member

ASH Clinical Research Training Institute (CRTI) Sponsor

- Allison King, MD, MPH – Assistant Professor, Washington University School of Medicine (2005)
- Joshua Field, MD, MS – Associate Investigator, Blood Center of Wisconsin, Assistant Professor, Medical College of Wisconsin (2006)
- Melissa Frei-Jones, MD, MSCI – Assistant Professor of Pediatrics, University of Texas, San Antonio, School of Medicine (2009)
- Jeffrey Lebensburger, DO – Assistant Professor, University of Alabama at Birmingham (2010)
- Allison Paroskie, MD – Laboratory Medicine Fellow, Vanderbilt University School of Medicine (2013)

Major Invited Lectureships

1. DeBaun MR: *Screening for Wilms' tumor in children at risk for congenital syndromes: A cost-effective model.* Second International Conference on Childhood Renal Tumors, Philadelphia, PA; May, 1995.

2. DeBaun, MR: *Screening for cancer in Beckwith Wiedemann Syndrome: What can we learn from genotype/phenotype*. 84th Clinical Congress of the American College of Surgeons, Orlando, FL; October 25-30, 1998.
3. DeBaun MR: *Transfusion therapy for patients with sickle cell disease*. American Association of Blood Banks (AABB) Immunohematology Reference Laboratory Conference, St. Louis, MO; May 14-16, 1999.
4. DeBaun, MR: *A program for informed consent; patient and investigator education*, Sickle Cell Disease Association of America, 28th Annual Convention, Greensboro, NC, September 29, 2000.
5. DeBaun, MR: *Increasing the African-American and Latino blood donor pool*, Sickle Cell Disease Association of America, 28th Annual Convention, Greensboro, NC, September 29, 2000.
6. DeBaun, MR: *Genetic epidemiology of Beckwith Wiedemann Syndrome*, American College of Medical Genetics, Annual Clinical Genetics Meeting, Miami, FL, March 2001.
7. DeBaun, MR: *Primary and secondary prevention of strokes in sickle cell disease: separating fact from fiction*. British Society for Haematology, 41st Annual Scientific Meeting, Harrogate, United Kingdom, April 2001.
8. DeBaun MR, Zehnbauser B: *Clinical issues and genotype/phenotype correlations in Beckwith-Weidemann Syndrome*. Association for Molecular Pathology Annual Meeting, Dallas, TX, November 2002.
9. DeBaun, MR: *Impact of silent infarcts on cognitive and prognosis in children with sickle cell disease*. American Stroke Association, International Stroke Conference, San Diego, February 2004.
10. DeBaun, MR: *Epigenetic risks of assisted reproductive technology (ART): Cause for Concern?* American College of Medical Genetics, Kissimmee, FL, March 2004.
11. DeBaun, MR: *A community education program designed to educate and increase the number of blood donors & community involvement in blood donation*. 2nd National Blood Safety Symposium, Xiamen, China, April 2004.
12. DeBaun, MR: *The evidence for and against the association between in vitro fertilization and congenital malformation syndromes*. Gordon Conference on Mammalian Gametogenesis & Embryogenesis, New London, CT, June 2004.
13. DeBaun, MR: *Silent strokes in sickle cell anemia*. American Association of Blood Banks Annual Meeting, Baltimore, MD, October, 2004.
14. DeBaun MR: *Epidemiology and treatment of silent cerebral infarcts in sickle cell disease*, San Diego, CA, American Society of Hematology Education Series, December 2004.
15. DeBaun MR: *Epidemiology and treatment of silent strokes in sickle cell anemia*. Tropical Medicine Research Institute, The University of the West Indies, Mona Campus, Kingston, Jamaica, March, 2005.
16. DeBaun MR: *Epidemiology and treatment of silent strokes in sickle cell anemia*. Roland B Scott Plenary Lecture at the 28th Annual National Sickle Cell Disease Program Meeting, Cincinnati, Ohio USA, April 2005.
17. DeBaun MR: *Silent strokes in sickle cell disease. Vasculopathie cérébrale et drépanocytose. Actualités en 2006*, Paris, France, July 3, 2006.
18. DeBaun MR. *The progression of research from bedside to computer to bench: asthma increase sickle cell disease related morbidity and mortality*. NIH sponsored Fourth Annual Clinical Investigator Student Trainee (CIST) Forum, Bethesda, MD, November 1-3, 2006.
19. DeBaun MR. *The contribution of asthma to sickle cell disease related morbidity and mortality*. 12th Congress of the European Hematology Association-Education Session, Vienna, Austria, June 2007.

20. DeBaun MR. *Neurological Complications in Adults with Sickle Cell Disease*. National Medical Association, Internal Medicine Section, Honolulu, Hawaii, August 9, 2007.
21. DeBaun MR. *How to apply unexpected study results to clinical practice*. 49th ASH Annual Meeting and Exposition, Atlanta, Georgia, December 8 – 11, 2007.
22. DeBaun MR. *What do physicians, insurers, and consumers need to know about hydroxyurea for appropriate utilization? The Pediatrician's Perspective*. NIH Consensus Development Conference: Hydroxyurea Treatment for Sickle Cell Disease, Bethesda, MD, February 25-27, 2008.
23. DeBaun MR. *Reverse translational research: The association between asthma and sickle cell disease morbidity*. Pediatric Biomedical and Translational Research Seminar Series at the University of Rochester Medical Center, Rochester, NY, June 23-24, 2008.
24. DeBaun MR. *Cerebrovascular complications in SCD – silent infarcts and SIT trial*. Advanced Sickle Cell Workshop, King's College London/Denmark Hill Campus, London, June 26-27, 2008.
25. DeBaun MR. *Lung disease and sickle cell disease, and limitations of clinical trials, and how to establish clinical research networks (three separate lectures)*. Annual Sickle Cell Disease and Thalassemia Course, St. Thomas's Hospital, London September 22-26th, 2008.
26. Field, J, DeBaun MR. *Asthma and sickle cell disease: two distinct diseases or part of the same process?* 51th ASH Annual Meeting and Exposition, New Orleans, Louisiana December 4 – 8, 2009.
27. DeBaun, MR, Robert Woods Johnson, Harold Amos Medical Faculty Development Twenty-Seventh Annual Meeting. Ed Hook Memorial lecturer. *Academic Activism: The Academic Activism: The Interface Between Responsibility and Investigation*. October 11, 2010
28. DeBaun MR. *The Triumphs and Challenges of the Study of Sickle Cell Disease in infants, children and adolescents*. *James B. Herrick Symposium: Sickle Cell Disease Care and Research – Past, Present, and Future*. National Institutes of Health, Bethesda, Maryland November 16-17, 2010.
29. DeBaun MR. *Creating Infrastructure for Rare Disease Research and Product Development*. Accelerating Research and Product Development for Rare Diseases, Colorado Convention Center, Denver Colorado, May 1, 2011.
30. DeBaun MR. *Academic Activism for Sickle Cell Disease: the intersection between service, research and civic responsibility*. Charles F. Whitten Memorial Lecture at the 39th Annual National Sickle Cell Disease Program Meeting, Memphis TN, September 2011.
31. DeBaun MR. *Stroke Prophylaxis, Transfusions and Iron Overload Education Program: Recent High-Impact Clinical Trials in Sickle Cell Disease: Where Do They Leave the Field?* 53rd ASH Annual Meeting and Exposition, San Diego, California, December 10-13, 2011.
32. DeBaun MR. *The Triumphs and Challenges of the Study of Sickle Cell Disease in Infants, Children and Adolescents*. National Medical Association, 2012 Pediatric Section, Roland B. Scott, MD, Lecturer, New Orleans, LA, August 2012.
33. DeBaun MR. *Acute and chronic lung disorder in SCD: an evolving phenomenon?* Annual Sickle Cell and Thalassemia: Advanced Conference, London, UK, September 2012.

Invited Professorships

1. DeBaun MR. *From bedside to bench back to bedside: A case study of Beckwith Wiedemann Syndrome*. 2nd Annual David and Beverly Lipman Lectureship for Child Health Research, Oregon Health & Science University and Doernbecher Children's Hospital, Portland Oregon, October, 2006.
2. DeBaun MR. *The contribution of asthma to sickle cell disease related morbidity and mortality*, James B. Sidbury Series Lectureship, Duke University, Durham, NC, May 2007.
3. DeBaun MR. *Reverse translational research: the relationship between asthma and sickle cell disease related morbidity and mortality*. Coopersmith Visiting Professorship, Johns

Hopkins School of Medicine, November 2008.

4. DeBaun MR. *The Epidemiology and Treatment of Silent Cerebral Infarcts in Sickle Cell Disease*. Martin Luther King, Jr. Commemorative Lecture. Vanderbilt Kennedy Center for Research on Human Development, January 2010.
5. DeBaun MR. *From Classroom to Bedside and Back: Silent Strokes and Sickle Cell Disease*. The First Annual Saburo Hara, M.D. Memorial Lecture. Meharry Medical College, August 2010.
6. DeBaun MR. (three lectures) 1) *Asthma and sickle cell disease: the case for reverse translational research*; 2) *From Bedside to Bench Back to Bedside: A case study of Beckwith Wiedemann* 3) *From Classroom to Bedside and Back: Silent Strokes and Sickle Cell Disease*. Paul M. Aggeler Memorial Lecture. University of California San Francisco, October 2010.
7. DeBaun MR. (four lectures)-1) *Moving The Clinical Research Laboratory From the Halls to the Community: The Charles Drew Blood Donor Program*; 2) *Steps for Starting a Clinical Research Laboratory: From Residency to Fellowship to Faculty*; 3) *From Classroom to Bedside and Back: Silent Strokes and Sickle Cell Disease*; and 4) *Academic Activism: The Interface Between Responsibility and Investigation*. Diversity Visiting Professorship Program in the Department of Medicine, Johns Hopkins School of Medicine, November 2010.

Research Support:

Federal Governmental – Active

5R01-HL079937-07 (Multi PI: DeBaun/Strunk) 08/10/2011 – 07/31/2014 0.60 cal. month
NHLBI \$1,996,000 direct cost 5%

Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia II

The overall goal of this project is to elucidate the physiologic, genetic, and molecular aspects of two common co-morbid conditions, asthma and nocturnal oxygen desaturation, that increase the incidence rate of pain in sickle cell anemia.

VUMC 37678 (PI: DeBaun) 02/01/2011 – 01/31/2013 3.0 cal. months
CDC \$83,100 10%

The overall goal of this trail is to provide consultative service for blood disorders at the CDC.

5U38MC22220-02-02 (PI: DeBaun) 06/01/2011 – 05/31/2015 0.90 cal. months
HRSA \$1, 400,000 direct cost 10%

Middle Tennessee Sickle Cell Network for Coordinated Health Care and Education

The overall goal of this project is to provide a medical home for infants, children and adults with SCD that is culturally competent and community based.

1R21NS080639-01 (Multi PI: DeBaun) 09/30/2012 – 08/31/2014 0.90 cal months
NIH/UNKWN \$100,000 4%

Primary Prevention of Strokes in Nigerian Children with Sickle Cell Disease

The major goals of this study are 1) to determine the feasibility and acceptability of randomization to HU vs. placebo for primary prevention of strokes in children with sickle cell anemia (SCA) in preparation for a NIH-sponsored multicenter, Phase III trial, 2) to establish a safety protocol for using HU in a clinical trial setting for one year in a low income country for primary prevention of strokes, and 3) to complete the necessary preparations for a definitive Phase III trial.

5R34 HL108756-02 (Multi PI: Casella/DeBaun) 09/01/2011 – 07/31/2013 0.48 cal. months
NIH/NHLBI/Sub with Johns Hopkins \$450,000 direct cost 4%

Hydroxyurea to Prevent CNS Complications of Sickle Cell Disease in Children

The primary purpose of this trial is to determine the acceptability of randomization to HU vs. placebo for primary prevention of CNS complications of SCD in preparation for a NIH multicenter, phase III Trial. Also To determine the safety of MRI with sedation among infants and children with SCD using a standard protocol and complete the necessary preparations for a definitive phase III trial.

2UL1TR000445-06 (PI: Bernard) 06/27/2012 – 05/31/2017 0.60 cal. months
NIH/NCATS \$6,986,576 5%

The Vanderbilt Institute for Clinical and Translational Research (VICTR)

The major goals of VICTR are removing impediments to research translation, creating new infrastructure, training new C&T scientists, and engaging and involving the local community to improve health.

Role: Associate PD CRRF and Peds Director

1U10NS077318-01 (PI: Malow) 09/30/2011 – 08/31/2013 0.54 cal. months
NIH/NINDS \$200,000 4 %

Vanderbilt Site for Network of Excellence in Neuroscience Clinical Trials

The major goal of this program is to establish a Vanderbilt neuroscience clinical trials network site that is uniquely positioned to translate neuroscience advances into clinical practice through the conduct of exploratory and innovative clinical trials.

Role: Co-Investigator

1R01HL111656-01A1 (PI: Machado) 12/01/2012 – 11/30/2017 1.20 cal. months
NIH/NHLBI Sub with Univ. of Illinois \$68,205 10%

Vascular-targeted Genomic and Genetic Strategies for Acute Chest Syndrome

In Specific Aim #1 we will identify novel single nucleotide polymorphisms that modulate ACS susceptibility and generate an ACS risk-conferring SNP panel. Specific Aim #2 will refine and validate genome-wide, vascular-centric genomic /genetic signatures of ACS risk in SCD patients. In Specific Aim #3 we will interrogate the involvement of vascular permeability-regulatory pathway genes and proteins in murine ACS and ALI. Together, these highly translational approaches hold the promise to identify novel targets and biomarkers that may lead to better treatment options for patients with ACS.

Role: Co-Investigator

1R21HD075005-01 (PI: Compas) 09/01/2012 – 08/31/2014 0.60 cal. months
NIH/NICHHD \$150,000 2%

Stress, Parenting and Cognitive Function in Children with Sickle Cell Disease

This study will examine factors that are associated with increased risk for neurocognitive problems in children with sickle cell disease. Disease-related factors, such as history of stroke and anemia, will be examined along with the role of parenting behaviors in children's cognitive development. Findings may be useful in developing ways to help parents of children with sickle cell disease to support stronger cognitive development in their children.

Role: Co-Investigator

1U01HL117721-01 (PI: Joiner, DeBaun, Ofori-Acquah) 08/15/2013 – 05/31/2018 1.80 cal. months
NIH/ NHLBI sub with Emory \$36,190 15%

Cellular and Molecular Mechanisms of Acute Lung Injury in Sickle Cell Disease

We will determine whether genetic variants of the pathways involved in the degradation of heme is associated with an increased or decreased incidence in the SIT Trial cohort. We will also confirm our findings in the Sleep and Asthma Cohort. Both of which are ongoing NIH funded studies, with Dr. DeBaun being the PI.

1R01FD004117-01A1 (Multi-PI: DeBaun/Field) 11/01/2013 – 10/31/2017 1.20 cal. months
FDA \$297,237 10%

Phase 2 Study of Montelukast for the Treatment of Sickle Cell Anemia

This study proposes a phase II feasibility trial to add a second drug to hydroxyurea, montelukast, to determine if it can effectively prevent the occlusion of blood vessels in individuals with sickle cell disease. If successful, we will propose a larger phase III clinical trial that will be the first additive therapy for the prevention of pain in sickle cell disease.

R-1306-04869 (PI: Rothman) 01/01/2014 – 12/31/2016 1.20 cal. months
Patient-Centered Outcomes Research Institute \$1,909,319 10%
The Mid-South Clinical Data Research Network

The PCORI CDRN will allow us to: 1) expand our data research network from our existing network to our broader VHAN which will include 32 hospitals and over 500 ambulatory practices covering over 3 million lives in the mid-South; 2) expand our data research network to include Greenway, which includes over 24 million lives; 3) expand and optimize patient facing tools for direct collection of patient related data, including attitudes, behaviors, satisfaction, quality, adverse events, and outcomes; and, 4) improve our current tools for creating data integration and interoperability between the network's hospitals and ambulatory practices.

Role: Co-Investigator

Federal Governmental - Completed

Institutional Investigator 8/1/96 – 3/31/99, "Cooperative Study of Sickle Cell Disease",
4/1/94 – 3/31/99, NO1-HB47099, \$287,750 direct cost.

Institutional Investigator, "Pediatric Oncology Group",
8/1/96 – 12/31/00, NIH/NCI, 5-U10-CA05587, \$285,381 direct cost.

Co-Investigator, "Mechanisms of Growth and the Overgrowth Syndromes", PPG, Project 3,
5/15/01 – 4/30/06, NIH-NICHHD \$700,000 direct cost

Principal Investigator, "Increasing Blood and Cord Blood Donations in Blacks", R01-DK062619,
9/20/02 – 6/30/08 (no cost extension), NIH-NIDDK; \$702,297 direct cost

Principal Investigator, 2009 Clinical Research Training Institute Summer Workshop, 2009, NIH-
NHLBI, NCI, NIDDK 1R13HL097393-01, \$42,000 direct cost

Principal Investigator, "Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia", RO1-
HL079937; 08/25/05 – 06/30/10, NIH/NHLBI, \$6,119,009 direct cost.

Co-Investigator (Andrew Feinberg, PI), "BWS and Embryonal Tumor Suppressor Genes on
11p15", R37-CA54358, 5/1/05 – 4/30/10, NIH-NCI, \$15,000 direct cost

Co-Investigator (Kenneth Polonsky, PI), "Clinical and Translational Science Training Program",
U54-RR023496, 9/1/07 – 8/31/12, NIH, \$157,153 direct cost

Co-Investigator (Evan Sadler, PI), "Clinical Hematology Research Career Development Program at Washington University", K12-HL087107, 09/28/06 – 08/31/11, NIH (salary only)
Principal Investigator, "Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia", RO1-HL079937; 08/25/05 – 06/30/10, NIH/NHLBI, \$6,119,009 direct cost.

Co-Investigator (Andrew Feinberg, PI), "BWS and Embryonal Tumor Suppressor Genes on 11p15", R37-CA54358, 5/1/05 – 4/30/10, NIH-NCI, \$15,000 direct cost

Co-Investigator (Kenneth Polonsky, PI), "Clinical and Translational Science Training Program", U54-RR023496, 9/1/07 – 8/31/12, NIH, \$157,153 direct cost

Co-Investigator (Evan Sadler, PI), "Clinical Hematology Research Career Development Program at Washington University", K12-HL087107, 09/28/06 – 08/31/11, NIH (salary only)

Principal Investigator (transferred to Dr. Alison King 11/1/10, currently consultant), "Neuroprotection Feasibility Trial in Infants with Sickle Cell Disease", 6/1/2010 – 5/31/2012, Barnes Jewish Hospital Foundation/Clinical Translational Research Grant Program, \$150,000 direct cost.

Principal Investigator, "Silent Cerebral Infarct Multi-Center Clinical Trial", 3U01NS042804-06S1, (Supplement to parent grant) 9/15/09 – 8/31/11, NIH- NINDS, \$1,571,661 direct cost.

Principal Investigator, "Silent Cerebral Infarct Multi-Center Clinical Trial", 5U01-NS042804-07, 12/01/2010 – 11/30/2013 (NCE), NINDS/Vanderbilt subcontract, \$17,641,289 direct cost.

Non-Federal Governmental – Active

Principal Investigator, "Cysteinyl Leukotrienes Receptor Inhibitors: A Target for Decreasing Sickle Cell Disease-Related Morbidity," 7/1/07 – 6/30/16, Burroughs Wellcome Foundation, \$750,000 direct cost

Principal Investigator, "Sickle Cell and Asthma Center at Matthew Walker," 07/01/2012 – 06/30/2017, Junior League of Nashville, \$1,500,000 direct cost

Multi-Principal Investigator, "The Clinical and Translational Research Training Center in Northern Nigeria," 01/01/2013 – 12/31/2014, Doris Duke Charitable Foundation, \$100,000 direct cost

Non Federal Governmental – Completed

Program Leader, "Clinical Research Fellowship Program for Medical Students", Doris Duke Charitable Foundation, 12/15/00 – 6/30/05 - \$625,000 direct cost; 7/1/05 – 6/30/09 - \$520,000 direct cost.

Principal Investigator, "The Utility of Diffusion Tensor Imaging Technique to Identify Cerebral Ischemia in Children with Sickle Cell Disease", 11/1/01 – 10/31/04, Dana Foundation, \$100,000 direct cost.

Principal Investigator, "Screening for Silent Stroke in Sickle Cell Disease", 7/1/99 – 6/30/05, Doris Duke Charitable Foundation, \$500,000 direct cost.

Principal Investigator, "The Genetic Epidemiology of Shwachman Diamond Syndrome",
11/1/98 – 10/31/99, American Cancer Society, \$15,000 direct cost.

Principal Investigator, "Genetic Epidemiology of Beckwith Wiedemann Syndrome",
8/1/96 – 7/31/98, Robert Wood Johnson Foundation, \$100,000 direct cost.

Principal Investigator, "The Natural History of Strokes in Sickle Cell Disease",
8/1/98 – 7/31/00, Robert Wood Johnson Foundation, \$100,000 direct cost.

Principal Investigator, "The Genetic Epidemiology of Simpson Golabi Behmel Syndrome",
6/1/99 – 5/31/01, Washington University Cancer Center, \$50,000 direct cost.

Principal Investigator, "Increasing Education Attainment in Children with Chronic Illness: A Pilot
Program for Children with Sickle Cell Disease",
7/1/99 – 6/30/01, St. Louis Community Foundation, \$100,000 direct cost.

Principal Investigator, "Sickle Cell Disease Rehabilitation",
7/1/00 – 6/15/03, Norma J. Stupp Foundation, \$30,000 direct cost.

Principal Investigator, "Education of African Americans About Sickle Cell Disease",
1/1/01 – 12/31/02, The Whitaker Foundation, \$157,000 direct cost.

Principal Investigator, "Educational Rehabilitation in Children with Strokes and Sickle Cell
Disease", 6/1/02 – 5/31/03, Group Health Foundation, \$33,000 direct cost.

Principal Investigator, "Hemoglobinopathy (Sickle Cell) Resource Center",
11/1/02– 06/30/07, State of Missouri, Department of Health and Human Services, \$114,800
direct cost.

Program Leader, "Clinical Research Fellowship Program for Medical Students",
Doris Duke Charitable Foundation, 1/1/08 – 6/30/11 - \$600,000

Principal Investigator, "The St. Louis Hemoglobinopathy Resource Center: Region 3"
7/1/06 – 06/30/11 State of Missouri, Department of Health and Human Services, \$416,800
direct cost

Principal Investigator, "Medical Services for Newborns and Children with Sickling
Hemoglobinopathies", 07/01/01 – 06/30/11, Illinois Department of Public Health, \$49,600 direct
cost

Clinical Title and Responsibilities:

Title: Director of the Vanderbilt-Meharry-Matthew Walker Center of Excellence in
Sickle Cell Disease, Nashville, TN

Title: Pediatrician, Monroe Carell, Jr. Children's Hospital at Vanderbilt, Nashville, TN
(Hematology/Oncology Service; General Pediatrics Service)

Teaching Title and Responsibilities:

- 2010 - Professor of Pediatrics and Medicine, Vanderbilt University School of Medicine, Nashville, TN
- 2010- Vice Chair of Clinical Research, Department of Pediatrics, Vanderbilt, Nashville, TN
- 2011- JC Peterson Endowed Chair in Pediatrics, Vanderbilt, Nashville, TN
- 2007-2010 Professor of Pediatrics, Biostatistics and Neurology, Washington University School of Medicine, St. Louis, MO
- 1996-2010 Attending Physician, St. Louis Children's Hospital, St. Louis, MO (Hematology/Oncology Service; General Pediatrics Service)
- 2002-2010 Director, Doris Duke Medical Student Fellowship Program at Washington University School of Medicine
- 1999-2010 Course-Master, Clinical Epidemiology, Graduate Student Course, St. Louis University School of Public Health
- 2004-2006 Lecture and small group leader, mentor American Society of Hematology, Clinical Research Training Institute, (one week intense workshop for fellows and junior faculty designed to initiate clinical and translational research studies).
- 2007-2009 Clinical Research Training Institute (CRTI), Co-Director, American Society of Hematology, Clinical Research Training Institute. , (one week intense workshop for fellows and junior faculty designed to initiate clinical and translational research studies).
- 2002-2010 Program Director, The Ferring Scholars program- a three year program designed for high school students who are interested in careers in health care or biomedical research. The goal of the program is to provide participants with an in-depth and rigorous, mentored research experience throughout high school, in preparation for continued research experience in college and eventually graduate school. Participants work closely with a carefully selected faculty member at Washington University School of Medicine to develop and conduct independent research projects.
- 2005 CME-Course Coordinator, Update on Methods for Successful Clinical Trials in Children with a Focus on Neurological Trials, Washington University School of Medicine, The Westin, St. Louis, MO
- 2008, 2009 Co-Director American Society of Hematology, Clinical Research Training Institute, (one year program designed for fellows and junior faculty to initiate clinical and translational research studies; with a one week workshop designed to initiate clinical and translational research studies and ongoing mentorship for 12 months).
- Mentoring:** Pre-doctoral Students
- 1992-1996 Jeff Schatz, Ph.D.

Current Position: Associate Professor, Department of Psychology, University of South Carolina, Columbia, SC

2001-2003 Jessica (Henderson) Boyd, MD, MA, MPH
M.D./M.A. Program, Washington University School of Medicine, St. Louis, MO
Doris Duke Clinical Research Fellow-Washington University School of Medicine

Mary McLeod Bethune Award 2002
Awarded to the minority graduate student with the excellent achievement in scholarship, leadership, and community service

Dr. Richard S. Brookings Medical School Prize, 2003
Awarded to the medical student with the most outstanding research during medical school.

George F. Gill Prize in Pediatrics, 2003
Awarded to the medical student who has demonstrated superior scholarship in pediatrics.

Current Position: Pediatric Pulmonologist, Private Practice, Maryland

2003-2004 Michael F. Wangler, MD, MS
Doris Duke Clinical Research Fellow, Washington University School of Medicine, St. Louis, MO
Current Position: Assistant Professor of Molecular and Human Genetics, Baylor College of Medicine

2004-2005 Jeffrey Glassberg, MD, MA
Doris Duke Clinical Research Fellow, Washington University School of Medicine, St. Louis, MO
Current Position: Assistant Professor, Emergency Medicine, Mount Sinai Medical Center

2004, 2005 Erika N. Heard, MD
2005 BioMed RAP, Biomedical Research Apprenticeship Program, Washington University, St. Louis, MO
Current Position: Rheumatologist, Private Practice, Atlanta, GA

2006-2007 Jeanine E. Jennings, MD
Doris Duke Clinical Research Fellow, Washington University School of Medicine, St. Louis, MO
Current Position: Pediatrician, Private Practice, Cincinnati OH

2007 James Krings, BS (college summer student, undergraduate Notre Dame)
Worked summer in my laboratory
Current Position: Medical Student, Stanford University

2007 Michael Brown, BS (college summer student, undergraduate, Marquette)
Worked summer in my laboratory
Current Position: PhD candidate University of Chicago

- 2008, 2010 Margaret Reagan, BS (college summer student, undergraduate Notre Dame)
Worked two summers in my laboratory as research assistant, and one summer
as Co-director of Ferring Scholars Program (summer 2010)
Current Position: Medical Student, Saint Louis University School of Medicine
- 2008-2010 Niti Patel, PharmD (college summer student) continued to work on project.
Worked one full summer and as time permitted over the following three years.
Current Position: Foundation for Anesthesia Education and Research Fellow at
Massachusetts General Hospital; Medical Student, Rush University Medical
Center
- 2013-2014 Rachel Wolf, BA (Vanderbilt medical student participating in the Vanderbilt
Scholars Program)
Project: Determinants of Enuresis in Children with Sickle Cell Disease
Current Position: Vanderbilt Medical Scholars Program

Post-doctoral Students

- 1996-2001 Jeff Schatz, Ph.D.
Mentor, M. DeBaun
Current Position: Associate Professor, Department of Psychology, University
of South Carolina, Columbia, SC
- 1997-1999 Elizabeth Baorto, MD, MPH
Pediatric Infectious Disease Fellow, Washington University School of Medicine
Mentor. M. DeBaun

Current Position: Director of Infectious Disease, Morristown Hospital,
Morristown, NJ
- 2000-2004 Allison King, MD, MPH.
American Heart Association-Post Doctoral Fellowship (2003-2004)
Mentor M. DeBaun

Current Position: Assistant Professor, Department of Pediatrics,
Hematology/Oncology, Washington University School of Medicine, St. Louis,
MO
- 2001-2003 Lara Danziger-Isakov, MD, MPH
Position, Department of Pediatrics, Division of Infectious Disease, Washington
University School of Medicine training grant- Mechanisms of Childhood
Infection and Immunity (2001-2003)
Mentor M. DeBaun

Mentored Patient-Oriented Research Career Development Award - K23,
Advisory committee - M. DeBaun (2006-2011)

Current Position: Associate Professor, University of Cincinnati Department of
Pediatrics

- 2003-2007 Jessica (Henderson) Boyd, MD, MS
Position: Fellow, Department of Pediatrics, Division of Pulmonary, Washington University School of Medicine training grant - Cardiovascular Disease (2005-2007)
- Society of Pediatric Research - House Office Research Award (International competition for best research completed by pediatric resident during residency), mentor -M. DeBaun (2004, only)
- Current Position: Pediatric Pulmonologist, Private Practice, Maryland
- 2004-2006 Aarati Rao, MD
Position: Fellow Department of Pediatrics, Division of Hematology and Oncology, Washington University School of Medicine training grant
Mentor Michael DeBaun
- Current Position: Assistant Professor in Pediatrics, Seattle Children's Hospital and University of Washington
- 2004-2006 John Spivey, MD
Position: Fellow Department of Pediatric, Division of Allergy and Pulmonary Medicine, Washington University School of Medicine training grant - (2002-2004)
Mentor M. DeBaun
- Current Position: Pediatric Pulmonologist, Mercy Clinic Physician, St. Louis, MO, (private practice)
- 2004-2006 Monica Hulbert, MD
Position: Fellow Department of Pediatric, Division of Hematology and Oncology, Washington University School of Medicine training grant
Mentor. M. DeBaun
- Current Position, Assistant Professor of Pediatrics, Director, Pediatric Sickle Cell Disease Program, Washington University School of Medicine
- 2005-2009 Judith E. Lieu, MD
Position: Assistant Professor, Department of Otolaryngology, Washington University School of Medicine, St. Louis, MO
- Mentored Patient Oriented Research Career Award - K23, National Institute on Deafness and Other Communication Disorders, co-mentor, M. DeBaun
- Current Position: Associate Professor, Department of Otolaryngology– Head and Neck Surgery, Washington University School of Medicine, St. Louis, MO
- 2006-2008 Melissa Frei Jones, MD
Position: Fellow Department of Pediatric, Division of Hematology and Oncology, Washington University School of Medicine training grant - (2004-2006)

Mentored Patient Oriented Research Career Award – K30 Grant

UL1RR024992 - (09/17/2007 to 06/30/2008) Polonsky (PI)
TL1RR024995 - (09/17/2007 to 06/30/2008)

K30 RR022251 - (07/01/2006- 09/16/2007) Evanoff (PI)

Mentor, M. DeBaun (2006-2008)

Current Position: Associate Professor of Pediatrics
University of Texas Health Science Center

- 2007-2010 Joshua Field, MD, MS
Position: Assistant Professor, Department of Medicine, Division of Hematology

Clinical Hematology Research Career Development Program at Washington
University (J Evan Sadler PI) - K12
National Institute of Heart Lung and Blood, Mentor, M. DeBaun

Current Positions: Medical Director, Blood Center of Wisconsin
Medical Director, Adult Sickle Cell Clinic, Froedtert Hospital
Associate Professor of Medicine, Medical College of Wisconsin, Milwaukee, WI
- 2008-2010 Jennifer Horst, MD
Position- Post Doctoral Research Fellow, Department of Pediatrics
Burroughs Wellcome Foundation
Mentor M. DeBaun

Current Position: Pediatric Resident Department of Pediatrics, Washington
University School of Medicine, St. Louis, MO
- 2011-2013 Allison Paroskie, MD
Current Position: Hematology Oncology Fellow, Department of Pediatrics,
Vanderbilt School of Medicine, NCI T32 grant support
Mentor M. DeBaun
- 2011-2014 Jeffrey Glassberg, MD, MA
Current Position: Assistant Professor, Emergency Medicine, Medicine,
Hematology and Medical Oncology, Mount Sinai Medical Center
NHLBI K12 institutional award – Mentor M. DeBaun
NHLBI K23 – Co Mentor M. DeBaun
- 2012 Aisha Galadanci, MBBS
Current Position: Resident Doctor/Senior Registrar, Aminu Kano Teaching
Hospital, Kano Nigeria
American Society of Hematology Visiting Scholars Program

Faculty Mentees

- 2005-2010 Julie A. Panepinto, MD, MSPH
Position Mentored Patient-Oriented Research Career Development Award – K23, Mentor M. DeBaun
- Current Position: Professor of Pediatrics, Hematology, Vice Chair of Value, Director, Center for Clinical Effectiveness Research Medical College of Wisconsin/The Children's Research Institute of the Children's Hospital of Wisconsin
- 2005-2011 Allison King, MD, MPH.
Current Position: Assistant Professor, Department of Pediatrics, Hematology/Oncology, Washington University School of Medicine, St. Louis, MO
- Doris Duke Clinical Scientist Award, primary mentor - M. DeBaun (2005-2008)
- Mentored Patient-Oriented Research Career Development Award - K23, National Institute of Heart, Lung, and Blood - mentor, M. DeBaun (2006-2011)
- American Society of Hematology Scholar Award
- Mentor M. DeBaun
- 2009-2012 Jose Pineda, MD
Position, Assistant Professor, Department of Pediatrics, Division of Critical Care Medicine
- Harold Amos Faculty Development Award
Robert Wood Johnson Foundation
Mentor, M. DeBaun (2009-2012)
- Current Position: Associate Professor, Department of Pediatrics and Neurology, Division of Critical Care Medicine, Director, Neurocritical Care Program, Washington University School of Medicine, St. Louis, MO
- 2010- Adetola Kassim, MD, MS
Associate Professor of Medicine (Hematology/Oncology)
Clinical Director, Sickle Cell Anemia Program
- 2011-2013 Lori Jordan, MD, PhD
Current Position: Assistant Professor of Neurology, Divisions of Pediatric Neurology and Stroke, Vanderbilt University School of Medicine
NINDS K23 – Primary mentor M. DeBaun (after transfer of award from Johns Hopkins)
- 2011-2016 Robert Sidonio, MD, MS
Current Position: Assistant Professor of Pediatrics, Department of Pediatrics

- Vanderbilt, Clinical and Translation Scientific Award (K12), Hemostasis and Thrombosis Research Society, Inc. (HTRS) 2014 Mentored Research Award, sponsored by Baxter Healthcare Corporation
Mentor M. DeBaun
- 2011-2016 Robert Liem, MD, MS
The Physiologic Assessment of Exercise Capacity in Pediatric Sickle Cell Anemia (K23, NHLBI)
Current Position: Associate Professor in Pediatrics-Hematology, Oncology and Stem Cell Transplantation
Co-Sponsor M. DeBaun
- 2012-2014 Najibah Galadanci, MBBS
Current Position: Consultant Hematologist, Aminu Kano Teaching Hospital, Kano Nigeria
NIH- Fogarty Institute – R21
David Satcher Award Full Tuition Scholarship for Master of Public Health at Vanderbilt University School of Medicine
- 2012-2015 Kim Unertl, PhD
Current Position: Assistant Professor, Department of Biomedical Informatics, Vanderbilt University School of Medicine
NLM K22 – Primary mentor M. DeBaun
- 2014-2018 Jeffrey Glassberg, MD, MA
Current Position: Assistant Professor, Emergency Medicine, Medicine, Hematology and Medical Oncology, Mount Sinai Medical Center
NHLBI K12 institutional award – Mentor M. DeBaun
NHLBI K23 – Co Mentor M. DeBaun

Government Relations

2004 - Primary physician co-author-Sickle Cell Treatment Act (Talent and Schumer)---The Sickle Cell Treatment Act (S. 874/H.R. 1736) became part of the American Jobs Creation Act (H.R. 4520), and was signed by the President into law on Oct. 22, 2004 (<http://waysandmeans.house.gov/media/pdf/hr4520/hr4520confreptlegtext.pdf>), Title VII, Sec. 712, pp. 375-385.

Bibliography:

Sickle Cell Disease

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- Reaman GH, **DeBaun MR**, Grossman NJ, Kalinyak K, Jorgensen JH, Bjornson A, Thomas MD, Reid C. Discontinuing penicillin prophylaxis in children with sickle cell anemia. Prophylactic Penicillin Study II. *J Pediatrics*. 1995 Nov; 127(5):685-690. PMID: 7472817
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- children with sickle cell disease. *J Am Acad Nurse Pract.* 2005 Jul; 17(7):277-282. PMID: 15982248
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