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EDUCATION

1977 B.S. Biology Lander College, Greenwood, SC

1981 M.D. Medical University of South Carolina, Charleston, SC

POSITIONS AND EMPLOYMENT

University of Texas Health Science Center, San Antonio, TX

1988-1990 Assistant Professor Department of Medicine

1989-1990 Director Cardiac Catheterization Laboratory
Audie L. Murphy Memorial Veterans Hospital

University of Cincinnati

1990-1993 Assistant Professor Department of Medicine

Department of Pharmacology & Cell Biophysics

1993-1999 Associate Professor Department of Medicine

with Tenure Department of Pharmacology & Cell Biophysics

1995-1998 Director Cardiovascular Fellowship Training Program

Division of Cardiology

1995-1998 Director Cardiac Catheterization Laboratory

Cincinnati Veterans Administration Medical Center

1998-1999 Director Cardiopulmonary Molecular Pharmacology Program

1999-2008 Professor Department of Medicine

1999-2004 Division Director Division of Cardiology

2003-2004 Director Heart and Vascular Center

2003-2005 Associate Dean for College of Medicine

Cardiovascular Services

2005-2008 Director Center for Molecular Cardiovascular Research

2005-2008 Professor Department of Pediatrics

Washington University School of Medicine

2008-present Philip and Sima K Needleman Professor

Associate Chair for

Translational Research Department of Internal Medicine

2008-present Director Center for Pharmacogenomics

PROFESSIONAL MEMBERSHIPS

Association of American Physicians

American Society for Clinical Investigation

Alpha Omega Alpha

American College of Cardiology, Fellow

American Heart Association, Fellow, Council on Circulation

American Clinical and Climatological Association

American College of Physicians, Fellow
Heart Failure Society of America
International Society for Heart Research

HONORS AND AWARDS

1974-1977 Patterson Pre-Medical Scholar, Lander Fellow
1976-1977 Alpha Chi Honor Society
1984 M.U.S.C. Institutional Research Fellowship, National Research Service Award
1989 Lyndon Baines Johnson Research Award, AHA, Texas Affiliate
1992-1997 Established Investigator of the American Heart Association
1995 American Heart Association Council on Circulation Cardiovascular Prize
1998 American Society for Clinical Investigation
1999 Plenary Speaker, American Heart Association 72nd Scientific Sessions
2000-2006 ASCI Institutional Representative, University of Cincinnati
2002 Alpha Omega Alpha Honor Society
2006 Gordon Wilson Lecturer, American Clinical and Climatological Association
2009 Association of American Physicians
2009-2012 NIH Myocardial Ischemia and Metabolism Study Section
2009-present Philip and Sima K. Needleman Professor
2010 Co-Chair, AHA Basic Cardiovascular Sciences Annual meeting
2010 3rd Annual John Ross, Jr., MD Lecture in Cardiology, UCSD
2010 Ralph Major Lecture in Internal Medicine, Kansas University
2011 Speaker, Excellence in Basic Science, 15th Annual HFSA Scientific Meeting
2011 Chair, Myocardial Ischemia and Metabolism Study Section, NHLBI
2011 Thomas W. Smith Memorial Lecture, AHA Scientific Sessions 2011
2015 Co-Chair Keystone Symposium "Mitochondria, Metabolism, and Heart Failure"

EDITORIAL BOARD MEMBERSHIP

2011-present *Science*, Board of Reviewing Editors
2010-present *Physiological Reviews*
1996-present *Circulation Research*
1994-present *Circulation*

REPRESENTATIVE SCIENTIFIC PUBLICATIONS:

Cardiac signaling

1. D'Angelo DD, Sakata Y, Lorenz JN, Boivin GP, Walsh RA, Liggett SB, **Dorn GW II**. Transgenic Gαq-overexpression induces cardiac contractile failure in mice. [Proc Natl Acad Sci USA. 94:8121-8126, 1997](#). Cited 420 times
2. Adams JW, Sakata Y, Davis MG, Sah VP, Wang Y, Liggett SB, Chien KR, Brown JH, **Dorn GW II**. Enhanced Gαq Signaling: A common pathway mediates cardiac hypertrophy and apoptotic heart failure. [Proc Natl Acad Sci USA. 95:10140-10145, 1998](#). Cited 357 times
3. **Dorn GW II**, Souroujon MC, Liron T, Chen CH, Gray MO, Zhou HZ, Csukai M, Wu G, Lorenz JN, Mochly-Rosen D. Sustained in vivo cardiac protection by a rationally designed peptide that causes ε protein kinase C translocation. [Proc Natl Acad Sci USA. 96:12798-12803, 1999](#). Cited 277 times
4. Mochly-Rosen D, Wu G, Hahn H, Osinska H, Liron T, Lorenz JN, Yatani A, Robbins J, **Dorn GW II**. Cardiostrophic effects of protein kinase Cε: Analysis by in vivo modulation of PKCε translocation. [Circ Res. 86:1173-1179, 2000](#). Cited 158 times
5. Liggett SB, Tepe NM, Lorenz JN, Canning AM, Jantz TD, Mitarai S, Yatani A, **Dorn GW II**. Early and delayed consequences of β2-adrenergic receptor overexpression in mouse hearts: Critical role for expression level. [Circulation. 101:1707-1714, 2000](#). Cited 274 times
6. Mialet PJ, Rathz DA, Petrashevskaya NN, Hahn HS, Wagoner LE, Schwartz A, **Dorn GW II**, Liggett SB. β1-adrenergic receptor polymorphisms confer differential function and predisposition to heart failure. [Nat Med. 9:1300-5, 2003](#). Cited 230 times

Genomics

7. Liggett SB, Cresci S, Kelly RJ, Syed FM, Matkovich SJ, Hahn HS, Diwan A, Martini JS, Sparks L, Parekh RR, Spertus JA, Koch WJ, Kardina SLR, and **Dorn GW II**. A GRK-5 polymorphism that inhibits β -adrenergic receptor signaling is protective in heart failure. [Nat Med. 14:510-7, 2008](#). Cited 149 times
8. Matkovich SJ, Van Booven DJ, Youker KA, Torre-Amione G, Diwan A, Eschenbacher WH, Dorn LE, Watson MA, Margulies KB, **Dorn GW II**. Reciprocal regulation of myocardial miR and mRNA in human cardiomyopathy and reversal of the miR signature by biomechanical support. [Circulation. 119:1263-71, 2009](#). Cited 131 times
9. Matkovich SJ, Wang W, Tu Y, Eschenbacher WH, Dorn LE, Condorelli G, Diwan A, Nerbonne JM, **Dorn GW II**. MicroRNA-133a protects against myocardial fibrosis and modulates electrical repolarization without affecting hypertrophy in pressure overloaded adult hearts. [Circ Res. 106:166-75, 2010](#). Cited 103 times
10. Cappola TP, Matkovich SJ, Wang Wei, Van Booven DJ, Li M, Wang X, Qu L, Sweitzer NK, Fang JC, Reilly M, Hakonarson H, Nerbonne JM, **Dorn GW II**. Loss-of-function DNA sequence variant in the CLCNKA chloride channel implicates the cardio-renal axis in inter-individual heart failure risk variation. [Proc Natl Acad Sci USA. 108:2456-61, 2011](#). Cited 17 times
11. **Dorn GW II**, Matkovich SJ, Eschenbacher WH, Zhang Y. A human 3' miR-499 mutation alters cardiac mRNA targeting and function. [Circ Res. 110:958-67, 2012](#). Cited 13 times
12. Hu Y, Matkovich SJ, Hecker PA, Zhang Y, Edwards JR, **Dorn GW II**. Epitranscriptional orchestration of genetic reprogramming is an emergent property of stress-regulated cardiac microRNAs. [Proc Nat Acad Sci USA. 109:19864-9, 2012](#). Cited 8 times

Mitochondria

13. Yussman M, Toyokawa T, Odley A, Lynch R, Wu G, Colbert M, Aronow B, **Dorn GW II**. Mitochondrial death protein Nix is induced in cardiac hypertrophy and triggers apoptotic cardiomyopathy. [Nat Med. 8:725-730, 2002](#). Cited 167 times
14. Diwan A, Krenz M, Syed FM, Wansapura J, Ren X, Koesters AG, Li H, Kirshenbaum LA, Hahn HS, Robbins J, Jones WK, and **Dorn GW II**. Inhibition of ischemic cardiomyocyte apoptosis through targeted ablation of Bnip3 restrains post-infarction remodeling in mice. [J Clin Invest. 117: 2825-2833, 2007](#). Cited 92 times
15. Diwan A, Wansapura J, Syed FM, Matkovich SJ, Lorenz JN and **Dorn GW II**. Nix-mediated apoptosis links myocardial fibrosis, cardiac remodeling, and hypertrophy decompensation. [Circulation, 117:396-404, 2008](#). Cited 61 times
16. Diwan A, Matkovich SJ, Yuan Q, Zhao W, Yatani A, Heller-Brown J, Molkenstein JD, Kranias EG, **Dorn GW II**. Endoplasmic reticulum-mitochondrial crosstalk in Nix-mediated murine cell death. [J Clin Invest. 119:203-212, 2009](#). Cited 62 times
17. Chen Y, Lewis W, Diwan A, Cheng E H-Y, Matkovich SJ, **Dorn GW II**. Dual autonomous mitochondrial cell death pathways are activated by Nix/BNip3L and induce cardiomyopathy. [Proc Natl Acad Sci USA \(Feature Article\). 107:9035-42, 2010](#). Cited 44 times
18. Chen Y, Liu Y, **Dorn GW II**. Mitochondrial fusion is essential for organelle function and cardiac homeostasis. [Circ Res. 109:1327-31, 2011](#). Cited 48 times
19. Chen Y and **Dorn GW II**. PINK1-phosphorylated mitofusin 2 is a parkin receptor for culling damaged mitochondria. [Science. 340:471-5, 2013](#). Cited 29 times
20. Kasahara A, Cipolat S, Chen Y, **Dorn GW II***, Scorrano L* (*co-contributing authors). Mitochondrial fusion directs cardiomyocyte differentiation via calcineurin/notch signaling. [Science. 342:734-7, 2013](#). Cited 3 times