

SEPTEMBER 2007

**CURRICULUM VITAE**

**Dan Mark Roden, M.D.C.M.**

**Office Address:**

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**Date and Place of Birth:**

April 15, 1950 - Montreal, Canada

**Citizenship:**

U.S.

**Education**

1966 High School:

Selwyn House School, Montreal  
Governor-General's Medal for Academic Excellence

1966-1970

McGill University, Montreal

BSc, Major: Mathematics

University Scholar      1966-67  
   1967-68  
   1968-69

1970-1974

McGill University, Montreal

MDCM, Major: Medicine

University Scholar      1971-72

**Professional Experience**

July 1974-June 1975

Internship, Internal Medicine  
Royal Victoria Hospital, Montreal

July 1975-June 1976

Resident, Department of Medicine  
Royal Victoria Hospital, Montreal

July 1976-June 1977

Private Practice, Montreal

July 1977-June 1978

Resident, Department of Medicine  
Royal Victoria Hospital, Montreal

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**Short Curriculum Vitae (publications omitted)**

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July 1978-June 1981	Research Fellow Division of Clinical Pharmacology Vanderbilt University School of Medicine
July 1980-June 1981	Fellow Division of Cardiology Vanderbilt University School of Medicine
1981-1985	Assistant Professor Depts. of Medicine and Pharmacology (Clinical Pharmacology) Vanderbilt University School of Medicine
March-August 1983	Visiting Research Associate Department of Pharmacology Columbia University
1985-1989	Associate Professor Depts. of Medicine and Pharmacology (Clinical Pharmacology) Vanderbilt University School of Medicine
1988-1992, 1996-2002	Director, Vanderbilt Arrhythmia Unit
1989-present	Professor Depts. of Medicine and Pharmacology (Clinical Pharmacology) Vanderbilt University School of Medicine
1992-2004	Director, Division of Clinical Pharmacology Vanderbilt University School of Medicine
1992-present	William Stokes Professor of Experimental Therapeutics Vanderbilt University School of Medicine
2004-present	Director, John Oates Institute for Experimental Therapeutics Vanderbilt University School of Medicine
2006-present	Assistant Vice-Chancellor for Personalized Medicine Vanderbilt University School of Medicine

**Certification**

Medical Council of Canada, Certification No. 38009, July, 1975

National Board of Medical Examiners, Certification No. 145601, July, 1975

American Board of Internal Medicine, Certification No. 65326

Internal Medicine, September, 1978

Cardiovascular Disease, November, 1981

Clinical Cardiac Electrophysiology, November, 1992

American Board of Clinical Pharmacology, Certification No. 93116, September 1993

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**Licensure**

Province of Quebec, License No. 75-208  
State of Tennessee, License No. MD-11357

**Professional Societies**

American College of Physicians (Fellow)  
American College of Cardiology (Fellow)  
The Royal College of Physicians of Canada (Fellow)  
American Federation for Clinical Research  
American Society for Clinical Pharmacology and Therapeutics  
Heart Rhythm Society  
Cardiac Electrophysiology Society  
The Biophysical Society  
American Society for Pharmacology and Experimental Therapeutics  
Southern Society for Clinical Investigation  
American Society for Clinical Investigation (elected)  
Association of American Physicians (elected)  
American Heart Association (Fellow)

**Service**

**Intramural**

1985- Member, Medical Scientist Training Program (MD-PhD Committee), Vanderbilt University  
1986-1997 Coordinator, American Heart Association Medical Student Research Fellowship program at Vanderbilt; Responsible Investigator 1991-  
1989-1992 Member, Vanderbilt Clinical Research Center Advisory Committee; Chairman 1991-92  
1991-1994 Member, Vanderbilt Institutional Review Board (Health Sciences); Chairman 1993-94  
1992-1995 Member, Vanderbilt University, Department of Medicine, Faculty Appointments and Promotions Advisory Committee  
1997- 1998 Member, Vanderbilt University, Department of Medicine, Senior Fellowship Committee  
2000-2002 Member, Vanderbilt University, Department of Medicine, Awards Committee  
2004- Principal Investigator, Vanderbilt DNA databank

**Extramural**

1985 Delegate, 4th US-USSR Symposium on Sudden Death, Birmingham, Alabama  
1990-2000 United States Pharmacopeial Convention, Advisory Panel on Cardiovascular and Renal Drugs; Chair (1995-2000)  
1992 External Advisory Committee, Pharmacological Sciences Training Grant, Columbia University  
1992-1993 Member, Annual Scientific Session Program Committee, American College of Cardiology

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**Short Curriculum Vitae (publications omitted)**

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1992-1998	Member, Clinical Cardiac Electrophysiology (CCEP) Test Writing Committee, American Board of Internal Medicine
1994-1997	Member, Board of Directors, American Society for Clinical Pharmacology and Therapeutics
1995-1998	Chair, Cardiovascular and Pulmonary Section, American Society for Clinical Pharmacology and Therapeutics
1996-	Member, American Board of Clinical Pharmacology
1996-	Member, Scientific Advisory Board, Cardiac Arrhythmias Research and Education Foundation, Inc. (CARE)
1996-1999	Member, Program Committee, Annual Scientific Sessions, North American Pacing Society for Pacing and Electrophysiology (NASPE)
1997-2001	Cardiac Electrophysiology Society: Secretary-treasurer, 1997-99; President, 1999-2001
1997-1998	Vice-President, American Society for Clinical Pharmacology and Therapeutics
2000-2001	Member, Board of Governors, American Society for Clinical Pharmacology and Therapeutics
2000-2001	Chair, Clinical Pharmacology Section, American Society for Pharmacology and Experimental Therapeutics
2003-	Member, Test-writing Committee, Self-evaluation module, Clinical Cardiac Electrophysiology; American Board of Internal Medicine
2003-2006	Member, Joint AHA/ACC/ESC/NASPE guideline writing committee: Sudden Death
2006-	Member, ACCSAP Question Writing Committee

American Heart Association

1982-1983; 1987	Member, Peer Review Research Committee, Tennessee Affiliate AHA
1984-1986	Chairman, Research Committee, Middle Tennessee Chapter, American Heart Association; Member (ex officio), Peer Review Research Committee, Tennessee Affiliate, American Heart Association
1990	European Society of Cardiology - AHA (Basic Science Council) Task Force on Antiarrhythmic Drug Classification
1995-1998	Member, Katz Prize Committee, Basic Science Council, American Heart Association
1995-1999	Member, Executive Committee, Basic Science Council, American Heart Association
1996-1998	Member, Long Range Planning/Budget Committee, Basic Science Council, American Heart Association
2000-2005	Member, National Research Committee and Basic Cardiovascular Sciences Executive Council
2006-	Member, Functional Genomics Working Group

US Federal Government

1986-1989	Member, National Veteran's Administration (VA) Merit Review Committee for Cardiovascular Disease; Chairman 1988-1989
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**Short Curriculum Vitae (publications omitted)**

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1987	Ad Hoc Reviewer, Pharmacology Study Section, National Institutes of Health (NIH)
1990,1991	Ad Hoc Reviewer, Cardiovascular and Pulmonary Study Section, NIH
1991-1994	Member, Cardiovascular and Pulmonary Study Section, NIH
1994-1996	Chair, Cardiovascular and Pulmonary Study Section, NIH
1996- 2000	Member, Cardiovascular and Renal Drugs Advisory Committee, Food and Drug Administration (FDA)
1998	Member, National Heart Lung and Blood Institute (NHLBI) Special Emphasis Review, Pediatric Cardiology SCORs
1999	Ad Hoc Reviewer, Clinical Trials Review Committee, NHLBI
1999	NHLBI Delegate, US-Russia Arrhythmia Symposium, National Cardiology Research Center, Moscow.
2001-2002	Member, Panel on Scientific Boundaries, Cardiovascular Sciences IRG; Consultant, CSR Council
2001	Consultant, FDA Joint Nonprescription Drugs Advisory Committee and Pulmonary-Allergy Drugs Advisory Committee
2005-2006	NHLBI Strategic Planning Committees; Phase I and II
2006-	NHLBI Resequencing and Genotyping Resource – oversight committee
2007-	Pharmacogenetics Research Network, vice-chair, Steering Committee

Editorial boards

1990-2004	Editorial Board, <i>Journal of Cardiovascular Electrophysiology</i>
1991-	Advisory Board, <i>The Medical Letter</i>
1996-	Editorial Board, <i>Journal of Cardiovascular Pharmacology</i>
1996-2001	Editorial Board, NASPETAPES
1996	Chief, Pharmacology Section, Cardiac Electrophysiology Reviews
1996-	Editorial Board, <i>Circulation</i>
1997-	Section Editor, Contemporary Use of Cardiovascular Drugs in Clinical Cardiovascular Medicine, <i>Circulation</i>
1997-	Editorial Board, <i>Cardiology Today: Current News in Cardiovascular Disease</i>
1997-	Editorial Board, <i>American Journal of Medicine</i>
2002-	Editorial Board, <i>Pharmacogenetics</i>
2003-	Editorial Board, <i>Heart Rhythm</i>
2005-	Editorial Board, <i>Clinical Pharmacology and Therapeutics</i>
2006-	Editorial Board, <i>The Pharmacogenomics Journal</i>

**Thesis Committees**

Primary mentor

Jeffrey Balser (MSTP/MD-PhD program)	PhD, Pharmacology, 1990
Todd Wisialowski	MS, Biomedical Engineering, 1990
Lawrence Selby	MS, Pharmacology, 1998
Kai Liu	PhD, Pharmacology, 2005
Sameer Chopra (MSTP/MD-PhD program)	PhD, Pharmacology, 2007

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Member, thesis committee

Wayne Glasgow	PhD, Pharmacology, 1988
Wai Lau	PhD, Pharmacology, 1991
Steven Roberds	PhD, Pharmacology, 1992
Karen Knoth	PhD, Pharmacology, 1993
J. P. Johnson	PhD, Pharmacology, 1997
Kevin Parker	PhD, Physics, 1998
Tammy Wingo	PhD, Pharmacology, 2001
Franklin Mullins (MSTP/MD-PhD program)	PhD, Pharmacology, 2002
Andrew Lundquist (MSTP/MD-PhD program)	PhD, Pharmacology, 2003
Leomar Ballester	PhD, Pharmacology, 2007

Current

William Thiel (Pharmacology)  
Brett English (Pharmacology)

**Honors, distinctions**

1966	Governor-General's Medal for Academic Excellence
1966-68, 1971	McGill University Scholar
1981-1986	Clinician-Scientist Award, American Heart Association
1991	American Society for Clinical Investigation
1992	Leon I. Goldberg Young Investigator Award, American Society for Clinical Pharmacology and Therapeutics
1994	Sterling Visiting Professor; Department of Pharmacology, Columbia University
1996	Association of American Physicians
2000-2005	Unrestricted grant in Cardiovascular Medicine (Bristol Myers Research Institute)
2001	Leon Goldberg Visiting Professor, University of Chicago
2003	Recipient, Grant W. Liddle Prize for Translational Research (Vanderbilt Medical Center-wide)
2003	Vanderbilt Division of Cardiology Faculty Teaching Award
2005	Heart Rhythm Society: Distinguished Scientist Award

**Previous Research Support**

1978-1981	Training Grants GM07569 (PI: <u>John A. Oates, M.D.</u> ) and HL07411 (PI: <u>G.C. Friesinger, M.D.</u> ); Clinical Pharmacology Center Grant GM15431 (PI: <u>John A. Oates, M.D.</u> )
1981-1986	Clinician-Scientist Award (81-423), American Heart Association, "Pharmacologic activity of antiarrhythmic drug metabolites" (Salary support \$30,000/yr plus fringe benefits)
1982-1986	Cardiac Arrhythmia Pilot Study N-01-HV-2-8014, \$433,594 (PI: <u>R.L. Woosley, M.D., Ph.D.</u> )

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- 1983-1986 Grant-in-Aid, American Heart Association (83-1276), "Pharmacology of antiarrhythmic drug combinations," \$104,214 (PI: Dan M. Roden, M.D.)
- 1986-1991 R01 HL36724, "*In vivo* actions of antiarrhythmic drugs," \$1,050,593 (PI: Dan M. Roden, M.D.)
- 1986-1992 Cardiac Arrhythmia Suppression Trial: NHLBI contract N-01-HC-65065 \$1,237,684 (PI: Raymond L. Woosley, M.D., Ph.D. 1986-88; Dan M. Roden, M.D. 1988-1992)
- 1984-1993 R01 HL32694, "Role of prolonged repolarization in cardiac arrhythmias," 1984-87: \$218,725; 1988-93: \$414,344 (PI: Dan M. Roden, M.D.)
- 1982-2002 Program Project GM31304, "Determinants of individual responsiveness to drugs" Program Director: Grant R. Wilkinson, Ph.D. (1997-02: \$4,268,916)
- 1977- GM07569, "Clinical Pharmacology Training Program," (PI 1992-2004: Dan M. Roden, M.D.)(1997-2002: \$1,687,205)

**Current Research Support**

- 1992-2007 Program Project HL46681, current title: "Biology of Arrhythmia Susceptibility" (former titles: "Heterogeneity of Cardiac K<sup>+</sup> Channels" (1997-2002); "Mechanisms of antiarrhythmic drug action" (1992-1997)) \$4,739,243 (Program Director: Dan M. Roden, M.D.)
- 1994-2011 R01 HL49989, "Modulation of cardiac repolarization," direct costs current cycle: \$1,100,000 (PI: Dan M. Roden, M.D.).
- 2001-2010 U01 HL65962, "Pharmacogenomics of arrhythmia therapy," direct costs 2005-2010: \$10,332,112 (PI: Dan M. Roden, M.D.)
- 2001-2011 HL68880, "Genetic modifiers of congenital long QT syndrome", direct costs: \$1.6 million (PI: Alfred L. George, Jr.)
- 2004-2011 R01 LM007995, "Tools for Inpatient Monitoring Using Evidence (TIME) for Safe and Appropriate Testing", direct costs \$1 million, (PI: Randolph Miller)
- 2005-2010 Leducq Foundation Trans-Atlantic Network of Excellence: "Preventing Sudden Death", total costs: \$6,000,000. (US PI: Dan M. Roden).
- 2007-2011 HG04603, "VGER: Vanderbilt Genome-Electronic Records Project", direct costs \$4,290,117 (PI: Dan M. Roden, M.D.)