

Curriculum Vitae

Samuel C Dudley, M.D., Ph.D.

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Citizenship: American
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Current Titles & Affiliations:

a. Academic appointments:

1. Primary Faculty Appointments:

08/2004 - Current	Associate Professor	Medicine	Emory University School of Medicine	Atlanta, GA
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2. Joint & Secondary Faculty Appointments:

02/2003 - Current	Molecular and Systems Pharmacology Program Faculty	Emory University	Atlanta, GA, USA
08/2002 - Current	Biomedical Engineering Program Faculty	Emory University/ Georgia Institute of Technology	Atlanta, GA
02/2000 - Current	Biochemistry, Cell Biology and Development Program Faculty	Emory University	Atlanta, GA

b. Clinical Volunteer Faculty Appointments:

c. School of Medicine Administrative Appointments:

Other Appointments:

2000 - Current	Chief, Cardiology	Atlanta VA Medical Center	Decatur, GA
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Previous Academic & Professional Appointments:

1997 - 2003	Assistant Professor of Medicine	Emory University	Atlanta, GA, USA
1997 - 2003	Assistant Professor of Physiology	Emory University	Atlanta, GA, USA

Previous School of Medicine Administrative Appointments:**Previous Other Appointments:****Licensure & Board Certifications**

State of Georgia - Physician	044910	1997	2005
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Specialty Boards

Cardiovascular Disease	American Board of Internal Medicine	1997	2007
Internal Medicine	American Board of Internal Medicine	1993	2003

Education

1989	M.D., Medicine	Virginia Commonwealth University Medical College of Virginia	Richmond, VA, USA
1989	Ph.D., Physiology	Virginia Commonwealth University Medical College of Virginia	Richmond, VA, USA
1985	B.A., Special Scholar Program	University of Virginia-Main Campus College of Arts and Sciences	Charlottesville, VA, USA

Postgraduate Training

1993 - 1997	Cardiology Fellow University of Chicago, Chicago, IL, USA
1991 - 1993	Postdoctoral Fellow University of Chicago, Chicago, IL, USA

Harry Fozzard, MD

1989 - 1991

Internal Medicine Resident

University of Chicago, Chicago, IL, USA

Military/Government Service

1997 - Current

Cardiologist

Atlanta VA Medical Center

Committee Memberships:**a. National & International:**

2003 - Current	VHA Physician Productivity and Staffing Advisory Committee	Member
2003 - Current	National Medical Research Council Singapore	Ad Hoc Reviewer
2003 - Current	NMRC Singapore	Grant Reviewer
2003 - Current	VA Cardiology Field Advisory Committee	Member
2002 - Current	American Heart Association Cardiovascular (Patho)Physiology 3 Study Group	Member
2004 - 2004	NIH ESTA Study Section	Ad Hoc Reviewer
2004 - 2004	NIH Ad Hoc Review Panel	Reviewer
2004 - 2004	United States-Israel Binational Science Foundation	Grant Reviewer
2003 - 2003	Nora Eccles Treadwell Foundation	Grant Reviewer
2003 - 2003	NIH Cardiovascular B Study Section	Ad Hoc Reviewer
2003 - 2003	DOE Radiopharmaceuticals and Molecular Nuclear Medicine Science Research Review	Ad Hoc Reviewer

b. Regional & State:**c. Institutional:**

2003 - Current	MD/PhD Admissions Committee	Member
2002 - 2003	Heart Center Research & Technology Advancement Subcommittee	Member
2001 - 2003	Commission on Research at Emory	Member
1998 - 2003	VA Research and Development Committee	Member

1999 - 2000	VA Clinical Pathway Guidelines Committee, Ischemic Subcommittee, Chair	Chairman
1998 - 2000	VA CPR Committee	Chairman

Consultantships

2001 - 2002	AstraZeneca	Speaker Bureau
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Editorships & Editorial Boards

2003 - 2003	<i>Journal of Cardiovascular Pharmacology and Therapeutics</i>	Editorial Board
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Manuscript Reviewer

2003 - Current	<i>Development</i>
2003 - Current	<i>Circulation Research</i>
2003 - Current	<i>Journal of the American College of Cardiology</i>
2003 - Current	<i>Trends in Cardiovascular Medicine</i>
2003 - Current	<i>Journal of Experimental Biology</i>
2002 - Current	<i>American Journal of Medical Sciences</i>
2001 - Current	<i>Life Sciences</i>
1999 - Current	<i>Circulation</i>
2004 - Current	<i>Journal of Physiology</i>
2002 - Current	<i>British Journal of Pharmacology</i>
2002 - Current	<i>Journal of Neurochemistry</i>
2001 - Current	<i>General Pharmacology</i>
2001 - Current	<i>PACE</i>
1999 - Current	<i>Cells, Tissues, Organs</i>
1999 - Current	<i>Biophysical Journal</i>
1998 - Current	<i>American Journal of Physiology</i>

Honors & Awards

2003	Tenure	Emory University
2001	Fellow	American Heart Association
1999	Cardiovascular Young Investigator	AstraZeneca
1999	Fellow	American College of Cardiology

1994	Electrophysiology Fellow	Wyeth-Ayerst
1989	Postdoctoral Fellowship (declined)	American Heart Association/Virginia Affiliate
1989	Individual National Research Service Award (F32-HL08104)	National Institutes of Health
1989	Foote and Levy Grant	Medical College of Virginia Foundation
1988	Merck Scholarship for Academic Ability	Medical College of Virginia
1988	National Dean's List	Medical College of Virginia
1988	Sidney Barham Scholarship for Academic Ability	Medical College of Virginia
1988	Dean's Book Award	Medical College of Virginia
1988	All-American Scholar Collegiate Award	Medical College of Virginia
1988	National Collegiate Student Government Award	Medical College of Virginia
1988	Merck Scholarship for Academic Ability	Medical College of Virginia
1987	Aubrey H. Straus Microbiology Award	Medical College of Virginia
1986	National Dean's List	Medical College of Virginia
1986	National Collegiate Medical Professions Award	Medical College of Virginia
1986	McGraw Hill Book Award, First in the Class	Medical College of Virginia
1986	Dean's Book Award	Medical College of Virginia
1986	Merck Book Award, Gastroenterology	Medical College of Virginia
1986	Lange Book Award, Cell Biology	Medical College of Virginia
1985	A.D. Williams Scholarship Award for Academic Achievement in the School of Medicine	Medical College of Virginia
1985	Sigma Xi Anniversary Prize for Excellence in Undergraduate Research	Medical College of Virginia
1984	Intermediate Academic Honors	University of Virginia
1982	Echols Scholar	University of Virginia

Society Memberships

2002 - Current	Cardiac Electrophysiology Society	Member
2000 - Current	Cardiac Muscle Society	Member
1997 - Current	American Heart Association Basic Science Council	Member
1996 - Current	American College of Cardiology (Fellow)	Member
1996 - Current	Biophysical Society	Member
1989 - Current	Sigma Zeta - Honorary Science Society	Member

1989 - Current	Alpha Omega Alpha	Member
1988 - Current	New York Academy of Sciences	Member
1985 - Current	Alpha Epsilon Delta - Premedical Honor Society	Member
1985 - Current	Phi Beta Kappa	Member
1985 - Current	Phi Kappa Phi - Honor Society	Member
1985 - Current	Sigma Xi - Research Honor Society	Member

Organization of National or International Conferences:

a. Administrative Positions:

2001 - Current	Abstract Reviewer	American Heart Association
2004 - 2004	Co-Chair	Ion Channels and Membrane Transporters: American Heart Association Annual Scientific Session
2000 - 2000	Abstract Reviewer	American Federation of Medical Research

b. Sessions as Chair

2004 - 2004	Cardiovascular Tissue Engineering: From Basic Biology to Cell-Based Therapies
2003 - 2003	Atrial Remodeling: American Heart Association Annual Scientific Session
2003 - 2003	VA National Heart Failure Conference
2002 - 2002	Fozzard Symposium/Ion Channel in Heart Disease/International Society for Heart Research
2000 - 2000	Sodium Channels: Biophysical Society
1998 - 1998	Potassium Channels and Coronary Vascular Tone: American College of Cardiology

Research Focus:

Electrophysiological and molecular biological techniques; role of ion channels in cardiac arrhythmias.

Patents:

a. Issued

b. Pending

Flow Mediated Change In Compliance: A Noninvasive Measurement Of Endothelial Function

01/2004

Cost Effective Cardiotoxicity Assay

09/2003

Grant Support:

a. Active Support

1. Federally Funded:

NIH

Genetic Modulators of Sudden Death

\$430,687.00

07/01/2004 - 06/30/2009

Investigator

NIH NRSA Institutional Training Grant

Research training in academic cardiology

\$2,519,494.00

01/01/2004 - 01/01/2009

P.I.

VA Merit

Nitric Oxide and the Pathogenesis of Atrial Fibrillation

\$560,000.00

04/01/2003 - 03/31/2007

co-P.I.

NHLBI, NIH

Regulation of Vascular Function by the Endothelium

\$1,318,953.00

01/01/2001 - 01/01/2006

P.I.

NHLBI, NIH

Evaluation of the Sodium Channel Outer Vestibule

\$650,000.00

01/05/2000 - 01/05/2005

Environmental Protection Agency

A Mechanistic Study of Halocarbon/Epinephrine Induced Arrhythmias

\$74,000.00

08/01/2004 - 07/31/2004

2. Private Foundation Funded:

American Heart Association

Established Investigator

\$500,000.00

01/01/2004 - 12/31/2008

3. Contracts:

P.I.

NIH

Home AED Trial

\$43,750.00

03/01/2003 - 03/01/2008

Guidant

Assessment of Bipolar versus Unipolar Pacing Thresholds Registry (ASSESS)

\$5,250.00

11/01/2003 - 10/31/2005

P.I.

Guidant

Silent atrial fibrillation detection with stored EGMs (SAFE Study)

\$28,000.00

10/01/2001 - 10/01/2004

P.I.

Aventis Pharmaceuticals

A Prospective randomized, open-label, multicenter study in patients with acute coronary syndromes (ACS) (SYNERGY Study)

\$40,000.00

04/01/2001 - 04/01/2004

4. Other:

b. Past Support

1. Federally Funded:

PI

Veterans Administration

Evaluation of the Sodium Channel Outer Vestibule

\$0.00

01/01/2000 -

2. Private Foundation Funded:

PI

American Heart Association

A Model of Idiopathic Ventricular Fibrillation

\$260,000.00

01/01/1999 - 12/31/2002

PI

Procter and Gamble

Development of differentiated mouse embryonic stem cells for the study of arrhythmia

\$150,000.00

01/01/1998 - 01/01/2002

PI

Southeast Affiliate American Heart Association

Experimental Evaluation of a Molecular Model of the Na Channel Outer Vestibule

\$60,000.00

07/01/1998 - 06/30/2000

PI

Atlanta Research and Education Foundation

A Model of Idiopathic Ventricular Fibrillation

\$25,000.00

09/21/1998 - 09/21/1999

PI

Pfizer

A Differentiated Embryonic Stem Cell Model of an Inherited Arrhythmia

\$0.00

07/01/1998 - 07/01/1998

3. Contracts:

P.I.

Proctor & Gamble

A Double-Blind, placebo-controlled, parallel design study to determine the effect of 75 or 100mg of orally administered Azimilide Dihydrochloride verses Placebo on survival in recent post-myocardial infarction patients at risk of sudden death(ALIVE Study)

\$45,000.00

07/18/1998 - 06/11/2001

4. Other:**Clinical Service Contributions:**

The Cardiology Consult/CCU Service required at least 2.5 months (56.25 hours) of teaching time from Jul 2002-Jun 2003. The Cardiology Consult/CCU Service required at least 4 months (118.5 hours) of teaching time from Jul 2001-Jun 2002. The Cardiology Consult/CCU Service required at least 3.5 months (93 hours) of teaching time from Jul 2000-Jun 2001. The Cardiology Consult/CCU Service required at least 3.5 months (78 hours) of teaching time from Jul 1999-Jun 2000. The Cardiology Consult/CCU Service required at least 3 months (67.5 hours) of teaching time from Jul 1998-Jun 1999. The Cardiology Consult/CCU Service required at least 1 month (22.5 hours) of teaching time from Jan-Jun 1998. 2000 - present. Arrhythmia Clinic (VA); 1/2 day/week. 1997-2000. General Cardiology Clinic (VA); 1/2 day/week. 1998 - present; Pacer/ICD Clinic (VA); 1/2 day/week. 1997 - present; Echocardiography (VA); 1 day/week

Formal Teaching:**a. Medical Student Teaching**

2001 - Current	MD/PhD Program Clinical Conference (4 hours/year)
1999 - Current	C-02 School of Medicine Clinical Elective - Clinical Cardiology (VAMC) - Course Director
1998 - Current	Mechanisms in Cardiovascular Diseases: From the Bench to the Bedside (2 hour session/year)
2004 - 2004	Drug Therapy of Cardiac Arrhythmias
2001 - 2001	ACP/ASIM ECG Interpretation for the Practicing Internist (2 hours)
2000 - 2000	Junior Oral Exam at VA
1998 - 1998	Cardiac Gross Anatomy
1998 - 1998	Clinical Methods (1 afternoon/week for 9 weeks)

b. Graduate Program:

2002 - Current	IBS 512 - Cell Physiology and Biophysics (1 lecture - course offered every other year)
2001 - Current	BME Problem-Based Learning (2-3 hours/year)
2004 - 2004	Biomedical Engineering, Physiologic Systems II, Clinical/Physiological Prospective on Heart Failure (1.25 hours)
2004 - 2004	BMED/ ME 6793, BMED8121: Systems Pathophysiology
2003 - 2003	BME Clinical Trials Seminar
2003 - 2003	Biomedical Engineering, Physiologic Systems II, Introduction to Cardiovascular Physiology (1.25 hours)
2001 - 2002	IBS 520 - Small Group Sessions (1 lecture/year)
1999 - 2002	Co-Coordinator Membrane Physiology Journal Club (1 hour/wk)

2002 - 2002 IBS 522 - Hypothesis Design and Scientific Writing (7 hours)

c. Residency/Training Programs:

2001 - Current ECG Interpretation Lecture for Nuc Med & Pet Fellows (2 hours/year)

2001 - Current Director - VA Cardiology Joint Laboratory Conference (1 hour/wk)

2000 - Current Cardiology Fellowship Journal Club (1 lecture/year)

1998 - Current Principles of Antiarrhythmic Drug Therapy (1 lecture/year)

1998 - Current Cardiology Friday Morning Conference (1 lecture/year)

1998 - Current Director - VA Cardiology Research Conference (1 hour/week)

2004 - 2004 Stem Cell Technology

2003 - 2003 Stem Cell Technology

2003 - 2003 Management of arrhythmias (1 hour)

2002 - 2002 Stem cells as cell replacement therapy - Grady Grand Rounds (1 hour)

2001 - 2001 Modeling Arrhythmia - Vascular Biology Seminar (1 lecture)

2001 - 2001 Stress Testing (1 hour)

2001 - 2001 Lecture for Emory Cardiology Conference (40 min)

2000 - 2000 Genetics of Arrhythmias - Vascular Biology Seminar Series (1 hour)

2000 - 2000 Indications for Electrophysiologic Testing - Grady Grand Rounds (1 hour)

2000 - 2000 Na Channel Structural Biology & Possible Clinical Implications - Vascular Biology Seminar Series (1 hour)

2000 - 2000 ECG Interpretation - VA House Staff Lectures (1 hour)

1999 - 1999 Ventricular Arrhythmias: Diagnosis & Management Acute & Chronic - VA House Staff Lectures (1 hour)

1999 - 1999 Supraventricular Arrhythmias: Diagnosis & Management - VA House Staff Lectures (1 hour)

1999 - 1999 Congenital & Valvular Heart Disease (1 lecture)

1999 - 1999 Exercise Testing & Nuclear Cardiology (1 lecture)

1999 - 1999 ECG - Arrhythmias (1 lecture)

1999 - 1999 Non-invasive Risk Stratification for Arrhythmia - Grady Grand Rounds (1 hour)

1998 - 1998 Bradyarrhythmias - Emory Cardiology Conference (1 hour)

1998 - 1998 ECG - Ischemia (2 lectures)

1998 - 1998 ECG - Bradyarrhythmias (2 lectures)

1998 - 1998 Genetics of Arrhythmias (1 lecture)

1998 - 1998 Principles of Tachyarrhythmia Therapy (1 lecture)

1998 - 1998 Ion Channel Pharmacology (1 lecture)

d. Other:

2002 - Current Emory Physician Assistant students

2001 - Current Emory Annual Comprehensive Board Review in Internal Medicine - Arrhythmia lecture
(1 hour/year)

2004 - 2004 Drug Therapy of Cardiac Arrhythmias for Allied Health Student

Supervisory Teaching:

a. Ph.D. students directly supervised:

Beth Boulden	Biomedical Engineering Graduate Student
Santhosh Muruganantham	Semester lab rotation 2004
Lori Ann Rowe	BCBD student lab rotation - 2004
David Simpson	BME lab rotation -Winter 2004
Hak-Joon Sung	Thesis Committee -2004
David Simpson	Graduate Student

b. Post-doctoral Fellows directly supervised:

Ming Zhang, MD, PhD	Psychiatry Resident, University of Virginia
Lisa Shang, PhD	Post-doctoral Fellow
Zhong Ming Li, PhD	Post-doctoral Fellow, Dalhousie University
Gaurav Chaudhary, MD	Asst. Prof., Brown University
Vijay Kasi, MD, PhD	Post-doctoral Fellow
Arnold Pfahnl, MD, PhD	Post-doctoral Fellow

c. Residency Program:

d. Other:

Vladimir Jovic	Undergraduate Senior Thesis
Alice Huang	Instructor of Medicine
Keith Wyche	Cardiologist
Craig Brodsky	Cardiologist

T. Michael Fan	Assistant Professor of Medicine
Andro Kacharava	Assistant Professor of Medicine
Kreton Mavromatis	Assistant Professor of Medicine
Nelli Fink	Visiting Professor
Andreas Goette	Visiting Professor
Keri Allen	Undergraduate student
Daniel Roseman	Undergraduate Senior Thesis
Bobby Bhatti	Undergraduate student
Laura Yount	Medical Student Summer Project
Danny Cheng	Undergraduate Summer Project
William Kanner	Research year prior to medical school
Michael Grossman	Medical Student Summer Project
Sambit Mondal	Visiting Medical Resident
Kelly Mayfield	Medical Student Summer Project
Heather Virginia	Biomedical Engineering graduate student
Litonya Granville	SURE Summer Student
Ruaa N. Al-baldawi	Undergraduate Senior Thesis 2003-2004
Michael Grossman	Third year medical student research elective - 2004
David Kim	Biology Undergraduate Senior Honors Thesis Advisor - 2004-2005
Caelin Ann Cubenas	Undergraduate SURE Program - 2004

Lectureships, Seminar Invitations, Visiting Professorships:

2004	Electrophysiology of stem cell derived cardiomyocytes	University of Alabama
2004	Stem Cell-Mediated Changes in Cardiac and Coronary Function After Myocardial Infarction	Eighth Annual Hilton Head Workshop on Cardiovascular Tissue Engineering
2003	Molecular alterations in endocardial and atrial myocyte function in atrial fibrillation: Similarities to atherosclerosis	9th Annual Global Chapter Meeting of the Vascular Biology Working Group
2003	Vascular biology of atrial fibrillation: Potential mechanisms for thrombosis and stroke	VBWG AF National Faculty Update Conference
2003	Stem cells and arrhythmia: Will cardiac cell transplantation be safe?	University of Pittsburgh
2003	Cardiotoxicity assays	National Academy of Sciences

2003	Atrial fibrillation: Are we treating the right disease?	Washington, DC VA Medical Center
2003	Atrial fibrillation: Are we treating the right disease?	Loyola University
2003	Stem cells and arrhythmia: Will cardiac cell transplantation be safe?	Northwestern University
2003	Stem cells and arrhythmia: Will cardiac cell transplantation be safe?	Cell Transplant Society Annual Meeting
2003	Do we need more clinical trials in atrial fibrillation?	Emory Center for Outcomes Research
2003	Stem cells and arrhythmia: Will cardiac cell transplantation be safe?	Emory University/MSP Program
2003	Atrial fibrillation and atherosclerosis: What do they have in common?	Emory University
2003	Disordered Sarcoplasmic Reticulum Ca ²⁺ Release May Contribute to Arrhythmic Risk in Heart Failure	Molecular Pathology of Cardiac Arrhythmias- a Keystone Symposium
2003	Atrial fibrillation: Are we treating the right disease?	Emory University
2002	Stem Cells and Arrhythmia: Will Cardiac Cell Transplantation be Safe?	Medical College of Virginia
2002	Stem Cell Derived Cardiomyocytes Show Arrhythmic Potential	Georgia Institute of Technology
2002	Genetics and Stem Cells: Biological, Ethical and Institutional Dimensions.	Emory University
2002	The Science and Ethics of Stem Cell Research (Everything You Always Wanted to Know)	Emory University
2002	Stem Cell Derived Cardiomyocytes Show Arrhythmic Potential	American Heart Association (Dallas)
2002	Stem cell derived cardiomyocytes show arrhythmic potential	University of California San Francisco
2001	Stem Cell Derived Cardiomyocytes Show Arrhythmic	AHFMR Visiting Lecturer/Univ. of Calgary
2001	Potential Refining a Model of the Na Channel Outer Vestibule, Based on Interactions with Several Toxins	AHFMR Visiting Lecturer/Univ. of Calgary
2001	Modeling Arrhythmia with Stem Cell Derived Cardiomyocytes	University of North Carolina
2001	Nitric Oxide Modulation by Hydrogen Peroxide, Angiotensin II, and Atrial Fibrillation	University of North Carolina

2001	Modeling Arrhythmia with Stem Cell Derived Cardiomyocytes	Loyola University
2001	Modeling Arrhythmia with Stem Cell Derived Cardiomyocytes	Vanderbilt University
2001	The Stem Cell Debate: Perspectives from Research, Ethics, and Journalism	American Medical Writers Association/ Southeast Chapter
2000	Sodium channel structural biology and possible clinical implications	University of Pittsburgh
1999	The Na ⁺ channel domain architecture revealed by toxin/channel interactions	University of Calgary
1998	Interactions of mu-conotoxin GIIIA the outer vestibule of the sodium channel localized by mutant cycle analysis	University of Vienna

Invitations to National or International Conferences:

2004	25th Annual Scientific Sessions of NASPE	CONTROVERSIES IN BASIC/TRANSLATIONAL SCIENCE: Cardiac Cell Transplantation is Inherently Proarrhythmic and Unsafe
2003	Gordon Conference	Cardiac Arrhythmia Mechanisms
2003	European Society of Cardiology	Arrhythmogenic risk of embryonic stem cells
2002	Gordon Conference	Cardiac Regulatory Mechanisms
2002	Gordon Conference	Ion Channels
2000	Gordon Conference	Cardiac Regulatory Mechanisms
1998	Gordon Conference	Cardiac Regulatory Mechanisms

Other Activities:

2003 - 2003	Biotrek Program	Integrated approaches to the study of cardiovascular disease
Notes:	Host for 1 afternoon in the lab for Biotrek students (high school students)	
2002 - 2002	Biotrek Program	Stem Cell Therapy
Notes:	Host for 1 afternoon in the lab for Biotrek students (high school students)	
1999 - 1999	Solvay Pharmaceuticals/Emory Training program	Cardiovascular Disease
Notes:	Developed and presented a program on cardiovascular disease for Solvay Pharmaceuticals (6 lectures)	

CAI, H.,Z.M. LI, A. GOETTE, F. MERA, C. HONEYCUTT, K. FERERIK, J.N. WILCOX, S.C. DUDLEY, Jr., D.G. HARRISON,J.J. LANGBERG. Downregulation of Nitric Oxide Synthase Expression and Nitric Oxide Production in Atrial Fibrillation: Potential Mechanisms of Atrial Thrombosis and Stroke. (2002). *Circulation* vol. 106, 2854-2858.

HILBER, K.,W. SANDTNER, O. KUDLACEK, B. SCHREINER, I. GLAASER, W. SCHÜTZ, H.A. FOZZARD, S.C. DUDLEY,H. TODT. Interaction between Fast and Ultra-Slow Inactivation in the Voltage-Gated Sodium Channel: Does the Inactivation Gate Stabilize the Channel Structure?. (2002). *J. Biol. Chem.* vol. 277, 37105-37115.

CAI, H.,Z. LI, S. DIKALOV, S.C. DUDLEY, Jr.,D.G. HARRISON. NAD(P)H Oxidase Derived Hydrogen Peroxide Mediates Endothelial Nitric Oxide Production Stimulated by Angiotensin II. (2002). *J. Biol. Chem.* vol. 277, 48311-48317.

PENZOTTI, J.L.,G. LIPKIND, H.A. FOZZARD,S.C. DUDLEY, Jr. Specific Neosaxitoxin Interactions with the Na⁺ Channel Outer Vestibule Determined by Mutant Cycle Analysis. (2001). *Biochemistry* vol. 80, 698-706.

HILBER, K., W. SANDTNER, O. KUDLACEK,I. GLAASER, E. WEISZ, J.W. KYLE, R.J. FRENCH,H.A. FOZZARD, S.C. DUDLEY, Jr., & H. TODT. The Selectivity Filter of the Voltage-Gated Sodium Channel is Involved in Channel Activation. (2001). *J. Biol. Chem.* vol. 276, 27831-27839.

CHOUDHARY, G.,S.C. DUDLEY. Heart Failure, Oxidative Stress and Ion Channel Modulation. (2001). *Congestive Heart Failure* vol. May/June 2002, 148-155.

LI, R.A., I.L. ENNIS,R.J. FRENCH, S.C. DUDLEY, Jr.,G.F. TOMASELLI, & E. MARBAN. Clockwise Domain Arrangement of the Sodium Channel Revealed by mu-Conotoxin (GIIIA) Docking Orientation. (2001). *J. Biol. Chem.* vol. 276, 11072-11077.

O'COCKLAIN, B.,R. SCHWARTZ, V. KAUSHIK,S.C. DUDLEY, Jr. Current Topics in Electrophysiology: Case Studies. (2000). *Hospital Physician* vol. 6 (Part 2), 1-12.

DUDLEY, Jr., S.C.,N. CHANG, J. HALL,G. LIPKIND, H.A. FOZZARD, & R.J. FRENCH. mu-Conotoxin GIIIA Interactions with the Voltage-Gated Na⁺ Channel Predict a Clockwise Arrangement of the Domains. (2000). *J. Gen. Physiol.* vol. 116, 679-689.

CHANG, N.S.,R.J. FRENCH, G. LIPKIND,H.A. FOZZARD & S.C. DUDLEY, Jr. Predominant Interactions between mu-Conotoxin Arg-13 and the Skeletal Muscle Na⁺ Channel Localized by Mutant Cycle Analysis. (1998). *Biochemistry* vol. 37, 4407-4419.

PENZOTTI, J.L.,G. LIPKIND,H.A. FOZZARD & S.C. DUDLEY, Jr. Differences in Saxitoxin and Tetrodotoxin Binding Revealed by Mutagenesis of the Outer Vestibule of the Na⁺ Channel. (1998). *Biophys. J.* vol. 75, 2647-2657.

TODT, H.A.,S.C. DUDLEY, J.W. KYLE,R.J. FRENCH & H.A. FOZZARD. Ultra-Slow Inactivation in mu₁ Na⁺ Channels is Produced by a Structural Rearrangement of the Outer Vestibule. (1998). *Biophys. J.* vol. 76, 1335-1345.

SUNAMI, A.,S.C. DUDLEY,H.A. FOZZARD. Sodium Channel Selectivity Filter Regulates Antiarrhythmic Drug Binding. (1997). *Proc.Nat'l.Acad.Sci USA* vol. 94, 14126-14131.

BAUMGARTEN, C.M.,S.C. DUDLEY,R.B. ROGART & H.A. FOZZARD. Unitary Conductance of Na⁺ Channel Isoforms in Cardiac and NB2a Neuroblastoma Cells. (1995). *Am. J. Physiol.* vol. 269(Cell Physiol.38), C1356 - C1363.

DUDLEY, Jr., S.C.,H. TODT, G. LIPKIND,H.A. FOZZARD. A mu-Conotoxin Insensitive Na⁺ Channel Mutant: Possible Localization of a Binding Site at the Outer Vestibule. (1995). *Biophys. J.* vol. 69, 1657-1665.

DUDLEY, Jr., S.C.,C.M. BAUMGARTEN. Modification of Cardiac Sodium Channels by Carboxyl Reagents: Trimethyloxonium and Water Soluble Carbodiimide. (1993). *J. Gen. Physiol.* vol. 101, 651-671.

DUDLEY, Jr., S.C.,C.M. BAUMGARTEN. Bursting of Cardiac Sodium Channels after Acute Exposure to 3,5,3'-Triiodo-L-Thyronine. (1993). *Circ. Res.* vol. 73, 301-313.

DUDLEY, Jr., S.C.,C.M. BAUMGARTEN,J.P. ORNATO. Reversal of Low Voltage and Infarction Pattern on the Surface Electrocardiogram after Renal Hemodialysis. (1990). *J. Electrocardiology* vol. 23, 341-346.

b. Manuscripts submitted:

Shang, L. and S.C. Dudley, Jr.. Tissue-specific, developmentally-regulated 5 untranslated regions and tandem promoters of the mouse *scn5a* cardiac sodium channel gene alpha-subunit. (08/2004). Tissue-specific, developmentally-regulated 5 untranslated regions and tandem promoters of the mouse *scn5a* cardiac sodium channel gene alpha-subunit. Manuscript submitted for publication.

Zhang, Y.M., K.R. Boheler, M. Narlow, S.C. Dudley, Jr.. Reduced sarcoplasmic reticulum Ca²⁺ release may contribute to arrhythmic risk. (09/2003). Reduced sarcoplasmic reticulum Ca²⁺ release may contribute to arrhythmic risk. Manuscript submitted for publication.

c. Review articles:

d. Symposium Contributions:

e. Books edited and written:

f. Book chapters:

Hart, C.M., D.J. Kleinhenz, S.I. Dikalov, B.M. Boulden, and S.C. Dudley, Jr.. (2004). "The Measurement of Nitric Oxide Production by Cultured Endothelial Cells". Methods in Enzymology (pp. In Press). San Diego, CA:Academic Press.

S.C. DUDLEY, Jr., (2002). "Saxitoxin". T.E. Creighton, (ed). Encyclopedia of Molecular Medicine (pp. 2862-2864). New York:Wiley.

ARNSDORF, M.F.,S.C. DUDLEY, (1998). "Gap Junctions, Cardiac Excitability, and Clinical Arrhythmias". W.C. DeMello,M.J. Janse, (ed). Heart Cell Communication in Health and Disease (pp. 217-288). Boston, MA: Kluwer Academic Publishers.

FRENCH, R.J.,S. C. DUDLEY, Jr., (1998). "Pore-blocking Toxins as Probes of Voltage-dependent Channels. What Can They Tell Us?". P.M. Conn, (ed). Methods in Enzymology, Vol. 294, Ion Channels, Part C (pp. 575-604). San Diego, CA:Academic Press.

DUDLEY, Jr. S.C., H.A. FOZZARD, (1995). "Current Understanding of the Structure of the Voltage Gated Sodium Channel". M. Morad, (ed). Molecular Physiology and Pharmacology of the Cardiac Ion Channels and Transporters (pp. 39-51). Netherlands:Kluwer Academic Publishers.

g. Book reviews:

h. Manuals, videos, computer programs, and other teaching aids:

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