

CURRICULUM VITAE

Joseph A. Hill, M.D., Ph.D.
Professor of Internal Medicine and Molecular Biology
James T. Willerson, M.D. Distinguished Chair in Cardiovascular Diseases
Frank M. Ryburn, Jr, Chair in Heart Research
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Education

1980	B.S.	Wake Forest University Winston-Salem, North Carolina
1987	M.D.	Duke University School of Medicine Durham, North Carolina
1987	Ph.D.	Department of Pharmacology, Duke University Durham, North Carolina

Postgraduate Education

1988-92	Postdoctoral Fellow	Molecular Neurobiology Institut Pasteur, Paris, France
1992-95	Resident	Department of Medicine Brigham and Women's Hospital Harvard Medical School Boston, Massachusetts
1995-97	Clinical Fellow in Cardiology	Brigham and Women's Hospital Harvard Medical School Boston, Massachusetts

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Academic Appointments

1994-1997	Instructor in Medicine	Harvard Medical School Boston, Massachusetts
1994-1997	Research Assistant in Cardiology	Children's Hospital Boston, Massachusetts
1997-2002	Assistant Professor	Division of Cardiovascular Diseases, Department of Internal Medicine, University of Iowa
1998-2002	VA Staff Physician	Department of Veterans Affairs Iowa City, Iowa
1998-2002	Assistant Professor	Interdisciplinary Graduate Program in Molecular Biology
1999-2002	Assistant Professor	Department of Pharmacology University of Iowa, Iowa
2002	Associate Professor	Departments of Internal Medicine and Pharmacology, and the Interdisciplinary Graduate Program in Molecular Biology, University of Iowa
2002-2007	Associate Professor	Department of Internal Medicine University of Texas Southwestern Medical Center
2003-2007	Associate Professor	Department of Molecular Biology University of Texas Southwestern Medical Center
2007-present	Professor	Departments of Internal Medicine and Molecular Biology University of Texas Southwestern Medical Center
2015-present	Member	Hamon Center for Regenerative Science and Medicine University of Texas Southwestern Medical Center

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Administrative Appointments

1996	Rotating Chief Medical Resident	Brockton-West Roxbury VA Hospital, Boston, MA
1998-2002	Director, Cardiovascular Fellowship Program	Division of Cardiovascular Diseases, Department of Internal Medicine, University of Iowa
2002-present	Chief of Cardiology	University of Texas Southwestern Medical Center
2002-present	Director	Harry S. Moss Heart Center UT Southwestern Medical Center
2003-2009	Director of Education	Donald W. Reynolds Cardiovascular Clinical Research Center UT Southwestern Medical Center
2009-2014	Member, Board of Directors	Seton – UT Southwestern Physicians Group 501(a)

Board Certification

Diplomate, American Board of Internal Medicine, 1995
2005, recertified through 2015

Diplomate, American Board of Internal Medicine
Subspecialty in Cardiovascular Diseases, 1997
2005, recertified through 2017
2014, recertified through 2027

Licensure

Massachusetts, 79676	1994 – 1999
Iowa, 31877	1997 – 2005 (inactive)
Texas, M2347	2005 – present

Joseph A. Hill, M.D., Ph.D.

Honors and Awards

- 1977 Guy T. Carswell Scholar, Wake Forest University
- 1978 Phi Beta Kappa
- 1978 Omicron Delta Kappa, Mortar Board Honor Societies
- 1979 Alcoa Aluminum Scholar in Chemistry
- 1987 American Federation of Clinical Research Trainee Award
- 1998 Fellow, American College of Cardiology
- 1999 AstraZeneca Cardiovascular Young Investigator Award
- 2000 Fellow, American Heart Association,
Council on High Blood Pressure Research
- 2002 Selected as a Best Teacher and Role Model by Internal Medicine
Residents, University of Iowa
- 2002 James T. Willerson, M.D. Distinguished Chair in Cardiovascular Diseases,
UT Southwestern
- 2002 Frank M. Ryburn, Jr, Chair in Heart Research, UT Southwestern
- 2003 Association of University Cardiologists
- 2004-2006 Councilor, Association of Professors of Cardiology
- 2006 American Heart Association Established Investigator
- 2008 President-Elect, Association of Professors of Cardiology
- 2009 Councilor, Association of University Cardiologists
- 2009 President, Association of Professors of Cardiology
- 2009 elected, Association of American Physicians
- 2009 Inaugural Fellow, American Heart Association,
Council on Functional Genomics and Translational Biology
- 2010 Vice-President, Association of University Cardiologists
- 2010 Fellow, International Society for Heart Research
- 2010 NIH College of CSR Reviewers
- 2011 President, Association of University Cardiologists
- 2011 Outstanding Teacher Award, UT Southwestern MS1 Class
- 2012 Election, AOA Medical Honor Society
- 2013 Fellow, Pulmonary Vascular Research Institute
- 2013 Outstanding Teacher Award, UT Southwestern MS1 Class
- 2014 Outstanding Teacher Award, UT Southwestern MS1 Class
- 2014-present Consulting Editor, *Circulation Research*
- 2014 *Circulation Research*, #1 Reviewer of the Year
- 2015 Fellow, American College of Physicians
- 2015 Editor-in-Chief Elect, *Circulation*
- 2015 Dan May Memorial Lecture, Vanderbilt University Medical Center
- 2015 George E. Brown Memorial Lecturer, American Heart Association
- 2015 Fellow, International Academy of Cardiovascular Sciences
- 2015 Shapur Naimi Lecture, Tufts Medical Center, Boston
- 2015 James T. Willerson Lecture, UT Houston
- 2015 Chosen as one of Best Doctors in Dallas 2015, *D Magazine*
- 2015 *Circulation Research*, Superior Editorial Consultant
- 2015 *Circulation Research*, Consulting Editor of the Year

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- 2016-present Editor-in-Chief, *Circulation*
- 2016 Fellow, Heart Failure Society of America
- 2016 Frank N. Wilson Visiting Professor, University of Michigan
- 2016 Rolf Gunnar, MD Lecture, University of Illinois at Chicago
- 2016 Anandi L. Sharma Visiting Professor of Cardiovascular Medicine, Mt Sinai Medical Center, New York, NY
- 2016 Simon Dack Lecturer, Mt Sinai Medical Center, New York, NY
- 2016 Senior Consulting Editor, *Circulation Research*
- 2016 Chosen as one of Best Doctors in Dallas 2016, *D Magazine*
- 2017 20th Gertrude and Florian Nelson Cardiovascular Research Lecturer, Cardiovascular-Renal Research Center, University of Mississippi
- 2017 Thomas W. Smith Memorial Lecturer, Brigham and Women's Hospital
- 2017 Top 10 Distinguished International Cardiologists who contributed to the Development of Cardiovascular Medicine in China
- 2018 Research Achievement Award, International Society for Heart Research
- 2018 Honorary Award Lecture on Clinical Science, Germany Cardiac Society, Mannheim
- 2018 Keynote Speaker, Cardiovascular Research Day, Northwestern University
- 2018 International Scientific Advisory Panel for Research Excellence Awards, British Heart Foundation
- 2018 Dr. Arnold Katz Achievement Award, Sarnoff Cardiovascular Research Foundation

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Editorial Boards

American Journal of Physiology, Heart and Circulatory Physiology, 1998 - present
American Journal of Cardiovascular Drugs, 2000 – present
Circulation, 2003 – present
Journal of Cardiovascular Electrophysiology, 2004 – 2017
Current Cardiology Reviews, 2004 – present
Journal of Biological Chemistry, 2008 – 10/2013
Circulation Research, Guest Editor, thematic series on autophagy, 2008
Circulation: Cardiovascular Genetics, 2008 – present
Circulation Research, 2009 – present
Autophagy, 2010 – present
American Journal of Cardiology, 2011 – present
Circulation Research, Consulting Editor, 2014 – 2016
Circulation, Editor-in-Chief, 2016 – present
Circulation Research, Guest Editor, Obesity, Diabetes, and Cardiovascular Diseases
American Journal of Physiology – Heart and Circulatory Physiology, co-Guest Editor,
Epigenetics of Cardiovascular Disease
Circulation Research, Senior Consulting Editor, 2016 – present

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Manuscript Reviewer

ACS Chemical Biology
American Journal of Cardiology (editorial board member)
American Journal of Cardiovascular Drugs
American Journal of Physiology – Heart and Circulatory Physiology (editorial board member)
Atherosclerosis Thrombosis and Vascular Biology
Autophagy (editorial board member)
Biochimica Biophysica Acta
BBA - Molecular Cell Research
Canadian J Physiol Pharmacol
Cell
Cell Death and Differentiation
Cell Metabolism
Circulation (editorial board member, Editor-in-Chief Elect)
Circulation – Heart Failure
Circulation Research (editorial board member)
Developmental Cell
Diabetes
eLife
European Journal of Heart Failure
European Journal of Pharmacology
Journal of the American College of Cardiology (JACC)
Journal of the American Heart Association (JAHA)
Journal of the American Medical Association (JAMA)
Journal of Biological Chemistry (editorial board member)
Journal of Cardiac Failure
Journal of Cardiovascular Electrophysiology (editorial board member)
Journal of Cell Biology
Journal of Cellular Physiology
Journal of Clinical Investigation
Journal of Interventional Cardiac Electrophysiology
Journal of Molecular Medicine
Nature Communications
Nature Reviews Cardiology
Nature Reviews Drug Discovery
New England Journal of Medicine
Proceedings of the National Academy of Sciences of the USA (PNAS)
PLoS One
Science
Science – Translational Medicine
Scientific Reports
Stem Cells and Development
Trends in Endocrinology and Metabolism

Abstract Reviewer

American Heart Association Scientific Sessions
American College of Cardiology Scientific Sessions

Journal Editorship

2014-2016	Consulting Editor, <i>Circulation Research</i>
2015	Editor-in-Chief Elect, <i>Circulation</i>
2016-present	Senior Consulting Editor, <i>Circulation Research</i>
2016-present	Editor-in-Chief, <i>Circulation</i>

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Review Panels

2002-2004	Peer Review Study Group, Cardiovascular Pathophysiology III, American Heart Association
2002-2008	NIH NRSA Study Section F10, standing member
2004-present	co-Chairman, Cardiovascular Sciences, German National Genome Research Network
2004-present	Peer Review Committee 2B, standing member American Heart Association Western Review Consortium
2005-2009	VA Merit Review Subcommittee for Cardiovascular Diseases, standing member
2005	NHLBI Program Project Grant (PPG) Special Review Committee, ad hoc reviewer
2006-2008	co-Chairman, AHA Western Consortium Peer Review Committee 2B
2006-2009	AHA National Center Electrophysiology Peer Review Study Group, standing member
2006	NIH Special Emphasis Review Panel on Electrical Signaling, Ion Transport, and Arrhythmias
2007	Permanent member, German national program entitled Functional Genome Research for Human Health
2007	Temporary Member, NIH Study Section, Electrical Signaling, Ion Transport and Arrhythmias (ESTA)
2008-2011	Temporary Member, NIH Study Section, Cardiac Contractility and Heart Failure (CCHF)
2008	NIH Special Emphasis Review Panel on Cardiac Hypertrophy and Failure
2008	NIH Special Emphasis Review Panel, Electrical Signaling, Ion Transport and Arrhythmias (ESTA) Study Section
2008	NIH Special Review Committee, PPG application "Load-Induced Cardiac Hypertrophy in the Adult Mammal"
2008	NIH Special Emphasis Review Panel ZRG1 CVS D-02
2008-2011	Secretarial appointee on the VA Joint Biomedical Laboratory Research and Development and Clinical Science Research Merit Review Board
2009	NIH Special Emphasis Panel/Scientific Review Group 2009/10 ZRG1 CVRS-B (58) R
2009	NIH Special Emphasis Panel/Scientific Review Group ZRG1 SBIB-L (29)
2009-present	Chairman, International Review Panel for the Agence Nationale de la Recherche (ANR) – Bundesministerium für Bildung und Forschung (BMBF) program "Genomics and Physiopathology of Cardiovascular and Metabolic Diseases"
2009	NIH Special Emphasis Panel/Scientific Review Group, Physiology and Pathobiology of Cardiovascular and Respiratory Systems (F10A)
2010	NIH Special Emphasis Panel/Scientific Review Group, Cardiovascular and Respiratory Sciences, ZRG1 CVRS E-02 M
2011-2013	Chair, American Heart Association Cardiac Bio BCT5 – CL Study Group
2011-2014	Chartered Member, NIH Study Section, Cardiac Contractility and Heart Failure (CCHF)

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2012	AHA review panel for Innovative Research Grants
2012	Review Panel, Research Consortia for Systems Medicine, Deutschen Zentrum für Luft- und Raumfahrt e.V. Gesundheitsforschung, Berlin, Germany
2013-2014	AHA IRG Basic Science and Bioengineering Peer Review Study Group
2015	Bundesministerium für Bildung und Forschung (BMBF) program “Innovations for Individualized Medicine”, Berlin, Germany
2015	NIH study section PAR-14-280: Pilot Centers for Precision Disease Modeling (U54) [ZRG1 IMST-R (50) R]
2015	NIH Special Emphasis Panel (ZRG1 CVRS-B 02)
2015	NIH Special Emphasis Panel HLBP (10)
2015	Review panel, Fonds Wetenschappelijk Onderzoek – Vlaanderen (Research Foundation - Flanders)
2015	Review panel, French National Research Agency
2016	NIH Special Emphasis Panel (ZRG1 CBJ55R)
2016	NIH Special Emphasis Panel to review CTSAs
2016	Bundesministerium für Bildung und Forschung (BMBF) program “Research Consortia for Systems Medicine”, Berlin, Germany
2016	NIH Special Emphasis Panel (XRG1 CBJ55R)
2016	NIH Special Emphasis Panel: AREA/R15
2016	ADA Research Grant Review Committee
2016-present	NHLBI Protocol Review Committee (PRC) for the Heart Failure Network.
2017	NIH Study Section, Cardiac Contractility and Heart Failure (CCHF)
2018	International Scientific Advisory Panel for Research Excellence Awards, British Heart Foundation
2018	NIH SEP/SRG 2018/10 ZRG1 SBIB-D (82) R

Professional Organizations

- 1983- American Medical Association
- 1990- American Association for the Advancement of Science
- 1995- Associate, American College of Physicians
- 1995- Basic Science Council of the American Heart Association
- 1999- Member, American Physiological Society
- 1999- Member, American Federation for Medical Research
- 1999- Fellow, American College of Cardiology
- 1999- Member, Biophysical Society
- 2000- Member, Cardiac Muscle Society
- 2000- Member, American Society of Hypertension
- 2000- Member, Central Society for Clinical Research
- 2000- Fellow, Council on High Blood Pressure Research
- 2002- Association of Professors of Cardiology
- 2003- Heart Failure Society of America
- 2005- International Society for Heart Research
- 2007- Member, Heart Rhythm Society
- 2012- Southern Society for Clinical Investigation

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Service and Committee Participation

Alpha Omega Alpha Honor Medical Society (AOA)

2007-present Student Research Fellowship Review Panel

American College of Cardiology (ACC)

2008-2010 Awards Committee
2009 Chair, Awards Committee
2009-present Program Faculty, ACC Cardiovascular Leadership Institute
2010-present Cardiovascular Leadership Institute (CLI) Work Group
2010-2013 Inaugural Chair, Council on Academic Cardiology
2011 Planning Committee, Cardiovascular Care Summit
2012-2018 Chair, Research Fellowship Awards Committee
2012-present Cardiovascular Leadership Institute (CLI) Steering Committee
2012-2013 Writing Committee, COCATS Task Force 15:
CV Research and Scholarly Activity
2013-present ACC Section Steering Committee
2013-2014 Research and Career Development Awards Task Force
2014 Advocacy Work Group of the Strategic Planning Task Force
2014-2016 ACC Advocacy Ambassador

American Heart Association (AHA)

2007-present Leadership Committee, Council on Functional Genomics and Translational Biology
2007-present Research Committee, AHA Western States Consortium
2008 Search Committee, *Circulation Research* Editor-in-Chief
2008-present Awards and Lectures Subcommittee of the Committee on Scientific Councils
2008-2011 Program Committee, AHA Council on Basic Cardiovascular Sciences
2008-present Program Committee, AHA Basic Cardiovascular Sciences Council
2010-present Scientific Publishing Committee
2010-present Katz Award Committee
2011 Chair, Cardiac Bio BCT5 – CL Study Group
2012 AHA Continuing Medical Education Peer Review Training Program Task Force – Abstracts
2013-2015 Committee for Scientific Sessions Program (CSSP) of the Basic Cardiovascular Sciences (BCVS) Council
2013-2015 Basic Cardiovascular Sciences Leadership Committee
2013-2015 Committee on Scientific Sessions Program
2014-2016 AHA National Research Committee
2015 BCVS Meeting Program Committee
2015 Incoming President, Dallas County Affiliate Board
2016-present Editor-in-Chief, *Circulation*
2016-2017 President, Dallas County Affiliate Board
2016-present Liaison, Editor, *Circulation*, Leadership Committee of the Council on Clinical Cardiology

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Association of American Medical Colleges (AAMC)

2013-present Council of Faculty and Academic Societies (CFAS)
2013-present Administrative Board, CFAS

Association of Professors of Cardiology (APC)

2004 Nominating Committee
2008 President-Elect
2009 President

Association of Subspecialty Professors (ASP)

2012-2014 ASP Council

Association of University Cardiologists (AUC)

2010 Vice-President
2011 President

Dallas County Medical Society (DCMS)

2003-present Legislative Affairs Committee
2005-present Delegate to Texas Medical Association
2009-2011 Board of Directors
2009-2011 Board of Directors, Dallas County Medical Society Foundation
2010-2012 Nominating Committee

Gilead Sciences Research Scholars Program in Cardiovascular Disease

2010-present Scientific Review Committee
2014-present Chair, Scientific Review Committee

Heart Failure Society of America (HFSA)

2011-2012 Advocacy Committee
2012-present Board of Directors
2013-present chair, Advocacy Committee
2015-present Nominations Committee

Heart Rhythm Society (HRS)

2010-present Clinical and Research Training Committee

International Society for Heart Research (ISHR)

2014-2020 Council, North American Section

Sarnoff Foundation

2008-present	Scientific Advisory Board
2008	Sarnoff Foundation Program Evaluation Task Force
2009	Sarnoff Transition Award Application Review Task Force
2010-present	Board of Directors
2010	Program Committee, 31 st Annual Scientific Meeting
2011-present	Chair, Development Committee
2012-present	Audit Committee
2017-present	Nominations Committee
2018-2019	Vice Chair, Board of Directors

UT Southwestern Medical Center

2004-present	Research Advisory Committee to the President
2010	Search Committee, Chair of Cardiovascular and Thoracic Surgery, UT Southwestern
2013-present	Internal Medicine Promotions and Tenure Committee
2014-2016	Chair, Search Committee, Chief of Infectious Diseases

Miscellaneous

2010-present	External Advisory Board, T32 Training Grant, Johns Hopkins
2016-present	External Advisory Board, T32 Training Grant, UCSD
2016-present	External Advisory Board, T32 Training Grant, UCLA

Writing/Working Groups

2009	ESC Working Group: Cardiovascular side effects of cancer therapies
2011-present	Working Group on ECG Diagnosis; <i>Journal of Electrocardiology</i>
2013-present	COCATS Task Force 7, Training in CV Research and Scholarly Activity
2013-present	AHA CME Peer Review Training Program Task Force

Legislative Advocacy Activities

2003-present	Legislative Affairs Committee, Dallas County Med Soc
2008-present	ACC Legislative Conference, Washington, DC
2009-present	Board of Directors, Dallas County Medical Society
2013-present	Chair, HFSA Advocacy Committee
2015-2016	ACC Advocacy Ambassador

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Invited Lectures

- 5/98 “Transgenic Animals in Cardiac Electrophysiology”, NASPE
- 4/99 “Hypertrophic Cardiomyopathy: Dissociation of Fundamental Components”, Physiology Department, SUNY-Buffalo.
- 2/00 “Hypertrophic Cardiomyopathy: Role of Calcineurin in Structural, Electrical, and Functional Remodeling”, Department of Medicine, Stanford University
- 11/01 “Electrophysiological and Functional Remodeling in Hypertrophy”, Invited Lecture during pre-meeting symposium at the American Heart Association Scientific Sessions, 2001

2002

- 1/02 Cardiology Grand Rounds, University of Pennsylvania
- 7/02 Invited lecturer at 8th World Congress on Heart Failure, Washington, DC
- 8/02 “Cardiac Hypertrophy and Failure: Molecular Mechanisms of Remodeling”, University of Alabama-Birmingham
- 10/02 Invited lecturer at the American College of Physicians – Illinois Chapter, Champaign-Urbana, IL
- 11/02 “Electrophysiological Remodeling in Cardiac Hypertrophy and Failure”, Invited Lecture during pre-meeting symposium at the American Heart Association Scientific Sessions, 2002

2003

- 3/03 “Cardiac Hypertrophy and Failure: Mechanisms of Remodeling”, Cardiology Grand Rounds, Tulane University, New Orleans, LA
- 3/03 Discussant at Clinicopathological Conference, Parkland Memorial Hospital, Dallas, TX
- 8/03 Visiting Professor and Cardiology Grand Rounds, St. Louis University
- 12/03 Visiting Professor and Cardiology Grand Rounds, University of Virginia

2004

- 1/04 Visiting Professor and Medical Grand Rounds, University of Iceland, Reykjavik
- 6/04 “Cardiac Hypertrophy and Failure: Mechanisms of Remodeling”, featured speaker at the American College of Sports Medicine, Indianapolis, IN
- 6/04 Grand Rounds, Division of Pediatric Cardiology, UT Southwestern
- 9/04 Keynote Speaker, MSTP Annual Retreat, UT Southwestern

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2005

- 3/05 Visiting Professor and Cardiology Grand Rounds, Massachusetts General Hospital
- 7/05 Visiting Professor and Medical Grand Rounds, Inje University, Kimhae, South Korea
- 7/05 Visiting Professor and Cardiology Grand Rounds, Catholic University of Korea, Seoul

2006

- 4/06 Plenary lecture, Scientific Sessions, Taiwan Society of Cardiology, Taiwan
- 8/06 Invited Speaker, AHA Basic Cardiovascular Science Symposium, Keystone, CO
- 10/06 Visiting Professor and Cardiology Grand Rounds, Texas Heart Institute, Baylor College of Medicine, Houston
- 11/06 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago

2007

- 1/07 Visiting Professor and Cardiology Grand Rounds, UT Houston
- 2/07 Visiting Professor and Cardiology Grand Rounds, Case Western Reserve University, Cleveland
- 5/07 Visiting Professor and Cardiology Grand Rounds, University of Iowa
- 10/07 Invited Speaker, Korean Circulation Society, Seoul, South Korea
- 10/07 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago

2008

- 1/08 Invited Speaker, Keystone Conference entitled, "Pathological and Physiological Regulation of Cardiac Hypertrophy", Keystone, CO
- 3/08 Invited Speaker, German Cardiac Society, Mannheim, Germany
- 3/08 Internal Medicine Grand Rounds, Presbyterian Hospital, Dallas, TX
- 5/08 Visiting Professor, Albert Einstein College of Medicine, New York, NY
- 7/08 Invited Speaker, AHA BCVS-Keystone Conference, Keystone, CO
- 9/08 Cardiology Grand Rounds, Texas Heart Institute, Baylor COM, Houston
- 10/08 Crampton Lecture, University of Virginia, Charlottesville
- 10/08 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago
- 10/08 Visiting Professor, Duke - National University of Singapore Graduate Medical School, Singapore
- 11/08 Plenary lecture entitled "Remodeling DNA to Prevent Heart Failure", American Heart Association 2008 Scientific Sessions, New Orleans
- 11/08 Invited Speaker, Center for Drug Discovery and Chemical Biology, Northwestern University
- 12/08 Cardiology Grand Rounds, University of Pittsburgh

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2009

- 1/09 Leonard Leight Memorial Lecture, University of Louisville, Louisville, KY
- 2/09 Visiting Professor, Boston University, Boston, MA
- 2/09 Visiting Professor, Department of Pediatrics, Emory University
- 2/09 Visiting Professor, Department of Pharmacology, Emory University
- 2/09 Dean's Distinguished Lecture Series, University of Kentucky
- 4/09 Invited Speaker, American Society for Investigative Pathology, New Orleans
- 5/09 Invited Speaker, Heart Failure Association of the European Society of Cardiology, Brussels, Belgium
- 5/09 Keynote Speaker, Molecular Regulation of Cardiac Disease, London, UK
- 6/09 Keynote Speaker, XXII Nordic-Baltic Congress of Cardiology, Reykjavik, Iceland
- 6/09 Keynote Speaker, University of Iowa Cardiovascular Medicine Symposium
- 8/09 Invited Speaker, Society for Heart and Vascular Metabolism-sponsored Symposium entitled "New Metabolic Signaling Mechanisms", Padova, Italy
- 10/09 Visiting Professor, Cardiology Grand Rounds, University of Connecticut
- 10/09 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago
- 12/09 International Lecture, Italian Society of Cardiology, Rome, Italy

2010

- 1/10 Visiting Professor, Cardiology Grand Rounds, New York University
- 2/10 Invited Speaker, Keystone Conference on Cardiovascular Development and Repair, Keystone, CO
- 5/10 Belfer Lecture, Johns Hopkins School of Medicine;
Keynote Speaker at the inaugural Cardiovascular Institute Research Retreat, Johns Hopkins School of Medicine
- 6/10 Invited Speaker, World Congress of the International Society for Heart Research, Kyoto, Japan
- 7/10 Invited Speaker, AHA BCVS Conference, Palm Springs, CA
- 9/10 Invited Speaker, Riley Heart Center Symposium on Cardiac Development, Indiana University
- 10/10 Anna & Harry Borun Visiting Professor, Cardiology Grand Rounds, UCLA
- 10/10 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago
- 11/10 Visiting Professor, Cincinnati Children's Heart Institute
- 11/10 Invited Speaker, Cancer and the Heart, M.D. Anderson Cancer Center, Houston, TX
- 11/10 Visiting Professor, Cardiology Grand Rounds, Northwestern University

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2011

- 1/11 Visiting Professor, Cardiology Grand Rounds, Washington University – St Louis
- 2/11 Visiting Professor, Cardiology Grand Rounds, U Texas – Houston
- 3/11 Invited Speaker, La Jolla - International Cardiovascular Research Conference: Molecular and Cellular Insights of Cardiac Disease, La Jolla, CA
- 3/11 Invited Speaker, Keystone Symposium “Mechanisms of Cardiac Growth, Death, and Regeneration”
- 4/11 Invited Speaker, American College of Cardiology Cardiovascular Leadership Institute Symposium entitled “The Future of America’s Heart Centers: Physician Leadership”
- 4/11 Visiting Professor, Institute of Cardiovascular Sciences, Winnipeg, Canada\
- 5/11 Invited Speaker, NHLBI Conference entitled Advances in Mitochondrial Dynamics and Mitochondrial-Cytosolic Communications, Bethesda, MD
- 5/11 Invited Plenary Lecture, American Society of Hypertension Annual Scientific Meeting, New York, NY
- 6/11 Visiting Professor and Keynote Speaker, Emory Cardiology Research Symposium
- 7/11 Invited Speaker, AHA BCVS Conference, New Orleans, LA
- 9/11 Invited Speaker, Heart Failure Society of America, Boston, MA
- 9/11 Distinguished Guest Lecturer, Molecular Cardiology Research Institute, Tufts Medical Center
- 9/11 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago
- 10/11 Visiting Professor, University of Illinois – Chicago, Chicago, IL
- 10/11 Visiting Professor, Beth Israel Deaconess Medical Center, Boston, MA
- 11/11 Invited Speaker, American Heart Association Scientific Sessions, Orlando, FL

2012

- 1/12 Invited Speaker, ACC Cardiovascular Care Summit, Las Vegas
- 1/12 Distinguished Visiting Professor, Cardiology Grand Rounds, University of Colorado
- 2/12 Visiting Professor, San Diego State University
- 3/12 Keynote Speaker, Cell Death and Differentiation Symposium, Scott & White Hospital, Texas A&M University
- 4/12 Invited Speaker, ACC.12 Scientific Sessions of the American College of Cardiology
- 4/12 Invited Speaker, International Soc of Clinical Electrophysiology, Birmingham, AL
- 5/12 Invited Speaker, Heart Rhythm Society Scientific Sessions, Boston, MA
- 6/12 Invited Speaker, NHLBI/NCI-sponsored symposium “Omics and Integration in Biology and Medicine”
- 6/12 Calabresi Lecture, Yale School of Medicine
- 6/12 Invited Speaker, Cardiac Metabolism in Hypertrophy and Heart Failure, Oxford, UK
- 8/12 Visiting Professor, University of Hamburg, Hamburg, Germany
- 9/12 Visiting Professor, Sanford Research Center, Sioux Falls, SD
- 9/12 Visiting Professor, University of South Dakota
- 9/12 Invited Faculty and Judge, Northwestern University Cardiovascular Young Investigator Forum, Chicago
- 10/12 Obesity Grand Rounds, UT Southwestern Medical center

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- 10/12 Laurence H. Green Memorial Lecture, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- 10/12 Cardiology Grand Rounds, University of Louisville
- 11/12 Invited Speaker, Second International Conference on Cancer and the Heart, MD Anderson Cancer Center, Houston, TX
- 12/12 Invited Speaker, British Pharmacology Society, London, UK
- 12/12 Penn Cardiovascular Seminar Series, University of Pennsylvania, Philadelphia
- 12/12 Cardiology Grand Rounds, University of Pennsylvania, Philadelphia

2013

- 1/13 Invited Speaker, Utah Cardiac Recovery Symposium, Salt Lake City, UT
- 1/13 Theophilos J. Tsagaris Memorial Lecture, University of Utah
- 1/13 Invited Speaker, Pulmonary Vascular Research Institute meeting, Istanbul, Turkey
- 2/13 Invited Speaker, Keystone Symposium "Mitochondria, Metabolism, and Myocardial Function – Basic Advances to Translational Studies", Keystone, CO
- 2/13 Cardiology Grand Rounds, Texas A&M University, Houston, TX
- 2/13 State-of-the-Art Lecture, 2013 Southern Regional Meetings, New Orleans, LA
- 4/13 Cardiology Grand Rounds, University of Massachusetts, Worcester, MA
- 4/13 Newton Stern Lecturer and Visiting Professor, University of Tennessee Health Science Center
- 5/13 Invited Speaker, Heart Rhythm Society, Denver, CO
- 6/13 Invited Speaker, American Diabetes Association, Chicago, IL
- 6/13 Cardiology Grand Rounds, Columbia University, New York, NY
- 6/13 Grand Rounds, Eli Lilly Company, Indianapolis, IN
- 6/13 Invited Speaker, Brigham and Women's Hospital
- 6/13 US Congressional Briefing representing Heart Failure Society of America, Heart Failure: Epidemic Demanding Advances
- 7/13 Invited Speaker, ISHR World Congress XXI, San Diego, CA
- 7/13 Invited Speaker, AHA Basic Cardiovascular Sciences, Las Vegas, NV
- 9/13 Endocrine Grand Rounds, UT Southwestern Medical Center
- 9/13 Invited Speaker, HDAC inhibitors in heart disease; Heart Failure Assoc of America Scientific Sessions, Orlando, FL
- 9/13 Invited Speaker, STIM1 in cardiac failure; Heart Failure Assoc of America Scientific Sessions, Orlando, FL
- 10/13 Invited Speaker, Yangtze River Heart Failure Symposium, Wuhan, China
- 11/13 Invited Speaker, XII Pan-American Association for Biochemistry and Molecular Biology, Puerto Varas, Chile
- 12/13 Visiting Professor, Cedars-Sinai Medical Center, Los Angeles, CA

2014

- 1/14 Invited Speaker, Keystone Symposium "Growth and Wasting in Heart and Skeletal Muscle", Santa Fe, NM
- 2/14 Invited Speaker, UCSD Cardiovascular Science Conference
- 4/14 Distinguished Cardiovascular Lecture, UCLA
- 5/14 Invited speaker, International Society for Heart Research, Miami

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- 5/14 Cardiology Grand Rounds, University of Alabama – Birmingham
- 6/14 Invited speaker and discussion leader, Gordon Research Conference, “Cardiac Regulatory Mechanisms”, Colby-Sawyer College, New London, NH
- 7/14 Invited Speaker, International Society for Heart Research – European Section, Frontiers in Cardiovascular Biology, Barcelona, Spain
- 7/14 Invited Speaker, International Congress on Neuromuscular Diseases XIII, Nice, France
- 9/14 Invited Speaker, Novartis Institutes for Biomedical Research, Cambridge, MA
- 10/14 Invited Speaker, Great Wall International Cardiology Conference, Beijing, China
- 10/14 Invited Speaker, Chinese Academy of Science, Beijing, China
- 10/14 Distinguished Lectureship in Proteomics Science, Jointly Hosted and Sponsored by Institutes of Biomedical Sciences, Fudan University, and the Institute of Health Sciences, Shanghai Institute of Cardiovascular Diseases
- 10/14 Invited Speaker, Aab Cardiovascular Research Institute, University of Rochester
- 12/14 Invited Speaker, Stanford Cardiovascular Institute

2015

- 1/15 Visiting Professor, University of Toronto, Canada
- 1/15 Distinguished Visiting Professor, Heart & Stroke/Richard Lewar Center of Excellence in Cardiovascular Research, Toronto, Canada
- 3/15 Visiting Professor, University of Wisconsin
- 4/15 Invited Speaker, American Society for Investigative Pathology
- 4/15 Invited Speaker, American College of Cardiology ACC.15, San Diego, CA
- 4/15 Visiting Professor, University of Arizona
- 4/15 Invited Speaker, Association of American Medical Colleges Council of Faculty and Academic Societies, San Diego, CA
- 5/15 Cardiology Grand Rounds, Vanderbilt University Medical Center
- 5/15 Dan May Memorial Lecture, Medical Grand Rounds, Vanderbilt University Medical Center
- 7/15 Invited Speaker, AHA Basic Cardiovascular Sciences Council, New Orleans
- 7/15 Visiting Professor, Xijing University, Xi’an, China
- 7/15 Visiting Professor, Peking University, Beijing, China
- 9/15 Visiting Professor, Medical University of South Carolina, Charleston, SC
- 9/15 Visiting Professor, University of Washington, Seattle, Washington
- 10/15 Invited Keynote Speaker, Society of Heart and Vascular Metabolism
- 10/15 Visiting Professor, Tongje University, Wuhan, China
- 10/15 Plenary Speaker, Great Wall International Cardiology Conference, Beijing, China
- 10/15 Co-organizer, UT Southwestern – Wuhan University International Heart Failure Conference, Wuhan, China
- 11/15 George E. Brown Memorial Lecturer, American Heart Association Scientific Sessions, Orlando, Florida
- 12/15 Invited Speaker, Cardiovascular Clinical Trials Forum; Trial Publications, Point and Counterpoint with Major Journal Editors, Washington, DC
- 12/15 Invited Speaker, Cardiovascular Clinical Trials Forum; Phenotyping Heart Failure – Is Precision Medicine the Way Forward?, Washington, DC

Joseph A. Hill, M.D., Ph.D.

- 12/15 Invited Speaker, ICCAD-2015: 11th International Congress on Coronary Artery Disease Conference, Florence, Italy
- 12/15 Invited Speaker, Baylor College of Medicine Cardiovascular Research Institute, Houston, Texas
- 12/15 2015 Shapur Naimi Lecture, Tufts Medical Center, Boston

2016

- 1/16 2015 James T. Willerson Lecture, UT Houston
- 1/16 Frank N. Wilson Visiting Professor, University of Michigan
- 3/16 Visiting Professor, Cardiovascular Sciences Training Program, University of Chicago
- 3/16 Cardiology Grand Rounds, University of Chicago
- 4/16 Invited Speaker, Keystone Symposia on Heart Failure: Genetics, Genomics and Epigenetics/Cardiac Development, Regeneration and Repair
- 6/16 Visiting Professor, University of Ottawa Heart Institute
- 6/16 Visiting Professor, Ottawa Hospital Research Institute
- 7/16 Invited Speaker, CardioVascular Clinical Trialists (CVCT) Asia Forum
- 8/16 Keynote Speaker, Acute Cardiac Unloading and Recovery Symposium, Rome, Italy
- 9/16 Visiting Professor, Duke Clinical Research Institute
- 9/16 Cardiology Grand Rounds, Duke University
- 9/16 Rolf Gunnar, MD Lecture, University of Illinois at Chicago
- 9/16 Keynote Lecture, NORHEART Symposium, University of Oslo, Norway
- 10/16 Slusher Visiting Professor and Grand Rounds Speaker, Oregon Health Sciences University, Portland, OR
- 10/16 Plenary Speaker, Great Wall International Congress of Cardiology, Beijing, China
- 11/16 Anandi L. Sharma Visiting Professor of Cardiovascular Medicine, Mt Sinai Medical Center, New York, NY
- 11/16 Simon Dack Lecturer, Mt Sinai Medical Center, New York, NY

2017

- 1/17 Visiting Professor, Massachusetts General Hospital
- 1/17 Visiting Professor, Wake Forest University
- 1/17 Invited Speaker, UCARS, Utah Cardiac Recovery Symposium
- 2/17 Visiting Professor, University of Alberta
- 2/17 Gertrude and Florian Nelson Cardiovascular Research Lecturer, Cardiovascular-Renal Research Center, University of Mississippi
- 3/17 Visiting Professor, University of Pittsburgh Medical Center
- 3/17 Visiting Professor, Johns Hopkins Medical Center
- 3/17 Invited Speaker, Institute of CardioScience, Johns Hopkins University
- 4/17 Thomas W. Smith Memorial Lecturer, Brigham and Women's Hospital
- 5/17 Plenary Address, Korean Society of Biochemistry and Molecular Biology
- 7/17 Distinguished Keynote Speaker, Academy of Cardiovascular Research Excellent, Acta Pharmacologica Sinica, Portland, Oregon
- 10/16 Plenary Speaker, Great Wall International Congress of Cardiology, Beijing, China

Joseph A. Hill, M.D., Ph.D.

10/17 Keynote Speaker, 80th Anniversary Jiaotong University, Xi'an, China
11/17 Visiting Professor, University of Alabama – Birmingham
11/17 Visiting Professor, Stanford University

2018

2/18 Invited Speaker, Milan Cardiology, Italy
2/18 Visiting Professor, Humanitas University, Milan, Italy
3/18 Keynote Speaker, University of Alabama School of Medicine Research Roundtable
– Birmingham School of Medicine Research Roundtable
4/18 Honorary Award Lecture on Clinical Science, Germany Cardiac Society, Mannheim
4/18 Keynote Speaker, Cardiovascular Research Day, Northwestern University
5/18 Invited Speaker, International Society for Heart Research – North American Section
Meeting, Nova Scotia, Canada
8/18 Invited Speaker, AHA Research Leaders Academy
7/18 Invited Speaker, Cardiovascular Innovations, Denver, CO
10/18 Keynote Speaker, 2018 Cardiovascular Center Research Retreat,
Medical College of Wisconsin

Grants

ACTIVE

R01 HL120732 (Hill) 08/18/2013 – 05/31/2017 1.8 CM
NIH/NHLBI \$245,000

“STMI1: Master Regulator of Calcium Homeostasis in Cardiomyocytes”
Propose to elucidate the role of a recently discovered protein which may serve as a master regulator of Ca²⁺ homeostasis in both physiology and disease.

R01HL126012-01A1 04/01/2016 – 03/31/2020 1.8 CM
NIH/NHLBI \$250,000

FoxO-dependent Control of Cardiovascular Remodeling
To determine and manipulate FoxO1 action in pathological cardiac remodeling, delineate the role of a FoxO1-Vcam1 axis in adult heart and delineate the role of a novel FoxO1-Dio2 axis in heart.
Role: PI

R01HL128215-01A1 04/01/2017 – 03/31/2022 1.8 CM
NIH/NHLBI \$250,000

Mechanisms of obesity-dependent alterations in cardiomyocyte metabolism
To define cardiomyocyte-autonomous mechanisms of diabetic cardiomyopathy.
Role: PI

14SFRN20510023 (Hill) 07/01/2014 – 06/30/2018 2.4 CM
American Heart Association \$954,800

UT Southwestern Medical Center Strategically Focused Prevention Research Center
To define the role of the UPR in metabolic shifts occurring in the transition from LVH to HFpEF, define the role of the UPR in cardiomyocyte autophagy in the transition from LVH to HFpEF, and define the effects of exercise on cardiomyocyte autophagy in the transition from LVH to HFpEF

1T32HL125247-01 7/01/15-6/30/20
NIH-NHLBI

Goal: to develop the next generation of transformative cardiovascular investigators by recruiting highly talented and motivated individuals and preparing them for success in an increasingly competitive and resource-challenged environment.
Role: Director

PREVIOUS 5 YEARS

Fondation Leducq

7/1/11-6/30/16

(Jeffrey Robbins, Mathias Gautel, Program Directors)

Proteotoxicity: an unappreciated mechanism of heart disease and its potential for novel therapeutics. The overall focus is to establish new insights and therapeutic modalities for stabilizing normal cardiac function in the at-risk, proteotoxic heart.

U01

9/30/09-6/30/16

NIH RFA-HL09-010; Microenvironmental Control of Progenitors in Organ Dysfunction and Repair
The proposal is focused on progenitor-stromal interactions and their role in regenerative medicine.
Role: Co-Investigator

CPRIT: Cancer Prevention & Research Institute of Texas (Schneider, Program Director)

Goals are to develop new mechanistic insights and new state-of-the-art therapies for preventing and reversing cardiotoxicity of cancer therapy.

Project 2 (Hill)

6/1/11-4/30/16

Goals are to 1) to define the role and functional consequences of doxorubicin-elicited ROS in triggering cardiomyocyte autophagy; 2) to analyze mechanisms whereby HDAC inhibitors blunt doxorubicin-induced maladaptive autophagy in cardiomyocytes, and 3) to evaluate the in vivo efficacy of HDAC inhibitors in blunting doxorubicin-induced heart failure.

R01 HL090842

4/15/09-3/31/13

NIH/NHLBI; FoxO: Negative Regulator of Cardiac Hypertrophy

Recent studies reveal that FoxO transcription factors are situated at the nexus of multiple forms of cardiac plasticity. By determining their role in pathological cardiac growth and atrophy, we will take steps that may lead to novel strategies to prevent heart failure in humans. There is no overlap between this grant and the current proposal to the AHA.

American Heart Association

5/01/09-3/31/13

AHA DeHaan Cardiac Myogenesis Research Center; Chemical Regulation of Cardiac Regeneration and Repair (Project 2) (Hill)

Project will study the role of small molecules and miRs in cardiac regeneration.

R01 HL080144

12/01/06-12/31/12

NIH/NHLBI; HDAC Inhibition in Cardiac Hypertrophy and Failure

The specific aims of this proposal are: 1) To test the efficacy of small-molecule HDAC inhibitors in mouse models of pressure overload hypertrophy and failure; 2) To examine two prominent molecular mechanisms through which HDAC inhibitors may influence myocyte hypertrophy; 3) To elucidate mechanisms through which HDAC inhibitors may influence cardiac contractility and preserve systolic performance; 4) To assess the impact of HDAC inhibitors on fibroblast activation and proliferation: There is no overlap between this grant and the current proposal to the AHA.

1 P30 HL101254

9/30/09-8/31/11

NIH/NHLBI; Functional Genomics of Complex Vascular Disease

In order to expand research in complex vascular disease, the Division of Cardiology has recruited Anwarul Ferdous, PhD, to facilitate our growth in this area.

R01 HL075173

8/01/05-6/30/11

NIH/NHLBI; Calcineurin-Mediated Regulation of Cardiac Ca²⁺ Channel

The long-term objective of this grant is to determine how calcineurin regulates Ca²⁺ channel function. There is no overlap between this grant and the current proposal to the AHA.

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CURRENT GRANTS TO TRAINEES

Dian Cao, MD, PhD

K08 HL116801

7/01/14-6/30/19

NIH/NHLBI

Autophagy in Metabolic Stress and Cardiac Function: Regulation by the HDAC-FoxO Axis

Min Xie, MD, PhD

1K08 HL127305-01

4/01/15-3/31/20

NIH/NHLBI

Goal: By manipulating autophagy using two strategies: a) HDAC inhibition, and b) a cell-permeable peptide (Tat-Beclin), a strong autophagy activator, we will define mechanisms whereby activated autophagy is protective, focusing on excessive ROS production by defective mitochondria escaping autophagic elimination.

14SDG18440002 (Wang)

1/01/14-12/31/17

American Heart Association

Goal: Elucidate the role of Xbp1s in I/R using a loss-of-function model. Delineate the phenotype of cardiomyocyte-specific ablation of Xbp1 in I/R. Delineate the role of Xbp1s in the suppression of necroptosis. Examine the role of Xbp1s in autophagy activation

16POST30680016 (Altamirano)

7/01/16-6/30/18

American Heart Association

Cardiomyocyte Mechanotransduction: Roles of Polycystin-1/2

16PRE29660003 (Kim)

7/01/16-6/30/18

American Heart Association

BET Bromodomain Protein-Dependent Regulation of Cardiac Hypertrophy

F32 HL136151-01 (French)

9/01/16-8/31/19

NIH/NHLBI

Farnesoid X Receptor is a Cardiac Fed-State Receptor and Suppresses Cardiac Autophagy

F32 HL142244 (Tong)

4/1/18-6/28/2019

NIH/NHLBI

Protein Acetylation-dependent Control of Metabolic Remodeling in Heart Failure with Preserved Ejection Fraction (HFpEF)

18POST34060230 (Schiattealla)

7/1/18-6/30/2020

American Heart Association

A Novel XBP1s-FoxO1 Axis in Toxic Lipid Accumulation in Heart Failure with Preserved Ejection Fraction

Joseph A. Hill, M.D., Ph.D.

Postdoctoral Fellows

<u>name</u>	<u>years</u>	<u>present position</u>
Zhengyi Wang, M.D.	1998-2002	Private practice pediatric cardiology
Mohsen Karimi, M.D.	1999-2000	Assist Prof, Case Western Res Univ
Barry Cabuay, M.D.	2000-2001	Assist Prof, U Iowa
Ki-Dong Yoo, MD, PhD	2001-2002	Assist Prof, Catholic U Korea
Yonggeun Hong, DVM, PhD	2002-2004	Assist Prof, Injae Univ, Korea
Kambee Berenji, MD	2003-2004	Private practice cardiology
Diana McCloskey	2003-2004	industry research
Yanggan Wang, MD, PhD	2003-2007	Assist Prof, Emory University
Hongxin Zhu, MD	2003-2008	Assist Prof, Shanghai Jiaotong Univ
Jeff Berry, MD	2005-2008	Cardiology fellow
Vien Le, MD	2005-2007	Cardiology fellow
Yan Ni, PhD	2005-2007	pharmaceutical industry scientist
Andrew Blagg, PhD	2006-2010	Instructor, Texas Christian University
R. Haris Naseem, MD	2006-present	Assistant Prof, UT Southwestern
Andriy Nemchenko, PhD	2007-2010	Founder, INFO 2 VISUAL
Pavan Battiprolu, PhD	2007-2012	Amgen, Inc.
Dian Cao, MD, PhD	2007-2012	Assistant Prof, UT Southwestern
Pradeep Mammen, MD, PhD	2007-present	Associate Prof, UT Southwestern
Jana Burchfield, PhD	2008-2012	Assistant Prof, Texas Heart Institute
Zhao Wang, PhD	2009-present	finalist, 2013 UT Southwestern Award for Excellence in Postdoctoral Research
Min Xie, MD, PhD	2009-present	
Anwarul Ferdous, PhD	2009-present	Assistant Prof, UT Southwestern
Jason Imundo, MD	2009-2010	Cardiology Fellow, U Penn
Alfredo Criollo, PhD	2011-2015	Assistant Prof, U Chile
Zully Pedrozo, PhD	2011-2013	Assistant Prof, U Chile
Geoffrey Cho, MD	2013-2016	Cardiology fellow
Francisco Altamirano, PhD	2015-present	
Gabriele Schiattarella, MD	2015-present	
Kristin French, PhD	2015-present	
Amanda Tong, MD, PhD	2016-present	
Yuxuan Luo, PhD	2017-present	

Graduate Students

<u>name</u>	<u>years</u>	<u>training program</u>
Kenneth Richardson	1999-2004	MSTP student
Paul Tannous	2002-2007	MSTP student
Samvit Tandan	2002-2008	PhD student
• finalist in the Heart Rhythm Society Young Investigator Competition 2008		
Berdy Hojayev	2003-2011	PhD student
Oktay Rifki	2006-2012	MSTP student
Cyndi Morales	2010-2014	PhD student
Dan Li	2011-2015	PhD student
Mercedes Quintana-Serrano	2015-2016	MS student
Esther (Soo Young) Kim	2015-present	PhD student
Subhajit Dasgupta	2017-present	PhD student
Hande Pirstine	2017-present	MSTP student

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Professors on Sabbatical Leave

<u>name</u>	<u>years</u>	<u>present position</u>
Sergio Lavanderio, Ph.D.	2010-present	Professor, University of Chile

PhD Qualifying Examination Committees

<u>name</u>	<u>year</u>	<u>role</u>
Derek Pugh	2009	committee member
Chris DeSevo	2010	committee chair
Ryan Jones	2011	committee chair
Ryan Downey	2012	committee chair
Tabitha Ting	2015	committee member

PhD Dissertation Committees

<u>name</u>	<u>years</u>	<u>role</u>
Amy Mellgren	2004-2007	PhD dissertation committee
Rusty Montgomery	2004-2008	PhD dissertation committee
Matthew Potthoff	2004-2007	PhD dissertation committee
Bryan Young	2007-2008	PhD dissertation committee
David Patrick	2007-2011	PhD dissertation committee
Gregory Olsen	2008-present	PhD dissertation committee
Daniel Quiat	2008-2012	PhD dissertation committee
Ankit Garg	2010-2015	PhD dissertation committee
Huanyu Zhou	2013-2017	PhD dissertation committee
Mindy Lee	2012-present	PhD dissertation committee
Yi-Li Min	2014-present	PhD dissertation committee

Advisory Committees

<u>name</u>	<u>years</u>	<u>role</u>
Catherine Makarewich, PhD	2017-present	K99-R00 advisory committee

Meetings Organized

Association of Professors of Cardiology Leadership Symposium
October 17-18, 2009
Dallas, Texas

Birth, Life, and Death of the Cardiac Myocyte

Co-organizers: Eric Olson, PhD, and Jay Schneider, MD, PhD
June 2-5, 2010
Napa, California

Keystone Symposium: Heart Failure: Traversing the Translational Divide

Co-organizers: Yibin Wang, PhD and Carolyn Lam Su Ping, MD
February, 2018

Interests Outside Work

Certified as a Level II sommelier by the International Sommelier Guild; jazz piano

Original Articles (peer-reviewed) H-index: 87

1. Marchese, A.C., **Hill, J.A.**, Xie, P.D., and Strauss, H.C.: Electrophysiologic effects of amiloride in canine Purkinje fibers: Evidence for a delayed effect on repolarization. *J. Pharmacol. Exp. Ther.*, 232:485-491, 1985.
2. **Hill, J.A.**, Trantham, J.L., Browning, D.J., Grant, A.O., and Strauss, H.C.: An upper limit for the electrogenic Na-K pump contribution to maximum diastolic potential in feline cardiac Purkinje fibers in steady state. *Can. J. Physiol. Pharmacol.*, 64:641-648, 1986.
3. **Hill, J.A.**, Coronado, R., and Strauss, H.C.: Reconstitution and characterization of a calcium-activated channel from heart. *Circ. Res.*, 62:411-415, 1988.
4. **Hill, J.A.**, Coronado, R., and Strauss, H.C.: Potassium channel of cardiac sarcoplasmic reticulum is a multi-ion channel. *Biophys. J.*, 55:35-45, 1989.
5. **Hill, J.A.**, Coronado, R., and Strauss, H.C.: Reconstitution of ionic channels from human heart. *J. Mol. Cell. Cardiol.*, 21:315-323, 1989.
6. **Hill, J.A.**, Coronado, R., and Strauss, H.C.: Open-channel subconductance state of K⁺ channel from cardiac sarcoplasmic reticulum. *Am. J. Physiol.*, 258:H159-H165, 1990.
7. Shen, W.K., **Hill, J.A.**, Rasmussen, R., and Strauss, H.C.: Reconstitution of the K⁺ channel of cardiac sarcoplasmic reticulum. *Prog. Clin. Biol. Res.*, 334:205-230, 1990.
8. **Hill, J.A.**, Nghiê, H-O., and Changeux, J-P.: Serine-specific phosphorylation of nicotinic receptor-associated 43K protein. *Biochemistry*, 30:5579-5585, 1991.
9. Nghiê, H-O., **Hill, J.A.**, and Changeux, J-P.: Developmental changes in the subcellular distribution of the 43K polypeptides in *Torpedo marmorata* electrocyte: Support for a role in acetylcholine receptor stabilization. *Development*, 113:1059-1067, 1991.
10. **Hill, J.A.**: Nicotinic receptor-associated 43K protein and progressive stabilization of the postsynaptic membrane. *Molec. Neurobiol.*, 6:1-17, 1992.
11. **Hill, J.A.**, Zoli, M., Bourgeois, J-P., and Changeux, J-P.: Immunocytochemical localization of a central nicotinic receptor: The β 2 subunit. *J. Neurosci.*, 13:1551-1568, 1993.
12. Zoli, M., Le Novère, N., **Hill, J.A.**, and Changeux, J-P.: Developmental regulation of nicotinic ACh receptor subunit mRNAs in the rat central and peripheral nervous systems. *J. Neurosci.*, 15:1912-1939, 1995.
13. **Hill, J.A.**, and Friedman, P.L.: Measurement of QT interval and QT dispersion. *Lancet*, 349:894-895, 1997
14. **Hill, J.A.**, Lee, D., Ganz, P., Whittemore, A.D., and O'Gara, P.T.: Coronary artery bypass graft surgery in a 77-year-old woman. *Circulation*, 97:1757, 1998.
15. London, B., Wang, D.W., **Hill, J.A.**, Bennett PB. The transient outward current (I_{to}) in targeted mice lacking Kv1.4. *J. Physiol.*, 509.1:171-182, 1998.
16. Coral-Vazquez, R., Cohn, R.D., Moore, S.A., **Hill, J.A.**, Weiss, R.M., Davisson, R., Straub, V., Barresi, R., Bansal, D., Hrstka, R.F., Williamson, R., and Campbell, K.P.: Disruption of the sarcoglycan-sarcospan complex in vascular smooth muscle: A novel mechanism for cardiomyopathy and muscular dystrophy. *Cell*, 98:1-20, 1999.

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17. **Hill, J.A.**, Karimi, M. Kutschke, W., Davisson, R., Zimmerman, K., Wang, Z., Kerber, R.E., and Weiss, R.M.: Cardiac hypertrophy is not a required compensatory response to short-term pressure overload. **Circulation** 101:2863-2869, 2000.
18. **Hill, J.A.**: Deconstructing cardiac hypertrophy: Signaling pathways involved in structural, functional, and electrical remodeling. **Curr. Opin. Cardiovasc. Invest. Drugs** 2(1):25-29, 2000.
19. **Hill, J.A.**, and Kerber, R.E.: Quo vadis: How should we train cardiologists at the turn of the century? **Circulation** 102:932-936, 2000.
20. Han, Z.Y., Le Novere, N., Zoli, M., **Hill, J.A.**, Champtiaux, N, and Changeux, J.P.: Localization of nAChR subunit mRNAs in the brain of macaca mulatta. **Eur. J. Neurosci.** 12(10):3664-3674, 2000.
21. London, B., Guo, W., Pan, X., Lee, J.S., Shusterman, V., Logothetis, D.A., Nerbonne, J.M., and **Hill, J.A.**: Targeted replacement of Kv1.5 in the mouse leads to loss of the 4-aminopyridine-sensitive component of $I_{K,slow}$ and resistance to drug-induced QT prolongation. **Circ. Res.** 88:940-946, 2001.
22. Wang, Z., Nolan, B., Kutschke, W., and **Hill, J.A.**: Na^+Ca^{2+} exchanger remodeling in pressure-overload cardiac hypertrophy. **J. Biol. Chem.** 276(21):17706-17711, 2001.
23. Wang, Z., Kutschke, W., Richardson, K.E., Karimi, M., and **Hill, J.A.**: Electrical remodeling in pressure-overload cardiac hypertrophy: Role of calcineurin. **Circulation** 104:1657-1663, 2001.
24. Antos, C.L., McKinsey, T.A., Frey, N., Kutschke, W., McAnally, J., Shelton, J.M., Richardson, J.A., **Hill, J.A.**, and Olson, E.N.: Activated glycogen synthase-3 β suppresses cardiac hypertrophy *in vivo*. **Proc Natl Acad Sci USA** 99:907-912, 2002.
25. **Hill, J.A.**, Rothermel, B., Yoo, K.-D., Cabuay, B., Demetroulis, E., Weiss, R.M., Kutschke, W., Bassel-Duby, R., and Williams, R.S.: Targeted inhibition of calcineurin in pressure-overload hypertrophy: Preservation of systolic function. **J. Biol. Chem.** 277:10251-10255, 2002.
26. Zhang, C.L., McKinsey, T.A., Chang, S., Antos, C.L., **Hill, J.A.**, and Olson, E.N. Class II histone deacetylases act as signal- responsive repressors of cardiac hypertrophy. **Cell** 110(4):467-478, 2002.
27. Naya, F.J., Black, B.L., Wu, H., Bassel-Duby, R., Richardson, J.A., **Hill, J.A.**, and Olson, E.N.: Mitochondrial deficiency and cardiac sudden death in mice lacking the MEF2A transcription factor. **Nature Medicine** 8(11): 1303-1309, 2002.
28. Chen, C.-C., Lamping, K.G., Nuno, D.W., Barresi, R., Prouty, S.J., Lavoie, J.L., Cribbs, L.L., England, S.K., Sigmund, C.D., Weiss, R.M., Williamson, R.A., **Hill, J.A.**, Campbell, K.P. Abnormal coronary function in mice deficient in α_{1H} -T-type Ca^{2+} channels. **Science** 302:1416-1418, 2003.
29. **Hill, J.A.** Electrical remodeling in cardiac hypertrophy. **Trends Cardiovascular Med** 13(8):316-322, 2003.

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30. Frey, N., Barrientos, T., Shelton, J., Frank, D., Rutten, H., Gehring, D., Kuhn, C., Lutz, M., Rothermel, B., Bassel-Duby, R., Richardson, J.A., Katus, H.A., **Hill, J.A.**, Olson, E.N. Mice lacking calyculin-1 are sensitized to calcineurin signaling and display accelerated cardiomyopathy in response to biomechanical stress. **Nature Medicine** 10(11): 1336-1343, 2004.
31. Chang, S., McKinsey, T.A., Zhang, C.L., Richardson, J.A., **Hill, J.A.**, Olson, E.N. Histone deacetylases 5 and 9 govern responsiveness of the heart to a subset of stress signals and play redundant roles in heart development. **Mol Cell Biol** 24(19):8467-8476, 2004.
32. Frey, N., Katus, H.A., Olson, E.N., **Hill, J.A.** Hypertrophy of the heart: A new therapeutic target? **Circulation** 109:1580-1589, 2004.
33. Rothermel, B.A. Berenji, K., Tannous, P., Kutschke, W., Dey, A., Nolan, B., Yoo, K.-D., Demetroulis, E., Gimbel, M., Cabuay, B., Karimi, M., **Hill, J.A.** Differential activation of stress-response signaling in load-induced cardiac hypertrophy and failure. **Physiol Genomics** 23(1):18-27, 2005.
34. Oh, M., Rybkin, I.I., Copeland, V., Czubryt, M.P., Shelton, J., van Rooij, E., Richardson, J.A., **Hill, J.A.**, De Windt, L.J., Bassel-Duby, R., Olson, E.N., Rothermel, B.A. Calcineurin is necessary for the maintenance but not embryonic development of slow muscle fibers. **Mol Cell Biol** 25(15):6629-6638, 2005.
35. **Hill, J.A.** *In vivo veritas*: Alcohol and heart disease. **Am J Med Sci** 329(3):124-135, 2005.
36. Berenji, K., Drazner, M.H., Rothermel, B.A., **Hill, J.A.** Does load-induced ventricular hypertrophy progress to systolic heart failure? **Am J Physiol Heart Circ Physiol** 289:H8-H16, 2005.
37. Wang, Y., **Hill, J.A.** Human Atrial Chloride Channels: Swelling With Pride. **J Cardiovasc Electrophysiol** 16:1-3, 2005.
38. Richardson, K.E., Tannous, P., Berenji, K., Nolan, B., Bayless, K.J., Davis, G.E., Rothermel, B.A., **Hill, J.A.** GTPase activation occurs downstream of calcineurin in cardiac hypertrophy. **J. Investig. Med** 53(8):1-11, 2005.
39. Wang, Y., Cheng, J., Tandan, S., Jiang, M., McCloskey, D.T., **Hill, J.A.** Transient-Outward K⁺ Channel Inhibition Facilitates L-type Ca²⁺ Current in Heart. **J Cardiovasc Electrophys** 17(3):1-7, 2006.
40. Wang, Y., Cheng, J., Joyner, R.W., Wagner, M.B., **Hill, J.A.** Remodeling of early-phase repolarization: A mechanism of abnormal impulse conduction in heart failure **Circulation** 113(15):1849-1856, 2006.
41. Song, K., Backs, J., McAnally, J., Qi, X., Gerard, R.D., Richardson, J.A., **Hill, J.A.**, Bassel-Duby, R., Olson, E.N. The transcriptional co-activator CAMTA stimulates cardiac growth by opposing class II histone deacetylases. **Cell** 125:453-466, 2006.
42. Kong, Y., Lu, G., Tannous, P., Berenji, K., Rothermel, B.A., Olson, E.N., **Hill, J.A.** Suppression of class I and II histone deacetylases blunts pressure-overload cardiac hypertrophy, **Circulation** 113: 2579-2588, 2006.
43. Rothermel, B.A., **Hill, J.A.** Molecular mechanisms of cardiac hypertrophy and failure. **Circulation** e853, 2006.

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44. Ni, Y.G., Berenji, K., Wang, N., Oh, M., Sachan, N., Dey, A., Cheng, J., Lu, G., Morris, D.J., Castrillon, D., Gerard, R.D., Rothermel, B.A., **Hill, J.A.** FoxO transcription factors blunt cardiac hypertrophy by inhibiting calcineurin signaling. *Circulation* 114:1159-1168, 2006.
45. Kuwahara, K., Wang, Y., McAnally, J., Richardson, J.A., Bassel-Duby, R., **Hill, J.A.**, Olson, E.N. TRPC6 fulfills a calcineurin signaling circuit during pathological cardiac remodeling, *J Clin Invest*, 116(12):3114-26, 2006.
46. Kuwahara, K., Teg Pipes, G.C., McAnally, J., Richardson, J.A., **Hill, J.A.**, Bassel-Duby, R., Olson, E.N. Modulation of adverse cardiac remodeling by STARS, a mediator of MEF2 signaling and SRF activity. *J Clin Invest* 117(5): 1324-1334, 2007.
47. van Rooij, E., Sutherland, L.B., Qi, X., Richardson, J.A., **Hill, J.A.**, Olson, E.N. Control of stress-dependent cardiac growth and gene expression by micro RNA, *Science* 2007;316(5824):575-9.
48. Wang, Y., Cheng, J., Chen, G., Rob, F., Naseem, R.H., Nguyen, L., Johnstone, J., **Hill, J.A.** Remodeling of outward K⁺ currents in pressure-overload heart failure. *J Cardiovasc Electrophysiol* 18:869-875, 2007.
49. Shen, C., Lin, M.-J., Yaradanakul, A., Lariccia, V., **Hill, J.A.**, Hilgemann, D.W. Dual control of cardiac Na/Ca exchange by PIP₂: Analysis of the surface membrane fraction by extracellular cysteine PEGylation. *J Physiol* 582(3):1011-1026, 2007.
50. Zhu, H., Tannous, P., Johnstone, J.L., Kong, Y., Shelton, J.M., Richardson, J.A., Levine, B., Rothermel, B.A., **Hill, J.A.** Cardiac autophagy is a maladaptive response to hemodynamic stress *J Clin Invest* 117(7): 1782–1793, 2007.
51. Montgomery, R.L., Davis, C.A., Potthoff, M.J., Haberland, M., Fielitz, J., Zi, X., **Hill, J.A.**, Richardson, J.A., Olson, E.N. Histone deacetylases 1 and 2 redundantly regulate cardiac morphogenesis, growth, and contractility. *Genes Dev* 21: 1790-1802, 2007.
52. Rothermel, B.A., **Hill, J.A.** Myocyte autophagy in heart disease: Friend or foe? *Autophagy*, 3(6):632-4, 2007.
53. Rybkin, I.I., Kim, M.-S., Bezprozvannaya, S., Qi, X., Richardson, J.A., Plato, C.F., **Hill, J.A.**, Bassel-Duby, R., Olson, E.N. Regulation of atrial natriuretic peptide secretion by a novel Ras-like protein. *J Cell Biol*, 179(3): 527-537, 2007.
54. Ni, Y.G., Wang, N., Morris, D.J., Gerard, R.D., Kuro-o, M., Rothermel, B.A., **Hill, J.A.** FoxO transcription factors activate Akt and attenuate insulin signaling in heart by inhibiting protein phosphatases. *Proc Natl Acad Sci USA* 104(51):20517-20522, 2007.
Discussed as a notable paper in Cell Metabolism 7:101-103, 2008.
55. Berry, J.M., Naseem, R.H., Rothermel, B.A., **Hill, J.A.** Models of cardiac hypertrophy and transition to failure. *Drug Discovery Today: Disease Models*, doi:10.1016/j.ddmod.2007.06.003, 2007.
56. Klionsky, D.J., ... **Hill, J.A.**, ... Russell L. Deter (200 authors). Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. *Autophagy* 4:2, 1-25, 2008.

Joseph A. Hill, M.D., Ph.D.

57. Kim, Y., Phan, D., van Rooij, E., Wang, D.-Z., McAnally, J., Qi, X., Richardson, J.A., Hill, J.A., Bassel-Duby, R., Olson, E.N. The MEF2D transcription factor mediates stress-dependent cardiac remodeling. *J Clin Invest* 118(1): 124-132, 2008.
58. Berry, J.M., Cao, D.J., Rothermel, B.A., Hill, J.A., Histone deacetylase inhibition in the treatment of heart disease. *Expert Opin. Drug Saf.* 7(1):53-67, 2008.
59. Hill, J.A., Olson, E.N. Cardiac plasticity. *N Engl J Med* 358:1370-1380, 2008.
60. Errami, M., Galindo, C.L., Tassa, A.T., DiMaio, J.M., Hill, J.A., Garner, H.S. Doxycycline attenuates isoproterenol and transverse aortic banding-induced cardiac hypertrophy in mice. *J Pharmacol Exp Ther*, 324(3):1196-203, 2008.
61. Fielitz, J., Kim, M.-S., Shelton, J.M., Qi, X., Hill, J.A., Richardson, J.A., Bassel-Duby, R., Olson, E.N. Requirement of Protein Kinase D1 for Pathological Cardiac Remodeling. *Proc Natl Acad Sci USA* 105(8):3059-63, 2008.
62. Tannous, P., Zhu, H., Nemchenko, A., Berry, J.M., Johnstone, J.L., Shelton, J.M., Miller, F.J., Jr., Rothermel, B.A., Hill, J.A. Intracellular protein aggregation is a proximal trigger of cardiomyocyte autophagy. *Circulation* 117:3070-3078, 2008.
63. Tannous, P., Zhu, H., Johnstone, J.L., Shelton, J.M., Soorappan, R., Benjamin, I.J., Nguyen, L., Gerard, R.D., Levine, B., Rothermel, B.A., Hill, J.A. Autophagy is an adaptive response in desmin-related cardiomyopathy. *Proc Natl Acad Sci USA* 105(28):9745-9750, 2008.
64. Wang, S., Aurora, A.B., Johnson, B.A., Qi, X., McAnally, J., Hill, J.A., Richardson, J.A., Bassel-Duby, R., Olson, E.N. The endothelial-specific microRNA miR-126 governs vascular integrity and angiogenesis. *Developmental Cell* 15:261-271, 2008.
65. Rothermel, B.A., Hill, J.A., The heart of autophagy: Deconstructing cardiac proteotoxicity. *Autophagy* 4(7):932-5, 2008.
66. van Rooij, E., Sutherland, L.B., Thatcher, J.E., DiMaio, J.M., Naseem, R.H., Marshall, W.S., Hill, J.A., Olson, E.N. Dysregulation of microRNAs after myocardial infarction reveals a role of miR-29 in cardiac fibrosis. *Proc Natl Acad Sci USA* 105(35):13027-13032, 2008.
67. Rothermel, B.A., Hill, J.A.. Autophagy in load-induced heart disease. *Circ Research* 103:1363-1369. 2008.
68. Wang, Y., Tandan, S., Cheng, J., Yang, C., Nguyen, L., Sugianto, J. Johnstone, J.L., Sun, Y. and Hill, J.A. CaMKII-dependent remodeling of Ca²⁺ current in pressure-overload heart failure. *J Biol Chem* 283(37):25524-32, 2008.
69. Rothermel, B.A., Hill, J.A., Adenosine A₃ receptor and cardioprotection: Enticing, enigmatic, elusive. *Circulation* 118(17):1691-3, 2008.
70. Backs, J., Backs, T., Neef, S., Kreusser, M.M., Lehmann, L.H., Patrick, D.M., Grueter, C., Qi, X., Richardson, J.A., Hill, J.A., Katus, H.A., Bassel-Duby, R., Maier, L.S., Olson, E.N. The δ isoform of CaMKII is required for pathological cardiac hypertrophy and remodeling after pressure overload. *Proc Natl Acad Sci USA* 106(7):2342-2347, 2009.

Joseph A. Hill, M.D., Ph.D.

71. Tandan, S., Wang, Y., Richardson, K.E., Wang, T.T., Hall, D.D., Hell, J.W., Luo, X., Rothermel, B.A., **Hill, J.A.**, Physical and functional interaction between calcineurin and the cardiac L-type Ca^{2+} channel. **Circ Res** 105:51-60, 2009.
Discussed in an accompanying commentary: Pitt, G.S., Calcineurin finds a new partner in the L-type Ca^{2+} channel. Circ Res 105:7-8, 2009.
72. Yund, E., **Hill, J.A.**, Keller, R.S. Hic-5 is required for fetal gene expression and cytoskeletal organization of neonatal cardiac myocytes. **J Mol Cell Cardiol** 47(4):520-527, 2009.
73. Wang, Z., **Hill, J.A.** Autophagy in heart disease. Abcam series of signaling pages (URL pending).
74. Munshi, N., McAnally, J., Bezprozvannaya, S. Berry, J.M. Richardson, J.A., **Hill, J.A.**, Olson, E.N. Cx30.2 enhancer analysis identifies Gata4 as a novel regulator of atrioventricular delay. **Development** 136(15):2665-2675, 2009.
75. Cao, D.J., Gillette, T.G., **Hill, J.A.** Cardiomyocyte autophagy: Remodeling, repairing, reconstructing the Heart. **Curr Hypertens Rep** 11(6):406-11, 2009.
76. Nemchenko, A., **Hill, J.A.** NEMO nuances NK- κ B. **Circ Res** 106:10-2, 2010.
77. van Rooij, E., Fielitz, J., Sutherland, L.B., Thijssen, V., Crijns, H.J., DiMaio, M.J., Richardson, **Hill, J.A.**, J.A., De Windt, L.J., Olson, E.N. MEF2 and class II HDACs control a gender-specific pathway of cardioprotection mediated by the estrogen receptor. **Circ Res** 106(1):155-65:7-8, 2010.
78. Wang, Y., **Hill, J.A.**, Electrophysiological remodeling in heart failure. **J Mol Cell Cardiol** 48:619-632, 2010.
79. Wang, Z.V., Rothermel, B.A., **Hill, J.A.** Autophagy in hypertensive heart disease. **J Biol Chem** 285(12):8509-14, 2010.
80. Markham, D.W., **Hill, J.A.** MicroRNAs and heart failure: MiR-acle or miR-age? **Circ Res** 106(6):1011-3, 2010.
81. Turer, A.T., **Hill, J.A.** Pathogenesis of ischemia-reperfusion injury and rationale for therapy. **Am J Cardiol** 106(3):360-8, 2010.
82. Oh, M., Dey, A., Gerard, R.D., **Hill, J.A.**, Rothermel, B.A. The CCAAT/enhancer binding protein beta (C/EBP β) cooperates with NFAT to control expression of the calcineurin regulatory protein *RCAN1-4*. **J Biol Chem** 285(22):16623-31, 2010.
83. Errami, M., Tassa, A.T., Galindo, C.L., Skinner, M., **Hill, J.A.**, Garner, H.R. Carbamazepine alone and in combination with doxycycline attenuates isoproterenol-induced cardiac hypertrophy, **Heart Int** 5:e7:27-32, 2010.
84. Massare, J., Berry, J., Luo, X., Rob, F., Johnstone, J., Shelton, J., Bassel-Duby, R., **Hill, J.A.**, and Naseem, H.R. Diminished cardiac fibrosis in heart failure is associated with altered ventricular arrhythmia phenotype, **J Cardiovasc Electrophys**, 21(9):1031-1037, 2010.
85. Ferdous, A., Battiprolu, P.K., Ni, Y., Rothermel, B.A., **Hill, J.A.** FoxO, autophagy, and cardiac remodeling, **J Cardiovasc Trans Research** 3(4):355-364, 2010.

Joseph A. Hill, M.D., Ph.D.

86. Dimas, V., Ayers, C., Daniels, J., Joglar, J.A., **Hill, J.A.**, Naseem, R.H. Spironolactone therapy is associated with reduced ventricular tachycardia rate in patients with cardiomyopathy, **Pacing Clinical Electrophysiol** Oct 14:1-6, 2010.
87. Battiprolu, P.K., Gillette, T.G., Wang, Z.V., Lavandero, S., **Hill, J.A.** Diabetic cardiomyopathy: Mechanisms and therapeutic targets, **Drug Discov Today: Dis Mech** Aug;3(4):355-64, 2010.
88. Iglewski, M., **Hill, J.A.**, Lavandero, S., Rothermel, B.A. Mitochondrial fission and autophagy in the normal and diseased heart, **Curr Hypertens Rep** 12(6):418-25, 2010.
89. Xu, H., Ginsburg, K.S., Hall, D.D., Zimmermann, M., Zhang, M., Tandan, S., **Hill, J.A.**, Horne, M.C., Bers, D., Hell, J.W. Targeting of protein phosphatases PP2A and PP2B to the C-terminus of the L-type calcium channel Cav1.2. **Biochemistry**, 49(48):10298-307, 2010.
90. Ding, P., Huang, J., Battiprolu, P.K., **Hill, J.A.**, Kamm, K.E., Stull, J.T. Cardiac myosin light chain kinase is necessary for myosin regulatory light chain phosphorylation and cardiac performance *in vivo*, **J Biol Chem**, 285(52):40819-29, 2010.
91. Eschenhagen, T. Force, T., Ewer, M.S., de Keulenaar, G., Suter, T., Anker, S., Avkiran, M., de Azambuja, E., Balligand, J.L., Brutsaert, D., Condorelli, G., Hansen, A., Heymans, S., **Hill, J.A.**, Hirsch, E., Hilfiker-Kleiner, D., Janssens, S., de Jong, S., Neubauer, G., Pieske, B., Ponikowski, P., Pirmohamed, M., Rauchhaus, M., Sawyer, D., Sugden, P., Wojta, J., Zannad, F., Shah, A. Cardiovascular side-effects of cancer therapies: A position statement from the heart failure association of the European Society of Cardiology, **Eur J Heart Fail**, 13:1-10, 2011.
92. Russell, J.L., Goetsch, S., Gaiano, N., **Hill, J.A.**, Olson, E.N., Schneider, J.W. A dynamic Notch injury response activates epicardium and contributes to fibrosis repair. **Circ Research**, 108(1):51-59, 2011.

*Discussed in an accompanying commentary: Rentschler, S., Epstein, J.A. Kicking the epicardium up a notch. **Circ Research** 2011.*
93. Patrick, D., Montgomery, R., Qi, C., Obad, S., Kauppinen, S., **Hill, J.A.**, van Rooij, E., Olson, E.N. Stress-dependent cardiac remodeling in the absence of microRNA-21 in mice. **J Clin Invest** 120(11): 3912-3916, 2010.
94. Sachan, N., Dey, A., Rotter, D., Grinsfelder, D.B., Battiprolu, P., Sikder, D., Copeland, V., Oh, M., Bush, E., Shelton, J.M., Bibb, J.A., **Hill, J.A.**, Rothermel, B.A. Sustained hemodynamic stress disrupts normal circadian rhythms in calcineurin-dependent signaling and protein phosphorylation in the heart. **Circ Research** 108(4):437-45, 2011.
95. Parra, V., Verdejo, H., del Campo, A., Penannen, C., Kuzmicic J., Iglewski, M., **Hill, J.A.**, Rothermel, B.A., Lavandero, S. The complex interplay between mitochondrial dynamics and cardiac metabolism. **J Bioenerg Biomembr** 43(1):47-51 2011.
96. **Hill, J.A.** Autophagy in cardiac plasticity and disease. **Pediatr Cardiol**, 32(3):282-9, 2011.
97. Porrello, E.R., Mahmoud, A.I., Simpson, E., Richardson, J.A., **Hill, J.A.**, Olson, E.N., Sadek, H.A. Transient regenerative potential of heart tissue in neonatal mice. **Science** 331(6020):1078-80, 2011.

Joseph A. Hill, M.D., Ph.D.

98. Bravo, R., Vicencio, J.M., Parra, V., Troncoso, R., Munoz, J.P., Bui, M., Quiroga, C., Rodriguez, A.E., Verdejo, H., Ferreira, J., Iglewski, M., Chiong, M., Simmen, T., Zorzano, A., **Hill, J.A.**, Rothermel, B.A., Szabadkai, G., Lavandero, S. Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. *J Cell Science* 124, 2143-2152, 2011.
99. Vicencio, J.M., Estrada, M., Galvis, D., Bravo, R., Contreras, A.E., Rotter, D., Szabadkai, G., **Hill, J.A.**, Rothermel, B.A., Jaimovich, E., Lavandero, S. Anabolic androgenic steroids and intracellular calcium signaling: A mini review on mechanisms and physiological implications. *Mini-Rev Med Chem* 11(5):390-8, 2011.
100. Cao, D.J., Wang, Z.V., Battiprolu, P.K., Jiang, N., Morales, C., Kong, Y., Rothermel, B.A., Gillette, T.G., **Hill, J.A.** HDAC inhibitors attenuate cardiac hypertrophy by suppressing maladaptive autophagy. *Proc Natl Acad Sci USA*, 108(10):4123-8, 2011.
101. Williams, R.S., de Lemos, J.A., Dimas, V., Reisch, J., **Hill, J.A.**, Naseem, R.H. Effect of spironolactone on patients with atrial fibrillation and structural heart disease. *Clin Cardiol*, 34(7):415-9, 2011.
102. Xie, M., Morales, C.R., Lavandero, S., **Hill, J.A.** Tuning flux: Autophagy as a target of heart disease therapy. *Curr Opin Cardiol* 26(3):216-222, 2011.
103. Cao, D.J., **Hill, J.A.** Titrating autophagy in cardiac plasticity. *Autophagy* 7:1078-9, 2011.
104. Hojaye, B., **Hill, J.A.** HDACs and hypertrophy, kinases and cancer. *Circulation* 123(21):2341-2343, 2011.
105. Nemchenko, A., Chiong, M., Turer, A., Lavandero, S., and **Hill, J.A.** Autophagy as a therapeutic target in cardiovascular disease. *J Mol Cell Cardiol* 51:584-593, 2011.
106. Faul, C., Amaral, A., Oskouei, B., Hu, M.-C., Sloan, A., Isakova, T., Gutierrez, O., Aguillon-Prada, R., Hare, J.M., Mundel, P., Morales, A., Scialla, J., Fischer, M., Soliman, S., Chen, J., Chen, J., Go, A., Rosas, S., Nessel, L., Townsend, R., Feldman, H.I., St John Sutton, M., Ojo, A., Gadegbeku, C., **Hill, J.A.**, Moe, O., Kuro-o, M., Kusek, J., Keane, M.G., Wolf, M., Fibroblast growth factor 23 induces left ventricular hypertrophy, *J Clin Invest* 121(11):4393-408, 2011.
107. Khakoo, A.Y., Liu, P., Force, T., Lopez-Bernstein, G., Jones, L., Schneider, J., **Hill, J.A.** Cardiotoxicity due to cancer therapy. *Texas Heart Institute J* 38(3); 253-256, 2011.
108. Berry, J.M., Le, V., Battiprolu, P.K., Tannous, P., Czubryt, M., Backs, J., Bassel-Duby, R., Olson, E.N., Rothermel, B.A., **Hill, J.A.**, Reversibility of adverse, calcineurin-dependent cardiac remodeling. *Circ Research* 109:407-417, 2011.
109. Bacharova, L., Bang, L.E., Estes, E.H., **Hill, J.A.**, Macfarlane, P.W., Rowlandson, I., Schillaci, G. Second statement of the working group on electrocardiographic diagnosis of left ventricular hypertrophy. *J Electrocardiol* 44(5):568-70, 2011.
110. Ferdous, A., Morris, J., Abedin, M.J., Collins, S., Richardson, J.A., **Hill, J.A.** The Forkhead factor FoxO1 is essential for placental morphogenesis in the developing embryo. *Proc Natl Acad Sci USA*, 108(39):16307-12, 2011.

Joseph A. Hill, M.D., Ph.D.

111. Troncoso, R., Vicencio, J.M., Nemchenko, A., Kawashima, Y., del Campo, A., Parra, V., Toro, B., Aranguiz, P., Chiong, M., Battiprolu, P.K., Yakar, S., Gillette, T.G., **Hill, J.A.**, Abel, E.D., LeRoith, D., Lavandero, S. Energy-preserving effects of IGF-1 antagonize starvation-induced cardiac autophagy. **Cardiovasc Res** 93(2):320-9, 2011.
112. Chiong, M., Wang, Z.V., Pedrozo, Z., Cao, D.J., Troncoso, R., Criollo, A., Nemchenko, A., **Hill, J.A.**, Lavandero, S. Cardiomyocyte death: Mechanisms and translational implications. **Cell Death Dis** 2: e244, 2011.
113. Zhang, Q-J., Chen, H-Z., Wang, L., Liu, D., **Hill, J.A.**, Liu, Z-P. The histone trimethyl demethylase, JMJD2A, promotes cardiac hypertrophy in response to hypertrophic stimuli in mice. **J Clin Invest** 121(6), 2447-2456, 2011
114. Luo, X., Jiang, N., Hojayeve, B., Tandan, S., Rakalin, A., Wang, Z.V., Rothermel, B.A., Gillette, T.G., **Hill, J.A.** STIM1-dependent store-operated Ca²⁺ entry is required for pathological cardiac hypertrophy. **J Mol Cell Cardiol** 52(1):136-147, 2012.
115. He, C., Bassik, M.C., Moresi, V., Sun, K., Wei, Y., Zou, Z., An, Z., Loh, J., Fisher, J., Sun, Q., Packer, M., May, H., **Hill, J.A.**, Virgin, H.W., Gilpin, C., Xiao, G., Bassel-Duby, R., Scherer, P.E., Levine, B., Exercise-induced Bcl-2-regulated autophagy is required for muscle glucose homeostasis. **Nature** 481(7382):511-5, 2012.
116. Battiprolu, P.K., Hojayeve, B., Jiang, N., Wang, Z.V., Luo, X., Iglewski, M., Shelton, J.M., Gerard, R.D., Rothermel, B.A., Gillette, T.G., Lavandero, S., **Hill, J.A.** Metabolic stress-induced activation of FoxO1 triggers diabetic cardiomyopathy. **J Clin Invest** 122(3):1109-18, 2012.

discussed in commentary "FoxO1 breaks diabetic heart" J Diabetes Invest 4(1), 2013.
117. Mao, W., You, T., Li, X., Dong, H.H., **Hill, J.A.**, Li, F., Xu, H. Reactive oxygen species suppress cardiac NaV1.5 expression through FoxO1. **PLoS One** 7(2):e32738, 2012.
118. Ma, X., Liu, H., Foyil, S.R., Godar, R.J. Weinheimer, C.J., **Hill, J.A.**, Diwan, A. Impaired autophagic clearance causes cardiomyocyte death in ischemia-reperfusion injury. **Circulation** 125: 3170-3181, 2012.
119. Klionsky, D.J., ... **Hill, J.A.**, ... Zuckerbraun, B. (200 authors) Guidelines for the use and interpretation of assays for monitoring autophagy. **Autophagy** 8(4):445-544, 2012.
120. Song, K., Nam, Y-J., Qi, X., Tan, W., Luo, X., Neilson, E.G. **Hill, J.A.**, Bassel-Duby, R., Olson, E.N. Cardiac repair by reprogramming cardiac fibroblasts toward a cardiac fate in vivo. **Nature** 485(7400):599-604, 2012.
121. Aurora, A., Mahmoud, A., Luo, X., Johnson, B., van Rooij, E., Matsuzaki, S., Humphries, K., **Hill, J.A.**, Bassel-Duby, R., Sadek, H., Olson, E.N. MicroRNA-214 protects the heart from ischemic injury by controlling Ca²⁺ overload and cell death in mice, **J Clin Invest** 122(4):1222-32, 2012.
122. Ferdous, A., **Hill, J.A.** FoxO1 in embryonic development. **Transcription** Aug 1;3(5), 2012.
123. Rifki, O.F., **Hill, J.A.** Cardiac autophagy: Good with the bad. **J Cardiovasc Pharmacol** 60(3):248-52, 2012.

Joseph A. Hill, M.D., Ph.D.

124. Hojayevev, B., Rothermel, B.A., Gillette, T.G., **Hill, J.A.** FHL2 binds calcineurin and represses pathological cardiac growth. *Mol Cell Biol* 32(19):4025-4034, 2012
125. **Hill, J.A.** Hypertrophic reprogramming of the left ventricle: Translation to the ECG. *J Cardiovasc Electrocardiol* 45(6):624-9, 2012.
126. Turer, A.T., **Hill, J.A.**, Elmquist, J.K., Scherer, P.E. Adipose tissue biology and cardiomyopathy: Translational implications. *Circ Research* 111:1565-1577, 2012.
127. Huang, G.N., Thatcher, J.E., McAnnally, J., Kong, Y., Qi, X., Tan, W., DiMaio, J.M., Amatruda, J.F., Gerard, R.D., **Hill, J.A.**, Bassel-Duby, R., Olson, E.N. C/EBP mediates epicardial activation during heart development and injury. *Science* 338:1599-603, 2012.
128. Lee, C.S., Greenberg, B.H., Laramie, A.S., Ammon, S.E., Prasun, M., Galvao, M., Doering, L.V., Sherman, M.E., Stevenson, L.W., Gregory, D.D., Heidenreich, P.A., Kapur, N.K., O'Connell, J.B., Taylor, A.L., **Hill, J.A.**, Baas, L., Gibbs, A., Rasmusson, K., Lewis, C., Kirkwood, P., Reigle, J., Rathman, L., Bither, C. HFSA and AAHFN joint position statement: advocating for a full scope of nursing practice and leadership in heart failure. *J Card Fail* 18(11):811-2, 2012.
129. Bacharova, L., **Hill, J.A.**, Wagner, G. Changing role of ECG in left ventricular hypertrophy. *J Electrocardiol* 45(6):609-11, 2012.
130. Deng, Y., Wang, Z.V., Tao, C., Gao, N., Holland, W.L., Ferdous, A., Repa, J.J., Liang, G., Ye, J., Lehrman, M., **Hill, J.A.**, Horton, J.D. Scherer, P.E. The Xbp1s/GaE axis links ER stress to postprandial hepatic metabolism. *J Clin Invest*, 123(1):455-68, 2013.
131. Bravo, R., Parra, V., Gatica, D., Quiroga, C., Rodriguez, A.E., Torrealba, N., Toro, B., Paredes, F., Pedrozo, Z., Munoz, J.P., Nunez, S., Diaz, M.I., Wang, Z.V., Troncoso, R., Garcia, L., Zorzano, A., **Hill, J.A.**, Jaimovich, E., Quest, A.F.G., Lavandero, S. Endoplasmic reticulum and the unfolded protein response: Dynamics and metabolic integration. *Internat Rev Cell Molec Biol*, *International Review of Cell and Molecular Biology*, Academic Press, Elsevier Inc., 301: 215-290, 2013.
132. Wang, Z.V., Ferdous, A., **Hill, J.A.** Cardiomyocyte autophagy: Metabolic profit-and-loss. *Heart Fail Rev* 18: 585–594, 2013.
133. Battiprolu, P.K., Lopez-Crisosto, C., Wang, Z.V., Nemchenko, A., Lavandero, S., **Hill, J.A.** Diabetic cardiomyopathy and metabolic remodeling of the heart. *Life Sciences*, 92: 609–615, 2013.
134. Xie, M., **Hill, J.A.** HDAC-dependent ventricular remodeling. *Trends Cardiovasc Med* 23(6):229-35, 2013.
135. Cao, D.J., Jiang, N., Blagg, A., Johnstone, J.L., Gondalia, R., Oh, M., Luo, X., Yang, K.-C., Shelton, J.M., Rothermel, B.A., Gillette, T.G., Dorn II. G.W., **Hill, J.A.** FoxO3 triggers cardiac atrophy via BNIP3-dependent cardiomyocyte autophagy. *J Am Heart Assoc* 2(2):e000016, 2013.
136. Nam, Y.J., Song, K., Luo, X., Daniel, E., Lambeth, K., West, K.A., **Hill, J.A.**, DiMaio, J.M., Baker, L.A., Bassel-Duby, R., Olson, E.N. Reprogramming of adult human fibroblasts toward a cardiac fate. *Proc Natl Acad Sci* 110 (14):5588-5593, 2013.

Joseph A. Hill, M.D., Ph.D.

137. Pedrozo, Z., Torrealba, N., Fernández, C., Gatica, D., Toro, B., Quiroga, C., Rodríguez, A.E., Sanchez, G., Gillette, T.G., **Hill, J.A.**, Donoso, P., Lavandero, S. Cardiomyocyte ryanodine receptor degradation by chaperone-mediated autophagy. **Cardiovasc Res** 98(2):277-85, 2013.
138. Rifki, O.F., Bodemann, B.O., Battiprolu, P.K., White, M.A., **Hill, J.A.** RalGDS-dependent cardiomyocyte autophagy is required in load-induced ventricular hypertrophy. **J Mol Cell Cardiol** 59:128-38, 2013.
139. Troncoso, R., Díaz-Elizondo, J., Espinoza, S.P., Navarro, M., Oyarzún, A.P., Riquelme, J., Garcia-Carvajal, I., Díaz-Araya, G., García, L., **Hill, J.A.**, Lavandero, S. Regulation of cardiac autophagy by insulin-like growth factor 1. **IUBMB Life** 65(7):593-601, 2013.
140. Burchfield, J., Xie, M., **Hill, J.A.** Pathological ventricular remodeling: Mechanisms. **Circulation** 128:388-400, 2013.
141. Xie, M., Burchfield, J., **Hill, J.A.** Pathological ventricular remodeling: Therapies. **Circulation** 128:1021-30. 2013.
142. Chang, A.N., Huang, J., Battiprolu, P., **Hill, J.A.**, Kamm, K., Stull, J. The effects of neuregulin on cMLCK gene-ablated hearts. **PLoS One** 8(6):e66720, 2013.
143. Gillette, T.G., **Hill, J.A.** PKG primes the proteasome. **Circulation** 128:325-327, 2013.
144. **Hill, J.A.**, Diwan, A. Ca²⁺ leak in AF: Junctophilin 2 stabilizes ryanodine receptor. **J Amer Coll Cardiol** 62(21):2020-2020, 2013.
145. Lavandero, S., Troncoso, R., Rothermel, B.A., Martinet, W., Sadoshima, J., **Hill, J.A.** Cardiovascular autophagy: Concepts, controversies and perspective. **Autophagy** 9:10, 1455–1466, 2013.
146. Bhuiyan, M.S., Pattison, J.S., Osinska, H., James, J., Gulick, J., McLendon, P.M., **Hill, J.A.**, Sadoshima, J., Robbins, J. Induced autophagy ameliorates cardiac proteinopathy. **J Clin Invest** 123(12):5284-97, 2013.
147. Bravo, R., Torrealba, N., Paredes, F., Morales, P.E., Pennanen, C., López-Cristoso, C., Troncoso, R., Criollo, A., Chiong, M., **Hill, J.A.**, Simmen, T., Quest, A.F.G., Lavandero, S. Endoplasmic reticulum and the unfolded protein response: dynamics and metabolic integration. **Int J Biochem & Cell Biol** 301:215-290, 2013.
148. Wang, Z.V., Li, D.L., **Hill, J.A.** Heart failure and loss of metabolic flexibility. **J Cardiovasc Pharmacol** 63(4):302-313, 2014.
149. Li, D.L., **Hill, J.A.** Cardiomyocyte autophagy and cancer chemotherapy. **J Mol Cell Cardiol** 71:54-61, 2014.
150. Li, L., Wang, Z.V., **Hill, J.A.**, Lin, F., New autophagic reporter mice reveal dynamics of proximal tubular autophagy. **J Amer Soc Nephrol** 25: 305-315, 2014.
151. Morales, C.R., Pedrozo, Z., Lavandero, S., **Hill, J.A.** Oxidative stress and autophagy in cardiovascular homeostasis. **Antioxid Redox Signal** 20(3):507-18, 2014.

Joseph A. Hill, M.D., Ph.D.

152. Wang, Y., Tandan, S., **Hill, J.A.** Calcineurin-dependent ion channel regulation in heart. **Trends Cardiovasc Med** 24(1):14-22, 2014.
153. Lin, F., Wang, Z.V., **Hill, J.A.** Seeing is believing: Dynamic changes in renal epithelial cell autophagy during injury and repair. **Autophagy** 10(4):691-693, 2014.
154. Parra, V., Verdejo, H., Iglewski, M., del Campo, A., Troncoso, R., Jones, D.L., Zhu, Y., Kuzmicic, J., Pennanen, C., Lopez-Crisosto, C., Jana, F., Ferreira, J., Chiong, M., Bernlohr, D.A., Klip, A., **Hill, J.A.**, Rothermel, B.A., Abel, E.D., Zorzano, A., Lavandero, S. Insulin stimulates mitochondrial fusion and function in cardiomyocytes via the Akt-mTOR-NFkB-Opa-1 signaling pathway. **Diabetes** 63(1):75-88, 2014.
155. Mariño, G., Pietrocola, F., Eisenberg, T., Kong, Y., Malik, S.A., Andryushkova, A., Schroeder, S., Pendl, T., Harger, A., Niso-Santano, M., Zamzami, N., Scoazec, M., Enot, D.P., Fernández, A.F., Martins, I., Senovilla, L., Bauvy, C., Morselli, E., Vacchelli, E., Bennetzen, M., Magnes, C., Sinner, F., Pieber, T., López-Otín, C., Maiuri, M.C., Codogno, P., Andersen, J.S., **Hill, J.A.**, Madeo, F., Kroemer, G. Regulation of autophagy by cytosolic acetyl coenzyme A. **Molecular Cell** 53(5):710-725, 2014.
156. Aurora, A.B., Porrello, E.R., Tan, W., Mahmoud, A.L., **Hill, J.A.**, Bassel-Duby, R., Sadek, H.A., Olson, E.N. Macrophages are required for neonatal heart regeneration. **J Clin Invest** 124(3):1382-1392, 2014.
157. Xie, M., Kong, Y., Tan, W., May, H., Battiprolu, P.K., Pedroza, Z., Wang, Z., Morales, C., Jiang, N., Jessen, M.E., Warner, J.J., Lavandero, S., Gillette, T.G., Turer, A.T., **Hill, J.A.** HDAC inhibition blunts ischemia/reperfusion injury by normalizing cardiomyocyte autophagy. **Circulation** 129(10):1139-51, 2014.

discussed in commentary "Targeting Autophagy for the Therapeutic Application of Histone Deacetylase (HDAC) Inhibitors in Ischemia-Reperfusion Heart Injury"
Circulation 129:1088-1091, 2014.

158. Wang, Z.V., Deng, Y., Gao, N., Pedrozo, Z., Li, D.L., Morales, C., Criollo, A., Luo, X., Tan, W., Jiang, N., Lehrman, M.A., Rothermel, B.A., Lee, A.-H., Lavandero, S., Mammen, P. P.A., Ferdous, A., Gillette, T.G., Scherer, P.E., **Hill, J.A.** Spliced X-Box binding protein 1 couples the unfolded protein response to hexosamine biosynthetic pathway. **Cell** 156: 1179-1192, 2014.

discussed in commentary: Vicenz, L. and Hartl, F.U. Sugarcoating ER Stress, Cell
156: 1125-1127, 2014.

discussed in commentary: Du Toit, A. Sweetening Protein Quality Control, Nature Reviews Mol Cell Biol, 2014.

discussed in commentary: Berndt, J.D. Preventing Stress with Sugar, Science Signaling 7(319):ec83, 2014

discussed in commentary: Glembotski, C.C. Finding the Missing Link Between the Unfolded Protein Response and O-GlcNAcylation in the Heart. Circ Research 115:546-548, 2014

Joseph A. Hill, M.D., Ph.D.

159. Cao, D.J., **Hill, J.A.** Copper futures: Ceruloplasmin and heart failure. *Circ Research* 114:1678-1680, 2014.
160. Luo, X., **Hill, J.A.** Ca²⁺ in the Cleft: Fast and Fluorescent. *Circ Research* 115(3):326-328, 2014.
161. Kwartler, C.S., Chen, J., Thakur, D., Li, S., Baskin, K., Wang, S., Wang, Z.V., Walker, L., **Hill, J.A.**, Epstein, H.F., Taegtmeier, H., Milewicz, D.M. Over-expression of smooth muscle myosin heavy chain leads to activation of the unfolded protein response and autophagic turnover of contractile proteins in vascular smooth muscle cells. *J Biol Chem* 289(20): 14075-14088, 2014.
162. Tong, C.W., Ahmad, T., Brittain, E.L., Bunch, J., Damp, J.B., Dardas, T., Hijar, A., **Hill, J.A.**, Hillard, A.A., Houser, S.R., Jahangir, E., Kates, A.M., Kim, D., Lindman, B.R., Ryan, J.J., Rzeszut, A.K., Sivaram, C.A., Valente, A.M., Freeman, A.M. Challenges facing early career academic cardiologists. *J Amer Coll Cardiol* 63(21):2199-2208, 2014.
163. Mariño, G., Pietrocola, F., Kong, Y., **Hill, J.A.**, Fadeo, F., Kroemer, G. Dimethyl α -keto-glutarate inhibits maladaptive autophagy in pressure overload-induced cardiomyopathy. *Autophagy* 10(5):930-932, 2014.
164. Ibarra, C., Vicencio, J.M., Varas-Godoy, M., Jaimovich, E., Rothermel, B.A., Uhlén, P., **Hill, J.A.**, Lavandero, S. An integrated mechanism of cardiomyocyte nuclear Ca²⁺ signaling, *J Mol Cell Cardiol* 75C:40-48, 2014.
165. Kreusser, M., Lehmann, L., Keranov, S., Hoting, M.-O., Kohlhaas, M., Reil, J.C., Neumann, K., Schneider, M., **Hill, J.A.**, Dobrev, D., Maack, C., Maier, L., Gröne, H.-J., Katus, H., Olson, M., Backs, J., The cardiac CaMKII genes δ and γ contribute to adverse remodeling but redundantly inhibit calcineurin-induced myocardial hypertrophy, *Circulation* 130:1219-1220, 2014.
166. Hu, M.C., Shi, M., Cho, H.J., Adams-Huet, B., Paek, J., Hill, K., Shelton, J., Amaral, A., Faul, C., Taniguchi, M., Wolf, M., Brand, M., Takahashi, M., Kuro-o, M., **Hill, J.A.**, Moe, O.W. Klotho and phosphate are modulators of pathologic uremic cardiac remodeling, *J Amer Soc Nephrol* 26(6):1290-302, 2015.
167. Lavandero, S., Chiong, M., Rothermel, B.A., **Hill, J.A.** Autophagy in cardiovascular biology, *J Clin Invest* 125:55-64, 2015.
168. Daniels, J.D., **Hill, J.A.** Funny and late: Targeting currents governing heart rate in atrial fibrillation, *J Cardiovasc Electrophysiol* 26(3):336-8, 2015.
169. Rockey, D.C., Bell, D., **Hill, J.A.** Fibrosis: A common pathway of organ injury and failure, *N Engl J Med* 372(12):1138-49, 2015.
170. Wang, Z.V., and **Hill, J.A.** Protein quality control and metabolism: Bidirectional control in the heart, *Cell Metabolism* 21(2):215-26, 2015.
171. Wang, Z.V., **Hill, J.A.** Diabetic cardiomyopathy: Catabolism driving metabolism, *Circulation* 131(9):771-3, 2015.

Joseph A. Hill, M.D., Ph.D.

172. Lara-Pezzi, E., Menasché, P., Trouvin, J-H., Badimón, L., Ioannidis, J.P.A., Wu, J.C., **Hill, J.A.**, Koch, W.J., De Felice, A.F., Homsy, C., de Waele, P., Steenwinckel, Valérie, Hajjar, R.J., Zeiher, A.M. Guidelines for translational research in heart failure, **J Cardiovasc Trans Res** 8(1):3-22, 2015.
173. Westermeier, F., Navarro-Marquez, M., López-Crisosto, Quiroga, C., Verdejo, H.E., Ibacache, M., Parra, V., Castro, P.F., Rothermel, B.A., **Hill, J.A.**, Lavandero, S. Defective insulin signalling in diabetic cardiomyopathy and mitochondrial dynamics, **BBA - Molecular Cell Research** 1853(5):1113-1118, 2015.
174. Gillette, T.G. and **Hill, J.A.** Readers, writers and erasers: Chromatin as the whiteboard of heart disease, **Circ Research** 116(7):1245-1253, 2015.
175. Harrington, R.A., Barac, A., Brush, J.E., **Hill, J.A.**, Krumholz, H., Lauer, M.S., Sivaram, C.A., Taubman, M.B., Williams, J.L. COCATS Task Force 15: Training in cardiovascular research and scholarly activity **J Am Coll Cardiol** 65(17):1899-906, 2015.
176. Chang, A.N., Battiprolu, P.K., Cowley, P.M., Chen, G., Gerard, R.D., Pinto, R.R., Zhu, M.-S., **Hill, J.A.**, Baker, A.J., Kamm, K.E., Stull, J.T., Constitutive phosphorylation of cardiac myosin regulatory light chain *in vivo*, **J Biol Chem** 290(17):10703-16, 2015.
177. Schiattarella, G.G., **Hill, J.A.** Inhibition of hypertrophy is a good therapeutic strategy in ventricular pressure overload, **Circulation** 131(16):1435-47, 2015.
178. Pedrozo, Z., Criollo, A., Battiprolu, P.K., Jiang, N., Contreras, A., Fernández, C., Morales, C.R., Luo, X., Caplan, M.J., Somlo, S., Rothermel, B.A., Gillette, T.G., Lavandero, S., **Hill, J.A.** Polycystin-1 is a cardiomyocyte mechanosensor that governs L-type Ca²⁺ channel protein stability, **Circulation** 131, 2131-2142, 2015.
179. **Hill, J.A.** Braking bad hypertrophy. **N Engl J Med** 372(22):2160-2, 2015.
180. Altamirano, F., Wang, Z.V., and **Hill, J.A.** Cardioprotection in ischemia/reperfusion injury: Novel mechanisms and clinical translation, **J Physiol** 593(17):3773-3788, 2015.
181. Cao, D.J., Lavandero, S., **Hill, J.A.** Parkin gone wild: Unbridled ubiquitination, **Circ Research** 117(4): 311-313, 2015.
182. Zhu, M., Wang, Z., Luo, R., Goetsch, S.C., **Hill, J.A.**, Schneider, J., Morris, S.M., Liu, Z.-P. FoxO4 promotes early inflammatory response upon myocardial infarction via endothelial Arg1, **Circ Research** 117(11):967-977, 2015.
183. Vásquez-Trincado, C., García-Carvajal, I., Pennanen, C., Parra, V., **Hill, J.A.**, Rothermel, B.A., Lavandero, S. Mitochondrial dynamics, mitophagy and cardiovascular diseases, **J Physiol** 594(3):509-525, 2016.
184. Burchfield, J., Paul, A.L., Lanka, V., Tan, W., Kong, Y., McCallister, C., Rothermel, B.A., Schneider, J.W., Gillette, T.G., **Hill, J.A.** Pharmacological priming of adipose-derived stem cells promotes myocardial repair, **J Investig Med** 64(1): 50-62, 2016.
185. Cho, G.W., Altamirano, F., **Hill, J.A.** Chronic heart failure: Ca²⁺, catabolism, and catastrophic cell death, **BBA – Mechanisms of Disease** 1862(4):763-77, 2016.

Joseph A. Hill, M.D., Ph.D.

186. Kim, S.Y., Morales, C., **Hill, J.A.** Epigenetic regulation in heart failure, *Curr Opin Cardiol* 31(3):255-6, 2016.
187. Schiattarella, G., **Hill, J.A.** Therapeutic targeting of autophagy in cardiovascular disease, *J Mol Cell Cardiol* 95:86-93, 2016.
188. **Hill, J.A.** How to review a manuscript, *J Electrocardiol* 49(2):109-11, 2016.
189. García-Rúa, V., Feijóo-Bandín, S., Rodríguez-Penas, D., Mosquera-Leal, A., Abu-Assi, E., Beiras, A., Seoane, L.M., Lear, P.V., Parrington, J., Portolés, M., Roselló-Lletí, E., Rivera, M., Parra, V., **Hill, J.A.**, Rothermel, B.A., González-Juanatey, J., Lago, F. Endolysosomal two pore-segment channels regulate autophagy in cardiomyocytes, *J Physiol* 594(11):3061-3077, 2016.
190. Li, D.L., Wang, Z.V., Ding, G., Tan, W., Luo, W., Criollo, A., Xie, M., Jiang, N., May, H., Kyrychenko, V., Schneider, J.W., Gillette, T.G., **Hill, J.A.** Doxorubicin blocks cardiomyocyte autophagic flux by inhibiting lysosome acidification, *Circulation* 133(17):1668-87, 2016.
191. Shaikh, S., Troncoso, R., Criollo, A., Bravo-Sagua, R., Morselli, E., Garcia, L., **Hill, J.A.**, Lavandero, S. Regulation of cardiomyocyte autophagy by Ca²⁺, *AJP – Endocrinology and Metabolism* 310: E587–E596, 2016.
192. Morales, C.R., Li, D.L., Pedrozo, Z., May, H.I., Jiang, N., Kyrychenko, V., Cho, G., Rotter, D., Rothermel, B.A., Schneider, J.A., Lavandero, S., Gillette, T.G., **Hill, J.A.** Inhibition of class I histone deacetylases blunts cardiac hypertrophy via TSC2-dependent mTOR repression, *Science Signaling* 9(422):1-10, 2016.
193. Schiattarella, G., **Hill, J.A.** Metabolic control and oxidative stress in pathological cardiac remodeling, *Eur Heart J* May 30, 2016.
194. Fujikawa, T., Castorena, C.M., Pearson, M., Kusminski, C.M., Ahmed, N., Battiprolu, P.K., Kim, K.W., Lee, S., **Hill, J.A.**, Scherer, P.E., Holland, W.L., Elmquist, J.K. SF-1 expression in the hypothalamus is required for beneficial metabolic effects of exercise, *eLife* 2016, DOI: 10.7554/eLife. 18206.001.
195. Deng, Y., Wang, Z.V., Gordillo, R., An, Y., Zhang, C., Liang, Q., Yoshino, J., Cautivo, K.M., de Brabander, J., Elmquist, J.K., Horton, J.D., **Hill, J.A.**, Klein, S., Scherer, P.E. An adipobiliary-uridine axis that regulates energy homeostasis, *Science* 355: 1-9, 2017.
196. Konstam, M.A., **Hill, J.A.**, Kovacs, R.J., Harrington, R.A., Arrighi, J.A., Khera, A. The Academic medical system: Reinvention to survive the revolution in health care, submitted, in review. *J Amer Coll Cardiol* 69(10):1305-1312, 2017.
197. Tong, D., **Hill, J.A.** Spermidine promotes cardioprotective autophagy, *Circ Research* 120:1229-1231, 2017.
198. **Hill, J.A.**, Ardehali, R., Taylor Clark, K., del Zoppo, G.J., Eckhardt, L.L., Griendling, K.K., Libby, P., Roden, D.M., Sadek, H.A., Seidman, C., Vaughan, D.E. Fundamental cardiovascular research: Returns on societal investment *Circ Research* 121(3):e2-e8, 2017.

Joseph A. Hill, M.D., Ph.D.

199. Perrino, C., Barabási, A-L., Condorelli, G., Davidson, S.M., De Windt, L., Dimmeler, S., Engel, F.B., Hausenloy, D.J., **Hill, J.A.**, Van Laake, L.W., Lecour, S., Leor, J., Madonna, R., Mayr, M., Prunier, F., Sluijter, J., Schulz, R., Thum, T., Ytrehus, K., Ferdinandy, P. Epigenomic and transcriptomic approaches in the post-genomic era: Path to novel targets for diagnosis and therapy of the ischemic heart? **Cardiovasc Research** 113(7):725-736, 2017.
200. Joshi, P.H., **Hill, J.A.** "Pound-Years": Effects on the heart of long-term exposure to obesity, **Circulation Research** 120(10):1533-1534, 2017.
201. Eschenhagen, T., Bolli, R., Braun, T., Field, L.J., Fleischmann, B., Frisén, J., Giacca, M., Hare, J., Houser, S., Lee, R.T., Marbán, E., Martin, J.F., Molkentin, J.D., Murry, C., Riley, P., Ruiz-Lozano, P., Sadek, H., Sussman, M., **Hill, J.A.** Cardiomyocyte regeneration: A consensus statement. **Circulation** 136(7):680-68, 2017.
202. Ling, L., Zviti, R., Ha, C., Wang, Z.V., **Hill, J.A.**, Lin, F. Forkhead Box O3 (FoxO3) regulates kidney tubular autophagy following urinary tract obstruction, **J Biol Chem** 292(33):13774-13783, 2017.
203. Tong, C.W., Madhur, M.S., Rzeszut, A.K., Abdalla, M., Abudayyeh, I., Alexanderson, E., Buber, J., Feldman, D.N., Gopinathannair, R., Hira, R.S., Kates, A., Kessler, T., Leung, S., Raj, S.J., Spatz, E.S., Turner, M.B., Valente, A.M, West, K., Sivaram, C.A., **Hill, J.A.**, Mann, D.L., Freeman, A. Status of early career academic cardiology: A global perspective. **J Amer Coll Cardiol** 70(18):2290-2303, 2017.
204. Parra, V., Altamirano, F., Hernández-Fuentes, C.P., Tong, D., Kyrychenko, V., Rotter, D., Pedrozo, Z., **Hill, J.A.**, Eisner, V., Lavandero, S., Schneider, J.W., Rothermel, B.A. Down syndrome critical region 1 gene, *Rcan1*, helps maintain a more fused mitochondrial network, **Circulation Research**, 122:e20-e33, 2018.
205. Cao, D., Schiattarella, G.G., Villalobos, E., Jiang, N., May, H.I., Li, T., Chen, Z.J., Gillette, T.G., **Hill, J.A.** Cytosolic DNA sensing governs macrophage transformation and myocardial ischemic injury, **Circulation** 2018, In Press.
206. Criollo, A., Altamirano, F., Pedrozo, Z., Schiattarella, G.G., Li, D.L., Rivera-Mejías, P., Sotomayor-Flores, C., Parra, V., Villalobos, E., Batriprolu, P.K., Jiang, N., May, H.I., Morselli, E., Igarashi, P., de Smedt, H., Gillette, T.G., Lavandero, S., **Hill, J.A.** Polycystin-2-dependent control of cardiomyocyte autophagy, **J Mol Cell Cardiol** 2018, In Press.
207. Deng, Y., Wang, Z.V., Gordillo, R., Zhu, Y., Ali, A., Zhang, C., Wang, X., Shao, M., Zhang, Z., Iyengar, P., Gupta, R., Horton, J.D., **Hill, J.A.**, Scherer, P.E. Adipocyte Xbp1s overexpression drives uridine production and reduces obesity, **Molecular Metabolism** 2018, In Press.
208. Bi, X., Zhang, G., Wang, X., Nguyen, C., May, H.I., Li, X., Al-Hashimi, A., Austin, R.C., Gillette, T.G., Fu, G., Wang, Z.V., **Hill, J.A.** ER chaperone GRP78 protects the heart from ischemia/reperfusion injury through stimulation of Akt, **Circulation Research**, 2018, In Press.
209. Sun, Y., Yao, X., Zhang, Q-J., Zhu, M., Liu, Z-P., Carlson, D., Rothermel, B.A., Sun, Y., Levine, B., **Hill, J.A.**, Wolf, S.E., Minei, J.P., Zhang, Q.S., Beclin-1-dependent autophagy protects the heart during sepsis, submitted, **Circulation** 2018, In Press.

Submitted, In Review or Revision

210. Zhan, S., Gerard, R.D., **Hill, J.A.**, Rothermel, B.A. Multiple pathways control stability of the calcineurin regulator MCIP1.4/DSCR1.4, submitted, in review.
211. Russell, J.L., Goetsch, S., Aguilar, H., Coe, H., Luo, X., Liu, N., van Rooij, E., Williams, N., **Hill, J.A.**, Frantz, D.E., Schneider, J.W. Chemically directing muscle differentiation in adult epicardium-derived cells in vivo through ischemic acidosis-sensing receptors, submitted, in review.
212. Kreusser, M.H., Zhang, M., Lehmann, L.H., Keranov, S., Kohlhaas, M., Reil, J.-C., Neumann, K., Hagenmueller, M., Riffel, J.H., **Hill, J.A.**, Dobrev, D., Maack, C., Maier, L.S., Gröne, J.-H., Katus, H.A., Olson, E.N., Hardt, S.E., Backs, J. CaMKII is a mediator of Dvl1-induced adverse cardiac remodeling but an inhibitor of Calcineurin-dependent cardiac hypertrophy, submitted, in review.
213. Kreusser, M.M., **Hill, J.A.**, Backs, J. Cardiac CaMKII couples Wnt/Dvl to HDAC4 and controls calcineurin activity, submitted, in review.
214. Zhu, M., Morris, S.M., **Hill, J.A.**, Liu, Z.-P. FoxO4 promotes adverse post myocardial infarction left ventricular remodeling by activating Arg1 expression in cardiofibroblasts, submitted, in review.
215. Deng, Y., Wang, Z.V., Gordillo, R., Zhu, Y., An, Y., Wang, M.-Y., Gao, N., Ali, A., Liang, Q., Yoshino, J., Cautivo, K.M., Iyengar, P., Glimcher, L.H., de Brabander, J., Gillette, T.G., Lehrman, M.A., Unger, J.K., Horton, J.D., **Hill, J.A.**, Klein, S., Scherer, P.E. The adipobiliary-uridine axis regulates energy homeostasis, submitted, in review.
216. Fujikawa, T., Choi, Y.-H., Donato, J., Kohno, D., Lee, J., Lee, C.E., Battiprolu, P.K., **Hill, J.A.**, Elias, C.F., Lee, S., Kim, K.W., Elmquist, J.K. PI3K signaling in the ventral medial nucleus of the hypothalamus regulates energy balance and heart function, submitted, in review.
217. He, J., Quintana, M.T., Sullivan, J., Grevengoed, T., Schisler, J.C., **Hill, J.A.**, Yates, C., Mapanga, R.F., Essop, M.F., Stansfield, W.E., Bain, J.R., Newgard, C.B., Muehlbauer, M.J., Han, Y., Clarke, B.A., Willis, M.S. MuRF2 regulates PPAR γ 1 activity to protect against diabetic cardiomyopathy and enhance weight gain induced by a high fat-induced diet, submitted, in review.
218. Livingston, M.J., Ding, H.-F., Huang, S., **Hill, J.A.**, Dong, Z. Persistent activation of autophagy in kidney tubular cells promotes renal interstitial fibrosis during unilateral ureteral obstruction, submitted, in review.
219. Li, L., Zviti, R., Ha, C., Wang, Z.V., **Hill, J.A.**, Lin, F. FoxO3 regulates renal epithelial autophagy following obstructive injury, submitted, in review.
220. Klionsky, D.J., Henske, E.P., ..., **Hill, J.A.**, et al., Guidelines for the use and interpretation of assays for monitoring autophagy, submitted, in review.
221. Ibarra, C., Beltrán-Rodríguez, A., Fernández-Zafra, T., Varas-Godoy, M., Lin, Y., Larsson, O., Chiong, M., Altamirano, F., Rothermel, B.A., **Hill, J.A.**, Uhlén, P., Lavandero, S. Nucleus-initiated calcium-induced calcium release in embryonic rat cardiomyocytes, submitted, in review.

222. Bravo-Sagua, R., Parra, C., Ortiz-Sandoval, C., Navarro-Marquez, M., Rodriguez, A.E., Diaz, N., Sanhueza, C., Rothermel, B.A., **Hill, J.A.**, Simmen, T., Quest, A.F.G., Lavandero, S. Caveolin-1 impairs PKA-mediated remodelling of ER-mitochondria communication during the early phase of ER stress, submitted, in review.
223. Criollo, A., Villalobos, E., Schiattarella, G.G., Altamirano, F., Jiang, N., Roa, J.C., Garcia, L., Diaz-Araya, G., Morselli, E., Ferdous, A., Gillette, T.G., Lavandero, S., **Hill, J.A.** Fibroblast primary cilia are required for cardiac fibrosis, submitted, in review.
224. Xiao, F., Thet, S., Canseco, D.C., Kimura, W., Kohlbrenner, E., Luo, X., Uyen, N., Nguyen, N., Lam, N., Elhelaly, W., Hajjar, R.J., **Hill, J.A.**, Sadek, H.A., Regulation of cardiomyocyte sarcomere disassembly by alpha 2 adducin, submitted, in review.
225. Ma, X., Mani, K., Liu, H., Kovacs, A., Murphy, J.T., Williams, G., Weinheimer, C.J., Benjamin, I.J., **Hill, J.A.**, Javaheri, A., Diwan, A. TFEB rescues advanced α B-crystallin mutation-induced cardiomyopathy by normalizing desmin localization, submitted, in review.
226. Ma, X., Mani, K., Liu, H., Kovacs, A., Murphy, J.T., Williams, G., Weinheimer, C.J., Benjamin, I.J., **Hill, J.A.**, Javaheri, A., Diwan, A., TFEB activation rescues advanced α B-crystallin mutation-induced cardiomyopathy by normalizing desmin localization, submitted, in review.
227. Zhang, Q-J., Anh, T., Wang, M., Ranek, M.J., Gao, J., Luo, X., Wei, T., Xu, J., Bassel-Duby, R., **Hill, J.A.**, Olson E.N., Kass, D., Martinez, E., Liu, Z-P. Histone lysine dimethyl-demethylase KDM3A controls pathological cardiac hypertrophy and fibrosis. submitted, in review.
228. Ferdous, A., Wang, Z.V., Li, D.L., Luo, X., Schiattarella, G.G., Altamirano, F., May, H.I., Battiprolu, P.K., Nguyen, A., Rothermel, B.A., Lavandero, S., Gillette, T.G., Hill, J.A. FoxO1-dependent signaling axis governs intracellular thyroid hormone homeostasis and pathological cardiac hypertrophy, submitted, in review.
229. Schiattarella, G.G., Altamirano, F., Tong, D., French, K., Jiang, N., May, H.I., Wang, Z.V., Hill, T.M., Lee, D.I., Hahn, V.S., Sharma, S., Kass, D.A., Lavandero, S., Gillette, T.G., **Hill, J.A.** Nitrosative stress-dependent suppression of Xbp1s drives heart failure with preserved ejection fraction, submitted, in review.
230. Altamirano, F., Schiattarella, G.G., French, K., Kim, S.Y., Kyrchenko, S., Engelbelger, F., Villalobos, E., Tong, D., Schneider, J.W., Ramirez-Sarmiento, C.A., Lavandero, S., Gillette, T.G., **Hill, J.A.** Polycystin-1 governs K⁺ channel assembly and function to regulate cardiomyocyte repolarization and contractile performance, submitted, in review.
231. Livingston, M.J., Wang, J., Zhou, J., Wu, G., Ganley, I.G., **Hill, J.A.**, Yin, X.-M., Dong, Z. Clearance of damaged mitochondria via mitophagy is important to the protective effect of ischemic precondition in kidneys, submitted, in review.
232. Nakada, Y., Savla, J., Gillette, T.G., **Hill, J.A.**, Sadek, S.A. DNA damage response is required for pressure overload-induced cardiac hypertrophy, submitted, in review.

Perspectives and Commentaries

1. **Hill, J.A.** Notes from the incoming editor. *Circulation* 133:768-769, 2016.
2. **Hill, J.A.** Notes from the incoming editor: Second installment. *Circulation* 133:1300-1301, 2016.
3. **Hill, J.A.** Notes from the incoming editor: Third installment. *Circulation* 133:1713-1714, 2016.
4. **Hill, J.A.** Notes from the incoming editor: Final installment. *Circulation* 133:2215-2216, 2016.
5. **Hill, J.A.** Vision for the new *Circulation*. *Circulation*. 134:3-5, 2016.
6. **Hill, J.A.**, Gardner, T.J. *Circulation's* vision for cardiac surgery. *Circulation*. 134(17):1203-1204, 2016
7. Reimold, S.C., **Hill, J.A.** Inaugural Go Red for Women issue. *Circulation*. 135(6):493-494, 2017.
8. **Hill, J.A.** Bridging disciplines. *Circulation* 135(14):1277-1278, 2017.
9. **Hill, J.A.** Reflections of the Editor-in-Chief. *Circulation* 136(7):613-614, 2017
10. Nallamothu, B., **Hill, J.A.** Preprint servers: Prescient or premature, *Circulation* 136(13):1177-1179, 2017.
11. Schiattarella, G.G., Hill, T.M., **Hill, J.A.** Is load-induced ventricular hypertrophy ever compensatory? *Circulation* 136(14):1273-1275, 2017.
12. Fisher, M, **Hill, J.A.** Ischemic stroke mandates cross-disciplinary collaboration. *Circulation* 137(2): 103-105, 2018.
13. Schiattarella, G.G., **Hill, J.A.** Epigenetic control of lipid metabolism: Implications for lifespan and healthspan, *Cardiovasc Res* 2018, In Press.
14. Reimold, S.C., **Hill, J.A.** Introduction to the second go red for women issue, *Circulation* 2018, In Press.

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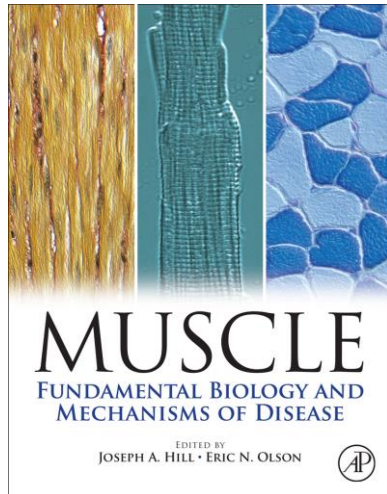
Books

Muscle: Fundamental Biology and Mechanisms of Disease

Editors: Joseph A. Hill and Eric N. Olson

2012, Elsevier/Academic Press, Amsterdam

This book is large in scope ($\approx 1,500$ pages). Its content deals with all three forms of muscle (cardiac, skeletal, smooth) and spans the spectrum of fundamental, basic science, translational biology, disease mechanism, and therapeutics. Importantly, a work such as this – conceived to complement the many clinical textbooks that exist in cardiology – has never been accomplished before. Our target audience includes individuals involved in muscle investigation and students of muscle biology, including undergraduate and graduate students, clinical fellows, and seasoned investigators.



Book Chapters

1. **Hill, J.A.** and Strauss, H.C.: Characterizing cardiac ion channels using the bilayer reconstitution technique.” In: Brugada, P. and Wellens, H.J.J., Eds., *Cardiac Arrhythmias: Where to Go from Here?* Mount Kisco, NY, Futura Publishing Co., 1987, pp. 779-801.
2. Strauss, H.C., Yee, R., **Hill, J.A.**, and Wenger, T.L.: Mechanisms of reperfusion arrhythmias. In: Rosen, M.R. and Palti, Y., Eds., *Lethal Arrhythmias Resulting from Myocardial Ischemia and Infarction*. Boston, Kluwer Academic Publishers, 1988, pp. 55-73.
3. Changeux, J-P., Babinet, C., Bessereau, J-L., Bessis, A., Cartaud, A., Daubas, P., Devillers-Thièry, A., Duclert, A., **Hill, J.A.**, Jasmin, B., Klarsfeld, A., Laufer, R., Nghiem, H-O., Piette, J., Roa, M., and Salmon, A.M.: Compartmentalization of acetylcholine receptor gene expression during development of the neuromuscular junction. In: Cold Spring Harbor Symposium on Quantitative Biology, No. 55, *The Brain*, Cold Spring Harbor Press, 1990, pp. 381-396.
4. Nghiem, H-O., **Hill, J.A.**, and Changeux, J-P.: The *Torpedo marmorata* electrocyte: Developmental changes in the subcellular distribution of 43K ($\nu 1$) protein suggest a role for 43K protein in the stabilization of acetylcholine receptors. In: *The Living Cell in Four Dimensions*. American Institute of Physics, 1991, pp. 416-427.
5. Zhu, H., Rothermel, B.A., **Hill, J.A.**: Autophagy in load-induced heart disease. In: Klionsky, D.J. Ed., *Methods in Enzymology: Autophagy*. Philadelphia, Elsevier, 2009, 453:343-363.

Joseph A. Hill, M.D., Ph.D.

6. Tannous, P., Rothermel, B.A., Hill, J.A.: Protein quality control in heart disease: Small heat shock proteins and autophagy, 2010.
7. Gondalia, R.B., Rothermel, B.A., Lavandero, S., Gillette, T.G., Hill, J.A. Cardiac plasticity in health and disease. In: Willis, M and Patterson, C. Eds. *Molecular and Translational Cardiology* 2011.
8. Wang, Y., Hill, J.A., Ionic fluxes and genesis of the cardiac action potential. In: Hill, J.A. and Olson, E.N. *Muscle: Fundamental Biology and Mechanisms of Diseases*, Elsevier/Academic, Amsterdam, 2012.
9. Hill, J.A., Lavandero, S., Rothermel, B.A., Autophagy in cardiac physiology and disease In: Hill, J.A. and Olson, E.N. *Muscle: Fundamental Biology and Mechanisms of Diseases*, Elsevier/Academic, Amsterdam, 2012.
10. Frey, N., Olson, E.N., Hill, J.A., Molecular mechanisms of stress-induced heart disease. In: Hill, J.A. and Olson, E.N. *Muscle: Fundamental Biology and Mechanisms of Diseases*, Elsevier/Academic, Amsterdam, 2012.
11. Hill, J.A., Olson, E.N. Introduction to Muscle. In: Hill, J.A. and Olson, E.N. *Muscle: Fundamental Biology and Mechanisms of Diseases*, Elsevier/Academic, Amsterdam, 2012.
12. Troncoso, R., Vásquez-Trincado, C., del Campo, A., Gatica, D., Morales, P., Paredes, F., Garcia, L., Díaz-Araya, G., Pedrozo, Z., Nemchenko, A., Ferdous, A., Battiprolu, P.K., Gillette, T.G., Hill, J.A., Lavandero, S. Regulation of autophagy by insulin/IGF-1 signaling pathways. In: *Autophagy: Principles, Regulation and Roles in Disease*, Nova, 2012.
13. Diwan, A., Hill, J.A., Force, T.L., Molecular basis for heart failure. In: *Heart Failure: A Companion to Braunwald's Heart Disease*, Elsevier, 2013.
14. Battiprolu, P.K., Wang, Z.V., Hill, J.A. Diabetic cardiomyopathy: Mediators and mechanisms. In: *Diabetes in Cardiovascular Disease: A Companion to Braunwald's Heart Disease*, Elsevier, 2014.
15. Xie, M, Hill, J.A. Cardiac Autophagy and its Regulation by Reversible Protein Acetylation. In: *Epigenetics in Cardiac Disease*, Springer, 2016.

Commentaries

1. Harold, J.G., O'Gara, P.T., Hill, J.A., Konstam, M.A. President's Page: An Urgent Call to Action: Graduate Medical Education Funding and the Future of Health Care. ***J Am Coll Cardiol*** 62(15):1394-5, 2013.
2. Harold, J.G., O'Gara, P.T., Hill, J.A., Konstam, M.A. President's Page: The Perfect Storm: A Rally Cry for Medical Research Funding. ***J Am Coll Cardiol*** 62(15):1394-5, 2013.

Case Reports

1. Palen, B., Stanford, W., Fagan, T., Hill, J.A. Atypical chest pain and atypical coronary artery disease. *Am J Cardiol* 92:120, 2003.

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Patents

1. Mouse model for the study of heart failure with preserved ejection fraction, application in process 2016