

CURRICULUM VITAE

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DATE OF BIRTH: September 27, 1955

PLACE OF BIRTH: Rochester, New York

DEGREES:

1973-1977 B.A., Chemistry and Biology
Wake Forest University, Winston-Salem, NC
1977-1981 Ph.D., Biochemistry
Wake Forest University, School of Medicine
2003 Honorary Doctorate, Wake Forest University

APPOINTMENTS:

1981-1983 Postdoctoral Fellow (with Dr. Luis Glaser), Dept. of Biological Chemistry, Washington University
School of Medicine
1984-1995 Dept. of Biochemistry and Molecular Biology, M.D. Anderson Cancer Center
1984 Assistant Professor
1989 Associate Professor
1991 Professor and Chairman
1995-present Professor and Chairman, Department of Molecular Biology, U. T. Southwestern Medical Center
Director, Hamon Center for Basic Cancer Research
1995-2004 Nancy B. and Jake L. Hamon Distinguished Chair
1999-present Associate Director, D.W. Reynolds Center of Cardiovascular Medicine
2001-present The Robert A. Welch Distinguished Chair in Science
2006-present Annie and Willie Nelson Professorship in Stem Cell Research
2006-present Pogue Distinguished Chair in Research on Cardiac Birth Defects

SELECTED HONORS AND AWARDS:

1998 Elected Fellow, American Academy of Arts and Sciences
1998 Edgar Haber Cardiovascular Medicine Research Award, American Heart Association
1999 American Heart Association, Basic Research Prize
1999 Gill Heart Institute Award for Outstanding Contributions to Cardiovascular Research
2000 Elected to U.S. National Academy of Sciences
2000 Pasarow Foundation Award in Cardiovascular Medicine
2000 Institute of Medicine of National Academy of Sciences
2000 NIH MERIT Award
2000 Elected Fellow, American Academy of Microbiology
2001 Bristol-Myers Squibb "Freedom to Discover" Research Award
2001 Elected Fellow, American Heart Association
2003 Inaugural Distinguished Scientist Award, American Heart Association
2003 Louis and Artur Lucian Award for Research in Cardiovascular Diseases, McGill University
2004 Health Care Hero, Innovator Award, Dallas Business Journal

- 2004 Member, The Academy of Medicine, Engineering and Science of Texas
- 2005 Outstanding Investigator Award, International Society for Heart Research
- 2005 Pollin Prize in Pediatric Research, Columbia University (shared with Abraham Rudolph)
- 2008 Research Achievement Award, American Heart Association
- 2009 Fondation Lefoulon-Delalande Grand Prize for Science
Awarded by the Academie de Science, Institut de France
- 2009 Charles Butcher Award in Genomics and Biotechnology, University of Colorado
- 2009 Robert Beamish Leadership Award, University of Manitoba
- 2010 Medal of Merit, International Academy of Cardiovascular Sciences
- 2012 Passano Award
- 2012 Steven C. Beering Award, Indiana University School of Medicine
- 2013 March of Dimes Prize in Developmental Biology
- 2013 International Society for Heart Research Achievement Award

SELECTED HONORARY LECTURES:

- 1995 Robert E. Davis Distinguished Lecture, Univ. of Pennsylvania Medical Center
- 1997 Distinguished Lecture, Institute of Medicine
Arthur H. Whiteley Plenary Lecture, Northwest Dev. Biol. Conference
- 1998 Distinguished Lecture, American Society for Human Genetics
The Blount Distinguished Lecture in Cardiology, Univ. of Colorado Medical School
Dean's Distinguished Lecture, Univ. of Cincinnati School of Medicine
- 1999 Congressional Biomedical Research Caucus, Washington, D.C.
Wright Science Colloquium Lecture, Gottingen, Germany
Inaugural Princess Diana Lecture, Sydney Australia
- 2000 Bea Fowlow Distinguished Lecture, University of Calgary
Keynote Address, 20th Annual Meeting, Sarnoff Foundation
Commencement Address, Graduate School of Arts & Sciences, Wake Forest University
Keynote Address, 20th Anniversary, Gladstone Institute, San Francisco, CA
Dean's Distinguished Lecture, Univ. of Colorado Health Science Center
Dennis Annual Memorial Lecture, Baylor College of Medicine
Dean's Distinguished Lecture, UT-Houston Medical School
Hermann Rahn Memorial Lecture. SUNY-Buffalo School of Medicine
Francis L. McNaughton Lecture, University of Montreal
Thomas W. Smith Memorial Lecture, American Heart Association
- 2001 Samuel Pruzansky Lecture, March of Dimes
Sterling Lecture, SUNY Upstate Medical Center
Borun Foundation Visiting Professor Lecture, UCLA
Koppanyi Lecture, Georgetown University
- 2002 Leonard Leight Lecture, University of Louisville
Stadtler Lecture, M.D. Anderson Cancer Center
Fyler Lecture, Children's Hospital Harvard Medical School
Reginald G. Harris Lecture, Cold Spring Harbor
Karl Beyer Honorary Lecture, University of Wisconsin
Robert Berne Distinguished Lecture, University of Virginia
Institute of Circulatory and Respiratory Health, Distinguished Lectureship and Prize, Manitoba, Canada
Wilkins Distinguished Lecture, Boston University Medical Center
- 2003 The Harvey Lecture, Rockefeller University
The Kaiser Distinguished Lecture, University of Hawaii
The Frank Wilson Visiting Professorship and Lectures, University of Michigan
Nobel Forum Lecture, Karolinska Institute, Stockholm
- 2004 George W. Brumley Memorial Lecture, Duke University
Royston C. Clowes Memorial Lecture, University of Texas at Dallas

- The Sutin Distinguished Lecture, Emory University
The Max Planck Lecture, University of Tuebingen
20th Annual Page Lecture, Cleveland Clinic
- 2005 The Gowdey Memorial Lecture, University of Western Ontario
The Mavis P. Kelsey Lecture, Texas A&M University Health Science Center
- 2006 Joseph L. Melnick Distinguished Lecture, Baylor College of Medicine
Arthur Fox Distinguished Lecture, New York University
The Annual Mac Edds Lecture, Brown University
- 2007 Alan Bernstein Distinguished Lecture, University of British Columbia
Mark J. Mass Memorial Lecture, University of North Carolina
Landmark Lecture, International Society for Heart Research
- 2008 The Brutsaert Lecture, European Society of Cardiology
Annual George E. Peacock Lecture, UT Southwestern Medical Center
The Adam Neville Lecture, University of Dundee
The Arthur Guyton Lecture, Curacao, Netherlands Antilles
- 2009 The Distinguished Scientist Lecture, American Heart Association Scientific Sessions
The Honorary International Lecture, German Society of Cardiology
The Orrin Ingram Distinguished Lecture, Vanderbilt School of Medicine
The 51st David Geffen Lecture Award, UCLA School of Medicine
The President's Lecture, UT Southwestern Medical Center
The Linton H. Bishop Lecture, Emory University School of Medicine
The Twenty-Sixth Robert E. Olson Lecture, St. Louis University School of Medicine
The Oliver H. Lowry Lecture, Washington University School of Medicine
The Samuel Rudin Distinguished Lectures, Columbia University School of Medicine
The Michel Mirowski Lecture, Johns Hopkins University School of Medicine
The Klaus Unna Lecture, University of Illinois
The Charles Butcher Award Lecture, University of Colorado
- 2010 George Burch Memorial Lecture, Association of University Cardiologists
The J.J. Sampson Lectureship, UCSF
The Annual Frances Feinberg Memorial Lecture, Northwestern University
Presidential Lecture, Memorial Sloan Kettering Cancer Center
The James T. Willerson Lecture, Texas Heart Institute
- 2011 The Annual Kendall-Mattox Lecture, Mayo Clinic
The Kroc Distinguished Lecture, Harvard Medical School
The Fourteenth Annual Paul Dudley White Lecture, Massachusetts General Hospital
Congressional Biomedical Research Caucus, Capital Hill, Washington DC
The Biology Lecture 2011, ETH Zurich
Gerald D. Aurbach Memorial Lecture, American Society for Bone and Mineral Research
Robert and Emily Walker Lecture, Texas A&M University
The Alexander S. Nadas Lecture, American Heart Association Annual Meeting
- 2012 Distinguished Lecture, Western Association of Physicians
The Clayton Buck Lecture, Wistar Institute
Annual Gertrude and Florian Nelson Lectureship, University of Mississippi Medical Center
Passano Lecture
R.D. Wright Award Lecture, Sydney, Australia
- 2013 Barcroft Lecture, Queens University, Belfast

SELECTED REVIEW AND ADVISORY ACTIVITIES:

- 1992-1999 Scientific Advisory Committee, Muscular Dystrophy Association
1992-1997 Executive Committee, American Heart Association
1995-1999 Molecular Cytology Study Section, National Institutes of Health

1995-present Board of Trustees, Society for Developmental Biology
 1997-2001 Council Member, American Society for Cell Biology
 1998-present Scientific Advisory Board, Stowers Institute for Medical Research
 2001-2004 Public Policy Committee of The American Society for Cell Biology
 2003-present Scientific Review Board, Howard Hughes Medical Institute
 2004-present Scientific Advisory Board, Gladstone Institute
 2007-present External Review Board, M.D. Anderson Cancer Center
 2008-present Scientific Advisory Board, Max Planck Institute
 2008-present Scientific Advisory Board, Burnham Institute
 2008-present Scientific Advisory Board, IMAGINE Foundation, Paris, France
 2009-present Scientific Advisory Committee, March of Dimes Foundation

INDUSTRY INVOLVEMENT:

Collateral Therapeutics, Consultant
 Vical Therapeutics, Consultant
 Hydra Biosciences, Consultant
 Myogen, Inc., Co-founder and Consultant
 miRagen Therapeutics, Co-founder and Chief Scientific Advisor
 Lonestar Heart, Co-founder and Scientific Advisor

EDITORIAL BOARDS:

1991-1995 Editorial Board, *The Journal of Biological Chemistry*
 1994-1998 Editorial Board, *Journal of Cell Biology*
 1995-2005 Editor-in-Chief, *Developmental Biology*
 1992-2008 Editorial Board, *Circulation Research*
 1993-present Editorial Board, *Circulation*
 1993-present Editorial Board, *Molecular and Cellular Biology*
 1995-present Editorial Board, *Current Opinion in Cell Biology*
 2001-present Editorial Board, *Proceedings of the National Academy of Sciences*
 2004-2009 Board of Scientific Editors, *Science*
 2005-present Editorial Board, *Developmental Cell*
 2008-present Editorial Board, *EMBO Molecular Medicine*
 2009-present Editorial Board, *Journal of Cell Biology*
 2009-present Senior Associate Editor, *Circulation Research*
 2012-present Editorial Board, *Journal of Clinical Investigation*

TRAINEES:

Former Students:	Dates in Training:	Current Position:
Jing Shan Hu	1995-1989	Director, Licensing and External Research for Greater China, Merck
Diane Edmondson	1985-1989	Scientist, Tanox Inc
Li Li	1987-1994	Associate Professor, Wayne State University
Rob Burgess	1989-1995	Vice President, Stem Cell Sciences
Brenda Lilly	1989-1995	Associate Professor, Ohio State
James Martin	1989-1995	Professor, Baylor
Jumin Zhou	1989-1995	Professor, Wistar Institute, University of Pennsylvania
Keith Ligon	1991-1996	Fellow, UCSF
Jeff Staudinger	1991-1996	Associate Professor, University of Kansas
Qing Lin	1991-1997	Scientific Director, NIH
Doris Brown	1993-1999	Investigator, UCSF
Jianrong Lu	1995-2000	Associate Professor, University of Florida
Rene Valdez	1995-2001	Assistant Professor, M.D. Anderson Cancer Center
Ellen Lien	1996-2001	Assistant Professor, University of Southern California

David McFadden	1996-2002	Fellow, MIT
Priscilla Chang	1997-2001	Fellow, Harvard
Chun Li Zhang	1997-2003	Assistant Professor, UT Southwestern Medical Center
Chris Antos	1997-2003	Fellow, Max Planck-Institut
Tomasa Barrientos	1998-2004	Fellow, Duke University
Igor Rybkin	1999-2005	Fellow, University of Michigan
Chong Shin	1999-2003	Assistant Professor, Georgia Tech
Jiyeon Oh	2001-2006	Scientist
Zhigao Wang	2000-2004	Fellow, UT Southwestern
Hai Wu	2001-2003	Fellow, Stanford
Shurong Chang	2001-2006	Fellow, UCSF
Chris Li	2001-2006	Scientist, Genentech
Mike Arnold	2002-2006	Scientist, NIH
Matt Potthoff	2001-2006	Fellow, UT Southwestern
Peng Yi	2002-2007	Fellow, Harvard
Bryan Young	2003-2008	Fellow, Yale
Rusty Montgomery	2003-2008	Scientist, miRagen Therapeutics
Yuri Kim	2005-2009	Medical Student, Stanford
Mi-Sung Kim	2004-2009	Fellow, Harvard
Andrew Williams	2005-2010	Fellow, Columbia
Mayssa Mokalled	2006-2011	Fellow, Duke University
David Patrick	2007-2011	Medical Student, UT Southwestern
Dan Quiat	2008-2012	Medical Student, UT Southwestern

Former Postdocs:

Peter Cserjesi	1990-1994	Associate Professor, Tulane University
Joe Miano	1992-1995	Associate Professor/Associate Director CVRI, University of Rochester
John Schwarz	1991-1995	Associate Professor, Albany Medical College
Deepak Srivastava	1993-1995	Director, Gladstone Institute, UCSF
Tony Firulli	1993-1997	Associate Professor, Indiana University
Brian Black	1993-1998	Professor and Associate Director CVRI, UCSF
Jeff Molquentin	1993-1997	Professor, Cincinnati Children's Hospital
Alan Rawls	1994-1998	Vice-Provost, Arizona State University
Jeanne Rawls	1995-1998	Associate Professor, Arizona State University
Richard Cripps	1996-1998	Professor and Chair, Univ. of New Mexico
Frank Naya	1996-2001	Associate Professor, Boston University
Jeroen Charite	1997-1999	Investigator, Erasmus Medical Center
Hiromi Yanagisawa	1998-2003	Associate Professor, UT Southwestern
Zhi-Ping Liu	1998-2005	Assistant Professor, UT Southwestern
Tim McKinsey	1998-2002	Associate Professor, Univ. of Colorado School of Medicine
Osamu Nakagawa	1998-2005	Nara Medical University, Japan
Dazhi Wang	1998-2002	Associate Professor, Children's Hospital Boston
Elizabeth Chen	1998-2004	Associate Professor, Johns Hopkins School of Medicine
Robert Passier	1999-2001	Investigator, Netherlands Institute for Developmental Biology
Norbert Frey	1999-2002	Chief of Cardiology, Kiel University
Michael Czubryt	2000-2003	Associate Professor, University of Manitoba
Teg Pipes	2001-2007	Scientist, GlaxoSmithKline
Chris Davis	2001-2007	Scientist, Merck
Dillon Phan	2002-2005	Scientist, Gilead
Rick Vega	2002-2004	Lab Director, Sanford-Burnham Research Institute
Esther Creemers	2002-2006	Investigator, University of Amsterdam
Zhe Han	2002-2006	Assistant Professor, University of Michigan
Jens Fielitz	2003-2007	Investigator, Max-Delbruck Center, Berlin

Johannes Backs	2003-2007	Investigator, University of Heidelberg
Koichiro Kuwahara	2003-2006	Investigator, Kyoto University
Rene Galindo	2004-2006	Asst. Professor and Associate Dean, UT Southwestern Medical Center
Eva van Rooij	2004-2008	Director of Preclinical Research, miRagen Therapeutics
Nikhil Munshi	2006-2009	Assistant Professor, UT Southwestern Medical Center
Michael Haberland	2004-2009	Clinician, Germany
Shusheng Wang	2005-2009	Assistant Professor, UT Southwestern Medical Center
Viviana Moresi	2006-2011	Scientist, University of Rome
Eric Small	2005-2011	Assistant Professor, University of Rochester
Mark Hatley	2008-2011	Assistant Professor, St. Jude Childrens Research Hospital
Enzo Porrello	2008-2012	Assistant Professor, The University of Queensland
Robert Frost	2007-2012	Associate Medical Director, Bristol Myers Squibb
Aaron Johnson	2008-2012	Assistant Professor, University of Colorado, Denver