

Curriculum Vitae Prof. Dr. Stuart H. Orkin

Nationality: American
Office: Dana Farber Cancer Institute, 450 Brookline Ave., Boston, MA 02115
Lab: Boston Children's Hospital, 300 Longwood Avenue, Boston, MA 02115

Education

1967 BS Massachusetts Institute of Technology, Cambridge, MA
1972 MD Harvard Medical School, Boston, MA

Postdoctoral Training

Internship and Residency

1972–1973 Intern in Pediatrics, Children's Hospital Medical Center, Boston, MA
1975–1976 Resident in Pediatrics, Children's Hospital, Boston, MA

Clinical Fellowships

1972–1973 Clinical fellow in Pediatrics, Harvard Medical School, Boston, MA
1975–1976 Clinical fellow in Pediatrics, Harvard Medical School, Boston, MA
1976–1978 Fellow in Medicine (Hematology and Oncology), Children's Hospital Medical Center and the Dana Farber Cancer Institute, Boston, MA

Research Fellowships

1973–1975 Research Associate, Laboratory of Molecular Genetics, National Institute of Child Health and Human Development, NIH, Bethesda, MD
1976–1978 Research Fellow in Pediatrics, Harvard Medical School, Boston, MA

Licensure and Certification

1978 Massachusetts License
1978 American Board of Pediatrics

Academic Appointments

1978–1981 Assistant Professor of Pediatrics, Harvard Medical School
1981–1987 Associate Professor of Pediatrics, Harvard Medical School
1986– Investigator, Howard Hughes Medical Institute
1987–2003 Leland Fikes Professor of Pediatric Medicine, Harvard Medical School
1994– Associate Faculty Appointment in Genetics, The Graduate Program in Biological and Biomedical Sciences, Harvard Medical School
2000–2016 David G. Nathan Professor of Pediatrics, Harvard Medical School
2005– Principal Faculty Member, Harvard Stem Cell Institute (HSCI)

2009– Associate Member of the Broad Institute
2017– David G. Nathan Distinguished Professor, Harvard Medical School

Hospital Appointment

1978– Associate in Medicine (Hematology and Oncology), Children's Hospital Medical Center
1978– Associate Physician, Dana Farber Cancer Institute
2000–2016 Chairman, Department of Pediatric Oncology, Dana Farber Cancer Institute
2011–2016 Associate Chief, Division of Hematology/Oncology, Children's Hospital, Boston

Awards and Honors

1976–1978 Basil O'Connor Starter Research Award of the National Foundation- March of Dimes
1976–1979 NIH Young Investigator Award
1979–1984 NIH Research Career Development Award (NHLBI) 1984 AFCR Clinical Research Award
1986 Dameshek Award, American Society of Hematology
1987 Chairman, Gordon Conference on Molecular Genetics
1987 Mead Johnson Award, American Academy of Pediatrics
1988 Ben Abelson Visiting Professor, Department of Pediatrics, Washington University
1988 Karl Meyer Lectureship, University of California Medical Center
1988 Harvey Lecture
1988 Councilor, American Society of Hematology
1989–1990 President, American Society of Clinical Investigation
1989 Robert and Courtney Steel Visiting Professorship in Pediatrics at Memorial Sloan Kettering Cancer Center
1991– Elected member, National Academy of Sciences
1992– Elected member, Institute of Medicine (now, the National Academy of Medicine)
1992 The Stratton Lecture, 24th Congress of the International Society of Haematology
1992– Member, American Academy of Arts and Sciences
1993 24th Paul M. Aggeler Lecturer, University of San Francisco, San Francisco, CA
1993 Warren Alpert Foundation Prize, Harvard Medical School
1993 Elected member, American Academy of Arts and Sciences
1994 Carl V. Moore Lectureship, Washington University School of Medicine
1995 Helmut Horten Foundation Prize, (co-recipients: Sir David Weatherall, Y.W. Kan)
1996 Leukemia Research Fund, London, Annual Guest Lecture
1996 The Medical Foundation Award for Distinguished Contributions to Health Research
1998 Twelfth Annual Oscar Ratnoff Lecturer at Case Western Reserve University School of Medicine and the Division of Hematology/Oncology of University Hospitals of Cleveland
1998 E. Donnell Thomas Lecture and Prize of the American Society of Hematology

2002–	Associate (Foreign) Member, EMBO
2003	Frank Oski Award, American Society of Pediatric Hematology and Oncology (ASPHO)
2005	Distinguished Research Award of the Association of American Medical Colleges (AAMC)
2009	American Society of Hematology Mentor Award (basic science)
2011	Elected Fellow of the American Association for the Advancement of Science (AAAS)
2012	Donald Metcalf Lecture Award of the International Society of Experimental Hematology (ISEH)
2013	Jessie Stevenson Kovalenko Medal of the National Academy of Sciences (NAS)
2014	Weatherall Lecture (3rd Annual), IMM, Oxford, UK
2014	Blackfan Lecture (61st Annual), Boston Children's Hospital, Boston
2014	Mellon Lecture, University of Pittsburgh School of Medicine
2014	William A. Allan Award, American Society of Human Genetics
2014	Eva J. Neer Lecture, Harvard Medical School, MD/PhD retreat
2014	Wataru W. Sutow Lecture, MD Anderson Cancer Center
2014	Barton Childs Lecture, Johns Hopkins University School of Medicine
2015	Joseph W. St. Gene Jr Lectureship, University of Colorado School of Medicine
2015	Charles J. and Lois B. Epstein Visiting Professor, UCSF
2015	Lifetime Impact award, Boston Children's Hospital Global Pediatric Innovation Summit
2016	Karl Landsteiner Memorial Award (American Association of Blood Banks)
2017	Maclyn McCarty Memorial Lecture, Rockefeller University
2017	Clotten Foundation Prize

Major Committee Assignments

National and Regional

1987–1988	Member, National Research Council Committee on Mapping and Sequencing the Human Genome
1987–1991	Mammalian Genetics Study Section, NIH
1990–	The Research Faculty Council, Children's Hospital
1992	Member, External Advisory Review Committee on Gene Therapy, Department of Internal Medicine, The University of Michigan Medical Center
1992–1994	Awards Committee, E. Mead Johnson Award for Research in Pediatrics Chair
1992–1998	Chair, Awards and Review Committee, Children's Hospital
1993–1998	Scientific Advisor, Lindsey F. Kimball Research Institute of the New York Blood Center
1993–1999	External Advisory Committee for Research, The University of Texas, MD Anderson Cancer Center

- 1993 External Advisory Committee, Indiana University School of Medicine, Herman B. Wells Center for Pediatric Research
- 1995 Co-chair (with Arno Motulsky), Panel to Assess the NIH Investment in Research on Gene Therapy
- 1995–2000 Research Executive Committee, Children's Hospital
- 1996–2000 Vice Chair for Basic Research, Department of Medicine, Children's Hospital
- 1997–2000 Chair, GCRC Scientific Advisory Board, Children's Hospital
- 1997–2004 External Scientific Advisory Committee and Chairman, MGH Cancer Center
- 1997–1999 Chairperson, Hematology I Study Section, NIH
- 1997–1999 Sloan Selection Committee, General Motors Cancer Research Foundation
- 1998–2001 American Society of Hematology, Nominating Committee
- 1998–2000 Member, Panel on Scientific Boundaries for Review (NIH)
- 2000–2005 Board of Scientific Advisors and Chairman, Jackson Laboratories
- 2000–2001 Chair, Research Executive Committee, Children's Hospital
- 2000 Co-chair, Advisory Committee to the Director Working Group on NIH Oversight Committee on Clinical Gene Transfer Research
- 2000– Executive Committee for Research, Dana-Farber Cancer Institute
- 2000– CEO, Dana Farber-Children's Hospital Cancer Care
- 2005–2008 Co-chair, Grants Review Committee of the California Institute for Regenerative Medicine (CIRM)
- 2006–2007 Member, Human Embryonic Stem Cell Research Advisory Committee of the National Academies
- 2007–2008 Chair, Grants review committee for the Tri-Institutional Stem Cell Initiative, New York
- 2012 Member, IOM/NAS Committee to evaluate the California Institute for Regenerative Medicine, CIRM
- 2013, 2016 Chair, Grants review committee for the Tri-Institutional Stem Cell Initiative, New York
- 2013– Member, External Scientific Advisory Board, California Institute for Regenerative Medicine, CIRM

Medical School/University

- 1994–2000 The Graduate Program in Biological and Biomedical Sciences, Faculty Membership Committee
- 1997–2002 Harvard Medical School Department of Pediatric Executive Committee
- 1998–2000 Harvard University Faculty of Medicine and Harvard Medical Center Committee on Conflicts of Interest and Commitment
- 1999 Committee on Masters of Medical Sciences, Harvard Medical School
- 200–2006 Chair, The Graduate Program in Biological and Biomedical Sciences, Faculty Membership Committee

- 2005 Principal Faculty Member, Harvard Stem Cell Institute (HSCI)
2008–2009 Member, Dean’s Strategic Planning Steering Committee

Professional Societies

- 1979– American Society of Hematology
1980– Society for Pediatric Research
1982– American Society for Clinical Investigation
1983– American Society of Human Genetics
1989– Association of American Physicians

Editorial Boards

- 1983–1986 Blood
1983–1986 American Journal of Human Genetics
1987–1989 Genomics
1990–1991 New England Journal of Medicine
1992–1994 Annual Review of Genetics
1992–1998 Human Mutation
1994– Molecular Medicine
1994– Blood Cells, Molecules, and Diseases
1995– Developmental Biology
1995– Journal of Clinical Investigation
1995– Proceedings of the Association of American Physicians
1998– Encyclopedia of Molecular Medicine
2000–2009 Co-editor, Development and Disease Section of Development
2009–2013 Member, Board of Reviewing Editors, Science

Major Research Interests

1. Hematopoietic Development
2. Stem Cell Biology
3. Leukemia
4. Cancer

Principal Clinical and Hospital Service Responsibilities

- 1978– Attending physician, Division of Hematology Oncology, Children’s Hospital and Sidney Farber Cancer Institute
1980– Attending physician, Department of Medicine, Children’s Hospital