

Curriculum Vitae



Bruce Alberts in 2008. © Tom Kochel.
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EDUCATION AND POSITIONS HELD

1956- Undergraduate (A.B. 1960), Biochemical Sciences, summa
1960 cum laude.

Harvard College, Cambridge, Massachusetts

1960- Predoctoral Fellow in Biophysics (Ph.D. 1965), National

1965 Science Foundation,

Laboratory of Professor Paul Doty, Harvard University,

Cambridge, Massachusetts

1965- Postdoctoral Fellow, National Science Foundation,

1966 Laboratories of Professors A. Tissieres and R. Epstein,

Institut de Biologie Moleculaire, Geneva, Switzerland

1966- Assistant Professor, Department of Chemistry,

1971 Princeton University, Princeton, New Jersey

1971- Associate Professor, Department of Biochemical Sciences,

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- 1973 Princeton University, Princeton, New Jersey
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- 1973- Damon Pfeiffer Professor of Life Sciences, Department of
1976 Biochemical Sciences,
Princeton University (1973-74 Acting Chairman, 1974-75
Associate Chairman)
-
- 1976 On sabbatical leave from Princeton, Laboratory of
Professor Lewis Wolpert,
Middlesex Hospital Medical School, London, England;
January through August.
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- 1976- Professor and Vice Chairman, Department of Biochemistry
1981 and Biophysics,
University of California, San Francisco
-
- 1981- American Cancer Society Lifetime Research Professor,
1985 Department of Biochemistry and Biophysics,
University of California, San Francisco (1981-82 Acting
Chairman)
-
- 1985- Professor and Chairman, Department of Biochemistry and
1990 Biophysics,
University of California, San Francisco
-
- 1993- President, National Academy of Sciences, Washington,
2005 D.C.
-
- 2000- Co-chair, InterAcademy Council, Amsterdam
2009
-
- 2007- President, American Society for Cell Biology (2007),

2008 Past President, ASCB (2008)

2008- Editor-in-Chief, *Science* magazine

2013

2009- United States Science Envoy

2011

2013- Chancellor's Leadership Chair in Biochemistry and

Biophysics for Science and Education,

University of California, San Francisco

HONORS AND AWARDS

- Phi Beta Kappa, Harvard College (1960)
- Summa cum laude in Biochemical Sciences, Harvard College (1960)
- Eli Lilly Award in Biological Chemistry, American Chemical Society (1972)
- U.S. Steel Foundation Award in Molecular Biology, National Academy of Sciences (1975)
- Fellow, American Academy of Arts and Sciences (elected 1978)
- American Cancer Society Lifetime Research Professorship (awarded 1980)
- Member, National Academy of Sciences (elected 1981)
- Faculty Research Lecturer, University of California, San Francisco (1985)
- Fellow, American Association for the Advancement of Science (1987)
- Baxter Award for Distinguished Research in the Biomedical Sciences, Association of American Medical Colleges (1992)
- President-elect, American Society for Biochemistry and Molecular Biology (1992)
- Outstanding Volunteer Coordinator, California School Volunteer Partnership (1993)
- Associate Member, European Molecular Biology Organization (EMBO) (elected 1993)
- Sixth Annual Donald Ware Waddell Award (1993)
- Foreign Member, The Royal Society, London (elected 1993)
- Distinguished Service Award, National Association of Biology Teachers (NABT) (1994)
- University of California, San Francisco Medal (1994)
- Foreign Member, Academia Europaea (elected 1994)
- American Philosophical Society (elected 1994)
- Member, European Academy of Arts & Sciences (elected 1995)
- Honorary Fellow, California Academy of Sciences (elected 1995)
- Gairdner Foundation International Award (1995)
- Honorary Degree, Michigan State University (1996)
- Honorary Degree, University of Massachusetts (1996)
- Honorary Degree, Princeton University (1997)
- Outstanding Educator Award, Exploratorium in San Francisco (1997)
- Honorary Degree, Mount Sinai School of Medicine, City University of New York (1998)
- Honorary Degree, Emory University (1998)
- Honorary Degree, Columbia University (1998)
- Honorary Fellow, St. Edmund's College, Cambridge (elected 1999)
- Honorary Degree, Yale University (1999)

- Honorary Degree, State University of New York at Stony Brook (1999)
- Foreign Fellow, The National Academy of Sciences, India (elected 1999)
- Leadership in Education Award, The Keystone Center (2000)
- The Jawaharlal Nehru Birth Centenary Medal of the Indian National Science Academy (awarded 2000)
- The Ray Wu Society for Life Sciences Award (2001)
- Honorary Degree, Clark University (2001)
- Honorary Degree, University of Arizona (2001)
- Honorary Degree, Bates College (2001)
- Associate Fellow, Third World Academy of Sciences (elected 2002)
- Member, National Academy of Education (elected 2003)
- Foreign Member, Russian Academy of Sciences (elected 2003)
- Honorary Degree, Case Western Reserve University (2003)
- Foreign Fellow, Indian National Science Academy (elected 2004)
- Presidential Achievement Award 2004, Association of American Geographers
- Honorary Member, National Academy of Sciences-Republic of Korea (elected 2004 – reappointed in 2008 through 2012)
- Honorary Member, Mongolian Academy of Sciences (elected 2004)
- Honorary Degree, Cold Spring Harbor Laboratory, Watson School of Biological Sciences (2005)
- Honorary Degree, Tel Aviv University (2005)
- Viktor Hamburger Outstanding Educator Prize, American Society for Developmental Biology (2005)
- Distinguished Honoree of the National Academy of Engineering (2005)
- Commander of the Order of the British Empire (2005)
- Member, New York Academy of Sciences (elected 2006)
- Lawrence Hall of Science Award for Excellence in Science Education (2006)
- Honorary member, Romanian Academy (elected 2006)
- Honorary Degree, Rockefeller University (2006)
- Honorary Degree, Beloit College (2007)
- Honorary Degree, University of Toronto (2007)
- American Educational Research Association Public Service Award (2008)
- American Institute of Biological Sciences Education Award (2009)
- Vannevar Bush Award (2010)
- DiNA Award, Science Festival Bay Bio (2011)
- American Association for the Advancement of Science (AAAS) Hauge Abelson Prize (2014)
- Honorary Degree, Syracuse University (2014)
- U.S. National Medal of Science (2014)

CURRENT MEMBER OF EDITORIAL BOARDS

- Member, Editorial Board, ASCB journal, *Cell Biology Education-Life Sciences Education* (CBE-LSE) (2001-present)
- Honorary Member, Editorial Board, University of Chicago journal *Molecular and Cell Biology Reviews* (2007-present)
- Cell & Developmental Biology Member, Advisory Board, Princeton University Press *Science Essentials Series* (2007-present)
- Member, Advisory Board, Center for American Progress Science Publication, *Science Progress* (2007-present)

CURRENT MEMBER OF ADVISORY BOARDS (ALL NON-PROFIT INSTITUTIONS)

- Chair, Scientific Advisory Board, Scleroderma Research Foundation (1992-present).
- Member, Board of Directors, California Foundation for Molecular Biology (1994-present).
- Member, Advisory Board, Merck Institute for Science Education (1999-present).
- Member, External Advisory Committee, University of Texas Southwestern Medical Center's Endowed Scholars (1999-present)
- Program in Biomedical Research (1999-present).
- Member, Board of Directors, William J. Rutter Foundation (1999-present).

- Member, UCSF Administrative Advisory Board, Science & Health Education Partnership (SEP) (2005-present).
- UCSF-SFUSD Liaison, SF Mayor's Committee for the Mission Bay Science School (2005-present).
- Member, Board of Directors and Council, Science and Technology in Society Forum (2005-present).
- Member, Board of Trustees, Gordon and Betty Moore Foundation (2005-present).
- Member, Advisory Board, MIT OpenCourseWare (2005-present).
- President and Chairman, Board of Directors, Strategic Education Research Partnership (SERP) (2005-present).
- Member, Exploratorium Advisory Council (2005-present).
- Member, Board of Directors, California Council on Science and Technology (CCST) (2006-present).
- Member, Board of Directors, The Elsevier Foundation (2006-Present).
- Member, Advisory Board, Life Sciences Research Foundation (2006-present).
- Member, Advisory Board, Lawrence Berkeley National Lab (2006-present).
- Member, Jury, Purkwa Prize (2006-present).
- Member, Board of Directors, National Math and Science Initiative, Inc. (NMSI) (2007-present).
- Member, UC Global Health Initiative African Institutes of Science and Technology Tanzania Subcommittee (2007-present).
- Member, American Society for Biochemistry and Molecular Biology (ASBMB) President's Leadership Council Group (2007-present).
- Senior Advisory Committee, Planning for University of California School of Global Health (2007-present).
- Member, Advisory Committee, (LEAD) International (2007-present).
- Member, Advisory Board, Science Content, WestEd Proposal to Institute of Education Sciences Team (IES) (2007-present).
- Member, UCSF – California Academy of Sciences Task-Force (2007-present).
- Member, Carnegie-IAS Commission on Mathematics and Science Education; Co-chair of Building Teacher Capacity Working Group (2007-present).
- Member, Regional Executive Coordination Council K-12 Math and Science Education Resource Center (MSERC) (2007-present).
- Member, Advisory Committee for the AERA-NAED Assessment of Education Research Doctorate programs in U.S. Universities (2008-present).
- Board of Trustees, Bay Area Elementary Science Consortium (2008-present).
- Member, Marian Koshland Science Museum Advisory Board (2008–2013).
- Member, Board of Trustees, Bibliotheca Alexandrina (2008-2014).
- Member, UNESCO International STI Centre (2008-present).
- Member, Advisory Board, San Diego Science Festival (2008-present).
- Critical Advisor, Mobilizing STEM Education for a Sustainable Future Project, University of Wisconsin (2008-present).
- Supporter, National Center for Science Education (2008-present).
- Member, UCSF Medicine into Graduate Education Initiative Review Board (2009-present).
- Member, Advisory Board, Public Agenda (2009-present).
- Chair, Advisory Committee, Search for New Vice Provost, Education Partnerships, UC Office of the President (2009-present).
- Member, Advisory Committee, California Science and Technology Policy Fellowships (2009-present).
- Member, UCSF Committee for H. Boyer and G. Boyer Jr. Faculty Endowed Chair (2009-present).
- Member, Burroughs Wellcome Fund Board (2009-present).
- Member, Advisory Board, UCSF Internships for Career Exploration (ICE) (2009-present).
- Member, Board of Trustees, California Academy of Sciences (2009-present).
- Member, Inter-Academy Panel (IAP) General Assembly Biodiversity Conference Steering Committee. (2009-present).
- Member, Howard Hughes Medical Institute Science Education Advisory Board (2009-present).
- Member, NAS Committee on Women in the Academy (2009-present).
- Chair, American Society for Cell Biology (ASCB) Nominating Committee (2009-present).
- Member, Asian University for Woman's Support Foundation (AUW) International Council of Advisors (2009-present).
- Member, Biotechnology Institute Board of Directors (2010-present).
- Member, Scaling and Studying the Colorado Learning Assistant Model of teacher Education and Institutional Change Advisory Board (2010-present).
- Member, MiraiKan International Advisory Board (2010-present).

- Advisor, SERP Investing in Innovations (I3) Project (2010-present).
- Member, Science Initiative Group (SIG) of the Institute for Advanced Study (IAS) (2010- present).
- Member, GYA Global Young Academy Advisory Board (2010- present).
- Member, Interdisciplinary Quantitative Biology (IQ Biology) Advisory Board, University of Colorado, Boulder (2010-present).
- Member, International Advisory Board to Jorge Huete's program in Nicaragua (2010- present).
- Member, Academics/Education subcommittee of the Human Biology Initiative Task Force (2011-present).
- Member, Scientific Advisory Committee, Israel Science Foundation (ISF) I-CORE Project (2011- present).
- Member, Advisory Board, Global Young Academy (2011- present).
- Member, HHMI's Science Education Advisory Board (SEAB) (2011- 2015).
- Reviewer, NIH Director's New Innovator Awards (2011- present).
- Member, Foothill Science Learning Institute Advisory Board (2011 – present).
- Member, International Advisory Board, Faculty 1000 (2011- present).
- Member, Advisory Board, Central American Marine Genomic Biodiversity Archive and Reference Library (2011-present).
- Member, Board of Trustees, Bibliotheca Alexandrina (2012-2014).
- Member, Advisory Board, UC Santa Cruz Institute for Scientist and Engineer Educators Project: Transforming Undergraduate
- STEM Experiences Through the Next Generation of Scientist and Engineer Educators (2012- present).
- Member, Advisory Committee, Directorate for Education and Human Resources (NSF EHR) (2012-2015).
- Board Member, Advisory Board, California STEM Learning Network (CSLNET) (2012- present).
- Member, CA Science Expert Panel (SEP) for the Next Generation Science Standards (NGSS) (2013- present.)
- Member, Board of Trustees, The Future University, Sudan (2013- present).
- Chair, Advisory Board, *Cultures*, publication of ASM International (2013- present).
- Member, Board of Directors, [Rapid Science](#) (2013-present).
- Member, InterAcademy Panel (IAP) Science Education Program (SEP) International Advisory Board (2014-present).
- Member, Board of Directors, Biological Sciences Curriculum Study (BSCS) (2014 – present).
- Member, Muslim-Science.Com's Task Force on Teaching of Science in the Muslim World (2014-present).
- Member, Committee on Human Rights of the National Academy of Sciences, National Academy of Engineering, and Institute of Medicine (2015 – present).

PREVIOUS EXTRAMURAL APPOINTMENTS

- Member, Board of Directors, Genentech Foundation for Biomedical Sciences (1989-2009).
- Trustee, Cold Spring Harbor Laboratory (1972-1975).
- Advisory Panel for Human Cell Biology, National Science Foundation (1974-76).
- Member, Board of Scientific Counselors, National Institutes of Health, Division of Arthritis and Metabolic Diseases (1974-1978).
- Editorial Board, Journal of Biological Chemistry (1976-1982).
- Member, Board of Scientific Advisors, Jane Coffin Childs Memorial Fund for Medical Research (1978-1985).
- Member, Corporation Visiting Committee for the Department of Biology, Massachusetts Institute of Technology (1978-1998).
- Member, Advisory Council for the Departments of Biochemical Sciences and Molecular Biology, Princeton University (1979-1985).
- Chairman, Visiting Committee for the Department of Biochemistry and Molecular Biology, Harvard College (1983-1986).
- Member, Visiting Committee of the Department of Embryology, Carnegie Institution of Washington (1983-1989).
- Member, Molecular Cytology Study Section of the National Institutes of Health (1982-1986); Chairman (1984-1986).
- Editorial Board, Journal of Cell Biology (1984-1987).
- Associate Editor, Annual Reviews of Cell Biology (1984-1993).
- Councilor, American Society of Biochemistry & Molecular Biology (1984-1993).
- Member, Scientific Advisory Board, Markey Foundation (1984-1997).
- Chairman, National Research Council Committee on Mapping and Sequencing the Human Genome (1986-1988).

- Member, Advisory Board, Bethesda Research Laboratories, Life Technologies, Inc.
- Member, Program Advisory Committee for the NIH Human Genome Project (1988-1991).
- Member, Scientific Advisory Committee for the Marine Biological Laboratory at Woods Hole (1988-1992).
- Member, Scientific Advisory Board, Fred Hutchinson Cancer Research Center, Seattle (1988-1996).
- Chairman, Commission on Life Sciences of the National Research Council, National Academy of Sciences (1988-1993).
- Member, Advisory Board of the National Science Resources Center, National Academy of Sciences and Smithsonian Institution (1990-1993).
- Member, Editorial Advisory Board, BioEssays (1990-2001).
- Editorial Board, Seminars in Cell Biology, Saunders Scientific Publications (1990-1994).
- Essay Editor, Molecular Biology of the Cell (1991-1997).
- Member, National Committee on Science Education Standards and Assessment, National Academy of Sciences (NCSESA) (1992-1993).
- Member, Committee on National Education Support System for Teachers and Schools (NESSTS), National Academy of Sciences (1992-1993).
- Member, ex officio, The President's Committee on the National Medal of Science (1994-2005).
- Member, Council of Scientific Advisors, Marine Biological Laboratory (1996-2001).
- Member, Scientific Advisory Board, Restless Legs Syndrome Foundation (1996-2008).
- Co-chair, Science and Strategy Committee for the System Review Panel, Consultative Group on International Agricultural Research (CGIAR) (1997-1998).
- Member, Executive Committee, Funding First (a program of Lasker Trust) (1997-2005).
- Member, Board of Trustees, Donald Danforth Plant Science Center (1998-2008).
- Member, Ocean Research Advisory Panel, Department of the Navy (1998-2003).
- Chair, Center for Scientific Review Panel on Scientific Boundaries, National Institutes of Health (1998-2004).
- Member, ex officio, U.S. Department of Education National Commission on Mathematics and Science Teaching for the 21st Century ("Glenn Commission") (1999-2000).
- Member, Board of Directors, Teach for America (1999-2003).
- Member, Scientific Advisory Board, "The Green Room" television show (1999-2003).
- Member, NSTA Building a Presence for Science National Advisory Council (1999-2005).
- Member, Board of Trustees, Carnegie Corporation of New York (2000-2008).
- Member, Scientific Advisory Board, BioLab (2000-2001).
- Member, Advisory Committee, LEAD USA (2000-2005).
- Scientific Advisor, Sustainable Sciences Institute (2000-2005).
- Co-Chair, InterAcademy Council Advisory Institution in Amsterdam governed by the presidents of 15 science academies from around the world (2000-2009).
- Member, Board of Directors, Science Matters, Inc. (2001-2003).
- Member, National Council on Science and Technology Education, AAAS (2001-2004).
- Member, BEST National Leadership Council (2001-2004).
- Member, Advisory Board, DC ACTS program (2001-2005).
- Member, Harvard Board of Overseers (2001-2007).
- Member, Visiting Committee, Harvard Graduate School of Education (2001-2007).
- Member, Advisory Committee, Carnegie Initiative on the Doctorate, Carnegie Foundation for the Advancement of Teaching (2002-2006).
- Member, Mathematical Sciences Research Institute Education Advisory Committee (2003-2008).
- Co-Chair, NIH Blue Ribbon Panel on Conflict of Interest Policies, A Working Group of the Advisory Committee to the Director, National Institutes of Health (2004).
- Member, Advisory Committee, National Innovation Initiative, Council on Competitiveness (2004).
- Member, American Society for Biochemistry and Molecular Biology (ASBMB) Nominating Committee (2005-2008).
- Member, Advisory Board, Aquaya Institute (2005-2008).
- Member, Keck Graduate Institute Advisory Council (2005-2007).
- Member, UCSF Strategic Planning Committee (2005-2008).
- Member, Advisory Board for COSMOS, University of California (2005-2008).
- Member, Board of Directors, Dan David Prize (2005-2008).

- Chair, Strategy Committee on Molecules, Genes and Cells; The Wellcome Trust, London, UK (2005-2007).
- Member, Executive Committee, UC Science Mathematics Initiative Group (SMI) (2006 – 2008).
- Member, Advisory Board, NSF Change and Sustainability in Higher Education (CASHE) (2006).
- Chair, Science Service Blue Ribbon Commission (2006).
- Chair, UC Riverside Life Sciences Review (2006-2007).
- Member, National Academy of Sciences, Committee on Science and Creationism (2006-2007).
- Member, Human Frontier Science Program Review Committee (2006-2007).
- Member, Advisory Board, Stanford School of Medicine Career Center Assembly for Life Science Career Development (2006-2008).
- Member, Advisory Board, World Science Festival (2006-2008).
- Member, Internal Advisory Committee, UCSF Institute for Regeneration Medicine (2007-2008).
- Member, Research!America, Scientists and Public Engagement Task Force (2007-2008).
- Member, National Institutes of Health Advisory Committee to the Director Working Group on Peer Review (2007-2008).
- Member, National Science Teachers Association (NSTA) Blue Ribbon Panel (2007).
- Reviewer, NIH Director's New Innovator Awards (2007).
- Reviewer, NIH Director's Pioneer Awards (2007).
- Member, Harvard's Committee to Visit the Department of Molecular and Cellular Biology (2008).
- Chair, American Society for Cell Biology (ASCB) Nominating Committee (2009).
- Co-chair, Basic Science, UCSF Faculty Bridge Funding Committee (2007- 2009).
- Member, Advisory Board, Genome Biology (2010).
- Member, Executive Committee, and Director, Science and Innovation, UCSF Global Health Sciences (2005-2010).
- Member, CREF BOT Cyprus Board (2010).
- Member, Advisory Board, Lawrence Berkeley National Laboratory (LBNL) (2011).
- Member, The Cell: An Image Library Advisory Board (2011).
- Member, Editorial Board, Current Opinion in Cell Biology, Elsevier Science London. (1988-2011).
- Member, American Society for Cell Biology International Affairs Committee (IAC) (2006- 2011).
- Member, National Sciences Resources Center's (NSRC) National Advisory Board. (2009-2012).
- Reviewer, College Center for Scientific Review (CSR), NIH (2010- 2012).
- Member, Gordon Commission of the Future of Assessment in K – 12 (2011- 2012).
- Member, Teaching Advisory Committee, Intitution Research and Career Development Award (2012).
- Member, Selection Committee, Golden Goose Award (2012- 2015).

MEMBER OF PROFESSIONAL SOCIETIES

- American Society for Biochemistry and Molecular Biology
- American Society for Cell Biology
- American Society for Microbiology
- Genetics Society of America
- Sigma Xi
- American Association for Advancement of Science

TELEVISION

- [Charlie Rose Show \(April 7, 2008\) "Charlie Rose Science Series: The Imperative Science"](#)
- [Charlie Rose Show \(July 15, 2010\) "Creativity"](#)

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