ROBERT SAMUEL LANGER

Curriculum Vitae

DATE & PLACE OF BIRTH August 29, 1948, Albany, New York

EDUCATION

2012

2012

1974 Sc.D., Chemical Engineering, MIT

1970 B.S. (with distinction) Chemical Engineering, Cornell University

Perkin Medal (Chemical Heritage Foundation)

Terumo International Prize (Japan)

AWARDS				
2017	Memorial Sloan Kettering Medal for Outstanding Contributions to Biomedical Research			
2017	Honorary Degree, Gerstner Graduate School, Memorial Sloan Kettering Cancer Center			
2016	Honorary Degree, Karolinska Institutet, Sweden			
2016	Honorary Degree, Hong Kong University of Science and Technology, Hong Kong			
2016	Raymond and Beverly Sackler Award for Sustained National Leadership (Research!America)			
2016	Benjamin Franklin Medal in Life Science (Franklin Institute)			
2016	Irving Weinstein Foundation Distinguished Lecture Award (American Association for Cancer Research)			
2016	Honorary Degree, Carnegie Mellon University			
2016	European Inventor Award, Non-European Countries (European Patent Office)			
2015	Queen Elizabeth Prize for Engineering			
2015	Hoover Medal (American Society of Mechanical Engineers)			
2015	Scheele Award (Swedish Pharmaceutical Society)			
2015	Kazemi Award for Research Excellence in Biomedicine			
2015	Honorary Degree, University of Maryland			
2015	Honorary Degree, Hanyang University (South Korea)			
2015	Honorary Degree, University of New South Wales (Australia)			
2015	Cornell Entrepreneur of the Year			
2014	Kyoto Prize in Advanced Technology			
2014	Breakthrough Prize in Life Sciences			
2014	Biotechnology Heritage Award (Chemical Heritage Foundation)			
2014	Chemical Pioneer Award (American Institute of Chemists)			
2014	Honorary Degree, Drexel University			
2014	Honorary Degree, University of Western Ontario (Canada)			
2014	ETH Zurich Chemical Engineering Medal			
2014	Elected a Foreign Corresponding Member of the Austrian Academy of Sciences			
2014	Mack Memorial Award (Ohio State University)			
2013	Wolf Prize in Chemistry (Wolf Foundation)			
2013	United States National Medal of Technology and Innovation (for 2011)			
2013	RUSNANOPRIZE International Prize in Nanotechnology			
2013	Fellow, American Association for the Advancement of Science			
2013	Distinguished Investigator Award (American College of Clinical Pharmacology)			
2013	Honorary Fellow Award (American College of Clinical Pharmacology)			
2013	Honorary Degree, Boston University			
2013	Honorary Degree, Tel Aviv University			
2013	Honorary Degree, Ben Gurion University			
2013	Julio Palmaz Award for Innovation in Healthcare and the Biosciences (BioMed SA)			
2013	Industrial Research Institute Medal			
2013	IEEE Medal for Innovations in Healthcare Technology			
2013	Founders Award (Society of Biomaterials)			
2013	MDEA Lifetime Achievement Award			
2012	Scientist of the Year (R&D Magazine)			
2012	Elected to National Academy of Inventors (Charter Fellow)			
2012	Priestley Medal (American Chemical Society)			
2012	Parkin Madel (Chamical Haritage Foundation)			

2012 Wilhelm Exner Medal (Austria) 2012 Fellow, American Institute of Chemical Engineers 2012 Feodor Lynen Award (Nature Biotechnology) Economist Innovation Award for Bioscience 2011 2011 Warren Alpert Foundation Prize (Warren Alpert Foundation/Harvard Medical School) 2011 Walker Prize (Boston Museum of Science) Apple Award (American Spinal Injury Association/Shepherd Center/Thomas Land Publishers Inc.) 2011 2011 Honorary Degree, Bates College 2011 Frontier of Science Award (Society of Cosmetic Chemists) Fellow (American Chemical Society) 2011 2010 Elected International Fellow (Royal Academy of Engineering) Founders Award (National Academy of Engineering) 2010 Honorary Degree, Rensselaer Polytechnic Institute 2010 2010 Honorary Degree, Willamette University 2010 Robert Flectcher Award (Thayer School of Engineering, Dartmouth College) EMBS Academic Career Achievement Award (IEEE Engineering in Medicine and Biology Society) 2010 Elected to the Controlled Release Society College of Fellows 2010 Founding POLY Fellow (Division of Polymer Chemistry, American Chemical Society) 2010 2009 Honorary Degree, Harvard University 2009 University of California at San Francisco Medal Honorary Degree, Mount Sinai School of Medicine 2009 2009 Distinguished Chemist Award (New England Institute of Chemists) Biomedical Research Leaders Award (Massachusetts Society for Medical Research) 2009 2008 Millennium Technology Prize 2008 Max Planck Research Award 2008 Prince of Asturias Award for Technical and Scientific Research Elected Foreign Academic Member (Royal Academy of Pharmacy of Spain) 2008 Founders Award (American Institute for Chemical Engineers) 2008 Innovation in Health and Technology Award (Boston History and Innovation Collaborative) 2008 2008 Acta Biomaterialia Gold Medal (Acta Materialia) Named one of the 100 Top Chemical Engineers of the 20th Century (AIChE) 2008 2007 United States National Medal of Science (for 2006) Chemistry of Materials Award (American Chemical Society) 2007 Herman F. Mark Award (American Chemical Society, Polymer Chemistry Division) 2007 2007 Honorary Degree, Yale University Wenig Memorial Award for Outstanding Achievement in Drug Delivery 2007 First Prize of Scientific Award (BMW Group) 2007 2007 Elected to the Biotechnology Hall of Fame Elected to the National Inventors Hall of Fame 2006 2006 Honorary Degree, Northwestern University Honorary Degree/Commencement Address, Albany Medical College 2006 Bailey Award (American Institute of Chemical Engineers) 2006 2005 Von Hippel Award (Materials Research Society) Albany Medical Center Prize in Medicine and Biomedical Research 2005 2005 Dan David Prize (Materials Science) 2005 Honorary Degree, Uppsala University Honorary Degree/Commencement Address, Pennsylvania State University 2005 2005 Honorary Degree, University of Nottingham 2005 Lifetime Achievement Award (Society for *In Vitro* Biology) Rainer Hoffmann Product through Science Award (Controlled Release Society) 2005 2005 Technology Innovation and Development Award (Society of Biomaterials) Washington Award (Western Society of Engineers) 2005 Charles F. Kettering Prize (General Motors Cancer Research Foundation) 2004 2004 Nelson Taylor Award (Pennsylvania State University) 2003 Heinz Award for Technology, Economy and Employment

- Harvey Prize in Science and Technology and Human Health
 John Fritz Medal (American Association of Engineering Societies)
 Elected to the Academy of Achievement (Golden Plate Award)
 Honorary Degree, University of Liverpool, England
 Dickson Prize for Science (Carnegie Mellon University)
 Charles Stark Draper Award (National Academy of Engineering)
- Othmer Gold Medal (Chemical Heritage Foundation)
 Nagai Innovation Award (Controlled Release Society)
 Honorary Degree, Hebrew University of Jerusalem
 Herman Schwan Award (University of Pennsylvania)
 Harrison Howe Award (American Chemical Society)
- 2000 Honorary Degree, Catholic University of Louvain, Belgium
- 2000 Glaxo Wellcome International Achievement Award (Royal Pharmaceutical Society of Great Britain)
 2000 Millennial Pharmaceutical Scientist Award (Millennial World Congress of Pharmaceutical Sciences)
- 2000 First Pierre Galletti Award (American Institute of Medicine & Biological Engineering)
- 2000 Wallace Carothers Award (American Chemical Society, Delaware Section)
- American Chemical Society Award in Polymer Chemistry
 Esselen Award (American Chemical Society, Northeast Section)
- 1999 Ebert Prize (American Pharmaceutical Association)
 1999 G.N. Lewis Medal (University of California at Berkeley)
- 1998 Outstanding Pharmaceutical Paper Award (Controlled Release Society)
- Lemelson-MIT Prize for Invention and Innovation
 The Nagai Foundation Tokyo International Prize
 Killian Faculty Achievement Award (MIT)
- 1997 Wiley Medal (U.S. Food and Drug Administration)
- 1997 Honorary Degree, Technion Israel
- 1996 Canada Gairdner International Award (Canada Gairdner Foundation)
- 1996 Honorary Degree, Eidgenossische Technische Hochschule-ETH, Switzerland
- 1996 William Walker Award (American Institute of Chemical Engineers)
- Society of Plastics Engineers International Award
 Ebert Prize (American Pharmaceutical Association)
 Elected a Fellow of Biomaterials Science and Engineering
- Avis Distinguished Visiting Professor (University of Tennessee)
 International John W. Hyatt Service to Mankind Award (Society of Plastics Engineers)
- 1995 Ebert Prize (American Pharmaceutical Association)
- 1995 Elected a Fellow (American Association of Pharmaceutical Scientists)
- 1995 PEL Associates Award (PEL Associates, Groton, Connecticut)
- 1994 Elected to the American Academy of Arts and Sciences
- 1994 Elected a Fellow, Society of Biomaterials
- 1993 Distinguished Pharmac, Scientist Award (Highest Honor of the Amer, Assoc. of Pharm, Scient.)
- 1992 Elected to the National Academy of Sciences 1992 Elected to the National Academy of Engineering
- American Chemical Society Award for Applied Polymer Science (Phillips Award)
 Elected a Founding Fellow, American Institute of Medical and Biological Engineering
- Outstanding Pharmaceutical Paper Award (Controlled Release Society)
- 1992 Perlman Memorial Award (American Chemical Society, Biochemical Technology Division)
- 1991 Organon Teknika Award (European Society for Artificial Organs)
- 1991 Charles M.A. Stine Award in Materials Science and Eng. (American Institute of Chemical Engineers)
- 1990 Professional Progress Award (American Institute of Chemical Engineers)
- 1990 Clemson Award for Basic Research (Society for Biomaterials)
- 1990 Outstanding Pharmaceutical Paper Award (Controlled Release Society)
- 1989 Elected to the National Academy of Medicine
- 1989 Creative Polymer Chemistry Award (American Chemical Society, Polymer Division)
- Outstanding patent in Massachusetts and one of the twenty outstanding patents in the U.S. (Intellectual Property Owners, Inc.)

1989 Founders Award for Outstanding Research (Controlled Release Society) 1988 Elected to the Gordon Conference Research Council 1988 Elected Chairman, Gordon Conference on Drug Carriers in Biology and Medicine Food, Pharmaceutical and Bioengineering Award (American Institute of Chemical Engineers) 1986 1983 Outstanding Paper, Institute of Electrical and Electronic Engineering 1982 Paper Listed as One of the Outstanding Papers of the Year, CHEMTECH Recipient of the first Dorothy W. Poitras Chair, MIT 1982 1982 Outstanding Teacher Award, MIT Graduate Student Council **NAMED LECTURES** Stetson Lecturer (University of Vermont Larner College of Medicine) 2017 Deloitte Endowed Lecturer (Dana-Farber Cancer Institute) 2017 Henry Louis Smith Lecturer (Davidson College) 2017 2017 Alfred Stracher Memorial Lecturer (SUNY Downstate Medical Center) 2017 Bernal Distinguished Lecturer (University of Limerick) Commencement Address (Gerstner Graduate School, Memorial Sloan Kettering Cancer Center) 2017 Anderson Distinguished Lecturer (University of Virginia School of Medicine) 2017 Inaugural Distinguished Lecturer in Bioengineering (University of California - Berkeley) 2016 AACR-Irving Weinstein Foundation Award Distinguished Lecturer (American Association for Cancer Research) 2016 2016 Inaugural Frank and Grace Yin Distinguished Lecturer (Washington University) Hunt Lecturer (Wound Healing Society Foundation) 2016 Robert E. Gross Lecturer (American Pediatric Surgical Association 46th Annual Meeting) 2015 Ørsted Lecturer (University of Copenhagen) 2015 Eli Ruckenstein Lecturer (University at Buffalo, State University of New York) 2015 2015 Baker Symposium Lecturer (Cornell University) 2015 Lerner Lecturer (Cleveland Clinic) 2015 Barre Lecturer (University of Montreal) 2015 Amundson Lecturer (University of Houston) Irving Shain Lecturer (University of Wisconsin – Madison) 2015 2014 Lindahl Lecturer (Napa Pain Institute) Pittcon Lecturer/Analytical Seminar Series (University of Pittsburgh) 2014 2014 Novartis/Drug Discovery Institute Lecturer (University of California – San Diego) 2014 Commencement Address (University of Western Ontario) 2014 Commencement Address (Drexel University) 2014 Darsh Wasan Lecturer (Illinois Institute of Technology) 2014 52nd Robbins Lecture Series Lecturer (Pomona College) George S. Hammond Lecturer (Bates College) 2014 2014 Edward Mack, J. Memorial Award Lecturer (Ohio State University) 2013 Axalta Lecturer (University of Pennsylvania) Inaugural Thomas H. Chilton Lecturer (DuPont Central Research and Development) 2013 BC^2 Annual Lecturer (Wellesley College) 2013 Warren L. McCabe Lecturer (North Carolina State University) 2013 2013 Commencement Address (Boston University School of Engineering) 2013 Lucas Lecturer (Colorado School of Mines) 2013 Reed Izatt and James Christensen Lecturer (Brigham Young University) 2013 Prof. Dame Julia Polak Inaugural Lecturer (Imperial College) Gladstone Distinguished Lecturer (Gladstone Institutes/University of California-San Francisco) 2012 2012 Eliahu Caspi Memorial Lecturer (University of Massachusetts Medical School) 2012 Kavli Foundation Innovation in Chemistry Lecturer (American Chemical Society) 2011 Commencement Address (Johns Hopkins Business School) 2011 Commencement Address (University of California Berkeley School of Chemistry) Commencement Address (Bates College) 2011 Class Day Speech (EPFL, Switzerland) 2011 2011 Kroc Lectureship (Joslin Diabetes Center) 2011 Knight Lectureships (University of Akron)

Bullard Lectureship (Uniformed Services University) 2011 2011 Dean's Lecturer (University of Maryland) 2010 Herman S. Bloch Memorial Lecture (University of Chicago) Investiture Lecturer (Thayer School of Engineering, Dartmouth College) 2010 2010 Judah M. Folkman Lecturer (Children's Hospital, Boston) 2010 Allan S. Hoffman Lecturer (University of Washington) Storer Life Sciences Lecturer (University of California, Davis) 2010 2010 Dohlman Visiting Professorship Lecturer (Massachusetts Eye and Ear Institute) 2009 Cecil Brown Lecturer (American Chemical Society) Melvin L. Samuels Lecturer (University of Texas MD Anderson Cancer Center) 2009 2008 Isadore Rosenberg Lecturer (Metrowest Medical Center) Invitrogen Lecturer (University of California, San Diego) 2008 Rohm and Hass Lecturer (University of California Berkeley) 2008 2007 Findling Lecturer (Mayo Clinic) 2007 W.M. Keck Distinguished Lecturer (Lehigh University) Alexander Rich Lecturer (Massachusetts Institute of Technology) 2007 William Shucart Lecturer (Tufts University) 2007 Ford Lecturer (Case Western University) 2007 Commencement Address (Albany Medical College) 2006 Distinguished Lecturer (University of Pennsylvania School of Medicine) 2006 2006 Weiss Lecturer (Northeastern University) 2006 Commencement Address (Northwestern University) Hodgins Lectureship (McMaster University) 2005 John and Donna Hall Lectureship (Vanderbilt University) 2005 2005 Keewaunee Lecturer (Duke University) Gavel Clinical Research Lecturer (The Forsyth Institute) 2005 2005 Talamo Lecturer (Harvard Medical School) Commencement Address (Uppsala University) 2005 Commencement Address (Pennsylvania State University) 2005 2005 Commencement Address (University of Nottingham) Presidential Lecturer (University of Texas Health Science Center, San Antonio) 2004 2004 Pirkey Lectureship in Chemical Engineering (University of Texas, Austin) 2004 Evans Memorial Award Lectureship (Ohio State University) Benjamin Zweifach Distinguished Lecturer (City College of New York) 2004 2004 Nelson Leonard Lecturer (University of Illinois) 2004 Donald Katz Lecturer (University of Michigan) Founders Lecturer (University of Wisconsin) 2003 2003 Rohm and Hass Lecturer (Stanford University) 2003 Tripathy Endowed Memorial Lecture (University of Massachusetts, Lowell) Skinner Memorial Lecture (Northwestern University) 2003 2003 Maurice and Yetta Glicksman Lecturer (Brown University) FMC Lecturer (Princeton University) 2003 Seymour J. Kreshover Lecturer (National Institutes of Health) 2003 Whitaker Lecturer (American Society of Artificial Organs) 2003 Feigenbaum - Levine Lecturer (Beth Israel Hospital at Harvard Medical School) 2002 2002 Distinguished Lecturer (University of Louisville) Institute Lecturer (American Institute of Chemical Engineers) 2002 Ullyot Lecturer (Chemical Heritage Foundation) 2001 2001 Clapp Lecturer (Brown University) Julian Smith Lecturer (Cornell University) 2001 2001 Mason Lecturer (Stanford University) Distinguished Lecturer (Carnegie Mellon) 2001 Herman Beerman Lecturer (Society for Investigative Dermatology) 2000 2000 Millennial Lecturer (University of Liverpool) Bayer Lecturer (University of Pittsburgh) 2000

	2000	Bayer Stein Honorary Lecture (University of Massachusetts at Amherst)		
	2000	William G. Lowrie Lectureship (The Ohio State University)		
	2000	Frank T. Gucker Lecturer (Indiana University)		
	2000	First Patten Distinguished Lectureship (University of Colorado at Boulder)		
	1999	Beckman Lecturer (University of Illinois at Urbana)		
	1999	Reilly Lecturership (Notre Dame University)		
	1998	Wagner Lectureship (University of Michigan)		
	1998	Ewing Halsell Foundation Lectureship (University of Texas Health Center, San Antonio)		
	1998	Robert R. Linton Distinguished Lecture; New England Society for Vascular Surgery		
	1998	Marcus Memorial Lecturer (Washington University, St. Louis)		
	1998	Joseph Stokes, Jr. Lectureship (University of Pennsylvania)		
	1997	William J. Rashkind Memorial Lecture (American Heart Association)		
	1997	Rohm and Haas Lecturer in Materials Chemistry (University of North Carolina)		
	1996	The Berkeley Lecturer (University of California, Berkeley)		
	1995	Distinguished Medical Scientist Lecturer (Ohio State University)		
	1995	Lacy Lecturer (California Institute of Technology		
	1995	Ralph Peck Memorial Lecturer (Illinois Institute of Technology)		
	1994	Whitaker Distinguished Lecturer (Biomedical Engineering Society)		
	1994	Miles Lecturer (Cornell University)		
	1994	Feigenbaum Memorial Lecturer (Beth Israel Hospital, Harvard Medical School)		
	1993	Kurt Wohl Memorial Lecturer (University of Delaware)		
	1993	Priestley Lecturer (Penn State University)		
	1992	Kelly Distinguished Lecturer (Purdue University)		
	1992	Miles Distinguished Lecturer (University of Pittsburgh)		
	1991	Louis W. Busse Lecturer (University of Wisconsin)		
	1991	Sidney Riegelman Lecturer (University of California, San Francisco)		
	1991	Ashton-Cary Lecturer (Georgia Institute of Technology)		
	1991	Sandoz-Dorsey Lecturer (Ohio State University)		
	1989	Walter F. Enz Lecturer (University of Kansas)		
	1988	Robert Rushmer Lecturer (University of Washington, Seattle)		
	1988 1st Presidential Lecturer, Controlled Release Society (Basel, Switzerland)			
	1987	Biomedical Research Council Lecturer (University of Michigan)		
	1986	Elmer L. Linseth Lecturer (Case Western Reserve University)		
	1983	Merck, Sharpe and Dohme Lecturer (University of Puerto Rico)		
EMPLOYMENT				
	7/09-prese			
	2/05-6/09	Institute Professor, Massachusetts Institute of Technology		
	7/88-1/05	Kenneth J. Germeshausen Professor of Chemical and Biomedical Engineering, MIT Department of		
		Chemical Engineering; Whitaker College of Health Sciences, Technology, and Management;		
		and the Harvard-MIT Division of Health Sciences and Technology		
7/99-prese		nt Senior Lecturer on Surgery, Harvard University, Harvard Medical School		
7/85-6/88		Professor of Biochemical Engineering, MIT, Department of Applied Biological Sciences, Whitaker		
		College of Health Sciences, Technology, and Management, and the Harvard-MIT Division of Health		
		Sciences and Technology		
	7/81-6/85	Associate Professor of Biochemical Engineering, MIT, Department of Nutrition and Food Sciences and the		
		Whitaker College of Health Sciences Technology, and Management, and the Harvard-MIT Division of		
		Health Sciences and Technology		
	7/70 6/01	Assistant Duefasson of Nutritional Dischamistry, MIT, Department of Nutrition and Food Sciences		

Assistant Professor of Nutritional Biochemistry, MIT, Department of Nutrition and Food Sciences

Research Associate, Children's Hospital Medical Center, Harvard Med. School, Boston, MA

Chairman, Math and Science Departments, The Group School, Cambridge, MA

Assistant Professor of Nutritional Biochemistry, MIT (Visiting), Department of Nutrition & Food Sciences

PROFESSIONAL AND ACADEMIC ORGANIZATIONS

Research Assistant, MIT

7/78-6/81

7/77-6/78

9/72-8/73

7/74-present 9/72-6/74

Controlled Release Society (Elected President, 1991-1992) (Elected to Board of Governors, 1981-1985; Chairman, Regulatory Affairs Committee, 1985-1989).

Biomedical Engineering Society (Elected to the Board of Directors, 1991-1994)

American Institute of Chemical Engineers (Food, Pharmaceutical and Bioengineering Division)

American Chemical Society (Polymer Division)

American Society of Artificial Internal Organs (Program Committee 1984-1987; Membership Committee (1991-93)

International Society of Artificial Internal Organs

Scientific Advisory Board, Department of Chemical Engineering, Georgia Institute of Technology (1992-2000)

Society for Biomaterials (Elected a Fellow, 1994)

American Association of Pharmaceutical Scientists (Elected a Fellow, 1995)

American Institute of Medical and Biological Engineers (Elected Founding Fellow, 1992; Elected Chair, College of Fellows, 1995)

The Science Board, the United States Food and Drug Administration (FDA) (highest Advisory Board of the FDA), 1995-2002 (Chair from 1999 -- 2002)

Scientific Advisory Board, Schepens Eye Institute, Harvard Medical School (1995-1998)

Board of Scientific Counselors, National Institutes of Health Center for Research Resources (1996-2001)

Scientific Advisory Board, Division of Chemistry and Chemical Engineering, California Institute of Technology (1999-)

Scientific Advisory Board, Department of Chemical Engineering, Princeton University (1999-)

Board of Overseers, Othmer Research Institute, Brooklyn Polytechnic Institute (2001-)

Board of Directors, McGovern Institute, Massachusetts Institute of Technology (2001-)

Board of Directors, Whitehead Institute (2003-)

Chair, Killian Award Committee (2004)

World Economic Forum, Technology Pioneers Selection Committee (2010-)

COURSES TAUGHT

20.002U	(1977 - 1988)	Laboratory in Applied Biology
20.S35	(1979 - 1988)	Pharmacological Engineering
20.11G	(1979 - 1988)	Analytical Practices in Biochemistry
HST 110	(1979 - 1981)	Renal Pathophysiology
20.113	(1987 - 1988)	Problems in Biotechnology
10.02J	(1989 -)	Biotechnology and Engineering
10.361	(1989 -)	Integrated Chemical Engineering
10.13	(1989 - 1991)	Thermodynamics
10.984	(1990 -)	Biomedical Applications of Chemical Engineering
10.26	(1992 -)	Senior Chemical Engineering Project Laboratory

MIT ACTIVITIES

1972-73, 80-	Board of Trustees, MIT Community Service Fund
1972-74	Committee on Preprofessional Advising and Education, MIT
1972-74	Steering Committee, Urban Action, MIT
1977-85	Freshman Advisor
1978-	Undergraduate Advisor
1980-	Premedical Advisory Council, MIT
1977-80	Seminar Committee, Department of Applied Biological Sciences, MIT
1978-80	Asinari Committee, MIT
1979-88	Undergraduate Affairs Committee, Department of Applied Biological Sciences, MIT (Chairman,
	1981-1985)
1980-84	MIT-Wellesley Upward Bound Joint Steering Committee
1981-82, 84-85	Financial Aid Committee, Department of Applied Biological Sciences, MIT
1981-86	Admissions Committee, Harvard-MIT Division of Health Sciences and Technology
1983-87	Curriculum Committee, Dept. of Applied Biological Sciences (Chairman, 1985-1987)
1983-87	Radiation Committee, MIT
1983-97	Sea Grant Committee, MIT (Chairman, 1993-1997)
1985-87	Admissions Committee, Harvard MD-POD Program
1986-92	Admissions Committee, MIT Medical Engineering-Medical Physics Program

1986-	Harvard-MIT Joint Committee on Health Sciences and Technology
1988	Search Committee for Department Head, Department of Chemical Engineering
1988-1992	Admissions Committee, Department of Chemical Engineering
1989-1991	Undergraduate Committee, Department of Chemical Engineering
1991-1993	Seminar Chairman, Department of Chemical Engineering
1993-	Board of Advisors, MIT Industrial Summer Session Program
1994-1995	Selection Committee for Co-Director of Harvard-MIT HST Program
2000-	Harvard MIT Division of Health Sciences and Technology Advisory Council
2013-	Karl Taylor Compton Lecture Series Committee
EDITORIAL BO	
1983-2002	Biomaterials- Editor
1987-	Biomaterials, Artificial Cells, and Immobilization Technology (Associate Editor, 1991-)
1983-92	Selective Cancer Therapeutics (Cancer Drug Delivery)
1983	Methods of Enzymology-Drug Delivery Systems
1984-98	Journal of Controlled Release
1985-	Biomedical Polymers
1986-	Advanced Drug Delivery Systems
1987-	Drug Design and Delivery
1990-	Marine Biotechnology
1991-94	Chemistry of Materials
1991 -	Cell Transplantation
1991 -	Polymers for Advanced Technologies
1991 -	Drug Targeting and Delivery
1992-	International Journal of Drug Targeting
1992-	Journal of Bioactive and Compatible Polymers
1994-98	Cancer Biotherapy and Radiopharmaceuticals
1994-	Journal of Pharmaceutical Science
1995-	Tissue Engineering
1995-	Encyclopedia of Controlled Drug Delivery
1996-	Birkhauser: Synthetic Biodegradable Polymer Scaffolds
1996-98	Chemical and Engineering News
1997-99/2008	Proceedings of the National Academy of Sciences
1997-	Annual Reviews of Biomedical Engineering
1997-	Biomedical Microdevices
1998-	Diabetes Technology and Therapeutics
1999-	Journal of Polymer Science, Polymer Chemistry
1999-	Pharmaceutical Science
1999-	Regenerative Medicine
1999-	Methods of Tissue Engineering
1999-	Angewandte Chemie
2000-	European Journal of Pharmaceutical Sciences
2002-	Journal of Investigative Dermatology-Associate Editor
2004-	Mechanics and Chemistry of Biosystems
2006-	Journal of Biopharmaceutics and Biotechnology
2006-	Bioconjugate Chemistry
2006-	Biomacromolecules
2007-	Nano Letters
2008-	Molecular Therapy
2009-	Science Translational Medicine (Scientific Advisory Board)
2015-	Regenerative Therapy
2016-	Technology and Innovation, Journal of the National Academy of Inventors
2016-	Oncogene
2017-	Journal of Design and Science

Journal of Design and Science