

Barbara A. Zilinskas

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Education: B.A. in Biology, State College at Framingham, Massachusetts, 1969
M.S. in Botany, University of Illinois, Urbana, IL, 1970
Ph.D. in Biology, University of Illinois, Urbana, IL, 1975

Professional Experience:

Part-time Laboratory Technician, Department of Environmental Sciences, University of Massachusetts, 1968-1969
NASA Graduate Fellow, University of Illinois, 1969-1972
Research and Teaching Assistant, University of Illinois, 1972-1974
Smithsonian Institution Postdoctoral Fellow, Radiation Biology Laboratory, January - August, 1975
Assistant Professor, Department of Biochemistry and Microbiology, Cook College, Rutgers University, 1975-1980
Graduate Faculty, Full Member, 1976-present
Adjunct Professor, Southern Illinois University, Carbondale, IL 1980-1981
Associate Professor, Department of Biochemistry and Microbiology, Cook College, Rutgers University, 1980-1987
Visiting Scholar, Harvard Biological Laboratories, Harvard University, 1982-1983
Professor, Department of Biochemistry and Microbiology, Cook College, Rutgers University, 1987-1993
Professor, Department of Plant Science, Cook College, Rutgers University, 1993-2001
Professor, Department of Plant Biology and Pathology, Cook College, Rutgers University, 2001-present

Fellowships and Awards:

National Aeronautics and Space Administration Fellowship, 1969-1972
Robert Emerson Memorial Grant for Excellence in Teaching, 1974
Smithsonian Institution Postdoctoral Fellowship, 1975
First Cook College Annual Award for Sustained Academic Professional Excellence, 1990
NJAES Research Award for Active and Original Research, 1994

Warren Sussman Award for Excellence in Teaching, 1995
USDA National Award for Excellence in College and University Teaching in the Food
and Agricultural Sciences, 1996
Rutgers Award for Programmatic Excellence in Undergraduate Education, 1997
Cook College Leadership Award for Excellence in Teaching and Advising, 1999
Alpha Zeta Professor of the Year, 2002
Rutgers University's Scholar-Teacher Award, 2003

Honors:

B.A. Magna cum laude
Kappa Delta Pi (National Honor Society in Education)
American Men and Women of Science
Who's Who of American Women
Who's Who in Science and Engineering
Inclusion of my Research Program in the U. S. House of Representatives Appropriations
Hearings
Cited in BARD (U.S. - Israel Binational Agricultural Research and Development Fund) Twenty
Year External Review for "Outstanding BARD-supported work"
Elected Fellow of the American Association for the Advancement of the Sciences (AAAS),
Biological Division

Advisory Boards:

National Research Council Graduate Fellowship Evaluation Panel, 1984-1986
National Science Foundation Metabolic Biology (Cellular Biochemistry) Panel, 1986-1989
National Institutes of Health, Special Study Section, 1987
USDA National Research Initiative Competitive Grants Program, Photosynthesis/Respiration
Program Panel, 1992
Environmental Protection Agency, Exploratory Research in Biology Panel, 1994

Professional and Honorary Societies:

American Association for the Advancement of Science
American Society of Plant Biologists
Kappa Delta Pi, National Honor Society in Education
Sigma Xi, Scientific Research Society

External Grants:

American Chemical Society, Petroleum Research Fund Grant, 1977-1980 (\$9,000) (B. Zilinskas,
Principal Investigator)
USDA Competitive Grant, 1978-1980 (\$80,000) (Co-Principal Investigator, R. F. Troxler;
\$40,000 awarded to B. Zilinskas)

USDA Competitive Grant, 1980-1982 (\$55,000) (B. Zilinskas, Principal Investigator)

NSF Equipment Grant, 1980 (\$25,600) (R. Niedermann, Principal Investigator; B. Zilinskas and A. St. John, Co-Principal Investigators)

NSF Equipment Grant, 1981-1982 (\$40,000) (B. Zilinskas, Principal Investigator)

USDA Competitive Grant, 1982-1984 (\$100,000) (B. Zilinskas, Principal Investigator)

USDA Competitive Grant, 1985-87 (\$85,000) (B. Zilinskas, Principal Investigator)

USDA Competitive Grant, 1987-90 (\$160,000) (B. Zilinskas, Principal Investigator)

USDA Special Grant, 1987-89 (\$73,900) (B. Zilinskas and E. Brennan, Co-Principal Investigators)

USDA Special Grant, 1989-1992 (\$117,348) (B. Zilinskas and E. Brennan, Co-Principal Investigators)

NSF Grant, 1989-1994 (\$212,158) (B. Zilinskas, Principal Investigator)

NSF Research Experiences for Undergraduates Grant, 1990-91 (\$32,929) (P. Day and B. Zilinskas, Co-Principal Investigators)

USDA NRICGP Grant, 1991-1994 (\$170,000) (J. Macmillan and B. Zilinskas, Co-Principal Investigators)

USDA NRICGP Grant, 1992-1994 (\$120,000) (B. Zilinskas, Principal Investigator)

Rockefeller Foundation Grant, 1992-1993 (\$10,000) (B. Hillman, B. Zilinskas, P. Day and P. Smouse, Co-Principal Investigators)

NSF Grant, 1992-1993 (\$6,000) (B. Hillman, B. Zilinskas, P. Day and P. Smouse, Co-Principal Investigators)

NSF-IRL Grant, 1993-1995 (\$54,948 from NSF; \$54,948 University Match) (B. Zilinskas, Principal Investigator)

BARD Grant, 1993-1997 (\$263,000) (B. Zilinskas, Principal Investigator; D. Holland, Y. Eshdat, and G. Ben-Hayyim, Co-Principal Investigators)

EPA Grant, 1993-1998 (\$361,002) (B. Zilinskas, Principal Investigator)

NJ Department of Education, 1997-1999 (\$24,592 subcontract to Rutgers University from City of Paterson, NJ) (B. Zilinskas, Principal Investigator of subcontract)

USDA Higher Education Challenge Grant, 1998-2001 (\$75,671 matched by Cook College and Rutgers University) (B. Zilinskas, Principal Investigator; G. Zylstra and H. Pederson, Co-Principal Investigators)

High-Technology Workforce Excellence Grant, 2000-2003 (\$1,342,750 from the State of New Jersey) (G. Zylstra, Principal Investigator; B. Zilinskas, M. Haggblom, and C. Pray, Co-Principal Investigators)

NSF Equipment Grant, 2003-2004 (\$40,250) (N. Tumer, Principal Investigator; E. Lam, T. Leustek, G.J. Zylstra, J. Kukor, M. Lawton and B. Zilinskas, Co-Principal Investigators)

Scotts Co. and Monsanto Co., 2003-2006 (\$450,000) (B. Zilinskas, Principal Investigator; W. Meyer, Co-Principal Investigator)

Pennington Seed Co., 2004-2011 (\$536,506) (B. Zilinskas, Principal Investigator)

Dow AgroSciences Co., 2006-2010 (\$408,413) (B. Zilinskas, Principal Investigator)

U.S. Department of Education Fund for the Improvement of Postsecondary Education, 2006-2010 (\$200,000) (G. Zylstra, Principal Investigator; B. Zilinskas, M. Lawton, C. Pinto Braga and R. Sharp, Co-Principal Investigators)

N.J. Commission on Higher Education and Department of Labor, Innovation Partnership Institutes, 2007-2008 (\$150,000) (D. Finegold, Principal Investigator; B. Zilinskas, Co-Principal Investigator)
NSF S-STEM Grant, 2007-2012 (\$599,980) (B. Zilinskas, Principal Investigator; T. Casey, R.G. Duncan, D. Kobayashi, and G. Zylstra, Co-Principal Investigators)
NSF Science Master's Program, 2010-2013 (\$700,000) (D Silver, Principal Investigator; D. Finegold, H. Aydeeh, A. Gates and B. Zilinskas, Co-Principal Investigators)

Travel Grants:

NATO Advanced Study Institute in Photobiology, Italy, 1972 (NSF)
International Photobiology Congress, Italy, 1976 (NRC)
International Photosynthesis Congress, England, 1977 (NSF)
Twenty-Sixth International Plenary Meeting on Space Research, France, 1986 (COSPAR)

Internal Grants (B.A. Zilinskas, Principal Investigator, unless otherwise noted):

Biomedical Sciences Support Grant, 1975 (\$5,000); 1976 (\$4,700); 1978 (\$5,000); 1979 (\$2,500); 1980 (\$1,500)
Research Council Grant, 1977 (\$3,000); 1978 (\$750); 1978 (\$1,000); 1981 (\$1,500); 1982 (\$1,620); 1984 (\$3,000); 1986 (\$3,000); 1988 (\$2,500); 1992 (\$1,500)
Busch Grant, 1980 (\$7,000); 1981 (\$7,000); 1982 (\$4,000); 1984 (\$5,000); 1986 (\$5,000)
FASP Research Council Grant, 1982 (\$700)
Instructional Excellence Grant, 1986 (\$12,000)
Center for Interdisciplinary Studies in Turfgrass Science, 1992-1994 (\$154,109) Co-Principal Investigator with P. Day, L. Lee, C-K. Chin and G. Jelenkovic
Center for Turfgrass Science, 1996-1997 (\$24,282)
Center for Turfgrass Science, 1997-1998 (\$28,925)
Center for Turfgrass Science, 1998-1999 (\$73,912)
Reinvest in Rutgers University Initiative, 1998-1999 (\$38,622)
Center for Turfgrass Science, 1999-2000 (\$87,296)
Advisory Committee on Instructional Computing, 2000 (\$38,000) (G. Zylstra, Principal Investigator; B. Zilinskas one of several Co-Principal Investigators)
High Technology Workforce Excellence Grant, 2000-2003 (\$216, 650 in Institutional Support) (G. Zylstra, Principal Investigator; B. Zilinskas, M. Haggblom and C. Pray, Co-Principal Investigators)
Special Allocation to Advance Strategic Initiatives, 2000-2001 (\$41,457)
NJAES REG Initiative, Chemiluminescent Imaging in Molecular Biology, 2000-2001 (\$30,000) (W. Cohick, Principal Investigator; B. Zilinskas, one of several Co-Principal Investigators)
NJAES REG Initiative, Biotechnology Support Facility, 2001-2002 (\$180,000) (G. Zylstra, Principal Investigator; B. Zilinskas, one of several Co-Principal Investigators)
Center for Turfgrass Science, 2001-2002 (\$31,000)
Center for Turfgrass Science, 2002-2003 (\$45,582)
Reinvest in Rutgers Grant, 2002-2003 (\$25,000) (G. Zylstra, Principal Investigator; W. Cohick and B.A. Zilinskas, Co-Principal Investigators)

Center for Turfgrass Science, 2003-2004 (\$28,000)

Center for Turfgrass Science, 2008-2009 (\$20,000)

Courses Taught:

Advanced Studies in Biochemistry 16:115:606, 1975 (50%)

General Biology 01:119:101, 1975-85 (30-50%)

Plant Physiology Laboratory 11:780:382, 1976 (100%) (3 sections)

Photobiology 01:119:412, 1977-87 (50%)

Plant Physiology 16:131:501, 1979-89 (40%)

Methods in Plant Metabolism 16:131:521, 1980 (50%)

Honors Seminar 11:554:196, 1981 (100%)

Seminar in Biochemistry 16:115:614, 1985 (100%)

Plant Molecular Biology 11:126:413, 1985-2001 (50-100% and Course Coordinator)

Methods in Recombinant DNA Technology 11:126:427, 1988-2007 (50-100% and Course Coordinator, two sections/year); 2008-2009 (35% of the course, three sections/year)

Research in Biotechnology 11:126: 497, 498, 1988- present (Course Coordinator)

Seminar in Biotechnology 11:126:401, 1991-present (100%) (1-3 sections/year)

Plant Metabolism 16:765:520, 1993 (30%)

Plant Molecular Biology 16:765:513, 1994-2001 (30-50% of lectures and Course Coordinator)

Plant Physiology 16:765:502, 1998-2003 (10%)

Plant Biochemistry and Metabolism 16:765:520, 1999 (10%)

Biotechnology Scholars Seminar I 11:126:121, 2009-present (100%)

Biotechnology Scholars Seminar II 11:126:421, 2010-present (100%)

Bryne First-Year Seminar, 2012 (100%)

Careers in Biotechnology, 2013 (100%)

New Courses Developed:

Photobiology, 01:119:412

Methods in Plant Metabolism 11:131:521

Plant Molecular Biology, 11:780:413

Plant Molecular Biology, 16:765:513

Methods in Recombinant DNA Technology, 11:126:427

Research in Biotechnology, 11:126:497, 498

Seminar in Biotechnology, 11:126:401

Biotechnology Scholars Seminar I, 11:126:121

Biotechnology Scholars Seminar II, 11:126:421

Bryne First-Year Seminar, 11:090:101

Careers in Biotechnology. 11:126:421

Developed New Curriculum and Degree Programs:

B.S. in Biotechnology, approved by the N.J. Department of Higher Education, January, 1989,
Undergraduate Program Director, 1989-present

M.B.S. in Biotechnology and Genomics, approved by the Rutgers University Board of Governors and NJ Commission on Higher Education, December, 2009, Track Coordinator with Michael Lawton, 2010-present

Advising:

Undergraduate upperclass advisor to biology majors specializing in quantitative biology, 1976-1981; physiology, 1977-1981; genetics and cellular biology, 1983-1991

Undergraduate advisor to biotechnology majors, 1987-present

Undergraduate freshman advisor, 1978-1982 and 2002-2004

Research advisor to 12 George H. Cook Scholars and three Douglass College Scholars, 1976-present

Research advisor to 32 other Cook College undergraduates, 1976-present

Faculty sponsor to 39 Cooperative Education students, 1985-present

Biotechnology Undergraduate Program Director, 1989-present

Faculty advisor, Designer Genes, Rutgers University Biotechnology Club, 1993-2005

Faculty mentor, High school senior, High Technology High School, Monmouth County, 2007

Graduate major advisor and committee chairperson of 12 Ph.D. students and three M.S. students, 1975-2006

Advisor to an International Atomic Energy Agency research fellow, 1979-1980

Thesis committee member for 57 graduate students, including five students outside Rutgers University, 1975-present

Research advisor of five postdoctoral fellows and two research associates, 1989-2008

Research mentor of thirteen visiting scientists, 1981-present

Research mentor of three high school students, Monmouth County High Tech High School and Biotechnology High School, 2008-present

Theses under the Direction of B.A. Zilinskas:

Greenwald, L. S. Allophycocyanin B from *Nostoc* sp. phycobilisomes. M.S. Thesis, 1979

Kyde, M. M. The cyanobacterial heterocyst: its physiology and biochemistry. M.S. Thesis, 1981

Rusckowski, M. The phycobilisome attachment site on the thylakoid membrane of the cyanophyte, *Nostoc* sp. Ph.D. Thesis, 1981

Hays, E. Isolation and characterization of phycocyanin and allophycocyanin from *Aphanothece halophytica*, a halophilic blue-green alga. Ph.D. Thesis, 1981

Glick, R. E. Structure-function relationships in phycobilisomes and thylakoid membranes in red and blue-green algae. Ph.D. Thesis, 1983

Greenwald, L.S. Synthetic and degradative processes involving the phycobilisomes,

phycobiliproteins and linker polypeptides in *Anacystis nidulans* and *Nostoc* sp. Ph.D. Thesis, 1984

Kupatt, C. E. Two roles of thylakoid lipids in modifying the activity of herbicides, which inhibit photosystem II. Ph.D. Thesis, 1985

Philbrick, J. B. Cloning and mutational analysis of *psb 1*, the gene encoding the Photosystem II manganese-stabilizing protein, from the cyanobacterium *Synechocystis* 6803. Ph.D. Thesis, 1988

Scioli, J.R. Cloning and analysis of a cDNA encoding the chloroplastic copper-zinc superoxide dismutase. Ph.D. Thesis, 1988

Altomare, D.A. Copper/zinc- and manganese-superoxide dismutases in pea: molecular cloning of cDNAs and regulation of superoxide dismutase gene expression. Ph.D. Thesis, 1992

Mittler, R. Molecular characterization of pea cytosolic ascorbate peroxidase. Ph.D. Thesis, 1993

Mackle, M. The role of signal peptides in protein targeting in cyanobacteria. Ph.D. Thesis, 1994

Kuo, M.-C. Spatial and temporal pattern of ascorbate peroxidase and monodehydroascorbate reductase gene expression in pea. M.S. Thesis, 1996

Murthy, S. Molecular cloning and analysis of pea cytosolic monodehydroascorbate reductase. Ph.D. Thesis, 1996

Ajit, S. K. Responses of transgenic plants overexpressing antioxidant enzymes to ozone and pathogens. Ph.D. Thesis, 1999

Wang, X. Advances in turfgrass transformation. M.S. Thesis, 2001

Hong, M. Role of 16C monounsaturated fatty acids in *cis*-3-hexenal production and plant response to stress. Co-advisor with Dr. C.-K. Chin. Ph.D. Thesis, 2004

Zaleski, R. Characterization of yield, antioxidant and stomatal response in wheat grown in open-top chambers under variations in atmospheric ozone, carbon dioxide, and soil moisture. Co-advisor with Dr. K. Cooper. Ph.D. Thesis, 2006

Collaborations (Outside Rutgers University):

Dr. E. Gantt, Smithsonian Radiation Biology Laboratory, 1975-1976

Dr. R. F. Troxler, Biochemistry Department, Boston University School of Medicine, 1977-1980

Dr. R. R. Alfano, Physics Department, City College of New York 1979-1985

Dr. J. Grabowski, Institute of Environmental Engineering, Poznan, Poland, 1981-1982

Dr. L. Bogorad, Department of Cellular and Developmental Biology, Harvard University,

1982-1983

- Dr. K. Csatorday, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary, 1985-1986
- Dr. N. Geacintov, Chemistry Department, New York University, 1985-1992
- Dr. J. Breton, Biophysics Department, Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette, France, 1985-1991
- Dr. C. Dismukes, Chemistry Department, Princeton University, 1988-1992
- Dr. Ersa Galun, Department of Plant Genetics, The Weizmann Institute of Science, Rehovot, Israel, 1990-1996
- Dr. P. Dunsmuir, DNA Plant Technology, Oakland, CA, 1989-1991
- Dr. B. Diner, DuPont, Wilmington, DE 1990-1993
- Dr. Y. Eshdat, D. Holland and G. Ben-Hayyim, Volcani Institute, Bet Dagan, Israel, 1992-1998
- Dr. L. del Rio, Department of Plant Biochemistry, Estacion Experimental del Zaidin, CSIC, Granada, Spain, 1994-1997
- Dr. E. Pell, Department of Plant Pathology, Pennsylvania State University, 1994-2000
- Dr. F. Booker, A. Heagle and J. Miller, North Carolina State University and USDA-ARS, Raleigh, North Carolina, 1995-2004
- Dr. Kent Burkey, North Carolina State University and USDA-ARS, Raleigh, North Carolina, 1996-present
- Dr. C. Mulchi, University of Maryland, 1996-2006
- Dr. S. Jones-Held, King's College, 1998-2006
- Dr. R. Mittler, Iowa State University, 2001-2005
- Dr. N. Bernstein, The Volcani Center, Bet Dagan, Israel, 2005-2007

Professional Activity (In addition to papers presented at meetings and invited seminar presentations):

- Plant Physiology Regional Meeting, 1976, chaired session and assisted in programming of the meeting
- American Society of Plant Physiologists Annual Meeting, chaired session on photosynthesis, 1978
- American Society for Photobiology Annual Meeting, chaired session on phycobiliproteins and regulation, 1979
- American Society of Plant Physiologists, Northeastern Regional Group, Executive Committee member, 1981-1984
- American Society for Photobiology Annual Meeting, organized workshop on education in photobiology, 1983, 1984
- Cold Spring Harbor Symposium, Molecular Biology of the Photosynthetic Apparatus, chaired session on light harvesting systems in cyanobacteria, 1984
- American Society for Photobiology Finance Committee, 1981-1985;
Executive Council, 1982-1985; Education Committee, 1982-1985; Chairperson, 1983-1985;
Nominating Committee, 1984-1985; Constitution and Bylaws Committee, 1985-1986
- American Society for Photobiology Annual Meeting, chaired "Works In Progress", 1985
- Editorial Board, Photosynthesis Research, 1982-1989
- Reviewer for USDA, NSF, NIH, DOE, and several private foundations

Reviewer for numerous scientific journals including: Archives of Microbiology, Biochemistry, Biophysical Journal, Biochimica Biophysica Acta, FEBS Letters, Journal of Bacteriology, Journal of Biological Chemistry, Journal of Cell Biology, Journal of Luminescence, Molecular Microbiology, Molecular Plant-Microbe Interactions, Photosynthesis Research, Photochemistry and Photobiology, Plant Journal, Plant Molecular Biology, Plant Physiology, Plant Science, and Proceedings of the National Academy of Science

Project Leader, NEC-49 Cooperative Regional Project on Molecular and Cellular Genetics for the Improvement of Agricultural Productivity and Quality, 1984-1988

Associate Editor, Warren L. Butler Memorial Issue of Photosynthesis Research, 1985-1986

Consultant, International Biotechnologies Incorporated, 1986-1987

President-Elect, Sigma Xi, Rutgers University Chapter, 1987-1988

President, Sigma Xi, Rutgers University Chapter, 1988-1989

Site-Visit to Wellesley College, Biology Department Review, 1988

Site-Visit to Simmons College, Biology Department Review, 1989

Invited Speaker, USDA Workshop, Agricultural Biotechnology and the Public, 1988

Contributor, U.S. Congress Office of Technology Assessment, "New Developments in Biotechnology", 1988

Invited Speaker and Participant, U.S./Soviet Student Roundtable on Agricultural Biotechnology, 1989

Invited Speaker and Participant, National Leadership Institute for Teachers of Biology, 1990 and 1991

Invited Speaker, U.S.-Japan Binational Seminar, Honolulu, Hawaii, 1990

Project Leader, Northeast Regional Technical Committee, Characterization and Mechanisms of Plant Responses to Ozone in the Northeastern U.S., 1991-2002; Chair, 1993-1994

Session Chair, Third International Symposium on Gaseous Pollutants and Plant Metabolism, Blacksburg, VA, 1992

Invited Speaker and Session Chair, Third International Symposium on Plant Peroxidases, Elsinore, Denmark, 1993

Invited Keynote Speaker, Sixth International Conference on Superoxide and Superoxide Dismutase, Kyoto, Japan, 1993

Visiting Professor (one week), University of Puerto Rico, Rio Piedras, 1994

Invited Speaker, Biotechnology Conference, Center for Talented Youth, New Brunswick, 1995

Advisory Committee to Paterson Public School District, 1998-1999

Invited Keynote Symposium Speaker, Sixteenth International Botanical Congress, St. Louis, MO 1999

Coordinator of Talented Youth Conference, Discovering Biotechnology, Rutgers Univ., 1999

Invited Speaker, Johns Hopkins University Center for Talented Youth, College Colloquium, College of New Jersey, 2000

Chemical Technology Advisory Committee, Burlington County College, 2000-present

Project Leader, NE-1013, Mechanisms of Plant Response to Ozone in the Northeastern U.S., 2002-2008

Monmouth County's Biotechnology High School, Various Committees, 2005-present

Site-Visit, State University of New York, Buffalo, Comprehensive Review of Biotechnology Undergraduate and Graduate Programs and Department of Biotechnology, 2007

Project Co-Director, Life Sciences Innovation Partnership Institute, 2007-2008
Search Committee for Executive Director of Bio-1 WIRED Project, 2007
Executive Steering Committee, Life Sciences Innovative Partnership Institute, 2007-2008

Governance Board, Bio-1 Workforce Innovation in Regional Economic Development (WIRED),
2007-2010

Executive Steering Committee, Bio-1 WIRED Project, 2007-2010

Co-Leader, Bio-1's Strategy and Implementation Team, Transform Graduate Education, 2007-10
Member, Bio-1's Strategy and Implementation Team, Excite Young People about the
BioSciences, 2007-2010

Advisory Board Member, N.J. Biotechnology Educators Consortium, 2008-2010

Representative, Biology Interest Group, WIRED BioScience Institute, Winston-Salem, NC, 2008

NJ Project Leader, CSREES Multistate Project 1030, Characterization and Mechanisms of Plant
Responses to Ozone in the U.S., 2008-present

Organization and Implementation Committee, NJ Bioscience Forum, 2009-2010

University Committees:

Chairperson, Educational Development Committee, 1976-1977

Chairperson, Plant Physiology Search Committee, 1977

Participant of six additional Search Committees, 1976-1984

Cultural Affairs Committee, 1976-1978

Committee for preparation of the Biology Report for Cook College, 1976-1977

Executive Committee, Plant Physiology Graduate Program, 1977-1980

Ad Hoc Committee for a research facility for promoting plant science research, 1977

George H. Cook Scholar Committee, 1979-1982; Chairperson, 1981-1982

Committee for merger of the Plant Physiology and Botany Graduate Programs, 1979-1980

Designed new research laboratory in Lipman Hall and major participant in plans for new
teaching laboratories in the Plant Physiology Building, Cook College

General Honors Committee (Cook College), 1980-1982

Curriculum Committee (Biology) of the Graduate School, 1980-1982

Faculty Representative to the Cook College Council, 1980-1981

Admissions Committee, Botany and Plant Physiology Graduate Program, 1980-1981 and
1983-1988

Curriculum Committee, Botany and Plant Physiology Graduate Program, 1981-1982

Marshall, University Commencement, 1982-1996

Instructional Development Survey Committee, 1983-1987

Planning Committee for "Institute for Biotechnology" 1983-1984

Chairperson, Plant Molecular Biology Search Committee, 1984-1985

Industrial - NJAES Plant Science Seminar Committee, 1984-1987

Planning Committee for Biotechnology Curriculum, 1983-1989

Search Committee for Dean/Director of Cook College/NJAES, 1984

Center for Agricultural and Environmental Technology New Building Committee, 1985

Committee on Cellular and Molecular Studies in the Life Sciences, 1985

Committee on Rules of Procedure of the Graduate School, 1985-1988

University Research Council, 1985-1988
 Advisory Committee to Graduate School Dean Stimpson on Graduate Studies in Cellular and Molecular Biology, 1986
 Fellow of Douglass College, 1986-present
 Ad Hoc Committee on Cooperative Education Program, 1987-1988
 Ad Hoc Committee on Evaluation of Teaching Effectiveness, 1987-1989
 Ad Hoc Committee on Sciences at Douglass College, 1987-1989
 CAART Committee, Faculty Liaison, 1987-1988
 Appointments and Promotions Committee, 1987-1989
 Admissions and Scholastic Standing Committee, 1987-1993
 Planning Committee on Biotechnology Outreach Program, 1987-1988
 Curriculum Coordinator, Biotechnology Curriculum, 1989-present
 Executive Council of the AAUP, Rutgers University Chapter, 1987-1989
 AAUP Bylaws Committee, 1988
 Academic Standards Committee, Biochemistry Graduate Program, 1987-1990
 Search Committee for a Plant Virologist, 1987-1988
 Search Committee for Chair of Horticulture and Crop Science Department, 1988-1992
 Search Committees (five) for Faculty in Center for Agricultural Molecular Biology, 1988-1992
 Grants Workshop Mentor Program, 1988-1989
 Executive Committee, Biotechnology Thrust Area, 1988-1989
 Search Committee for Plant Biologist, Newark Campus, 1983-1984 and 1989-1990
 Affirmative Action and Equal Opportunities Committee, 1989-present; Chair 1989-90; Vice-Chair 1990-1991
 Curriculum Committee, Microbiology Graduate Program, 1989-1994
 Curriculum Committee, Biochemistry Graduate Program, 1990-1994
 George H. Cook Honors Committee, 1990-1997
 Nominations Committee, Plant Biology Graduate Program, 1990-1992
 Admissions Committee, Plant Biology Graduate Program, 1990-present
 Rutgers University Catholic Center Community Council, 1990-1991
 President's Inauguration Committee, 1990-1991
 University Radiation-Safety Committee, 1991-present; Chair, 1995-2006
 Organizing Committee, Symposium on Molecular Biology of Plant-Microbe Interactions, 1990-1993
 Douglass College Science Advisory Board, 1991-present
 Appointments and Promotions Committee, 1990-1992
 Search Committee for Dean of Academic and Student Affairs, 1991
 Ad Hoc Committee on Biochemistry, 1992
 Executive Council of the Graduate School, 1992-1995
 Search Committee for Dean of Research, Cook College, and Director of Research, NJAES, 1992-1993
 Mabel Smith Douglass Honors Committee, 1992-1994
 Strategic Planning Steering Committee, New Brunswick, 1992-1994
 Biotechnology Club Faculty Advisor, 1992-2005
 Cook College Junior/Senior Colloquium Implementation Committee, 1994-1995
 Search Committee for Associate Dean of Research/Associate Director of Research,

NJAES, 1994
 Cook College Tuition Differential Committee, 1994-2000; Chair 1999-2000
 Biological Sciences Self Study Committee, 1994-1995
 Research Award Committee, Cook College, 1995
 Search Committee for Dean of Douglass College, 1995
 Strategic Planning Implementation Committee for the Life Sciences and Agriculture, 1995-1996
 Foran Hall Phase II Planning and Implementation Committee, 1995-2001
 Search Committee for Food Microbiologist, 1996
 Faculty Council, 1997-2000
 Plant Science Cluster Council, 1997-2001
 Search Committee for Assistant Professor of Host-Pathogen Physiology/Plant Molecular Biology, 1997-1998
 Advisory Board for the Douglass Project, 1998-present
 Search Committee for Assistant Professor of Microbial Physiology, 1998
 Selection Committee for the 1998 Rutgers Award for Programmatic Excellence in Undergraduate Education, 1998
 Selection Committee for the Warren I. Susman Excellence in Teaching Awards, 1998-2001
 Search Committee for Microbiol Ecologist, 1998-1999
 Faculty Honorary Degrees Committee, 1998-2001
 USDA-CARR Committee, 1999-present
 Search Committee for Professor of New Use Agriculture, 1999-2000
 Search Committee for Food Biology Faculty Position, 1999-2000
 Search Committee for Executive Dean of Cook College, 2000-2002
 Faculty Representative to the Cook College Council, 2001-2002
 Cook College Genomics Initiative Planning Committee, 2001-present
 Ad Hoc Committee of Cook College Curriculum Review, 2002-present
 Cook College Faculty Financial Aid Committee, 2002-present (Chair, 2005-2006 & 2009-2010)
 Advisory Committee for the Department of Plant Biology & Pathology, 2002-present
 Ad Hoc Plant Biology Teaching Program Improvement Committee, Chair, 2002-present
 Ad Hoc Plant Biology Graduate Program Recruitment Committee, Chair, 2003-present
 Search Committee for Vice President of Student Affairs, 2003-2004
 Cook College Committee on Affirmative Action, 2004-present
 Discovery Day, Rutgers University Admissions, 2004-present
 George H. Cook Scholars Committee, 2004-2006
 Admissions Committee of the Plant Biology Graduate Program, Chair, 2005-2006
 Search Committee for the Director of the Douglass Project for Women in Science, Math and Engineering, 2005-2006
 Cook College Differential Tuition and Special Projects Advisory Committee, 2005-2008
 Search Committee for the Director of the Douglass Project for Women in Science, Math and Engineering, 2005-2006
 Cook College General Honors Committee, 2006-2009
 Curriculum and Educational Policy Committee, 2008-present
 Ad Hoc Committee to Restructure Cooperative Education Committee, 2009
 Curriculum and Educational Policy Committee, 2009-present
 Ad Hoc Committee on Honors Programs at the SEBS, 2012-2013

Publications:

- Braun, B. Zilinskas and Govindjee 1972 Antibodies against an intermediate on the water-oxidizing side of PS II. FEBS Lett. 25:143-146
- Mohanty, P., B. Zilinskas Braun, Govindjee and J. P. Thornber 1972 Chlorophyll fluorescence characteristics of system I chlorophyll *a* protein complex and system II particles at room and liquid nitrogen temperature. Plant and Cell Physiol. 13:81-91
- Mohanty, P., B. Zilinskas Braun and Govindjee 1973 Light-induced slow changes in chlorophyll *a* fluorescence in isolated chloroplasts: Effects of magnesium and phenazine methosulfate. Biochim. Biophys. Acta 292:459-472
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U.S. Patent Number 7,057,090 B1 (June 6, 2006)

Agrobacterium-mediated Transformation of Turfgrass

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European Patent Number EP1 100 876 B1 (March 4, 2009)

Agrobacterium-mediated Transformation of Turfgrass

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Prevention of Transgene Escape in Genetically Modified Perennials

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Patent Pending:

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Development of Controlled Total Vegetative Growth for Prevention of Transgene Escape from Genetically Modified Plants and for Enhancing Biomass Production

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