

Dr. Reginald Halaby

Professor of Biology and Molecular Biology
Department of Biology and Molecular Biology
Montclair State University
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EDUCATION

Postdoctoral Fellow, Cancer Research
Adirondack Biomedical Research Institute, Lake Placid, NY

Ph.D. Biology The City University of New York (CUNY)
New York, NY

M.Phil. Biology CUNY
New York, NY

Medical Student Boston University School of Medicine
Boston, MA

B.A. Biology Boston University
Boston, MA

PROFESSIONAL EXPERIENCE

Assistant Professor of Biology, Montclair State University (MSU), Montclair, NJ (1998-2003)
Biology Instructor, Upward Bound Program, Montclair State University, Montclair, NJ (2000-2004)
Associate Professor of Biology, Montclair State University, Montclair, NJ (2003-2009)
Professor of Biology, Montclair State University, Montclair, NJ (2009-Present)
Doctoral Faculty Member, Montclair State University, Montclair, NJ (2009-2011)
Institute Fellow, Margaret and Herman Sokol Institute for Pharmaceutical Life Sciences, College of Science and Mathematics (CSAM), Montclair State University, Montclair, NJ (2009-2011)

HONORS AND AWARDS

Alpha Epsilon Delta, Pre-Medical Honor Society, Boston University
B.A. *cum laude*
Modular Medical Integrated Curriculum (Early Acceptance Program)
Boston University School of Medicine
Armed Forces Health Profession Scholarship, United States Navy
Minority Access to Graduate Networking President's Fellowship, CUNY
Sigma Xi Research Society Certificate of Recognition, Queens College of CUNY
NIH Minority Graduate Research Student Supplement
President's Dissertation Fellowship, CUNY
National Cancer Institute's Comprehensive Minority Biomedical Program
Postdoctoral Training Supplement
American Association for Cancer Research Minority Scholar in Cancer Research Award
FASEB/MARC Fellowship to Attend Write Winning Grants Seminar
Certificate of Appreciation for External Funding, CSAM, MSU
Judge for Poster and Oral Presentations at 2010 Annual Biomedical Research Conference for Minority Students
American Medical Association Physician's Recognition Award
Completed Empowering Online Teaching and Learning Course

TEACHING EXPERIENCE

Undergraduate Biology Major Courses

BIOL 112 – Principles of Biology I	Spring 2007, 2011, 2013; Fall 2011; Summer 2012
BIOL 199 - Freshman Seminar in Biology	Spring 2001, Fall 2002, Fall 2009, Fall 2010
BIOL 230 - Cell and Molecular Biology	Fall 1998 – Fall 2007; Fall 2008, 2009; Summer 2006, 2010, 2011, 2014, Fall 2012, Spring 2014, Fall 2014
BIOL 409 - Externship in Biological Research	Fall 2003, 2006, 2007, 2008; 2009; Spring 2003, 2006, 2007, 2008, 2009, 2010 Summer 2004, 2007, 2008
BIOL 418 - Biology Independent Research	Spring 1999 – Spring 2006; Summer 2006; Spring 2007; Fall 2009; Spring 2010
BIOL 433 – Developmental Biology	Fall 2004; Summer 2009; Summer 2010, Fall 2010
BIOL 443 - Vertebrate Embryology	Fall 1998, 2006; Spring 2000, 2002; Fall 2009; Summer 2009, 2010
BIOL 443 – Vertebrate Embryology	Offered as an Online Course Fall 2013 (First online undergraduate course with a laboratory component offered in our department), Fall 2014
BIOL 444 - Cell Physiology	Spring 1999, 2001, 2003, 2006
BIOL 476 - Biology of Cancer	Fall 2002, 2008; Spring 2004; Summer 2005, 2006, 2008
BIOL 476 – Biology of Cancer	Offered as an Online Course Summer 2012-2014; Winter 2012-2015
BIOL 482 - Research Community I: Mol Biol	Spring 2006
BIOL 491 - Research in Biology Literature	Fall 1999, 2000, 2002, 2003, 2004, 2005; Spring 2000, 2001, 2003, 2005 -

Graduate Biology Courses

BIOL 533 - Advanced Cell Biology	Fall 2000, 2005
BIOL 533 – Advanced Cell Biology	Offered as an Online Course Fall 2013 (First graduate online course offered in our department)
BIOL 549 - Topics in Developmental Biology	Fall 1999, 2001
BIOL 597 - Research in Biological Literature	Spring 2000, 2002, 2005, 2006; Fall 2001, 2003, 2004, 2005, 2006, 2007, 2008
BIOL 599 - Introduction to Biological Research	Spring 2000, 2001, 2002, 2005, 2006; Fall 2000, 2003, 2004, 2005, 2006, 2007
BIOL 698 - Thesis Research in Biology	Spring 2002 - Spring 2003; Spring 2007 – Spring 2010

Non-Major Courses

BIOL 100 - Biological Sciences	Summer 1999, 2000, 2001
BIOL 107 – Biology for Survival	Summer 2008
BIOL 110 - Biology of Human Life	Summer 2002, 2003, 2004, 2005
BIOL 240 – Mammalian Anatomy & Physiology I	Summer 2004, 2005, 2006
BIOL 241 – Mammalian Anatomy & Physiology II	Summer 2004, 2005, 2006
BIOL 243 – Human Anatomy & Physiology	Summer 2012-2014

STUDENT RESEARCH

M.S. Theses Supervised

Andrea Moreno-Boyle, M.S.	The Activation of Lysosomes Causes Tumor Regression	May 2003
Jacklyn Pych, M.S.	Detection of Apoptosis Triggered by the Activation of Lysosomal Hydrolases in Mammary Tumors	May 2003
Evelyn Leon, M.S.	Bioactive Sphingolipids Mediate Apoptosis and Senescence in Human Pancreatic Cells	December 2008
Michael Messina, M.S.	Effects of Triptolide on Cancer Cells	May 2010

Refereed Publications

(Student co-authors are indicated in bold)

- 1) Halaby, R. 2014. Triptolide: novel anticancer agent for chemoresistant cancer cells that are caspase-3 deficient. *Journal of Molecular Biology and Molecular Imaging* 1(3):8.
- 2) Owa, C., **Messina, M.E.**, Halaby, R. 2013. Triptolide induces lysosomal-mediated programmed cell death in MCF-7 breast cancer cells. *International Journal of Women's Health* 5: 557-569.
- 3) Halaby, R. 2012. Does apoptosis regulate the function of retinal photoreceptors? *Medical Hypothesis, Discovery and Innovation Ophthalmology Journal* 1:21-23.
- 4) **Messina M.E.**, Halaby, R. 2011. Does triptolide induce lysosomal-mediated apoptosis in human breast cancer cells? *Medical Hypotheses* 77:91-93.
- 5) Halaby, R. 2008. The effect of triptolide on MCF-7 xenografts. *Acta Pharmacologica Sinica* 29:143-146.
- 6) Halaby, R., **Pamiloza, K., Mahabier, D.S., Javeed, I., Hasani, M., Delgado, K.C., Guevara, E.** 2007. Influence of triptolide on breast cancer apoptosis. *Cancer Science* 98:1643-1645.
- 7) Halaby, R., **Beckford, T.** 2005. Patterns of EcR Expression in the labial gland of *Manduca sexta* during metamorphosis. *Journal of Research of the Lepidoptera* 39:25-28.
- 8) Halaby, R., **Homsi, A., Regna, K., Bartoszewicz, J., O'Rourke, M., Parga, B., Villatoro, S., Fajardo, I.** 2004. Triptolide induces apoptosis of human breast cancer cells. *The Breast Journal* 10:313-316.
- 9) Halaby, R., **Moreno-Boyle, A., Pych, J.** 2004. Lysosomal-mediated apoptosis of human breast tumors growing in athymic mice. *Breast Disease* 20:98-103.
- 10) Halaby, R., **Moreno-Boyle, A., Pych, J.** 2004. Lysosomal enzymes induce regression of MCF-7 (a human breast carcinoma cell line) tumors growing in athymic mice. *Breast Disease* 19:225-229.
- 11) Halaby, R. 2003. Ecdysone triggers lysosomal cell death in the labial glands of *Manduca sexta*. *Lepidoptera Journal* 8:150-154.
- 12) Halaby, R., **Ochoa, C., Rios, A.** 2003. Microfilament alterations in human breast carcinoma cells undergoing apoptosis. *Journal of Mammary Gland Biology and Neoplasia* 8:67-71.
- 13) Halaby, R. 2002. Lysosomal enzyme-induced cell death in MCF-7 and mammary gland cells. *Breast Cancer Research* 4:E001.
- 14) Halaby, R., **Sutherland, K.** 2002. Detection of early apoptotic events in the labial gland of *Manduca sexta* in response to 20-hydroxyecdysone. *The Lepidoptera Journal* 6:75-81.
- 15) Halaby, R. **Ziaei, S.** 2002. Lysosomal enzyme-mediated apoptosis in the prostate gland and in prostate cancer cells. *Clinical Medicine and Health Research Journal* 4:120-125.
- 16) Halaby, R., **Springer, C., Kassabduhad, M., Velasco, M., Picinic, S.** 2002. Lysosomal enzyme

- activity is augmented, but mitochondrial enzymatic activity is impaired, during TNF-mediated apoptosis in human breast cancer cells. *Clinical Medicine and Health Research Journal* 3:33-37.
- 17) Halaby, R. (2002). Choosing an undergraduate research mentor. *Journal of Young Investigators*, January 2002.
- 18) Halaby, R. 2001. Mammary gland cell death also involves lysosomal autophagy. *Breast Cancer Research* 3:E003.) **Zea, M.**, Halaby, R. 2001. Lysosomal and mitochondrial changes are detected during TNF- α - induced apoptosis in MCF7 human breast cancer cells. *Journal of Young Investigators*, October 2001.
- 19) Halaby, R. 2001. Establishment of an *in vitro* organ culture system for the labial gland of *Manduca sexta*. *The Lepidoptera Journal* 5:10-17.
- 20) Halaby, R., **Abdollahi, J.**, **Martinez, ML.** 2001. Acid phosphatase activity in human breast tumors. *Breast Cancer Research* 3:E002.
- 21) Halaby, R. (2001). Promoting undergraduate research in science. *The Scientist* 15:35.
- 22) Halaby, R., **Ziaei, S.**, and Zakeri, Z. 2000. Cytoskeletal alterations occur in the labial gland of *Manduca sexta* during apoptosis. *The Lepidoptera Journal* 4:6-14.
- 23) Halaby, R. (2000). Encouraging and fostering the non-research choices of students. *Council on Undergraduate Research Quarterly* 19:188-189.
- 24) Halaby, R., **Martinez, M.L.**, Lockshin, R., and Zakeri, Z. 1998. 20-Hydroxyecdysone induces apoptosis in the labial glands of *Manduca sexta*. *Journal of Research on the Lepidoptera* 37:3-10.
- 25) Halaby R, Zakeri Z, and Lockshin, R. 1994. Metabolic events during programmed cell death in insect labial glands. *Biochemistry and Cell Biology* 72:597-601.

Book Chapter

Halaby, R. (2012). Apoptosis and Autoimmune Disorders. In: Autoimmune Diseases - Contributing Factors, Specific Cases of Autoimmune Diseases, and Stem Cell and Other Therapies, James Chan (Ed.). pp. 99-116. ISBN: 978-953-51-0693-7, InTech Publishing.

Peer Reviewer

2014-Present	Journal of Molecular Biology and Molecular Imaging (Editorial Board Member)
2013-Present	Breast Cancer: Targets and Therapy
2013-Present	Cancer Management and Research
2013-Present	OncoTargets and Therapy
2013-Present	International Journal of Molecular Sciences
2013-Present	Brazilian Journal of Medical and Biological Research

Professional Presentations/Abstracts (Student co-authors are indicated in bold)

- 1) Owa, C. and Halaby, R. (2014). Triptolide exerts its anticancer effects via a lysosomal-mediated mechanism: implications for treating apoptosis-resistant breast cancers. The 4th International Symposium on Molecular Technology (Biotechnology in Progress), Drug Development and Therapeutics, Tehran, Iran. October 14-16, 2014.
- 2) Halaby, R. Effects of triptolide on breast and prostate cancer cells. (2012). The 13th Annual RCMI International Symposium on Health Disparities, San Juan, Puerto Rico.
- 3) **Messina, M**, and Halaby, R. The effects of triptolide on human breast cancer cells. (2010). The 101st Annual Meeting of the American Association for Cancer Research, Washington, DC.
- 4) **De Vore, D**, and Halaby, R. Induction of apoptosis by triptolide: lysosomal activity. (2009). The 100th Annual Meeting of the American Association for Cancer Research, Denver, CO.
- 5) Halaby, R, **Pamiloza, K, Mahabier, D, Javeed, I, Hasani, M, Delgado, K, and Guevara E.** (2008). Influence of triptolide on breast cancer. The 99th Annual Meeting of the American Association for Cancer Research, San Diego, CA.
- 6) **Luers, A, Patel, P**, Adams, S, and Halaby R. (2004) Fort Morgan virus activates apoptosis in Vero cells. The 37th Annual Metropolitan Association of College and University Biologists Conference, Wagner College, Staten Island, NY.
- 7) **Rios, A, Ochoa, C**, and Halaby R. (2002). Impaired mitochondrial respiration and lysosomal activation occur during apoptosis in MCF7 human breast cancer cells. The 35th Annual Metropolitan Association of College and University Biologists Conference, Kingsborough Community College, Brooklyn, NY.
- 8) **Zea, M**, and Halaby, R. (2002). TNF- α -induced apoptosis in MCF7 human breast cancer cells involves mitochondrial and lysosomal alterations. 93rd Annual American Association for Cancer Research Meeting, San Francisco, CA. **Zea, M.**, and Halaby, R. (2001). Apoptosis in human breast cancer MCF7 cells involves mitochondrial and lysosomal alterations. 24th Annual Sigma Xi Student Research Conference, Montclair State University, Montclair, NJ.
- 9) Halaby R, **Martinez ML**, Lockshin RA, and Zakeri Z. (2000). Cell death of Manduca salivary glands during metamorphosis. 23rd Annual Sigma Xi Student Research Conference, Montclair State University, Montclair, NJ.
- 10) Halaby R, **Martinez ML**, Lockshin RA, and Zakeri Z. (1999). 20-Hydroxyecdysone induces apoptosis in the labial gland of *Manduca sexta*. The Metropolitan Association of College and University Biologists 32nd Annual Fall Conference, Nassau County Community College, Garden City, NY.
- 11) Halaby R, Lockshin R, and Zakeri Z. (1997). Hormonal regulation of lysosomal cell death in insect labial glands. Sigma Xi Research Society 10th Annual Research Day, Queens College, Flushing, NY.
- 12) Karasavvas N, Erukulla RK, Bittman R, Halaby R, Lockshin R, and Zakeri Z. (1995). Ceramide stereospecificity and cell death. Society for Developmental Biology's Northeast Regional Meeting, Woods Hole, MA.
- 13) Halaby R, **Woo K**, Zakeri Z, and Lockshin R. (1994). Hormonally-induced cell death in insect labial glands. Tenth International Symposium on Cellular Endocrinology, Lake Placid, NY.
- 14) Lockshin RA, **Desai K, Tran N**, Halaby R, Latham T, and Zakeri Z. (1993). Insect models for cellular aging. NATO Meeting in Stromboli, Italy.
- 15) Latham T, Halaby R, Zakeri Z, and Lockshin RA. (1993). Programmed cell death in the insect labial gland. American Association for Cancer Research Annual Meeting, Chatham,

MA.

- 16) Lockshin RA, Halaby R, Latham TE, and Zakeri ZF. (1993). Early metabolic events and upregulated genes during programmed cell death (PCD). Keystone Meeting (UCLA).
- 17) Halaby R, Latham TE, Lockshin RA, and Zakeri ZF. (1993). Upregulated genes during programmed cell death (PCD). Sigma Xi Research Society 6th Annual Research Day, Queens College Flushing, NY.

Articles in Conference Proceedings

(Student co-authors are indicated in bold)

- 1) Owa, C. and Halaby, R. (2014). Triptolide exerts its anticancer effects via a lysosomal mediated mechanism: implications for treating apoptosis-resistant cancers. In: Proceedings of the 4th International Symposium on Molecular Technology (Biotechnology in Progress), Drug Development and Therapeutics; pages 42-43.
- 2) **De Vore, D.** and Halaby, R. Induction of apoptosis by triptolide: Lysosomal activity. In: Proceedings of the 100th Annual Meeting of the American Association for Cancer Research; 2009 Apr 18-22; Denver, CO. Philadelphia (PA): AACR; 2009. Abstract # 2696.
- 3) **Messina, M.** and Halaby, R. The effects of triptolide on human breast cancer cells. In: Proceedings of the 101st Annual Meeting of the American Association for Cancer Research; 2010 Apr 17-21; Washington, DC. Philadelphia (PA): AACR; 2010. Abstract # 767.

GRANTS

Submitted. Triptolide exerts its anticancer effects in ovarian cancer cells via a lysosomal mediated mechanism. (PI): R. Halaby. Submitted to the Marsha Rivkin Center for Ovarian Cancer Research. \$75,000 requested.

Submitted. Lysosomal-Mediated Apoptosis in Breast Cancer Cells Induced by Triptolide. (PI): R. Halaby. Submitted to the National Cancer Institute of the National Institutes of Health (R03 Mechanism). \$100,000 requested.

2009-2011. Nanocarrier Based Novel Drug Delivery System for Breast Cancer. (Co-PI): R. Halaby. Margaret and Herman Sokol Institute for Pharmaceutical Life Sciences, College of Science and Mathematics, Montclair State University (\$50,000).

2007-2012. Establishment of a MARC (Minority Access to Research Careers) Program at Montclair State University, Grant Number: T34GM079079. (PI/Program Director): R. Halaby. NIH (\$1,800,000).

2004. Lysosomal Enzymes and Breast Tumor Regression. (PI): R. Halaby. Summer Grant Proposal Development Project. Montclair State University – used to submit a proposal to the National Science Foundation's Research in Undergraduate Institutions (RUI) Program.

2003. Targeting Breast Cancer Cells for Death. (PI): R. Halaby. Summer Grant Proposal Development Project- used to submit a proposal to the National Institutes of Health's Academic Research Enhancement Award (AREA) Program.

2003–2004. Molecular Regulation of Breast Tumor Regression by Lysosomes. Fifth District AHEPA Cancer Research Foundation (\$10,000). 2002–2003. The Role of Lysosomal Enzymes in the Regression of Breast Tumors Growing in Mice. (PI): R. Halaby. Fifth District (AHEPA) Cancer Research Foundation (\$10,000).

2001 – 2002 The Role of Lysosomal Enzymes in the Regression of Breast Tumors. PI: R. Halaby. Fifth District American Hellenic Educational Progressive Association (AHEPA) Cancer Research Foundation (\$10,000).

2000 and 2001. Grants and Research Incentive Program for Science and Mathematics Award. (PI): R. Halaby. Montclair State University (\$6,000).

1999 and 2002. Separately Budgeted Research Award. (PI): R. Halaby. Montclair State University (\$6,000).

1999. University Student Faculty Research Award. (PI): R. Halaby. Montclair State University (\$3,000).

Invited Presentations

- 1) "Herbal Anticancer Agent for Treatment-Resistant Breast Cancers." Presented as guest speaker for Princeton University's HHMI Teacher's Workshop at Garfield High School, April 1, 2014.
- 2) "Utilizing Online Teaching to Promote Active Learning in Biomedical Courses," Presented as a guest speaker for Montclair State University's Technology Training and Integration Summer Institute, June 18, 2013.
- 3) "Chinese herb induces apoptosis in cancer cells." Presented as a guest speaker at Seton Hall University's School of Nursing, November 27, 2012.
- 4) "The effects of triptolide on breast cancer cells." Presented as a guest speaker for Queens College of CUNY's MARC Research Day on May 14, 2010.
- 5) Presented a workshop on Mitosis, Cell Cycle, and Cancer to teachers from grades 5-8 as part of the Summer Institute of PRISM on July 16, 2007.
- 6) "Plant Cell Overview." Presented as a guest speaker for Elementary Creative University School Partnership's (e-CUSP) Summer Institute of the College of Science and Mathematics' Professional Resources in Science and Mathematics (PRISM) Program on July 12, 2007.
- 7) "Physician ↔ Academic Researcher." Presented as a guest speaker for MSU's Minority Association of Pre-Health Students on November 10, 2005.
- 8) "Professor, Researcher, and Advisor: Roles of Science Faculty." Presented as a guest speaker for Queens College's MARC Research Day on May 13, 2005.
- 9) "How to Become a Scientist." Presented as speaker for High Mountain Road School on December 23, 2004 as part of the College of Science and Mathematics' outreach program, Adopt-A-Prof Program.
- 10) "Lysosomal Enzymes, Apoptosis, and Breast Tumor Regression." Presented as speaker for MSU Department of Biology and Molecular Biology's Faculty Seminar Series on February 18, 2004.
- 11) "Stem Cell Research: Therapeutic Promise and Controversy." Presented as guest speaker for MSU's Phi Sigma Pi National Honor Fraternity on March 31, 2003.
- 12) "The History of the Haitian Revolution." Given as the keynote speaker at the Haitian Organization for Progress' Annual Dinner at Ramapo College on November 17, 2000.
- 13) "Breast Cancer and Apoptosis." Given as an invited speaker as part of Essex County Community College's Bio-Seminars Program on October 5, 2000.

- 14) "Mechanisms that Regulate Cell Death," during the Weston Science Scholars Orientation, Montclair State University, on June 14, 2000.
- 15) "Breaking Down the Stereotypes about Haitians," as the keynote speaker of MSU's Haitian Students Association on April 23, 1999.
- 16) "Obtaining a Tenure-Track Position in the Sciences." Given as an invited speaker at CUNY's Conference in Science and Engineering, entitled "Launch Your Career," February 19, 1999.
- 17) I spoke to the MSU Pre-Medical Professions Club on November 24, 1998 about the differences, advantages, and disadvantages of applying to medical school and graduate school "Successfully Completing Doctoral Studies," a talk at The City University of New York (CUNY) Graduate School and University Center on November 13, 1998 to MAGNET (Minority Access/Graduate Networking) Scholars.

PROFESSIONAL SERVICE ACTIVITIES

University Service

- 2014-Present Member, Academic Standing Appeals Committee
- 2014 Search Committee for Men's Lacrosse Head Coach Position
- 2013-Present Instructor for the Global Education Center. Taught Advanced English Writing Skills for Instructors in Natural and Applied Sciences - Teaching in English-Campus Program
- 2013-Present Member, University Pre-Health Committee
- 2011 Search Committee for Women's Volleyball Head Coach Position
- 2011-Present Member, University Institutional Animal Care and Use Committee
- 2003-2009 University Senator
- 2006-2009 University Senate Student Affairs Council
- 2006-Present Member, NCAA CHAMPS (Challenging Athletes' Minds for Personal Success) /Life Skills Program Advisory Committee
- 2004-2005 The General Education Committee
- 2003-2006 University Senate Elections Committee
- 2003-2005 President's Commission on Affirmative Action
- 2003-2004 Co-Chair, Employee Safety Subcommittee of the University Committee on Campus Safety
- 2000, 2001 Search Committee for Women's Basketball Head Coach Position
- 1999-2003 Mentor for the Teacher Education Freshmen Cohort, Teacher Education Advocacy Center
- 1999-2004 Faculty Advisor, Haitian Student Association
- 1998-Present Member of MSU Faculty Hawks Club

College of Science and Mathematics Service (CSAM)

- 2014-Present CSAM Faculty Representative on the Standing Appeals Committee
- 2009 Member, Search Committee for Environmental Engineering Sciences Faculty Position
- 2007-2012 NIH MARC U-STAR Program Director
- 2004 Chair, Search Committee for Counselor Position for the Upward Bound Program

2001-2002 Search Committee for Assistant Dean of CSAM Position
 2000 Chair, Search Committee for Assistant Director Position for the Upward Bound Program
 2000 Mentor for the Weston Science Scholars
 2000-2004 Instructor for the Upward Bound Program
 1999 Search Committee for Assistant Director Position for the Upward Bound Program
 1998-Present Director of CUNY Bridges to the Doctorate in Biomedical Sciences Articulation Program at MSU

Department Service

2012-Present Undergraduate Academic Advisor
 2010-Present Member, University Institutional Animal Care and Use Committee
 2010 Search Committee for Physiologist
 2007 Search Committee for Molecular Biologist/Neurobiologist
 2005-2007 Faculty Advisor, The Biology Club
 2003-2007 Biology M.S. Graduate Program Coordinator
 2003-2005 Chair, Department Personnel Advisory Committee
 2003 Department Marshal at Commencement
 2002 Member of the Cell and Molecular Biology, Genetics, Molecular Biology, and Microbiology Courses Revising Committee
 2001 Search Committee for Biology Science Education Position
 2001 Member of the Principles of Biology II Course Committee
 1999 Search Committee for Molecular Genetics Position
 1998-1998 Selection Committee for the University of Medicine and Dentistry of New Jersey's B.S./Ph.D Bridges Program

Community-Based Service

2005-2006 Member, Adopt-A-Professor Program of the Creative University-School-Partnerships,
 1999-2000 Taught Newark Public Schools Teachers how to Implement the Metric System into their Curricula

ASSOCIATION MEMBERSHIPS

1997-Present International Cell Death Society
 1998-2005 Council on Undergraduate Research
 2001-2005 Council on Undergraduate Research Institutional Liaison for MSU
 1998-Present American Association for Cancer Research
 1999-Present Society for Developmental Biology
 1999-Present The Science Advisory Board
 1999-Present The Metropolitan Association of College and University Biologists