

Pearl Ramola Fernandes

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EDUCATION:

- Ph.D. December 1993 - Biological Sciences (Molecular, Cellular and Developmental Biology group), University of South Carolina, Columbia, SC
M.S. May 1984 - Foods, Nutrition and Dietetics, Bombay University, India
B.S. May 1982 - Life Sciences (first class), Bombay University (St. Xavier's College), India

PROFESSIONAL EXPERIENCE:

- 2006- Associate Professor of Biology, University of South Carolina Sumter, SC
2000- Affiliate Faculty, Women's Studies, University of South Carolina, Columbia, SC
2000- Associate Faculty, School of the Environment, University of South Carolina, Columbia, SC
2007- Regional Campuses Coordinator NSF STEP to STEM Program, University of South Carolina, Columbia, SC
2000- 2006 Assistant Professor of Biology, University of South Carolina Sumter, SC
1998- 2000 Visiting Assistant Professor of Biology, University of South Carolina Sumter, SC
1996-1997 Summer Visiting Assistant Professor Fellowship-American Society for Cell Biology, University of South Carolina School of Medicine, Columbia, SC
1995- 1998 Assistant Professor of Biology, Morris College, Sumter, SC
1994-1995 Postdoctoral Research Associate, Department of Food Science and Human Nutrition, University of Florida, Gainesville, FL
1988-1993 Research Assistant and Instructor, Department of Biological Sciences, University of South Carolina, Columbia, SC
1990- 1991 Vice- President of the Graduate Association of Biological Sciences
1986-1988 Research Assistant and Instructor, Department of Nutrition, University of North Carolina, Greensboro, NC
1984-1986 Assistant Professor of Nutrition, Bombay University, Bombay, India
1984-1986 Resource Personnel in Nutrition, Indian Child Development Scheme, Bombay, India
1984 Nutritionist in Maternal and Child Health, Catholic Relief Services, Bombay, India

ACADEMIC AWARDS:

- 2007 Hugh H Stoddard Outstanding Faculty Award, University of South Carolina Sumter, SC**
2005 *Who's Who Among America's Teachers* (2005) multiple student nominations
2004 Research Travel Award, School of the Environment, University of South Carolina, Columbia, SC
2003 Teacher of the Year, University of South Carolina Sumter, SC
2002 YWCA Tribute to Women in Industry (TWIN) Honoree Award, Sumter, SC
2002 Research Travel Award, School of the Environment, University of South Carolina, Columbia, SC
2002 Research Travel Award, American Society for Cell Biology and Histochemical Society, Washington, DC
2001 Governor's Professor of the Year Nominee, University of South Carolina Sumter, SC
2000 Teacher of the Year, University of South Carolina Sumter, SC
1997 Research Travel Award, American Society for Cell Biology
1993 Research Travel Award, American Society for Cell Biology
1993 Sigma XI, First Place Graduate Student Research Presentation Award

COURSES TAUGHT at USC SUMTER: 10 courses or 30 contact hours/year

- Women's Bodies in Health and Disease via Distance Education Program (WOST 113- Palmetto)

- Biological Principles Part I and II, Lecture and Lab for biology/ pharmacy majors (BIOL 101 and 102)
- Human Anatomy and Physiology Part I and II, Lecture and Lab for nursing majors (BIOL 243 and 244)
- Genetics for biology majors (BIOL 303)
- Microbiology, Lecture and Lab for nursing majors (BIOL 250/ BIOL 330)
- Women's Bodies in Health and Disease (WOST 113)
- General Biology, Lecture and Lab (BIOL 110)
- Special Topics Independent Study (BIOL 399)
- Special Topics Independent Study (BIOL 599)
- Coordinator for Interdisciplinary Linked Courses (ENVR 101, ENGL 102)

COURSES TAUGHT AT OTHER INSTITUTIONS:

- Domestic Animal Nutrition, Human Biology Lab- University of South Carolina Columbia, SC
- Community Nutrition, Human Nutrition and Biochemistry, Clinical Nutrition, Food Microbiology- Nirmala Niketan College, Bombay University, India
- Vertebrate Developmental Biology (Lecture and Lab), Cell Biology (Lecture and Lab), Ecology (Lecture and Lab)- Morris College, Sumter, SC

REFEREED PUBLICATIONS:

Mecham J, Kosal E, **Fernandes PR**. 2008. Life Science in Context: Sub-Saharan Africa and HIV AIDS. *The SENCER Model Series*: 1- 47.

Yi-de Mi, Borger DR, **Fernandes PR**, Pirisi L, Creek KE. 2000. Loss of Transforming Growth Factor- β (TGF- β) Receptor Type I Mediates TGF- β Resistance in Human Papillomavirus Type 16-Transformed Human Keratinocytes at Late Stages of *in Vitro* Progression. *Virology*, **270**: 408-416.

Fernandes PR, Samuelson D, Cousins RJ. 1997. Immunohistochemical Localization of a Cysteine-Rich Intestinal Protein in Rat Duodenum. *American Journal of Physiology*, **272**: G751-759.

Fernandes PR, Dewey MJ. 1994. Genetic Control of Erythrocyte Volume Regulation. *American Journal of Physiology*, **261**: C211-219.

Tangney CC, Phillips G, Bell RA, **Fernandes P**, Hopkins R, Wu SM. 1989. Selected Indices of Micronutrient Status in Adult Patients with Sickle Cell Anemia (SCA). *American Journal of Hematology*, **32**: 161-166.

Tangney CC, Phillips G, Bell RA, **Fernandes P**, Thomas P, Segers E, Wu SM. 1989. Micronutrient Status in Adult Patients with Sickle Cell Disease. *Annals of the New York Academy of Sciences*, **265**: 472-473.

COMMUNICATIONS/ NEWSLETTERS UNDERGRADUATE CO-AUTHORS UNDERLINED):

Mecham J, Kosal E, **Fernandes PR**, Otieno M. 2008. Global Science: Discourse and Collaboration. *National SENCER Newsletter*, **7**: 4-8.

Reynolds JL, Pugh RL, **Fernandes PR**. 2005. *Cuterebra fontinella* (Botfly) Infestations in *P. Gossypinus* in S. Carolina. *Peromyscus Newsletter*, **38**: 23-24.

Fernandes PR, Reynolds JL. 2003. Digital Radiography, a Novel Non-Lethal Method of Skull Analysis. *Peromyscus Newsletter*, **35**: 20-21.

MANUSCRIPT SUBMITTED:

Olvido AE, **Fernandes PR**, Mousseau TA. 2008. Genetic and Environmental Components affects Female Preference for Male Calling Song in a *Bivoltine* Cricket. *Journal of Insect Science*.

MANUSCRIPTS IN PREPARATION (UNDERGRADUATE CO-AUTHORS UNDERLINED):

Fernandes PR, Tribble D, Crossland J, Szalai G. Sperm Cooperation and Aggregation among *Peromyscus* Species.

Fernandes PR, Reynolds JL, Garrett-Segedin N. Morphological and Molecular Analyses of *Peromyscus* Species at Poinsett State Park.

- Fernandes PR**, Bishoff ST, Steinmetz J, Castleberry J, Morris JT. Nitrogen and Phosphorus Removal Efficiency of Natural Freshwater Wetlands receiving Treated Waste Water.
- Kosal E, Mecham J, **Fernandes PR**. The Use of HIV/AIDS as a Contextual Background for Teaching Basic Life Science to Improve Student Knowledge and Attitudes toward Biology.

PUBLISHED ABSTRACTS / PROCEEDINGS (UNDERGRADUATE CO-AUTHORS UNDERLINED):

- Soos R, **Fernandes PR**, Steinmetz J. 2008. Down the Drain: Effects of a Waste Water Treatment Plant on the Pocatigo Swamp. *Science Education for New Civic Engagements and Responsibilities Summer Institute Poster Session Abstracts*.
- Hughes A, **Fernandes PR**, Ghoshroy, K. 2008. Hand Washing and Global Diseases. *Science Education for New Civic Engagements and Responsibilities Summer Institute Poster Session Abstracts*.
- Soos R, **Fernandes PR**, Steinmetz J. 2008. Water Quality Monitoring of the Pocatigo Swamp. *Southeastern Association of Biologists Meeting Book of Abstracts*, Pg. 96.
- Kosal E, **Fernandes PR**, Mecham J. 2008. Improving Science Education through Globalization. *Southeastern Association of Biologists Meeting Book of Abstracts*, Pg. 73.
- Riggs A, **Fernandes PR**, Mecham J, Kosal E, Otieno M. 2008. A Multi-Level Risk Assessment of Women Living with HIV/AIDS in Kenya. Abstract of presentation in *South Carolina Academy of Sciences Bulletin*, Vol. LXX, Pg. 84.
- Mecham J, Otieno M, Palchinsky J, **Fernandes PR**. 2007. A Pilot Study on the Efficacy of the Herbal Preparation, Sanguprot for the Treatment of HIV in Rural Kenyan Women. Abstract of presentation in *North Carolina Academy of Sciences Bulletin*, 104, Pg. 13.
- Mecham J, Otieno M, **Fernandes PR**. 2007. Building an International Collaboration for HIV/AIDS Research and Teaching. Abstract of presentation in *North Carolina Academy of Sciences Bulletin*, 104, Pg. 14.
- Riggs A, **Fernandes PR**, Mecham J, Otieno M. 2007. Nutritional Assessment of Women Living with AIDS in Kenya. Abstract of presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXIX, Pg. 110.
- Tribble D, **Fernandes PR**, Steinmetz J. 2007. A Breath of Freshwater: The Effects of Wastewater Effluent on Water Quality. Abstract of poster presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXIX, Pg. 120.
- Reynolds JL, **Fernandes PR**. 2006. *Peromyscus gossypinus* from Poinsett State Park: Molecular and Phenotypic Characterization. Abstract of presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXVIII, Pg. 104.
- Pugh R, Reynolds JL, **Fernandes PR**. 2005. Incubation Period and Development of Botfly Infestations in *P. Gossypinus* in S. Carolina. Abstract of poster presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXVII, Pg. 100.
- Fernandes PR**, Bellanca ME, Bacon M, West CA, Logue JF. 2005. Wetlands from the Literary, Biological, Mathematic and Economic Perspectives. Abstract of poster presentation in *Emerging Issues along Urban/Rural Interfaces Conference Book of Abstracts*, Pg. 117.
- Fernandes PR**, Bellanca ME, Bacon M, West CA, Logue JF. 2005. Wetlands from the Literary, Biological, Mathematic and Economic Perspectives. Abstract of poster presentation in *Science Education for New Civic Engagements and Responsibilities Summer Institute Poster Abstracts*.
- Reynolds JL, Pugh R, Garrett-Segedin N, **Fernandes PR**. 2004. Identification of *Peromyscus* Species at Poinsett State Park using Morphological, Digital, Molecular and Biochemical Techniques in *Southeastern Ecology and Evolution Conference Book of Abstracts*, Pg. 36.
- Garrett-Segedin N, Dewey MJ, **Fernandes PR**. 2003. Molecular Analyses of *Peromyscus* Species at Poinsett State Park. Abstract of poster presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXV, Pg. 77.
- Fernandes PR**, Garrett-Segedin N, Woodly A, Logue JF. 2003. Survey of the Habitat and Morphological Analyses of *Peromyscus* at Poinsett State Park. Abstract of poster presentation in *South Carolina Academy of Sciences Bulletin*, Vol LXV, Pg. 76.

- Fernandes PR**, Bishoff ST, Castleberry J, Morris JT. 2002. Nitrogen and Phosphorus Removal Efficiency of Natural Freshwater Wetlands receiving Treated Waste Water. Abstract of poster presentation in *American Society of Limnology and Oceanography Conference Book of Abstracts*, Pg. 46.
- Castleberry J, Bishoff ST, Morris JT, **Fernandes PR**. 2001. Impact of a Waste Water Treatment Plant Effluent on the Pocatoligo Swamp. Abstract of poster presentation in *South Carolina Academy of Sciences Bulletin*, Vol. LXIII, Pg. 65.
- Xu, X, Ferrante GJ, **Fernandes PR**, Mourateva E, Creek KE, Pirisi L. 1998. Human Keratinocytes and Tumor-Derived Cells Express Alternatively Spliced Forms of TGF- α mRNA Encoding TGF- α variants lacking the C-terminal Valine Critical for Cleavage of the Membrane-Anchored Precursor. Abstract of poster presentation in *Proceedings of the American Association for Cancer Research*. **39**: 406.
- Fernandes PR**, Ferrante GJ, Xu X, Mourateva E, Pirisi L, Creek KE. 1997. Immunolocalization of Epidermal Growth Factor Receptor and Transforming Growth Factor-alpha during Human Papilloma Virus Type 16-Mediated Human Cell Carcinogenesis. Abstract of poster presentation in *Molecular Biology of the Cell*. **8S**: 241A.
- Gearheart E, **Fernandes PR**. 1996. Essentials of Radiation. A Primer for Concerned Citizens. *Technical Pamphlet*. Paine College/SRS Building Environmental Justice Collaborations Project.
- Fernandes PR**, Samuelson D, Lewis P, Cousins RJ. 1995. Immunolocalization and Cellular Distribution of Cysteine-Rich Intestinal Protein in Rat Duodenum. Abstract of poster presentation in *FASEB J*. **9**: 4280.
- Fernandes PR**, Samuelson DA, Smith PJ, Lewis P, Cousins RJ. 1995. Morphologic and Altered Metal Binding of Ocular Melanin in the Lethal Milk (*lm*) Mouse. Abstract of poster presentation in *ARVO*. **15**: 4216.
- Cousins RJ, **Fernandes PR**. 1995. Identification of Cysteine-Rich Intestinal Protein in Reproductive Organs of the Rat. Abstract of poster presentation in *FASEB J*. **9**: 4281.
- Samuelson D, **Fernandes PR**, Lewis P, Cousins RJ. 1995. Altered Binding of Ocular Melanin in Lethal Milk (*lm*) Mouse. Abstract of poster presentation in *FASEB J*. **9**: 4275.
- Fernandes PR**, Dewey MJ. 1992. Genetic Control of Erythrocyte Volume Regulation. Abstract of poster presentation in *The Physiologist*. **35(5)**: 19A.
- Fernandes PR**, Dewey MJ. 1992. Genetic Control of Erythrocyte Volume Regulation. Abstract of poster presentation in *Molecular Biology of the Cell*. **30**: 302A.

PRESENTATIONS:

- Fernandes PR**. 2008. Environmental Refugees and Gender. *Climate Change Panel League of Women Voters and Oxfam*. Sumter, SC.
- Steinmetz J, Bellanca ME, **Fernandes PR**, Florez R. 2008. Merging the Streams: Interdisciplinary Approaches to Improving Undergraduate Education and Civic Engagement. *Science Education for New Civic Engagements and Responsibilities Summer Institute*, San Jose, CA.
- Riggs A, **Fernandes PR**. 2008. Gender, HIV and Nutrition. *Annual Women's Studies Conference*, Columbia, SC.
- Fernandes PR**. 2008. Genetics at a Glance. *South Carolina Junior Academy of Sciences Workshop*, Columbia, SC.
- Kosal E, Mecham J, **Fernandes PR**. 2007. Global Problems, Global Science. Promoting the Liberal Sciences: Science as Liberal Education. *American Conference of Academic Deans*, Washington, DC.
- Fernandes PR**, Nerbun R. 2007. Physics and Anatomy of Sight. *Midlands MESAS Science Workshop*, Newberry, SC.
- Fernandes PR**, Bellanca ME, Bacon M, Logue J. 2007. Wetter, Wilder and Deeper: An Update on Interdisciplinary Linked Courses. *Science Education for New Civic Engagements and Responsibilities Conference*, San Jose, CA.
- Fernandes PR**, Palchinsky J, Smith B, Mecham J. 2006. HIV/AIDS in a Global Context. *Science Education for New Civic Engagements and Responsibilities Conference*, San Jose, CA.

- Fernandes PR**, Bellanca E, Logue J, Bacon M. 2006. Wet and Wild: Bridging the Gap between English and Biology. *Science Education for New Civic Engagements and Responsibilities Conference*, San Jose, CA.
- Fernandes PR**. 2006. HIV/AIDS from the Classroom to the Field. *Classroom presentation, School of Public Health*, University of South Carolina, Columbia, SC.
- Fernandes PR**. 2006. Coordinated Natural History Courses- Bridging the Gap between English and Biology. *Regional Science Education Conference*, Duke University, NC.
- Fernandes PR**, 2006. Nature, Arts and Letters. *Panel Discussion*, University of South Carolina Sumter, SC.
- Reynolds JL, **Fernandes PR**. 2003. Identification of *Peromyscus* Species using Novel Techniques. *NSF-REU Program, Department of Biology*, University of South Carolina, Columbia, SC.
- Mecham J, **Fernandes PR**, Fisher S, Garrett M, Kosal E. 2004. Life Science in Context: Sub-Saharan Africa. *Science Education for New Civic Engagements and Responsibilities Conference*, San Jose, CA.
- Fernandes PR**. 2003. Science Education for New Civic Engagements and Responsibilities. *American Society for Cell Biology National Conference*, San Francisco, CA.
- Segedin N, **Fernandes PR**. 2002. Morphological and Molecular Analyses of *Peromyscus* Species and Biogeography of its Habitat. *NSF-REU Program, Department of Biology*, University of South Carolina, Columbia, SC.
- Lopez Maria- Angelica, **Fernandes PR**. 2001. Women's Poetry: Poetry Recitation in Their Native Languages. *Annual Women's Studies Conference*, University of South Carolina, Columbia, SC.
- Fernandes PR**. 1999. Osteoporosis in African-American Women. Invited talk. *Wateree District DHEC Conference*, Camden, SC.
- Fernandes PR**, Bishoff ST. 1999. HIV Prevention and Education. *Wellness Conference*, Myrtle Beach, South Carolina.
- Fernandes PR**. 1999. Menopause and Hormonal Regulation. *Annual Women's Studies Conference*, University of South Carolina, Columbia, South Carolina.
- Fernandes PR**. 1999. Current Techniques in Recombinant DNA Technology. *Division of Science, Mathematics and Engineering*, University of South Carolina Sumter, South Carolina.
- Fernandes PR**. 1998. Developing an HIV/AIDS Curriculum at Morris College. *UNCF-HOPE Technical Workshop*, New Orleans, Louisiana.
- Fernandes PR**, Alston L. 1998. Hazardous Materials and Waste Management. Presentation at the *South Carolina Junior Academy of Sciences*, Columbia, South Carolina.
- Fernandes PR**. 1998. Effects of Radiation on Health. Invited talk at the *Environmental Justice for the Community Workshop*, Sumter, South Carolina.
- Fernandes PR**. 1997. Effect of Radiation on Health. Presentation at the *Environmental Justice and Research Program, Morris College*, Sumter, South Carolina.
- Fernandes PR**. 1997. Quest for Knowledge in Science. *Morris College Honors Seminar, Morris College*, Sumter, South Carolina.
- Fernandes PR**. 1997. Teaching Junior and Senior Level Courses at HBCU Schools. Presentation at the *Annual HBCU Symposium*, Atlanta, Georgia.
- Fernandes PR**. 1997. Grant Writing Seminar. *Morris College*, Sumter, South Carolina.
- Xu X, Ferrante GJ, **Fernandes PR**, Mourateva E, Creek KE, Pirisi L. 1997. Alternative Splicing of Transforming Growth Factor- α in Normal and HPV16-Transformed Human Epithelial Cells. Abstract of poster presentation at the *16th International Papilloma Virus Conference*, Siena, Italy.
- Akerman GS, Engin TS, Zyzak LL, **Fernandes PR**, Mourateva E, Creek KE, Pirisi L. 1997. Interactions between the Epidermal Growth Factor Receptor and HPV 16 Oncoproteins in HPV 16-Mediated Human Cell Carcinogenesis. Abstract of poster presentation at the *16th International Papilloma Virus Conference*, Siena, Italy.
- Olvido AE, **Fernandes PR**, Mousseau, TA. 1996. Effect of Rearing Environment for Female Preference for Male Calling Song in a *Bivoltine* Ground Cricket. *Annual Meeting for the Society for the Study of Evolution*, Washington University, St. Louis, Missouri.

- Olvido AE, **Fernandes PR**, Mousseau TA. 1996. Rearing Environment affects Song Preference in a Cricket. *Annual Meeting of the Animal Behavior Society*, Northern Arizona University, Flagstaff, Arizona.
- Gearheart W, **Fernandes PR**. 1996. Learning in Undergraduate Science Courses: Reality, Rhetoric or Perpetuated Myth. *Annual HBCU Symposium*, Memphis, Tennessee.
- Fernandes PR**, Dewey MJ. 1992. Genetic Control of Erythrocyte Volume Regulation. *South Carolina Academy of Sciences*, Columbia, South Carolina.
- Fernandes PR**. Common Nutritional Deficiencies in Women and Children in India. *Department of Nutrition, University of North Carolina at Greensboro, NC*.
- Fernandes PR**, Tangney CC. 1987. Cyclical Variations in Nutrient Status in Women in Various Phases of the Menstrual Cycle. *Annual Dietetic Association Meeting*, North Carolina Chapter, Greensboro, NC.
- Fernandes PR**, Isaac S. 1985. Effect of Nutrition on the Health Status of the Aged. Invited Presentation. *Annual Indian Dietetic Association Meeting*, Bombay Chapter, Bombay, India.
- Fernandes PR**. 1985. Training Village Health Workers from Rural Areas in Maternal and Child Health Care. Invited Presentation. *Indian Child Development Scheme Workshop*, Bombay, India.
- Fernandes PR**. 1984. Improving Nutrition and Hygiene in Women and Children in Central and South West India. *Annual Catholic Relief Services Conference*, Delhi, India.

INVITED SEMINARS:

- Fass M, **Fernandes PR**. 2008. Introducing Public Health Perspectives into Science Courses. Invited Workshop. *Science Education for New Civic Engagements and Responsibilities National Conference*, San Jose, CA.
- Fass M, Fisher M, Villani P, **Fernandes PR**. 2008. Looking at the Big Picture: Food, Nutrition and Public Health. Invited Colloquium. *Science Education for New Civic Engagements and Responsibilities National Conference*, San Jose, CA.
- Meyer D, Oates K, **Fernandes PR**, Shachter A. 2008. Global Issues in Science and Civic Engagement. Invited Colloquium. *Science Education for New Civic Engagements and Responsibilities National Conference*, San Jose, CA.
- Fernandes PR**. 2007. *Peromyscus Gossypinus*: Genetic and Phenotypic Variation. *Department of Biology Seminar*, University of South Carolina Aiken, Aiken, SC.
- Fernandes PR**. 2007. Nutritional and Health Assessment of Women Living with HIV/AIDS in Kenya. *Department of Biology Seminar*, Meredith College, NC.
- Fernandes PR**. 2006. HIV/AIDS and Culture (Kenya and India). *Department of Geography Special Seminar*, Texas A & M University, College Station, Texas.
- Fernandes PR**. 2005. Connecting Science to Learning. Invited Panel. *Science Education for New Civic Engagements and Responsibilities National Conference*, San Jose, CA.

GRANTS FUNDED:

- 2008 Biology of Sperm Aggregation in *Peromyscus* using Cellular and Molecular Techniques. National Science Foundation Research Opportunity Award. PI \$25,000/-
- 2008 Environmental Influence on Genetic Diversity of *Daphnia*. Research Opportunity Program, University of South Carolina, Columbia, Co-PI \$9965/-
- 2008 Water Quality Issues in the Pocatigo Swamp. Magellan Voyager Program for Undergraduate Research, University of South Carolina, Columbia, PI \$196/-
- 2007 Connecting Real World Life Problems to Real World Issues. Science Education for New Civic Engagements and Responsibilities, PI \$3,000/-
- 2007 Water Quality Issues in the Pocatigo Swamp. Magellan Scholar Program for Undergraduate Research, University of South Carolina, Columbia, PI \$2800/-
- 2005 Life Sciences in Context: Sub-Saharan Africa. National Science Foundation, Course Curriculum and Laboratory Instruction Grant Part I, Co-PI \$75,920/-
- 2004 Development of Interdisciplinary Linked Courses. Science Education for New Civic Engagements and Responsibilities, PI \$3,500/-

- 2003 Molecular Markers to Identify *Peromyscus* Species. Research and Productive Scholarship, University of South Carolina, Columbia, PI \$6,800/-
- 2003 National Science Foundation Research Experience for Undergraduates, Student Fellowship, PI \$3,000/-
- 2003 Life Science in Context. Science Education for New Civic Engagements and Responsibilities, Co-PI \$3,500/-
- 2002 National Science Foundation Research Experience for Undergraduates, Student Fellowship, PI \$3,000/-
- 2002 Molecular Markers to Identify *Peromyscus* Species. Provost's Faculty Development Award, University of South Carolina, Columbia, PI \$1,998/-
- 2002 Morphometric Techniques to Identify *Peromyscus* Species. Faculty Development Award, University of South Carolina Sumter, PI \$2,000/-
- 2001 Introducing Environmental Concepts in Biology 102 Courses. School of the Environment, University of South Carolina, Columbia, PI \$3,000/-

GUEST EDITOR AND REVIEWER: *Southeastern Naturalist*

NATIONAL PROFESSIONAL COMMITTEES- AMERICAN SOCIETY FOR CELL BIOLOGY (ASCB):

- Minority Affairs Committee (ASCB MAC) 2001-2004
- Women in Cell Biology Committee *ad hoc* 2003- 2004,
- Co-Chair of Minority Undergraduate Mentoring Symposium 2001-2004
- Co-Chair of Minority Visiting Assistant Professor Committee 2001- 2004 (Budget \$100,00/year)
- Round table discussion leader on "Teaching and Research at Small Colleges" at the national ASCB meeting (2002-2004)
- Judge for undergraduate, graduate and postdoctoral travel awards at the national ASCB meeting (2001-2004)
- **Involved with a \$ 925,000 Minority Access to Research Careers grant awarded to ASCB MAC in 2004**

REGIONAL AND STATE SCIENTIFIC COMMITTEES AND SERVICE:

- South Carolina Academy of Sciences Council (2008)
- South Carolina Academy of Sciences, Publicity Committee Chair (2008)
- Leadership Council for Science Education for New Civic Engagement and Responsibilities Centers for Innovation (2007- present)
- South Carolina Junior Academy of Sciences Judge, Speaker for South Carolina Junior Academy Workshops (2000- present)
- Region II Science Fair Judge and Awards Presenter (2000- present)
- Judge for Elementary, Middle and High School Science Fairs in Sumter County (2000- present)

SERVICE TO THE CAMPUS:

USC System

- Faculty Welfare Committee (2008- present)
- Provost's Advisory Committee on Women's Issues (2008)
- Faculty Senate (2003- 2008)
- Women's Studies Annual Conference Committee and Panel Moderator (2001- present)
- Magellan Scholar Program Proposal Reviewer (2008)
- Provost's General Education Task Force- Life Long Learning Committee (2006-2007)
- Women's Studies Undergraduate Advisory Committee (2000-2003)

- USC Columbia Discovery Day Judge (2006)
- Center for Teaching Excellence Faculty (2006- present)

Regional Campuses of the USC System

- System Promotion and Tenure Committee (2008)
- Provost's Academic Advisory Council (2006- present)
- Promotion and Tenure Workshop Panel Presenter (2007, 2008)
- System Affairs Committee, Chair (2004)
- Executive Committee (2004)
- Research and Productive Scholarship Committee (2004)
- Research and Scholarship *Ad Hoc* Committee (2004)

University of South Carolina Sumter

- Promotion and Tenure Peer Review Committee (2006-present)
- Biology Faculty Mentor for Junior Faculty (2006- present)
- Tenure File Preparation Advisor and Reviewer for Biology and Math faculty (2006- present)
- Governor's Professor of the Year File Advisor and Reviewer (2007, 2008)
- Grant Proposal Reviewer for USC Sumter Faculty (2004- present)
- High School Math and Science Contest Committee (2000- present)
- Scholarship and Awards Committee, (2002- 2003; 2005- present), Chair (2003)
- Opening Convocation Committee, Chair (2004), Vice-Chair (2003, 2005)
- Library Committee, Vice-Chair (2005)
- Martin Luther King Junior Day Committee (2002-2006)
- Cultural Events Committee (2000-2003)
- Biology Search Committee (2002, 2006, 2007)
- Math Search Committee (2003)
- Sociology Search Committee (2003, 2004, 2005)

COMMUNITY INVOLVEMENT:

- USC Alumni Board Richland/ Lexington County: Cultural and Service Committees (2006- present)
- USC Alumni Board Symphony Committee, Co-Chair (2008 present)
- Speaker for Sumter League of Women's Voters (2008)
- Sumter Chamber of Commerce (2003- present)
- Columbia Dining with Friends HIV/AIDS fund raiser (2000- 2007)
- Sumter Earth Day Celebration Organizer (2002-2007)
- Focus the Nation Environmental Committee for Sumter (2007)
- Speaker at Alice Drive Baptist Church Sumter (2007)
- Speaker at Columbia Luncheon Group (2007)
- Willow Drive Science Outreach Program (2006)
- Speaker for Professional Educational Opportunities for Women Sumter Group (2006)
- Speaker at USC Sumter for Associates and Donors (2005)
- Columbia World Affairs Council (1998- 2005)
- Columbia Council for Internationals (2004, 2005)
- Presentations to three High Schools in Sumter County on Biotechnology and Genetics (2003)
- Sumter YWCA TWIN Luncheon Committee Vice-Chair (2003)
- USC Sumter New Student Orientation Program speaker (2002)
- Sumter Chamber of Commerce Education Committee (2001- 2004)
- USC Columbia Summer Program for High School Students Speaker on Blood Sampling (2001)
- Clarendon County High School Teacher of the Year Committee (2001)
- Judge for Professional Women on the USC Campus Outstanding Graduate Student (2000- 20003)

- Sumter WRJA Television Station Featured Speaker (2000)
- Women's Opportunity Fund Columbia (2000)
- USC Sumter Bicentennial Speaker on Diversity in India (2000)