

MARY A. BEDELL
Curriculum Vitae

Associate Professor
Department of Genetics
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EDUCATION

- 1977 B.A. Biomedical Sciences (with honors), Western Michigan University.
1990 Ph.D. Molecular Genetics and Cell Biology, University of Chicago. Thesis: A genetic analysis of the transforming functions of human papillomavirus type 18 [Dr. Laimonis A. Laimins, advisor].

PROFESSIONAL EXPERIENCE

- 1978 – 1983 Research Associate, Department of Pathology, Chemical Industry Institute of Toxicology, Research Triangle Park, NC.
1983 – 1984 Senior Research Associate, Institute for Toxicology, University of Mainz, Mainz, Federal Republic of Germany.
1990 – 1996 Postdoctoral Fellow, Mammalian Genetics Laboratory, ABL-Basic Research Program, NCI-Frederick Cancer Research and Development Center, Frederick, MD (Drs. Nancy A. Jenkins and Neal G. Copeland, mentors).
1996 - 2004 Assistant Professor, Department of Genetics, University of Georgia, Athens, GA.
2001 Visiting scientist, Life Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN. (2 months)
2002 - 2004 Adjunct Assistant Professor, Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA.
2004 - present Associate Professor, Department of Genetics, University of Georgia, Athens, GA.

TEACHING AWARDS

- 2012 - 2013 Senior Teaching Fellow, Center for Teaching and Learning, University of Georgia
2012 Member of Teaching Academy, University of Georgia
2014 Sandy Beaver Excellence in Teaching Award, Franklin College of Arts and Sciences, University of Georgia
2014 Certificate for greatly contributing to the career development of UGA students, The University of Georgia Career Center
2015 Certificate for greatly contributing to the career development of UGA students, The University of Georgia Career Center
2015 CTL Fellow for Innovative Teaching, Center for Teaching and Learning, Office of the Vice President for Instruction, University of Georgia
2016 Certificate for greatly contributing to the career development of UGA students, The University of Georgia Career Center
2016 Teacher of the Week, Center for Teaching and Learning, University of Georgia

PARTICIPATION IN TEACHING CONFERENCE

- 10/13 Undergraduate Faculty Genetics Education Workshop, American Society of Human Genetics, Boston, MA
10/16 Education Pre-Conference Workshops, THE ALLIED GENETICS CONFERENCE 2016 (TAGC), Genetics Society of America, Orlando, FL

SCIENCE EDUCATION RESEARCH

2014-present Participant, NSF, Division of Undergraduate Education, TUES, *Collaborative Research: Expanding a National Network for Automated Analysis of Constructed Response Assessments to Reveal Student Thinking in STEM*. UGA PI: Jennifer Kaplan, Statistics; Co-PI, Paula Lemons. Total amount to UGA: \$502,755.

COURSES TAUGHT (all at the University of Georgia)

Undergraduate

BIOL1107H General Biology Honors (Fall 2003, 1 credit, 100%)
BIOL1107 Principles of Biology I (Spring 2012, 3 credits, 25%; Spring 2013, Spring 2014, 3 credits, 50%)
FRES1010 Freshman Seminar (Fall 2005, Fall 2009, 1 credit, 100%)
FYOS First-Year Odyssey Seminar, "What makes us human?" (Fall 2016, 1 credit, 100%)
GENE3200 Genetics (Spring 2001 - Spring 2004, Fall 2009, Spring 2011, Summer 2011, Spring 2012, Summer 2015, 4 credits, 50%; Summer 2008, Fall 2008, Spring 2009, Summer 2009, Fall 2016, 4 credits, 100%; Fall 2009 - 2014 - two sections each semester, 4 credits, 100%; Fall 2015 - three sections, 67% credit)
GENE3200H Honors Genetics (Spring 2010, Spring 2013, 1 credit, 100%)
GENE4210L Molecular Genetics Lab (Spring 1999 – Spring 2003), 4 credits, 37% - 50%
GENE4200 Advanced Molecular Genetics (Fall 2006 - 2008, 3 credits, 50%)
GENE4220L Bioinformatics and Modeling Lab (Spring 2006, 3 credits, 50%)
GENE4500/6500 Human Genetics (Spring 2010, 2011, 2013 - 2016), 3 credits, 100%] *New course in 2010*
GENE4960 Senior Seminar in Genetics (Spring 2007, Winter 2008, Fall 2008, Fall 2001), 1 credit, 100%)

Graduate

GENE8930 Advanced Molecular Genetics (Spring 1998 – Spring 2006, Spring 2008, 2009), 3 credits, 17% - 25%)
GENE8970 Metazoan Genetics (Fall 1999, 2002, Spring 2005, 2007, 2009, 2011, 2 credits, 33% - 50%)
GENE8600 Grad Student Seminar (Fall 2008, Fall 2009, 1 - 2 credits, 100%)

Research Training of Undergraduates

21 students with Directed Research Projects (GENE4960, BIOL4960, GENE4960H)
2 CURO Apprentices – Nithya Natrajan (2005 – 2007), Natalie Nesmith (2008-1010)
6 Honors theses completed – Heather K. Jimenez (1998), Amber L. Menard (2001), F. Parker Hudson, III (2002), Patrick G. Pilie (2006), Cristina N. Budde (2006), Nithya M. Natrajan (2009)
Mentor for 2008 Goldwater recipient (Nithya M. Natrajan)
Honors thesis reader – Wei Wang (L. Wells, advisor, spring 2009); Katie MacDougal (J. Lauderdale, advisor, spring 2010), Muktha Natrajan (S. Stice, advisor, spring 2011), Wesley Howard (Z. Wood, advisor, spring 2012), Caroline Blatcher (J. Lauderdale, advisor, fall 2014)

Graduate Advisement as a Committee Member

1 M.S. completed
26 Ph.D. completed (Departments of Genetics, Cellular Biology, Biochemistry and Molecular Biology, and Animal and Dairy Sciences)

Graduate Advisement as Major Professor

Sripriya Rajaraman, completed Ph.D. in 2001, postdoctoral fellow 2003 – 2008 at

Stanford University School of Medicine, Stanford, CA. Currently Content Scientist at Ingenuity Systems, Redwood City, CA.
Aparna Mahakali Zama, completed Ph.D. in 2004, currently Research Associate, Department of Animal Sciences, Rutgers, The State University of New Jersey, New Brunswick, NJ.
Marly Roche-Rios, Ph. D. student (I was her major professor from Summer 2006 – Summer 2008, then she transferred to the Kushner lab when I closed my lab)

UNIVERSITY SERVICE

1997 Member, Search Committee for Director of Animal Resources, Franklin College of Arts and Sciences.
1998 Member, Search Committee for Vertebrate Developmental Biologist, Department of Cellular Biology.
1999 Poster Judge, First Annual Research Day, Department of Cellular Biology.
1998 - 1999 Organizer, Eukaryotic Model Organisms group.
1999 – 2001 Member, Biomedical Sciences and Health Initiative, Molecular Biology/Genetics Working Group.
2000 - 2003 Member, ARCS Foundation Scholarship Committee
2000 – 2003 Member, Graduate Council.
2001 – 2003 Member, Admissions and Retentions Committee, Graduate Council.
2000 – 2001 Faculty Senator, Franklin College of Arts and Sciences.
2000 – 2001 Member, Curriculum Committee, Franklin College of Arts and Sciences.
2001 – 2002 Member, Program Committee for the Paul D. Coverdell Building for the Biomedical and Health Sciences (BHSI).
2002 Member, Grants Preparation Team for NCRR Research Facilities Improvement Program (to support construction of a Core Rodent Barrier Facility in the Coverdell Building).
2002 Poster Judge, Graduate Student Presentations, Department of Biochemistry and Molecular Biology.
2004 – 2006 Member, Life Sciences Area Committee on Appointment and Reappointment, Graduate School.
2005 – 2006 Faculty Mentor, Honors Program
2007 – 2009 Member, University Research Animal Resources Committee, Office of the Vice President for Research
2008 Member, Selection committee for Mid-Term Foundation Fellows, Honors College
2008 Member, Selection committee for Goldwater Scholarship applicants, Honors Program
2008 - 2011 Basic Life Sciences Faculty Research Grants Committee, Office of the Vice President for Research
2009 – 2016 Member, Curriculum Committee, Division of Biological Sciences, Franklin College of Arts and Sciences
2010 Reviewer, Presidential Graduate Fellowship nominees, Graduate School
2013 - 2016 Member, Franklin Senate Curriculum Committee, Franklin College of Arts and Sciences.
2013 - present Faculty Senator, Franklin College of Arts and Sciences
2014 Invited Participant, Academic Affairs Faculty Symposium, University of Georgia Teaching Academy
2014-2016 Faculty Senate Curriculum Committee, Franklin College of Arts and Sciences
2014 - present Member, Franklin College Faculty Awards Committee
2015-2016 Chair, Franklin Senate Curriculum Committee, Franklin College of Arts and Sciences
2015 - present Research Scientist Promotion Committee, Office of the Vice President for Research
2016 President-elect, Franklin Senate, Franklin College of Arts and Sciences

DEPARTMENTAL SERVICE

- 1997 Co-organizer, Department Retreat.
1997 - 2004 Member, Undergraduate Affairs Committee.
1997 - 2004 Advisor for Genetics Majors.
1998 - 2004 Member, Space and Industrial Relations Committee.
1999 Member, Search Committee for Giles Professorship.
1999 Organizer, Department Retreat.
1999 Member, 10-year Plan Committee.
2001 – 2003 Co-organizer, Genetics Department Seminar Series.
2004 – 2008 Member, Graduate Affairs Committee.
2005 – 2008 Graduate Coordinator
2006 Co-chair, Search Committee for Faculty Position in Genetics of Complex Traits.
2009 – present Member, Undergraduate Affairs Committee.
2009 – present Advisor for Genetics Majors (32 advisees as of Spring 2016)
2010 – 2016 Chair, Undergraduate Affairs Committee
2012 – present Member, Executive Committee

FORMER GRANT SUPPORT

- 1/98 – 12/98 University of Georgia Research Foundation. “The Steel growth factor of mice: Molecular analysis of a large series of mutant alleles”.
7/98 – 6/02 National Science Foundation. (IBN-9728428) “Developmental consequences of mutations in the Steel growth factor of mice”.
6/99 – 5/02 National Institutes of Health. (HD37053, Denis Magoffin, P.I.) “Growth factor control of ovarian androgen biosynthesis”.
4/02 – 3/08 National Institutes of Health. (GM65393). "Genetic analysis of Kit ligand of mice". (with one-year no-cost extension)

PEER-REVIEWED PUBLICATIONS

- Bedell, M.A.**, J. G. Lewis, K. C. Billings, and J. A. Swenberg. 1982. Cell specificity in hepatocarcinogenesis: O⁶-methylguanine preferentially accumulates in target cell DNA during continuous exposure of rats to 1,2-dimethylhydrazine. *Cancer Res.* 42: 3079-3083.
Belinsky, S.A., **M. A. Bedell**, and J. A. Swenberg. 1982. Effect of chronic ethanol diet on the replication, alkylation and repair of DNA from hepatocytes and nonparenchymal cells following dimethylnitrosamine administration. *Carcinogenesis* 3: 1293-1297.
Lindamood, C., **M. A. Bedell**, K. C. Billings, and J. A. Swenberg. 1982. Alkylation and de novo synthesis of liver cell DNA from C3Hf mice during continuous dimethylnitrosamine exposure. *Cancer Res.* 42: 4153-4157.
Swenberg, J. A., **M. A. Bedell**, K. C. Billings, D. R. Umbenhauer, and A. E. Pegg 1982. Cell specific differences in O⁶-alkylguanine DNA repair activity during chronic carcinogen exposure. *Proc. Natl. Acad. Sci. USA* 79: 5499-5502.
Lindamood, C., **M. A. Bedell**, K. C. Billings, M. C. Dyroff, and J. A. Swenberg. 1983. O⁶-Alkylguanine acceptor protein activity in hepatocytes of C3H and C57Bl mice during dimethylnitrosamine exposure. *Chem. Biol. Interact.* 45: 382-386.
Lindamood, C., **M. A. Bedell**, K. C. Billings, M. C. Dyroff, and J. A. Swenberg. 1984. Dose response for DNA alkylation, ³H-thymidine uptake into DNA and O⁶-methylguanine-DNA methyltransferase activity in hepatocytes of rats and mice continuously exposed to dimethylnitrosamine. *Cancer Res.* 44: 196-200.
Swenberg, J. A., M. C. Dyroff, **M. A. Bedell**, J. A. Popp, N. Huh, U. Kirstein, and M. F. Rajewsky. 1984. O⁴-ethylthymidine, but not O⁶-ethylguanine, accumulates in DNA of hepatocytes of rats continuously exposed to diethylnitrosamine. *Proc. Natl. Acad. Sci. USA* 81: 1692-1695.

- Dyroff, M. C., F. Richardson, J. A. Popp, **M. A. Bedell**, and J. A. Swenberg. 1986. Correlation of O⁴-ethyldeoxythymidine accumulation, hepatic initiation and hepatocellular-carcinoma induction in rats continuously administered diethylnitrosamine. *Carcinogenesis* 7: 241-246.
- Bedell, M. A.**, K. H. Jones, and L. A. Laimins. 1987. The E6-E7 region of human papillomavirus type 18 is sufficient for transformation of NIH3T3 and Rat-1 cells. *J. Virol.* 61: 3635-3640.
- Gius, D., S. G. Grossman, **M. A. Bedell**, and L. A. Laimins. 1988. Inducible and constitutive enhancer domains in the noncoding region of human papillomavirus type 18. *J. Virol.* 62: 665-672.
- Bedell, M. A.**, K. H. Jones, S. J. Grossman, and L. A. Laimins. 1989. Identification of human papillomavirus type 18 transforming genes in immortalized and primary cells. *J. Virol.* 63: 1247-1255.
- Hudson, J. H., **M. A. Bedell**, D. J. McCance, and L. A. Laimins. 1990. Immortalization and altered differentiation of human keratinocytes in vitro by the E6 and E7 open reading frames of HPV-18. *J. Virol.* 64: 519-526.
- Rader, J. S., T. S. Golub, J. B. Hudson, D. Patel, **M. A. Bedell**, and L. A. Laimins. 1990. *In vitro* differentiation of epithelial cells from cervical neoplasias resembles *in vivo* lesions. *Oncogene* 5: 571-576.
- Bedell, M. A.**, J. H. Hudson, T. R. Golub, M. E. Turyk, M. Hosken, G. D. Wilbanks, and L. A. Laimins. 1991. Amplification of human papillomavirus genomes in vitro is dependent upon epithelial differentiation. *J. Virol.* 65: 2254-2260.
- Brannan, C. I., S. D. Lyman, D. E. Williams, J. Eisenman, D. M. Anderson, D. Cosman, **M. A. Bedell**, N. A. Jenkins, and N. G. Copeland. 1991. Steel-Dickie mutation encodes c-Kit ligand lacking transmembrane and cytoplasmic domains. *Proc. Natl. Acad. Sci. USA* 88: 4671-4674.
- Brannan, C. I., **M. A. Bedell**, J. L. Resnick, J. J. Eppig, M. A. Handel, D. E. Williams, S. D. Lyman, P. J. Donovan, N. A. Jenkins, and N. G. Copeland. 1992. Developmental abnormalities in *Steel*^{17H} mice result from a splicing defect in the steel factor cytoplasmic tail. *Genes Dev.* 6: 1832-1842.
- Allen, R. C., R. J. Armitage, M. E. Conley, H. Rosenblatt, N. A. Jenkins, N. G. Copeland, **M. A. Bedell**, S. Edelhoff, C. M. Disteche, D. K. Simoneaux, W. C. Fanslow, J. Belmont, and M. K. Spriggs. 1993. CD40 ligand gene defects responsible for X-linked hyper-IgM syndrome. *Science* 259: 990-993.
- Bedell, M. A.**, C. I. Brannan, E. P. Evans, N. G. Copeland, N. A. Jenkins, and P. J. Donovan. 1995. DNA rearrangements located over 100 kb 5' of the *Steel* (*Sl*) coding region in *Steel-panda* and *Steel-contrasted* mice deregulate *Sl* expression and cause female sterility by disrupting ovarian follicle development. *Genes Dev.* 9: 455-470 (**highlighted on cover**).
- Miyajima, I., L. Levitt, T. Hara, **M. A. Bedell**, N. G. Copeland, N. A. Jenkins, and A. Miyajima. 1995. The murine interleukin-3 receptor a subunit gene: chromosomal localization, genomic structure and promoter function. *Blood* 85: 1246-1253.
- Bedell, M. A.**, N. G. Copeland, and N. A. Jenkins. 1996. Multiple pathways for *Steel* regulation suggested by genomic and sequence analysis of the murine *Steel* gene. *Genetics* 142: 927-934.
- Bedell, M. A.**, L. S. Cleveland, T. N. O'Sullivan, N. G. Copeland, and N. A. Jenkins. 1996. Deletion and interallelic complementation analyses of *Steel* mutants. *Genetics* 142: 935-944.
- Bedell, M. A.**, N. A. Jenkins, and N. G. Copeland. 1996. Good genes in bad neighborhoods. *Nature Genetics* 12: 229-232. (**solicited review**).
- Nagasawa, M., K. Sakimura, K. J. Mori, **M. A. Bedell**, N. G. Copeland, N. A. Jenkins, and M. Mishina. 1996. Gene structure and chromosomal localization of the mouse NMDA receptor channel subunits. *Mol. Brain. Res.* 36: 1-11.
- Bedell, M. A.**, N. A. Jenkins, and N. G. Copeland. 1997. Mouse models of human disease: Part I: Techniques and resources for genetic analysis in mice. *Genes Dev.* 11: 1-10. (**solicited review**)

- Bedell, M. A.**, D. A. Largaespada, N. A. Jenkins, and N. G. Copeland. 1997. Mouse models of human disease. Part II: recent progress and future directions. *Genes Dev.* 11: 11-43. (*solicited review*).
- Sims, J. E., D. E. Williams, P. J. Morrissey, K. Garka, D. Foxworthe, V. Price, S.L. Friend, A. Farr, **M. A. Bedell**, N. A. Jenkins, N. G. Copeland, K. Grabstein, and R.J. Paxton. 2000. Molecular cloning and biological characterization of a novel murine lymphoid growth factor. *J Exp. Med.* 192:671-80.
- Rajaraman, S., W. S. Davis, A. Mahakali Zama, H.K. Evans, L. B. Russell and **M. A. Bedell**. 2002. An allelic series of mutations in the *Kit ligand (Kitl)* gene of mice. I. Identification of point mutations in seven ENU-induced *Kitl^{Steel}* alleles. *Genetics* 162:331-340.
- Rajaraman, S., W. S. Davis, A. Mahakali Zama, H.K. Evans, L. B. Russell and **M. A. Bedell**. 2002. An allelic series of mutations in the *Kit ligand (Kitl)* gene of mice. II. Effects of point mutations on survival and peripheral blood cells of *Kitl^{Steel}* mice. *Genetics* 162:341-353.
- Rajaraman, S., K. Wood, D. Willhite, L. B. Russell and **M. A. Bedell**. 2003. Severe effects of spontaneous *Kitl^{Steel}* mutations on survival and anemia of mice. *Mamm Genome* 14:168-74.
- Bedell, M. A.** and A. Mahakali Zama. (2004) Genetic analysis of Kit ligand functions during mouse spermatogenesis. *Journal of Andrology* 25:188 - 199 (*solicited review*).
- Mahakali Zama, A., F. P. Hudson, III, and **M. A. Bedell**. (2005) Analysis of hypomorphic *Kitl^{Sl}* mutants suggests different requirements for KITL in proliferation and migration of mouse primordial germ cells. *Biol Repro* 73:639-647 (*highlighted on cover*). *Faculty of 1000 Article Factor 6*
- Guenther, C.A., B. Tasic, L. Luo, **M. A. Bedell**, and D. M. Kingsley (2014). A molecular basis for classic blond hair color in Europeans. *Nature Genetics* 46: 748 – 752.
- Pelletreau, K.N., T. Andrews, N. Armstrong, **M. A. Bedell**, F. Dastoor, N. Dean, S. Erster, C. Fata-Hartley, N. Guild, H. Greig, D. Hall, J. K. Knight, D. Koslowsky, P. P. Lemons, J. Martin, J. McCourt, J. Merrill, R. Moscarella, R. Nehm, R. Northington, B. Olsen, L. Prevost, J. Stoltzfus, M. Urban-Lurain, M. K. Smith. A clicker-based case study that untangles student thinking about the processes in the central dogma (*submitted to CourseSource*)

BOOK

- Justice, M. and **M. Bedell** (Eds.) 2004. Mutagenesis of the Mouse Genome. Georgia Genetics Review. Vol 2. Kluwer Academic Publishers, Dordrecht, The Netherlands.

PARTICIPATION IN SCIENTIFIC MEETINGS

- 6/87 Sixth International Papillomavirus Workshop (talk). Washington, DC.
- 6/89 Molecular Mechanisms of Carcinogenesis, FASEB Summer Research Conference (poster). Copper Mountain, CO.
- 8/90 Mouse Molecular Genetics. Cold Spring Harbor, NY.
- 8/91 Mouse Molecular Genetics (talk). Heidelberg, Germany.
- 6/93 Gordon Research Conference on Developmental Biology (poster). Andover, NH.
- 7/93 FASEB Summer Research Conference on Cellular and Molecular Genetics (poster). Copper Mountain, CO.
- 7/94 Gordon Research Conference on Mammalian Gametogenesis and Embryogenesis (poster). New London, NH.
- 8/94 Mouse Molecular Genetics (talk). Cold Spring Harbor, NY.
- 11/94 The Germ Line (*invited panel participant*). Bethesda, MD.
- 7/95 Human Molecular Genetics, Gordon Research Conference (poster). Newport, RI.
- 3/97 Germ Cell Differentiation, Keystone Symposia on Molecular and Cellular Biology (*invited speaker*). Frisco, CO.

- 5/98 SE Regional Meeting of the Society of Developmental Biology (*invited speaker*). Atlanta, GA.
9/98 Mouse Molecular Genetics (poster). Cold Spring Harbor, NY.
11/99 13th International Mouse Genome Conference (talk), Philadelphia, PA.
5/00 SE Regional Meeting of the Society of Developmental Biology (*invited speaker*). Amicolola State Park, GA.
9/00 Mutagenesis of the Mouse Genome (*meeting co-organizer*). Athens, GA.
9/01 SW Regional Meeting of the Society of Developmental Biology (*invited speaker*). New Orleans, LA.
5/02 SE Regional Meeting of the Society of Developmental Biology (*invited speaker*). Gatlinburg, TN.
5/03 XVIIth Testis Workshop, Functional Genomics of Male Reproduction (*invited speaker*). Phoenix, AZ.
8/03 Gordon Conference on Human Genetics and Genomics (*invited speaker*). Waterville, ME.
10/04 Meeting on Germ Cells, CSHL, Cold Spring Harbor, NY. (talk)
6/05 SE Regional Meeting of the Society of Developmental Biology (*meeting co-organizer*). Athens, GA
7/05 39th Annual Meeting of the Society for the Study of Reproduction, Quebec City, Canada
11/07 Annual Biomedical Research Conference for Minority Students, Austin, TX

INVITED SEMINARS

- 9/94 Department of Pediatrics, Indiana Univ. School of Medicine. Indianapolis, IN.
12/94 Axelrod Institute, Wadsworth Center for Laboratories and Research, Albany, NY.
3/95 Department of Molecular, Cellular and Developmental Biology, University of Colorado, Boulder, CO.
9/95 Fox Chase Cancer Center, Philadelphia, PA.
1/96 Department of Microbiology-Immunology, Northwestern University Medical School, Chicago, IL.
2/96 Department of Pathology, College of Medicine and H. Lee Moffitt Cancer Center and Research Institute, University of South Florida, Tampa, FL.
3/96 Department of Physiology and Center for Studies in Reproduction, University of Maryland School of Medicine, Baltimore, MD.
4/96 Department of Genetics, University of Georgia, Athens, GA.
4/96 Department of Cell Biology and Neuroanatomy and the Institute of Human Genetics, University of Minnesota, Minneapolis, MN.
2/97 Department of Pharmacology & Toxicology, University of Georgia, Athens, GA.
4/97 Department of Cellular Biology, University of Georgia, Athens, GA.
4/97 Department of Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA.
6/97 Institute of Molecular Medicine and Genetics, Developmental Biology Program, Medical College of Georgia, Augusta, GA.
1/98 Department of Biology, Georgia Southern University, Statesboro, GA.
4/98 Center for Research on Reproduction and Women's Health, University of Pennsylvania Medical Center, Philadelphia, PA.
5/98 Genetics Department, Washington University School of Medicine, St. Louis, MO.
1/99 Department of Cell Biology and Anatomy, Louisiana State University Medical School, New Orleans, LA.
5/99 Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA.
7/99 Biology Division, Oak Ridge National Laboratories, Oak Ridge, TN.
1/00 Department of Genetics, University of Washington, Seattle, WA.
1/00 Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, FL.
11/01 Department of Biochemistry, University of Georgia, Athens, GA.

- 11/01 Department of Biochemistry, Cell and Molecular Biology, University of Tennessee, Knoxville, TN.
4/02 Institute of Molecular Medicine and Genetics, Program in Cell Signaling, Medical College of Georgia, Augusta, GA.
3/03 Section of Molecular Genetics and Microbiology, University of Texas at Austin, Austin, TX.
3/06 Dept. of Biochemistry & Molecular Biology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD (cancelled, to be rescheduled)
11/07 LSU-Tulane Cancer Center, New Orleans, LA.

PROFESSIONAL SERVICE

Review of Manuscripts

1995 – 2009 *Biology of Reproduction, BMC Developmental Biology, Cancer Research, Development, Developmental Biology, Developmental Dynamics, Genes & Development, Genesis: The Journal of Genetics and Development, Genetics, Genome Research, Genomics, Journal of Cell Biology, Journal of Heredity, Mammalian Genome, Mechanisms of Development, Nature Genetics, PLoS Genetics, Proceedings of the National Academy of Sciences, Reproduction, Reproductive Biology and Endocrinology.*

Grant Review Panels

- 2001 Member. Special Emphasis Panel; Reproductive Genomics, NIH.
2003 – 2004 *Ad hoc* member. Reproductive Biology Study Section (REB), NIH.
2004 *Ad hoc* member. Cellular, Molecular, and Integrative Reproduction Study Section (CMIR), NIH.
2007 Member. Special Emphasis Panel; Reproductive Genomics, NIH.
2004 – 2008 Regular member. Cellular, Molecular, and Integrative Reproduction Study Section (CMIR), NIH
2008 Member. Special Emphasis Panel; Endocrinology, Metabolism, Nutrition and Reproductive Sciences, NIH
2011 Declined invitation to be *ad hoc* member of Cellular, Molecular, and Integrative Reproduction Study Section (CMIR), NIH.

Textbook Reviews

- 2003 *Genetics: From Genes to Genomes* (Hartwell et al., 2nd edition, McGraw-Hill)
2011 *Genetics: From Genes to Genomes* (Hartwell et al., 4th edition, McGraw-Hill)
Genetic Analysis: An Integrated Approach (Sanders and Bowman, Pearson)
2016 *Concepts of Genetics* (Klug et al., 11th edition, Pearson)

Review of Textbook Proposals

- 2011 *Recombination and Repair of Broken Chromosomes* (Garland Science)

Review of Textbook Supplemental Material

- 2014 *Genetics: A Conceptual Approach* (B. A. Pierce, 5th edition, W. H. Freeman and Company)