Curriculum Vitae

Stephen M. Mount

Department of Cell Biology and Molecular Genetics
H. J. Patterson Hall
University of Maryland
College Park, MD 20742-5815

301-405-6934 (alternate 301-405-9904)
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SteveMount.org

Birth and Citizenship Feb. 13, 1958 in Bellefonte, PA (U.S. citizen)

Home Address: 4408 Van Buren St.
University Park, MD 20782-1121
Married: Janet Chernela, Anthropologist

Education

Rice University, Houston, Texas
B.A., Biochemistry Magna cum laude 1978

Yale University, New Haven, CT
M.Phil., Molecular Biophysics and Biochemistry, 1980
Ph.D. Molecular Biophysics and Biochemistry, 1983
Thesis title: Involvement of U1 small nuclear RNA-protein complexes in splicing

Academic and Research Positions:

Research technician, Dept. of Cell Biology, 1978
Baylor College of Medicine and HHMI, Houston, TX
Laboratory of Dr. Savio Woo

Graduate Student, NSF Predoctoral Fellow 1978-83
Molecular Biophysics and Biochemistry,
Yale University, New Haven, CT
Laboratory of Dr. Joan A. Steitz

NIH Postdoctoral Fellow 1983-1986
Biochemistry, University of California, Berkeley, CA
Laboratory of Dr. Gerald M. Rubin

Assistant & Associate Professor 1986-1994
Department of Biological Sciences
Columbia University, New York, NY

University of Maryland, College Park, MD:

Associate Professor, Department of Zoology 1995-1997
Associate Professor, Department of Cell Biology and Molecular Genetics 1997-present

Affiliate Associate Professor, Dept. of Biology 1997-present

Associate Director, Center for Bioinformatics and Computational Biology 2003-2009

Investigador Colaborador, Eyras laboratory 10/2009-12/2009
Research Unit on Biomedical Informatics, Universitat Pompeu Fabra, PRBB, Barcelona, Catalonia, Spain

Visiting Associate Professor, Moult laboratory 6/2009 – 3/2010
Center for Advanced Research in Biotechnology, University of Maryland Biotechnology Institute

Publications

Full papers in refereed journals:

1. Lerner, M.R., J.A. Boyle, S.M. Mount, S.L. Wolin and J.A. Steitz. 1980. Are snRNPs involved in splicing? Nature **230:** 220-224.

2. Dingermann, T., S. Sharp, B. Appel, D. DeFranco, S.M. Mount, R. Heiermann, O. Pongs and D. Soll. 1981. Transcription of cloned tRNA and 5S RNA genes in a *Drosophila* cell free extract. Nucleic Acids Res. **9:** 3907-3918.

3. Mount, S.M. and J.A. Steitz. 1981. Sequence of U1 RNA from *Drosophila melanogaster*: Implications for U1 secondary structure and possible involvement in splicing. Nucleic Acids Res. **9:** 6351-6368.

4. Mount, S.M. 1982. A catalogue of splice junction sequences. Nucleic Acids Res. **10:** 459-472.

5. Bernstein, L.B., S.M. Mount and A.M. Weiner. 1983. Psuedogenes for human small nuclear RNA U3 appear to arise by integration of self-primed reverse transcripts of the RNA into new chromosomal sites. Cell **32:** 461-472.

6. Mount, S.M., I. Pettersson, M. Hinterberger, A. Karmas, and J.A. Steitz. 1983. The U1 small nuclear RNA-Protein complex selectively binds a 5' splice site in vitro. Cell **33:** 509-518.

7. Padgett, R., S.M. Mount, J.A. Steitz and P. Sharp. 1983. Splicing of messenger RNA precursors is inhibited by antisera to small nuclear ribonucleoprotein. Cell **35:** 101-107.

8. Mount, S.M. and G.M. Rubin. 1985. Complete nucleotide sequence of the *Drosophila* transposable element *copia*: homology between *copia* and retroviral proteins. Mol. Cell. Biol. **5:** 1330-1338.

9. Mount, S.M., M.M. Green and G.M. Rubin. 1988. Partial revertants of the transposable element-associated suppressible allele *white-apricot* in *Drosophila melanogaster*: Structures and responsiveness to genetic modifiers. Genetics **118:** 221-234.

10. Pepling, M.E. and S.M. Mount. 1990. Sequence of a cDNA from the *Drosophila melanogaster white* gene. Nucleic Acids Res. **18:** 1633.

11. Mancebo, R., P.C.H. Lo and S.M. Mount. 1990. Structure and expression of the *Drosophila melanogaster* gene for the U1 small nuclear ribonucleoprotein particle 70K protein. Mol. Cell. Biol. **10:** 2492-2502.

12. Peng, X. and S.M. Mount. 1990. Characterization of *Enhancer-of-white-apricot* in

Drosophila melanogaster. Genetics **126:** 1061-1069.

13. Lo, P.C.H. and S.M. Mount. 1990. *Drosophila melanogaster* genes for U1 snRNA variants and their expression during development. Nucleic Acids Res. **18:** 6971-6979.

14. Kurkulos, M., J.M. Weinberg, M.E. Pepling and S.M. Mount. 1991. Polyadenylation in *copia* requires unusually distant upstream sequences. Proc. Natl. Acad. Sci. USA **88:** 3038-3042.

15. Mount, S.M., C. Burks, G. Stormo, J. Hertz and C. Fields. 1992. Splicing signals in *Drosophila*: intron size, information content, and consensus sequences. Nucleic Acids Res. **20:** 4255-4262.

16. Guo, M., P. C. H. Lo and S.M. Mount. 1993. Species-specific signals for the splicing of a short *Drosophila* intron in vitro. Mol. Cell. Biol. **13:** 1104-1118.

17. Kurkulos, M., J. M. Weinberg, D. Roy, and S.M. Mount. 1994. *P* element mediated in vivo deletion analysis of *white-apricot*: deletions between direct repeats are strongly favored. Genetics **136**: 1001-1011.

18. Lo, P., D. Roy, and S. M. Mount. 1994. Suppressor U1 snRNAs in *Drosophila melanogaster*. Genetics **138**: 365-378.

19. Guo, M. and S. M. Mount. 1995. Localization of sequences required for size-specific splicing of a small *Drosophila* intron in vitro. J. Mol. Biol. **253**: 426-437.

20. Peng, X. and S. M. Mount. 1995. Genetic enhancement of RNA-processing defects by a dominant mutation in *B52*, the *Drosophila* gene for an SR protein splicing factor. Mol. Cell. Biol. **15**: 6273-6282.

21. Adams, M. D., S. E. Celniker, R. A. Holt, C. A. Evans, J. D. Gocayne, P. G. Amanatides, S. E. Scherer, P. W. Li, R. A. Hoskins, R. F. Galle, R. A. George, S. E. Lewis, S. Richards, M. Ashburner, S. N. Henderson, G. G. Sutton, J. R. Wortman, M. D. Yandell, Q. Zhang, L. X. Chen, R. C. Brandon, Y. H. Rogers, R. G. Blazej, M. Champe, B. D. Pfeiffer, K. H. Wan, C. Doyle, E. G. Baxter, G. Helt, C. R. Nelson, G. L. Gabor Miklos, J. F. Abril, A. Agbayani, H. J. An, C. Andrews-Pfannkoch, D. Baldwin, R. M. Ballew, A. Basu, J. Baxendale, L. Bayraktaroglu, E. M. Beasley, K. Y. Beeson, P. V. Benos, B. P. Berman, D. Bhandari, S. Bolshakov, D. Borkova, M. R. Botchan, J. Bouck, P. Brokstein, P. Brottier, K. C. Burtis, D. A. Busam, H. Butler, E. Cadieu, A. Center, I. Chandra, J. M. Cherry, S. Cawley, C. Dahlke, L. B. Davenport, P. Davies, B. de Pablos, A. Delcher, Z. Deng, A. D. Mays, I. Dew, S. M. Dietz, K. Dodson, L. E. Doup, M. Downes, S. Dugan-Rocha, B. C. Dunkov, P. Dunn, K. J. Durbin, C. C. Evangelista, C. Ferraz, S. Ferriera, W. Fleischmann, C. Fosler, A. E. Gabrielian, N. S. Garg, W. M. Gelbart, K. Glasser, A. Glodek, F. Gong, J. H. Gorrell, Z. Gu, P. Guan, M. Harris, N. L. Harris, D. Harvey, T. J. Heiman, J. R. Hernandez, J. Houck, D. Hostin, K. A. Houston, T. J. Howland, M. H. Wei and C. Ibegwam Jalali M, Kalush F, G. H Karpen, Ke Z, Kennison JA, Ketchum KA, Kimmel BE, Kodira CD, Kraft C, Kravitz S, Kulp D, Lai Z, Lasko P, Lei Y, Levitsky AA, Li J, Li Z, Liang Y, Lin X, Liu X, Mattei B, McIntosh TC, McLeod MP, McPherson D, Merkulov G, Milshina NV, Mobarry C, J. Morris, A. Moshrefi, S.M. Mount, M. Moy, L. Murphy, B. Murphy, D.M. Muzny, Nelson DL, Nelson DR, Nelson KA, Nixon K, Nusskern DR, Pacleb JM, Palazzolo M, Pittman GS, Pan S, Pollard J, Puri V, Reese MG, Reinert K, Remington K, Saunders RD, Scheeler F, Shen H,

Shue BC, Siden-Kiamos I, Simpson M, Skupski MP, Smith T, Spier E, Spradling AC, Stapleton M, Strong R, Sun E, Svirskas R, Tector C, Turner R, Venter E, Wang AH, Wang X, Wang ZY, Wassarman DA, Weinstock GM, Weissenbach J, Williams SM, Woodage T, Worley KC, Wu D, Yang S, Yao QA, Ye J, Yeh RF, Zaveri JS, Zhan M, Zhang G, Zhao Q, Zheng L, Zheng XH, Zhong FN, Zhong W, Zhou X, Zhu S, Zhu X, H.O. Smith, R.A. Gibbs, E.W. Myers, G.M. Rubin, and J. C. Venter. 2000. The genome sequence of Drosophila melanogaster. Science **287**:2185-2195.

22. Mount, S.M. and H.K. Salz. 2000. Pre-messenger RNA processing factors in the Drosophila genome. J. Cell Biol. **150**:F37-F43.

23. Mount, S.M. and C. Chang. 2002. Evidence for a plastid origin of plant ethylene receptor genes. Plant Physiol. **130**:10-14..

24. Dehal P, Satou Y, Campbell RK, Chapman J, Degnan B, De Tomaso A, Davidson B, Di Gregorio A, Gelpke M, Goodstein DM, Harafuji N, Hastings KE, Ho I, Hotta K, Huang W, Kawashima T, Lemaire P, Martinez D, Meinertzhagen IA, Necula S, Nonaka M, Putnam N, Rash S, Saiga H, Satake M, Terry A, Yamada L, Wang HG, Awazu S, Azumi K, Boore J, Branno M, Chin-Bow S, DeSantis R, Doyle S, Francino P, Keys DN, Haga S, Hayashi H, Hino K, Imai KS, Inaba K, Kano S, Kobayashi K, Kobayashi M, Lee BI, Makabe KW, Manohar C, Matassi G, Medina M, Mochizuki Y, Mount S, Morishita T, Miura S, Nakayama A, Nishizaka S, Nomoto H, Ohta F, Oishi K, Rigoutsos I, Sano M, Sasaki A, Sasakura Y, Shoguchi E, Shin-i T, Spagnuolo A, Stainier D, Suzuki MM, Tassy O, Takatori N, Tokuoka M, Yagi K, Yoshizaki F, Wada S, Zhang C, Hyatt PD, Larimer F, Detter C, Doggett N, Glavina T, Hawkins T, Richardson P, Lucas S, Kohara Y, Levine M, Satoh N and Rokhsar DS 2002. The draft genome of Ciona intestinalis: insights into chordate and vertebrate origins. Science **298**:157-67.

25. Nagengast, A.A., Stitzinger, S.M., Tseng, C.-H., Mount, S.M. and H.K. Salz. 2003. *Sex-lethal* splicing autoregulation *in vivo*: Interactions between SEX-LETHAL, the U1 snrRNPand U2AF underlie male exon skipping. Development. **130**:463-71.

26. Haas, BJ, Delcher, AL, Mount, SM, Wortman, JR, Smith, RK Jr, Hannick, LI, Maiti, R, Ronning. CM, Rusch, DB, Town, CD, Salzberg SL and O. White. 2003. Improving the Arabidopsis genome annotation using maximal transcript alignment assemblies. Nucleic Acid Res. **31**: 5654-66.

27. Roberts, M, Hayes, W, Hunt BR, Mount SM, and JA Yorke 2004. Reducing storage requirements for biological sequence comparison. Bioinformatics **12**: 3363-9

28. Salz HK, Mancebo RS, Nagengast AA, Speck O, Psotka M, Mount SM. 2004. The Drosophila U1-70K Protein Is Required for Viability, but Its Arginine-Rich Domain Is Dispensable. Genetics **168**: 2059-65.

29. Campbell MA, Haas BJ, Hamilton JP, Mount SM and Buell CR. 2006. Comprehensive analysis of alternative splicing in rice and comparative analyses with Arabidopsis. BMC Bioinformatics **7:** 327.

30. Mount SM, Gotea V, Lin CF and Makałowski W. 2007. Spliceosomal small nuclear RNA genes in 11 insect genomes. RNA **13:** 5-14.

31. Pertea M, Mount SM and Salzberg SL. 2007. A computational survey of candidate exonic

splicing enhancer motifs in the model plant Arabidopsis thaliana. BMC Bioinformatics 8:159.

32. Dogan RI, Getoor L, Wilbur WJ and Mount SM. 2007. SplicePort -- an interactive splice site analysis tool. Nucleic Acids Res. 35:W285-91.

33. Dogan RI, Getoor L, Wilbur WJ and Mount SM. 2007. Features generated for computational splice-site prediction correspond to functional elements. BMC Bioinformatics 8:410.

34. Drosophila 12 Genomes Consortium 2007. Evolution of genes and genomes on the Drosophila phylogeny. Nature 450:203-218.

35. Ming R, Hou S, Feng Y, Yu Q, Dionne-Laporte A, Saw JH, Senin P, Wang W, Ly BV, Lewis KL, Salzberg SL, Feng L, Jones MR, Skelton RL, Murray JE, Chen C, Qian W, Shen J, Du P, Eustice M, Tong E, Tang H, Lyons E, Paull RE, Michael TP, Wall K, Rice DW, Albert H, Wang ML, Zhu YJ, Schatz M, Nagarajan N, Acob RA, Guan P, Blas A, Wai CM, Ackerman CM, Ren Y, Liu C, Wang J, Wang J, Na JK, Shakirov EV, Haas B, Thimmapuram J, Nelson D, Wang X, Bowers JE, Gschwend AR, Delcher AL, Singh R, Suzuki JY, Tripathi S, Neupane K, Wei H, Irikura B, Paidi M, Jiang N, Zhang W, Presting G, Windsor A, Navajas-Pérez R, Torres MJ, Feltus FA, Porter B, Li Y, Burroughs AM, Luo MC, Liu L, Christopher DA, Mount SM, Moore PH, Sugimura T, Jiang J, Schuler MA, Friedman V, Mitchell-Olds T, Shippen DE, dePamphilis CW, Palmer JD, Freeling M, Paterson AH, Gonsalves D, Wang L, Alam M.. 2008. The draft genome of the transgenic tropical fruit tree papaya (*Carica papaya* Linnaeus) Nature 452:991-996.

36. Zhang XN and Mount SM 2009. Two Alternatively Spliced Isoforms of the Arabidopsis SR45 Protein Have Distinct Roles during Normal Plant Development. Plant Physiol. 150:1450-1458.

37. Lin CF, Mount SM., Jamolowski A and Makalowski W 2010. Evolutionary Dynamics of U12-type spliceosomal introns. BMC Evol. Biol. 10:47-57.

Chapters in books or symposium volumes:

1. Lerner, M.R., J.A. Boyle, S.M. Mount, J.L. Weliky, S.L. Wolin and J.A. Steitz. 1980. Structure and conservation of small ribonucleoprotein complexes in eukaryotic cells. In RNA polymerase, tRNA and ribosomes: Their genetics and evolution. S. Osawa, H. Ozeki, H. Uchida and T. Yura, Eds. University of Tokyo Press, Tokyo, Japan, 299-311.

2. Hendrick, J.P., S.M. Mount, J. Rinke, S.L. Wolin, M.D. Rosa, E. Gottlieb, M.R. Lerner and J.A. Steitz. 1981. Small RNPs in eukaryotic cells, In Proceedings of the Ozarks Transmethylation Conference. Oct. 1981, St. Louis, MO.

3. Mount, S.M. and J.A. Steitz. 1983. Signals for the splicing of eukaryotic messenger RNA transcripts. In Methods of DNA and RNA Splicing, S. Weissman, Ed. (Praeger:New York).

4. Mount, S.M. and J.A. Steitz. 1984. RNA Splicing and the involvement of small ribonucleoproteins. In Modern Cell Biology, B. Satir, Ed. (Alan R. Liss: New York).

5. Steitz, J.A., S.L. Wolin, J. Rinke, I. Pettersson, S.M. Mount, E.A. Lerner, M. Hinterberger and E. Gottlieb. 1983. Small ribonucleoproteins from eukaryotes: structure and roles in

RNA biogenesis. Cold Spring Harbor Symp. Quant. Biol. **47:** 893-900.

6. Mount, S. M.. 1992. Diversity among *Drosophila* transposable elements and in their effects on gene expression. In Mechanisms of Eukaryotic DNA Recombination, M. E. Gottesman and H. Vogel, eds.. Academic Press, San Diego. pp. 99-112.

7. Mount, S. M.. 1993. Messenger RNA splicing signals in *Drosophila* genes. In An Atlas of *Drosophila* Genes, G. Maroni, ed.. Oxford University Press.

8. Mount, S. M.. 1999. Messenger RNA splicing signals. in Encyclopedia of Life Sciences, http://www.macmillan-reference.co.uk/Science/EmbryonicELS.htm.. Macmillan Reference Ltd..

9 Hochheiser, H., Baehrecke, E., Mount, S. M. and B. Shneiderman 2003. Dynamic Querying for Pattern Identification in Microarray and Genomic Data. 2003 IEEE Conference on Multimedia. Paper: SS-L12.2.

10. Mount, S. M.. "2005. Exonic Splicing Enhancers and Exonic Splicing Silencers," in The Encyclopedia of Genetics, Genomics, Proteomics and Bioinformatics. S. Salzberg, editor. http://www.wiley.com//legacy/wileychi/ggpb/toc4.html.

Reviews, commentary, book reviews, etc.:

1. Mount, S.M. and J.A. Steitz. 1983. Lessons from mutant globins. Nature (News and Views) **303:** 380.
2. Mount, S.M. 1983. Sequences that signal where to splice. Nature (News and Views) **305:** 309.

3. Mount, S. M.. 1987. Sequence similarity (a letter to the "correspondence" section of Nature pointing out that the sequence of the protein product of the *Drosophila white* gene suggests that it belongs to a class of ATP-dependent transport proteins including the multiple-drug-resistance P glycoproteins). Nature **325**:487.

4. Mount, S. M. and Robins, D.M. 1990. (a review of the book "Mobile DNA"). American Scientist **78**: 378.

5. Mount, S. M. and S. Henikoff. 1993. Nested genes take flight. Current Biology **3**: 372-374.

6. Mount, S. M., X. Peng and E. Meier. 1995. Some nasty little facts to bear in mind when predicting splice sites. DIMACs Gene-finding and Gene Structure Prediction Workshop. Philadelphia.

7. Mount, S. M. 1996. AT-AC Introns: An ATtACk on dogma. Science (Perspectives) **271**: 1690-1692.

8. Mount, S. M. 1996. Book Review: *Pre-mRNA Processing*, A. Lamond, ed. RNA **2:** 393-394.

9. Peculis, B. A. and S. M. Mount. 1996. Ribosomal RNA: small nucleolar RNAs make their mark. Current Biology **6**: 1413-1415.

10. Mount, S. M. 1997. Genetic depletion reveals an essential role for an SR protein splicing factor in vertebrate cells. Bioessays **19**: 189-192.

11. Woodson, S. and S. M. Mount. 1999. Book Review. *The RNA World*, second edition, edited by R. Gesteland, T.R. Cech and J. F. Atkins. RNA **5**: 1133-1134.

12. Mount SM 2000. Genomic sequence, splicing, and gene annotation. Amer. J. Human. Genet. **67**:788-792.

13. Mount S.M. and P. Anderson. 2000. Expanding the definition of informational suppression. Trends Genet. **16**:157.

14. Mount SM 2002. Invited review of three books on bioinformatics. Q. Rev. Biol. **77**: 201-202.

Abstracts (selected invited presentations since 2000 only):

Mount, S.M. 2000. Some nasty facts about pre-mRNA splicing, genefinding and gene annotation. Fourth Annual Conference on Computational Genomics. Invited plenary talk.

Mount, S.M., Dogan, R.I. and Getoor, L.. 2008 "Visualizing the Weakest Links: Nucleotides Vulnerable to Mutations that Affect Splicing". Alternative Splicing Special Interest Group Meeting. ISMB. Toronto 2008.

Chernela, Janet M. and Mount, S.M. 2009 "Marrying Back: Self-Interest in Grandmothering in the Northwest Amazon". in "The Grandmother Hypothesis in Lowland South America", 53rd International Congress of Americanists. Mexico City, Mexico, July 24, 2009.

Internet:

Mount, S.M."On Genetics." A web log on genetics, genomics and gene expression. <ongenetics.blogspot.com/><ongenetics.org>

Mount, S.M."News on Genetics." Brief posts on genetics and genomics, highlighting new results, good writing and important ideas. <newsongenetics.blogspot.com/>.
A member of Medpedia News and Analysis (medpedia.com/news_analysis).

Mount, S.M. "On Genes." A web log on Nature Network devoted to genes, genetics, gene expression and bioinformatics. <network.nature.com/blogs/user/smount>

Mount, S.M. 2005 "Croes are not exactly exons" <http://stevemount.com/Posting0003.html>

Mount, S.M. 2005 "blastn parameters for noncoding queries" <http://stevemount.com/Posting0004.html>

SplicePort: An Interactive Splice Site Analysis Tool <http://spliceport.org>

Speaking engagements (selected invited presentations since 2000 only)

Arabidopsis Minisymposium, University of Maryland regional meeting. March 3, 2001
"Pre-mRNA splicing signals and pre-m-RNA splicing factors in the *Arabidopsis* genome"

Atlantic Symposium on Computational Biology and Genome Information Systems and Technology. Durham, North Carolina Mar. 15-17, 2001
"Genome Annotation: Some Nasty Facts from the pre-mRNA Splicing Field"

Symposium in Honor of Joan Steitz, Yale University, New Haven, CT June 23, 2001
"Two decades of pre-mRNA splcing bioinformatics"

Wesleyan University Nov. 6, 2003
"Genetic Approaches to Understanding pre-mRNA Splice Site Selection"

Drosophila Encode Workshop Dec. 5. 2004
"methods for identification of functional DNA elements related to alternative splicing in *Drosophila*

Dept. of Cell and Molecular Biology, Uppsala University, Uppsala, Sweden Jan. 29, 2009
"Spliceosomal RNA genes and the minor spliceosome: insights from Drosophila"

NIH RNA Club Nov. 3, 2009
"SNPs Affecting Splicing"

Editorial boards and related activity

BMC Molecular Biology editorial board	2004-present
BMC Molecular Biology Associate editor	2008-present
Medpedia (medpedia.com), editor	2009-present

Instruction at the University of Maryland:

MOCB630	Eukaryotic Molecular Genetics	20-34 students	1995-2004
Undergraduate research (various course numbers)		30 altoghether	1995-present
ZOOL446	Molecular Genetics	14-37 students	1995-2004
BSCI410	Molecular Genetics	42-96 students	2005-present
CBMG688I	Adv. Genetics (Grad. core course)	24-40 students	

Students who have received advanced degrees under my supervision:

Maryellen Kurkulos	Columbia University	PhD Fall of '93
Patrick Lo	Columbia University	PhD Spring '94
Ming Guo	Columbia University	PhD Fall '94
Ricardo Mancebo	Columbia University	PhD Spring '95
Ching-Hsiu Tseng	University of Maryland	M.S. Fall '99
Priti Dalal Kumar	University of Maryland	M.S. Spring 2000
Vinayaka Kotraiah	University of Maryland	PhD Fall 2000
Jason Edmonds	University of Maryland	PhD Summer 2007

In addition, I served on the thesis committees of 63 students at Maryland since 1995 (in Animal Sciences (2); Applied Mathematical Sciences (1); Biochemistry (7); Biology (11); Cell Biology and Molecular Genetics (12); Chemistry (5); Computer Science (6); Molecuar and Cellular Biology (14); Mathematics (1); and Natural Resources (1) Zoology (2);and Natural Resources (1))

Theses elsewhere for which I served an advisory role:

Chiao-Feng Lin, Ph.D., Biology, Pennsylvania State University. June 2008
"Evolutionary Dynamics of the U12-Type Spliceosomal Introns in Multicellular Organisms"
served as external committee member

Pontus Larsson, Ph.D., Biology, Uppsala University, January, 2009
"Computational Approaches to the Identification and Characterization of Non-Coding RNA Genes" served as "opponent"

Service
Professional and public:

Professional Organizations:

American Association for the Advancement of Science	1986-
Genetics Society of America	1986-
American Society for Microbiology	1987-
RNA Society	1995-
"Fly Board" (Board of Directors, National Drosophila)	1998-2002
Treasurer	2000-2002
International Society for Computational Biology	2001-
American Society of Plant Biologists	2002-
Chair, Mid-Atlantic Section	2008-2010

Reviewing activities:

Grants and fellowships reviewed:

NSF – ad hoc reviews and ad hoc member of five panels	1994-2009
NIH – ad hoc member of 17 panels	1994-2009
DOE Research Grants (Model Organisms panel ad hoc member)	June 1998
March of Dimes ad hoc reviews	periodic
Human Frontiers ad hoc reviews	periodic
New Jersey State Cancer Comm. Fellowships Research Grants	1993-1999
American Cancer Society Developmental Biology study section member	1996-2002

Books reviewed:

Snustad et al.,	Genetics (text)	2005
Hartwell et al.,	Genetics (text)	2007
Becker et al.	"World of the Cell"	2009

Papers reviewed:

10-20 manuscripts per year for several journals, including American Journal of Human Genetics, BMC Bioinformatics, BMC Molecular Biology, EMBO Journal, Genes and Development, Genetics, Genome Biology, Genome Research, Human Molecular Genetics, Journal of Cell Biology, Molecular and Cellular Biology, Journal of Biological Chemistry, Nature Biotechnology, Nature Genetics, Nucleic Acids Research, Plant Cell, The Plant Journal, Plant Physiology, PLOS Computational Biology, Proceedings of the National Academy of Science, RNA

University service:

Senate representative from Zoology	1996
Academic Planning Advisory Committee (APAC)	1999-2002
Provost's Steering Committee on Computational Biology	1999-2000
Center for Bioinfomatics and Comp. Biol. - search committee	2000-2005
Host and organizer -- Distinguished University Lecturer Gerald Rubin	2001
coordinator, Center for Bioinformatics & Computational Biology seminar series	2001-present
Associate Director, Center for Bioinformatics and Computational Biology	2003-2009

Council of University System Faculty (CUSF), UMCP representative	2009-2012
Cell Biology and Molecular Genetics seminar committee	2000-2008

Academic Advising

Cell, Molecular Biology and Genetics undergraduate majors 12-15 students per semester	1997-present

Awards and Honors

Magna cum laude	1978
Phi Beta Kappa	1978
NSF Predoctoral Fellowship	1978-81
NSF Presidential Young Investigator	1987-92