

**CURRICULUM VITAE**  
**February 2016**

JOHN M. BELOTE

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EDUCATION:	Undergraduate	Murray State University Murray, KY B. A. <i>magna cum laude</i> , 1973 Major: Biology
	Graduate:	University of North Carolina-Chapel Hill Genetics Curriculum and Dept. of Zoology Chapel Hill, NC Ph. D., 1979, Genetics
	Postdoctoral:	University of California- San Diego Biology Department La Jolla, CA Genetics and Molecular Biology

EMPLOYMENT HISTORY:

Professor, 1997- present, Department of Biology, Syracuse University, Syracuse, NY; Associate Professor, 1991-1997, Assistant Professor, Sept. 1985-1991. I am an Adjunct Research Professor in the Department of Cell and Developmental Biology at the SUNY-Upstate Medical University.

Postdoctoral Research Biologist in the laboratory of Dr. Bruce Baker, University of California -San Diego, La Jolla, CA, 1979-1985.

Predocctoral Trainee and Research Assistant in the laboratory of Dr. John Lucchesi, University of North Carolina, Chapel Hill, NC, 1973-1979.

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GRANT SUPPORT (past and current):

- NIH Research Grant, R01-GM36579-01 "Molecular study of a sex transformer gene in *Drosophila*", 1986-1989. \$310,221.
- NIH Research Grant, R01-GM36579-04 "Molecular study of a sex transformer gene in *Drosophila*", 1990-1995. \$500,497.
- NSF Research Grant, MCB-9506885. "Molecular and genetic analysis of *Drosophila* proteasomes", 1995-1998. \$390,000; MCB-9808305, renewal of above, 1998-2001. \$435,000; MCB-0110593, renewal of above, 2001-2004. \$450,000. MCB-0416647, renewal of above, 2004-2008. \$465,000.
- NSF Research Grant, DEB-0814732 (Co-PI, with Scott Pitnick) "Understanding male gamete competition using unique molecular tags", 2008-2011. \$520,000. [This research was highlighted in the online Science Magazine, *Science Nation*, in August 2010; [http://www.nsf.gov/news/special\\_reports/science\\_nation/fruitflies.jsp](http://www.nsf.gov/news/special_reports/science_nation/fruitflies.jsp) ]
- NSF Research Grant, DEB-1021240 (Co-PI, with Scott Pitnick and Mollie Manier) "Genetic and functional analyses of sperm length evolution in *Drosophila*", 2010-2012. \$280,000.
- NSF Research Grant, DEB-1145965 (Co-PI, with Scott Pitnick, Mollie Manier and Stefan Lüpold) "Evolutionary genetics of ejaculate quality and competitive reproductive success", 2012-2015. \$700,000.
- NSF Research Grant, DEB-1257859 (Co-PI with Mollie Manier, Steve Dorus, Scott Pitnick), Genetic analysis of gamete length evolution in *Drosophila* 2013-2016. \$560,000.

PUBLICATIONS:

- Lüpold, S., Manier M., Puniamoorthy, N., Schoff, C., Starmer, W.T., **Belote, J. M.**, Pitnick, S. How sexual selection can drive the evolution of costly sperm ornamentation. Submitted.
- Droge-Young, E. M., **J. M. Belote**, G. S. Perez and S. Pitnick. Mating system influences on the mechanisms of postcopulatory sexual selection. Submitted.
- Droge-Young, E. M., **J. M. Belote**, A. Eeswara, S. Pitnick (2015) Extreme ecology and an extreme mating system: discriminating among alternative direct benefits models for the evolution of polyandry in the red flour beetle *Tribolium castaneum*. *Behavioral Ecology* in press.
- Ala-Honkola, O., M.K. Manier, S. Lüpold, E.M. Droge-Young, W.F. Collins, **J.M. Belote** and S. Pitnick (2014) No inbreeding depression in sperm storage or offspring viability in *Drosophila melanogaster* females. *J. of Insect Physiol.* 60: 1-6.

- Manier, M. K., **J. M. Belote**, W.T. Starmer, K. S. Berben, S. Lüpold, O. Ala-Honkola, W. F. Collins and S. Pitnick (2013) Postcopulatory sexual selection generates speciation phenotypes in *Drosophila*. ***Current Biology*** 23: 1853-1862.
- Lüpold, S., S. Pitnick, K. S. Berben, C. Blengini, **J. M. Belote** and M. K. Manier (2013). Female mediation of competitive fertilization success in *Drosophila melanogaster*. ***Proc. Natl. Acad. Sci.*** 110: 10693-10698.
- Manier, M.K., **Belote, J.M.**, Berben, K.S., Lüpold, S., Ala-Honkola, O., Collins, W., and Scott Pitnick (2013) Rapid diversification of sperm precedence traits and processes among three sibling *Drosophila* species. ***Evolution*** 67: 2348-2362.
- Ala-Honkola, O., D. J. Hosken, M. K. Manier, S. Lüpold, E. M. Droge-Young, K. S. Berben, W. F. Collins, **J. M. Belote** and S. Pitnick (2013) Inbreeding reveals mode of past selection on male reproductive characters in *Drosophila melanogaster*. ***Ecology and Evol.*** 3: 2089-2102.
- Belote, J. M.**, Lüpold, S., Manier, K. and Pitnick, S. Opening a window onto sperm competition. (2013) ***Molecular Reproduction and Development*** 80:79. (“VISIONS: the art of science” contribution).
- Lüpold, S., M.K. Manier, Berben, K., Smith, K., Daley, B., Buckley, S.H., **Belote, J.M.** and Pitnick, S. (2012) How multivariate ejaculate traits determine competitive fertilization success in *Drosophila melanogaster*. ***Current Biology*** 22: 1667-1672.
- Droge-Young, E. M., M. K. Manier, **J. M. Belote** and S. S. Pitnick (2012) Covariance among premating, postcopulatory and viability fitness components in *Drosophila melanogaster* and their influence on paternity measurement. ***J. Evol. Biol.*** 25: 1555-1563.
- Belote, J. M.** (2012) BIO 326 Genetics: A Study Guide, 1<sup>st</sup> ed. Kendall-Hunt Publishing Company, Dubuque, IA.
- Lüpold, S., Manier, M. K., Ala-Honkola, O., **Belote, J. M.**, and Pitnick, S. (2011) Male *Drosophila melanogaster* adjust ejaculate size according to female mating status, fecundity and age. ***Behavioral Ecology*** 22: 184-191.
- Manier, M. K., **J. M. Belote**, K. S. Berben, D. Novikov, W. T. Stuart and S. S. Pitnick (2010) Resolving mechanisms of competitive fertilization success in *Drosophila melanogaster*. ***Science*** 328: 354-357.

[This paper has been the subject of short reviews in *Journal of Experimental Biology*, *Current Biology*, and *Science* and was selected by the **Faculty of 1000**]

Maxwell, P.H., **J. M. Belote** and R.W. Levis (2008) Developmental and tissue-specific accumulation pattern for the *Drosophila melanogaster* TART ORF1 protein. *Gene* 415: 32-39.

Zhong, L. and **J. M. Belote** (2007) The testis-specific proteasome subunit Pro $\alpha$ 6T of *Drosophila melanogaster* is required for individualization and nuclear maturation during spermatogenesis. *Development* 134: 3517-3525.

Maxwell, P. H., **J. M. Belote** and R. W. Levis (2006) Identification of multiple transcription initiation, polyadenylation, and splice sites in the *Drosophila melanogaster* TART family of telomeric retrotransposons. *Nucleic Acids Res.* 34: 5498-5507.

Neuburger, P. J., K. J. Saville, J. Zeng, K. A. Smyth and **J. M. Belote** (2006) A genetic suppressor of two dominant temperature sensitive (DTS) lethal proteasome mutants of *Drosophila melanogaster* is itself a mutated proteasome subunit gene. *Genetics* 173: 1377-1387.

**Belote, J. M.** and L. Zhong (2005) Proteasome gene duplications in mammals, flies and plants. *Recent Research Developments in Genes & Genomes* 1: 107-129.

Ma, J., E. Katz and **J. M. Belote** (2002) Expression of proteasome subunit isoforms during spermatogenesis in *Drosophila melanogaster*. *Insect Mol. Biol.* 11: 624-639.

**Belote, J. M.** and E. Fortier (2002) Targeted expression of dominant negative proteasome mutants in *Drosophila*. *Genesis* 34: 80-82.

Fortier, E. and **J. M. Belote** (2000) Temperature-dependent gene silencing by an expressed inverted repeat in *Drosophila*. *Genesis* 26: 240-244.

Covi, J. A., **J. M. Belote** and D. L. Mykles (1999) Subunit compositions and catalytic properties of proteasomes from developmental temperature-sensitive mutants of *Drosophila melanogaster*. *Arch. Biochem. Biophys.* 368: 85-97.

Smyth, K. A. and **J. M. Belote** (1999) The dominant temperature-sensitive lethal mutant *DTS7* of *Drosophila melanogaster* encodes an altered 20S proteasome  $\beta$ -type subunit. *Genetics* 151: 211-220.

**Belote, J. M.**, M. Miller and K. A. Smyth (1998) Evolutionary conservation of a testes-specific proteasome subunit gene in *Drosophila*. *Gene* 215: 93-100.

Smith, E. R., **J. M. Belote**, R. L. Schiltz, X.-J. Yang, P. A. Moore, S. L. Berger, Y. Nakatani and C. D. Allis (1998) Cloning of *Drosophila* GCN5: conserved

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features among metazoan GCN5 family members. *Nucl. Acids Res* 26, 2948-2954.

Cheng, L., N. Roemer, K. A. Smyth, **J. M. Belote**, J. Nambu and L. M. Schwartz (1998) Cloning and characterization of Pros45, the *Drosophila* *SUG-1* proteasome subunit homolog. *Mol. Gen. Genet* 259, 13-20.

Zaiss, D. and **J. M. Belote** (1997) Molecular cloning of the *Drosophila melanogaster* gene *a5\_dm* encoding a 20S proteasome a-type subunit. *Gene* 201, 99-105.

Yuan, X., M. Miller and **J. M. Belote** (1996) Duplicated proteasome subunit genes in *Drosophila melanogaster* encoding testes-specific isoforms. *Genetics* 144: 147-157.

Liu, Y. and **J. M. Belote** (1995) Protein-protein interactions among components of the primary sex determination signal of *Drosophila*. *Mol. Gen. Genetics* 248: 182-189.

Samuel, D. S., **J. M. Belote** and S. H. P. Chan (1995) Isolation of the rat F<sub>1</sub>-ATPase inhibitor gene and its pseudogenes. *Biochim. Biophys. Acta* 1230: 81-85.

Yuan, X. and **J. Belote** (1995) Determination of the molecular lesions associated with loss-of-function *transformer* alleles of *Drosophila melanogaster*. *Biochim. Biophys. Acta* 1260: 369-370.

Chorsky, R. and **J. Belote** (1994) *genitalia missing (gem)*: An autosomal mutant that affects development of the genital disc derivatives. *Drosophila Inform. Serv.* 75: 33.

Saville, K. J. and **J. M. Belote** (1993) Identification of an essential gene, *l(3)73Ai*, with a dominant temperature-sensitive lethal allele, encoding a *Drosophila* proteasome subunit. *Proc. Natl. Acad. Sci. (USA)* 90: 8842-8846.

**Belote, J. M.** (1992) Sex determination in *Drosophila melanogaster*: from the X:A ratio to *doublesex*. *Seminars in Developmental Biology* 3: 319-330.

O'Neil, M. T. and **J. M. Belote** (1992) Interspecific comparison of the *transformer* gene of *Drosophila* reveals an unusually high degree of evolutionary divergence. *Genetics* 131: 113-128.

**Belote, J. M.** (1992) Molecular genetics of sex determination in *Drosophila melanogaster*. In: **Molecular Approaches to Pure and Applied Entomology**. eds. M.J. Whitten and J.G. Oakeshott. (Springer-Verlag New York, Inc., New York). pp. 292-328.

- Belote, J. M.**, F. M. Hoffmann, M. McKeown, R. L. Chorsky, and B. S. Baker (1990) Cytogenetics of chromosome region 73AD of *Drosophila melanogaster*. *Genetics*, 125: 783-793.
- Tearle, R. G., **J. M. Belote**, M. McKeown, B. S. Baker and A. J. Howells (1989) Cloning and characterization of the *scarlet* gene of *Drosophila melanogaster*. *Genetics* 122, 595-606.
- Belote, J. M.**, M. McKeown, R. T. Boggs, R. Ohkawa, and B. A. Sosnowski. (1989) The molecular genetics of transformer, a genetic switch controlling sexual differentiation in *Drosophila*. *Devel. Genet.* 10, 143-154.
- Sosnowski, B. A., J. M. Belote, and M. McKeown.(1989) Sex-specific alternative splicing of RNA from the *transformer* gene results from sequence-dependent splice site blockage. *Cell* 58, 449-459.
- Belote, J. M.** (1989) The control of sexual development in *Drosophila melanogaster*: Genetic and molecular analysis of a genetic regulatory hierarchy. *Gene* 82, 161-167.
- McKeown, M., R. T. Boggs, K. Nash. R. Ohkawa, B. A. Sosnowski, and **J. M. Belote**. (1988) The use of germline transformation in the study of sexual differentiation in *Drosophila*. in **Gene Transfer in Animals: UCLA Symposia on Molecular and Cellular Biology**, New Series, Volume 87, eds. I. Verma, R. Mulligan, and A. Beauset (Alan R. Liss, Inc., New York).
- McKeown, M., **J. M. Belote**, and R. T. Boggs. (1988) Ectopic expression of the female *transformer* gene product leads to female differentiation of chromosomally male *Drosophila*. *Cell* 53, 887-895.
- Nagoshi, R., M. McKeown, K. Burtis, **J. M. Belote**, and B. S. Baker. (1988) The control of alternative splicing at genes regulating sexual differentiation in *D. melanogaster*. *Cell* 53, 229-236.
- Belote, J. M.** and B. S. Baker (1987) Sexual behavior: Its genetic control during development and adulthood in *Drosophila melanogaster*. *Proc. Natl. Acad. Sci. (USA)* 84, 8026-8030.
- Boggs, R. T., P. Gregor, S. Idriss, **J. M. Belote**, and M. McKeown (1987) Regulation of sexual differentiation in *D. melanogaster* via alternative splicing of RNA from the *transformer* gene. *Cell* 50, 739-747.
- McKeown, M., **J. M. Belote**, and B. S. Baker (1987) A molecular analysis of *transformer*, a gene in *Drosophila melanogaster* that controls female sexual differentiation. *Cell* 48, 489-499.

- DiBenedetto, A. J., D. M. Lakich, W. D. Kruger, **J. M. Belote**, B. S. Baker and M. F. Wolfner (1987) Sequences expressed sex-specifically in *D. melanogaster* adults. *Devel. Biol.* 119, 242-251.
- McKeown, M., **J. Belote**, D. Andrew, N. Scott, M. Wolfner, and B. Baker. (1985) Molecular Genetics of Sex Determination in *Drosophila*. In: **Gametogenesis and the Early Embryo: 44th Symp. Soc. Dev. Biol.** ed. J.G. Gall ( Allen R. Liss Co., New York)pp 1-17.
- Belote, J. M.**, M. B. McKeown, D. J. Andrew, T. N. Scott, M. F. Wolfner, and B. S. Baker (1985) The control of sexual differentiation in *Drosophila melanogaster* . *Cold Spring Harbor Symp. Quant. Biol.* 50: 605-614.
- Belote, J.M.** and M.B. McKeown (1985) Post-replicative repair of an X-ray damaged chromosome following fertilization in *Drosophila melanogaster*. *Drosophila Inform. Serv.* 61: 33-34.
- Belote, J. M.**, A. M. Handler, M. F. Wolfner, K. J. Livak, and B. S. Baker (1985) The sex specific regulation of yolk protein gene expression in *Drosophila melanogaster*. *Cell* 40: 339-348.
- Baker, B. S., M. Wolfner, and **J. Belote** (1984) Sex determination in *Drosophila melanogaster*. In: **Genetics: New Frontiers. Proceedings of the XV International Congress of Genetics. Vol. III. Genetics and Health.** eds. V.L. Chopra, B.C. Joshi, R.P. Sharma, H.C. Bansal. Oxford & IBH Publishing Co. New Delhi.pp. 223-232.
- Belote, J. M.** (1983) Male-specific lethal mutations of *Drosophila melanogaster*. II. Parameters of gene action during male development. *Genetics* 105: 881-896.
- Baker, B. S. and **J. M. Belote** (1983) Sex determination and dosage compensation in *Drosophila melanogaster*. *Ann. Rev. Genetics* 17: 345-393.
- Belote, J. M.** and B. S. Baker (1983) The dual functions of a sex determination gene in *Drosophila melanogaster*. *Devel. Biol.* 95: 512-517.
- Belote, J. M.** and B. S. Baker (1982) Sex determination in *Drosophila melanogaster*: Analysis of *transformer-2* , a sex transforming locus. *Proc. Natl. Acad. Sci. (USA)* 79: 1568-1572.
- Belote, J. M.** and J. C. Lucchesi (1980) Male-specific lethal mutations of *Drosophila melanogaster*. *Genetics* 96: 165-186.
- Belote, J. M.** and J. C. Lucchesi (1980) Control of X chromosome transcription by the *maleless* gene in *Drosophila* . *Nature* 285: 573-575.

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Lucchesi, J. C., **J. M. Belote**, and G. Maroni (1977) X-linked gene activity in metamales (XY;3A) of *Drosophila*. *Chromosoma* 65: 1-7.

Manley, E. and **J. Belote** (1972) Comparative depressant activity and interaction of ethanol and pentobarbital in goldfish. *J. of Pharmaceutical Sci.* 61: 1401-1403.

#### TEACHING:

Since arriving at Syracuse University, I have taught the following courses:

BIO 326 (previously BIO 335) Genetics - 1986-present (current enrollment, 310 students/semester)

BIO 419 Jr/Sr Thesis Seminar (co-taught) - Fall/Spring 1990-present (25-30 students/semester).

BIO 400/600 Model Organism Genetics – Fall 2014- present (16 students/semester)

BIO 435 Genetics Lab (co-taught) - Fall 1994-2013 (~40 students/semester).

BIO 462/662 Molecular Genetics (co-taught), Fall 2002-2010 (~40 students/semester)

BIO 644 Advanced Molecular Genetics (co-taught)- Fall 1986, 1987, 1988. (10-20 students/semester).

BIO 784 Gene Expression II (co-taught) - Fall 1993 (8 students).

BIO 688 Biological Literature - Fall/Spring 1988-1990 (5-10 students/semester); Spring 2001 (4 students).

I have served as research advisor for twenty-six students who have taken BIO 460 (Research Experience), and faculty sponsor for about 30 students who have enrolled in the University's Internship Program (SUIP).

I have also been an Arts and Sciences Lower Division Faculty Advisor since 1986, serving as advisor to about 20-30 students per year.

#### DEPARTMENTAL SEMINARS:

Laboratory of Apoptosis and Cancer Biology, The Rockefeller University, New York, NY, May 19, 2010.



John M. Belote

Department of Cell Biology and Development, SUNY-Upstate Medical University, Syracuse, NY, April 2004.

Department of Biology, Colgate University, Hamilton, NY, February 2002.

Department of Biochemistry and Molecular Biology, St. Louis University, St. Louis, MO., February, 2002.

Department of Molecular Biology, Biochemistry and Genetics, Cornell University, Ithaca, NY December 14, 2001.

Department of Biological Sciences, Rochester Institute of Technology, Rochester, NY, October 2000

Department of Molecular Biology and Microbiology, Tufts University School of Medicine, Boston, MA, May 2000

Department of Biology, Ithaca College, Ithaca, NY, February 11, 1999

Department of Molecular Biology, Jacques Monod Institute, Paris, France, March 1997

Department of Biology, Ecole Normale Supérieure, Paris, France, March 1997

Department of Anatomy and Cell Biology, SUNY-Health Science Center-Syracuse, Syracuse, NY, March 1995.

Department of Cell Biology, Harvard Medical School, Boston, MA, August 1993.

Department of Genetics, University of Melbourne, Melbourne, Australia, September 1992.

Division of Entomology, CSIRO, Canberra, Australia, August 1992.

Program in Genetics, Duke University, October 1991.

Department of Anatomy and Cell Biology, SUNY-Health Science Center-Syracuse, Syracuse, NY April 1991.

Department of Biochemistry and Molecular Biology, St. Louis University, St. Louis, MO, May 4, 1989.

Department of Biology, Rockefeller University, New York, NY, April 11, 1989.

Department of Biology, McMaster University, Hamilton, Ontario, Canada, March 10, 1989.

Department of Biochemistry and Molecular Biology, Thomas Jefferson University Medical School, Philadelphia, PA, March 3, 1989.

Department of Biological Sciences, State University of New York at Albany, Albany, NY, October 29, 1987.

Department of Biology, University of South Florida, Tampa, FL, March 27, 1987.

Department of Biology, University of Pennsylvania, Philadelphia, PA, March 3, 1987.

Section of Genetics and Development, Cornell University, Ithaca, NY, February 1986.

#### INVITED LECTURES:

Proteasome Workshop, “Duplicated proteasome subunit genes in *Drosophila* encoding testes-specific isoforms”, Colorado State University, Fort Collins, CO, July 1995.

Corowa Dipteran Conference, “Sex determination in *Drosophila*”, Corowa, Australia, September 1992.

Cold Spring Harbor Course on Advanced *Drosophila* Genetics, “Genetic analysis of regulatory pathways”, Cold Spring Harbor Laboratories, NY. June 29, 1990.

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- Conference on Sex Determination and Dosage Compensation at The Indian Institute of Science, “Molecular analysis of the *transformer* gene of *Drosophila*” Bangalore, India. November 6-9, 1989.
- Albany Conference on 'RNA: Catalysis, Splicing and Evolution', “Sex-specific alternative splicing in *Drosophila melanogaster*”, Rensselaerville, New York, September 22-25, 1988.
- Cold Spring Harbor Symposium on the Molecular Basis of Development, “Sex determination in *Drosophila*”, Cold Spring Harbor Laboratories, NY, May 1985.
- Southern California Developmental Biology Meeting, “Genetic and molecular analysis of the *transformer* locus in *Drosophila*”, University of California-Irvine, Irvine, CA, October 1984.
- Gordon Research Conference on Biological Regulatory Mechanisms, “Sex determination in *Drosophila*”, Holderness, NH, June 1984.
- Gordon Research Conference on Biological Regulatory Mechanisms, “Sex determination in *Drosophila*”, Holderness, NH, June 1982.

#### OTHER PROFESSIONAL PRESENTATIONS:

- National *Drosophila* Conference, San Diego, CA, March 2011 (poster).
- Biology of Spermatozoa, Sheffield England, 2011, (4 posters)
- National *Drosophila* Conference, Washington, DC, March 2010 (poster).
- Society for the Study of Evolution, Portland, OR, 2010 (poster)
- Society for the Study of Evolution, Moscow, ID, 2009 (poster)
- National *Drosophila* Conference, San Diego, CA, March 2005 (poster).
- National *Drosophila* Conference, San Diego, CA, March 2003 (poster).
- National *Drosophila* Conference, Washington, DC, March 2001 (poster).
- National *Drosophila* Conference, Pittsburgh, PA, March 2000 (two posters).
- Lorne Genome Conference XX, Lorne, Australia, February 1998 (poster)
- Proteasome Workshop, Clermont-Ferrand, France, March 1997 (two posters)
- Proteasome Workshop, Colorado State University, Fort Collins CO, July 1995 (poster)
- National *Drosophila* Conference, Chicago, IL, April 1994 (two posters).
- National *Drosophila* Conference, Asilomar, CA, April 1992 (poster).
- EMBO Workshop on the Molecular Biology and Development of *Drosophila*, Kolymbari, Crete, Greece, August 28, 1988.
- National *Drosophila* Conference, Chicago, IL, April 1987.
- EMBO Workshop on the Molecular Biology and Development of *Drosophila*, Kolymbari, Crete, Greece, June 1986.

#### PROFESSIONAL SERVICE:

##### COMMITTEE SERVICE AT SYRACUSE UNIVERSITY-

##### Department-

- Biology Awards Committee (Chair) 2010-present
- Biology Undergraduate Committee, 2006-2010

Co-Director of Biology Honors/Distinction Program, 1990-present  
Controlled Substances Officer 1993-present  
Future Professoriate Committee 1993-2012  
Life Sciences Building Steering Committee, 2003-2008  
Promotion & Tenure Committee 1994, 1995, 1998, 2000, 2003 (Chair),  
2007 (co-Chair), 2008, 2010, 2011 (Chair), 2015 (Chair)  
Chair Advisory Committee 1998-1999; 2010-2011, 2015-present  
Graduate Education Committee 1991-95; 1998-2002 (Chair)  
Graduate Recruiting Committee (Chair) 1995-98  
*Ad hoc* "Vision Statement" Committee (Chair) 1998  
*Ad hoc* Committee to Evaluate the Chair, 1994-95  
*Ad hoc* Committee on the Future of the Chairmanship, 1996  
I have served on 15 departmental faculty search committees.  
I have served on several mentoring committees for non-tenured faculty.

College-

Lower Division Faculty Advisor 1986-present  
Summer Faculty Advisor, 1995- present  
Curriculum Committee 1998-2001  
Life Sciences Space Planning Committee, 2000-20002  
Biology Department Chair Search Committee, 2010-2011

University-

Faculty Advisory Committee for the Center for Graduate Preparation and  
Achievement (2009-present)  
Meredith Professorship Selection Committee, 2000-2004  
Radiation Safety Committee 1994-present, (Chair, 2002-present)  
Crown Scholars Selection Committee, 2003, 2004  
Honors Thesis Prize Selection Committee (Chair, 2005)  
Board of Graduate Studies 1994  
Honors Advisor, 1995-present

PEER REVIEW-

Editorial Review Board, *Gene*, 2011-present.

National Institutes of Health, NICHD, Program in Genomics of  
Differentiation, Intramural Program Site Visit Team, 2008.

National Science Foundation, Member, Eukaryotic Genetics Review  
Panel, 1997-2004.

National Institutes of Health, Genetics Study Section, Special Reviewer,  
1992, 1993, 1994, 1995; Biological Sciences Study Section,  
Special Reviewer, 1997.

Member, National Institutes of Health Reviewers Reserve

Member, Board of Experts, Italian Ministry for Education, University and Scientific Research (MIUR)

I have also served as an *ad hoc* reviewer of grants for the National Science Foundation (~1-3 proposals/year since 1986), the Swiss National Science Foundation (Bern, Switzerland), the International Human Frontier Science Program (Strasbourg, France), New York University Research Challenge Fund (New York University), City University of New York Research Award Program, Maine Institute for Human Genetics and Health, the Italian Ministry of University and Research (Italy), the Israeli Science Foundation, and the Department of Education, Employment, and Training (Canberra, Australia)

I have reviewed manuscripts for the following journals: Science, Nature, Cell, Genetics, Trends in Genetics, Development, Bioessays, Proceedings of the National Academy of Sciences, Current Biology, Molecular Biology and Evolution, Molecular and Cellular Biology, European Journal of Biochemistry, European Journal of Cell Biology, Developmental Biology, Developmental Genetics, Insect Biochemistry and Molecular Biology, Biochimica et Biophysica Acta, Gene, BioMedCentral Biochemistry, Journal of Heredity, Genome Research, Biotechnology and Applied Biochemistry, Science News, Genesis, BioMedCentral Development, Proceedings of the Indian National Academy of Sciences, Central European Journal of Biology, Asian Journal of Andrology, Cell and Tissue Research, Journal of Insect Physiology, FEBS Journal, PLOS Biology, PLOS One, Cellular and Molecular Life Sciences, Molecular Reproduction and Development, Nature Scientific Reports, BMC Genomics, and Behavioral Genetics.

I have reviewed genetics textbooks for Harper/Collins, Wm. C Brown, Prentice Hall, Benjamin/ Cummings, McGraw-Hill, W.H. Freeman and Company, and Scott/Foresman Publishers.

OTHER:

I am a participant in Syracuse University's Future Professorate Project, sponsored by a grant from FIPSE/PEW, as a Faculty Mentor.

I served as the Great Lakes Regional Representative on the National Drosophila Board (1998- 2001).

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In 2003 I was selected by the Syracuse University Chapter of the Golden Key International Honour Society for induction as an Honorary Member in recognition of my contributions as a Biology faculty member.

I was an instructor for the Cold Spring Harbor Advanced *Drosophila* Genetics Course in June 1990.

I have been a member of Genetics Society of America since 1975.

From 1987 to 1995 I was an instructor for the New York State Institute of Science and Mathematics, held at Syracuse University. This was a three week summer program of laboratories, lectures and field trips, administered by the State Education Department and directed by Dr. Marvin Druger, for outstanding high school students from across the state. I have also been an instructor for the Frontiers of Science program for area high school students every year since 1988. In addition, I have participated as an instructor for the Frontiers of Science high school teachers update series, also directed by Dr. Druger, from 1988 until 2004.

In the summer of 1993, I acted as faculty sponsor and research advisor for one student as part of the Minority High School Student Apprenticeship Program, funded by NIH.

#### RESEARCH ADVISING:

I have served as research advisor for 27 undergraduate students, 14 graduate students, and five postdoctoral researchers.

#### Graduate students:

Michael O'Neil, M.S., 1991, "Interspecific comparisons of the *transformer* locus within the genus *Drosophila*"; currently Staff Scientist at Walter Reed Medical Center, Washington, DC.

Kenneth Saville, Ph.D., 1992, " Genetic and molecular characterization of the *DTS-5* locus of *Drosophila melanogaster*"; Gourovitch Award for Outstanding Biology Graduate, 1992; currently Professor at Albion College, Albion, MI.

James Eberle, Ph.D., 1994, "A molecular analysis of the *tra* cognates of *Drosophila melanogaster*"; currently Asst. Professor, Kent State University, Trumbull, OH.

Xiaoqing Yuan, M.S., 1994, "Identification of duplicated proteasome subunit genes with distinct developmental- and sex-specific

expression patterns"; currently Senior Research Assistant, NIH, Bethesda, MD.

Yujing Liu, Ph.D., 1994, "Protein-protein interactions among components of the *Drosophila* primary sex determination signal"; currently Chief of the Office of Review, NIH, Bethesda, MD

Dietmar Zaiss, M.S., 1996, "Molecular cloning and initial characterization of *PSMA5*, a 20S proteasome subunit gene of *Drosophila melanogaster*"; received his PhD degree from the University of Berlin, Berlin, Germany, 2001; currently Asst. Prof. at University of Utrecht, The Netherlands.

Jing Ma, Ph. D. 2001, "The  $\alpha 3T$  gene of *Drosophila melanogaster* encodes a spermatogenesis-specific proteasome subunit"; currently Staff Scientist at St. Jude's Children's Hospital, Memphis, TN.

Eric Fortier, M.S. 2001, "RNAi-mediated gene silencing in *Drosophila melanogaster* triggered by expressed inverted repeats"; currently research technician at The Genetics Institute (Cambridge, MA).

Evan Katz, M.S. 2003, " The identification and characterization of additional proteasome subunit isoforms expressed in a male-specific manner", currently research technician in Cambridge, MA.

\*Patrick Maxwell, Ph.D. 2004, "Molecular Genetic Analysis of TART (Telomere Associated Retrotransposon) in *Drosophila melanogaster*" ; currently Assistant Professor at Rensselaer Polytechnical Institute (Troy, NY).

\*Jennifer Kirkland, M.S., 2005, " Molecular Cloning and Initial Characterization of a *TART*-like Sequence in *Drosophila ananassae*". currently research technician at Columbia School of Medicine (New York, NY)

Xiazhen Li, M.S. 2006, "Functional study of the testis-specific subunits, Rpt3R and Rpt4R, of *Drosophila melanogaster*". currently research technician at BioRexis (King of Prussia, PA)

Lei Zhong, Ph.D 2007, "Expressional, functional, and genomic studies of proteasome subunits during spermatogenesis of *Drosophila melanogaster*". currently postdoctoral researcher at Massachusetts General Hospital, Boston, MA.

John M. Belote

Jing Dai, Ph.D. degree in progress.

\* = co-advisor

Undergraduates:

I was research advisor for the following undergraduate students who worked in my lab during the years indicated.

William Driscoll, 1986  
Regina Chorsky, 1987-90  
Katie Wakely, 1989-90 (Biology Honors Program)  
Shannon Irving, 1991-92  
Jacquiline Todd, 1992-93 (Biology Honors Program)  
Johnathan Tinsley, 1993  
Scott Brazinski, 1993  
Christos Karinakkis, 1994  
Karla Vitale, 1994-95 (Biology Honors Program)  
Monica Gonzales, 1994-95 (Biology Honors Program)  
Stephanie Brewer, 1995-96 (Biology Honors Program; Lundgren Award 1996)  
Renee Cassard, 1995-96  
Damian Fermin, 1997-99 (Biology Honors Program, Birge Award 2000)  
Josephine Martin, 1998-00  
Bishwajit Bhattacharya, 2000-01 (Biology Honors Program, Birge Award, 2001)  
Nate Billings, 2000- 2002 (Biology Honors Program)  
Peter Neuburger, 2001-2003 (Biology Honors Program)  
Segan Millington, 2002-2003  
Richard Krolewski, 2002-2004 (Biology Honors Program; Lundgren Award 2004)  
Amber McReynolds, 2003-2004  
Simon Meas, 2005  
Alaina Gwilt, 2005-2006  
Sheree McClear, 2006-2007  
Paul O'Connor, 2007-2009  
Long Qin Wang, 2008-2010 (McNair Scholar, Distinction in Biology Program)  
Kristina Martimucci, 2009-2011 (Renee Crown Honors Program)  
Karlton Moore, 2009- 2010  
Jameson Patak, 2010-2011  
Kyle Smith, 2011-2012  
Maria Poplawska, 2011-2013 (Renee Crown Honors Program)  
Reed Kamyszek, 2014-2015  
Jake Figaniak, 2015 - present (Renee Crown Honors Program)

Postdoctoral researchers:

John M. Belote

Dr. Kerrie-Ann Smyth, 1996-1998  
Dr. Mollie Manier, 2008- 2013 (co-advise with Scott Pitnick)  
Dr. Outi Ala-Honkola, 2010-2011 (co-advise with Scott Pitnick)  
Dr. Stefan Lüpold, 2010-2015 (co-advise with Scott Pitnick)  
Dr. Nalini Puniamoorthy, 2013-present (co-advise with Scott Pitnick)