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EDUCATION

Princeton University	Ph.D. Department of Molecular Biology	August 1999
Woods Hole Marine Biological Laboratory	Graduate, Physiology Course	Summer 1994
Massachusetts Institute of Technology	B.S. Biology, Minor in Literature	June 1991

RESEARCH

Carnegie Institution of Washington Nov. 2003 - present
Staff Associate. Independent research program on the regulation of meiotic recombination in *C. elegans*.

Carnegie Institution of Washington Sept. 1999 - Oct. 2003
Post-doctoral Fellow. Advisor: Dr. Andrew Fire. Studied mesodermal fate specification in *C. elegans*.

Princeton University, Department of Molecular Biology Aug. 1994 - Aug. 1999
Ph. D. thesis. Advisor: Dr. Paul Schedl. Structure/ function analyses of the *Drosophila melanogaster* gene *Sex-lethal* reveal its roles in regulating dosage compensation and sexual differentiation.

Rockefeller University July 1991 - July 1993
Research Assistant with Dr. Titia de Lange. Studied telomere length regulation in human cells.

Massachusetts Institute of Technology Jan. 1990 - Jan. 1991
Undergraduate Research Opportunities Project with Dr. Arthur Lander.

PUBLICATIONS

- Wagner, CR., Kuervers, L., Baillie, D., and **Yanowitz, J.** X/Autosome Differences in Meiotic Crossover Control. Submitted.
- Lim, J.G., Stine, R.R., and **Yanowitz, J.** 2008. Domain-specific regulation of recombination in *C. elegans* in response to temperature age, and sex. *Genetics*, 180(2): 715-726. *Issue highlight
- Yanowitz, J.** 2008. Genome integrity is regulated by the *C. elegans* Rad51D homolog, *rfs-1*. *Genetics*, 179(1): 249-262. *Chosen by J. Hodgkin for Faculty of 1000.
- Hochheiser, H. and **Yanowitz, J.** 2007. If I only had a brain: exploring mouse brain images in the Allen Brain Atlas. *Biol. Cell*, 99(7): 403-409.
- Ward, J.D., Barber, L.J., Petalcorin, M.I.R., **Yanowitz, J.**, and Boulton, S.J. 2007. Replication blocking lesions present a unique substrate for homologous recombination. *Embo J.*, 26(14): 3384-3396.
- Graham, P., **Yanowitz, J.**, Penn, J., and Schedl, P. 2008. The translation factor eIF4E regulates sex-specific expression of the master switch gene *Sex-lethal* in *Drosophila*. Submitted, under revision.
- Foehr, M.L., Lindy, A.S., Fairbank, R.C., Amin, N.M., Xu, M., **Yanowitz, J.**, Fire, A.Z., and Liu, J. 2006. An antagonistic role for the *C. elegans* Schnurri homolog SMA-9 in modulating TGFbeta signaling during mesodermal patterning. *Development*, 133(15): 2887-96.
- J. Yanowitz** and Fire, A.Z.. 2005. Cyclin D involvement demarcates a late transition in *C. elegans* embryogenesis. *Developmental Biology*, 279(1): 244-51.
- J Yanowitz**, Shakir, M.A., Hedgecock, E., Fire, A.Z. and Lundquist, E.A. 2004. *UNC-39*, the *C. elegans* homolog of the human myotonic dystrophy-associated homeodomain protein Six5, regulates cell motility and differentiation. *Developmental Biology* 2004, 272(2): 389-402.
- Greenberg, T., **Yanowitz, J.** and Schedl, P. 2004. The *Drosophila* GAGA factor is required for dosage compensation in males and for the formation of the MSL complex chromatin entry site at 12DE. *Genetics*, 166(1): 279-89.
- G. Deshpande, G. Calhoun, **J. Yanowitz**, and P. Schedl. 1999. Novel functions of nanos in downregulating mitosis and transcription during the development of the *Drosophila* germline. *Cell*, 99(3):271-81.
- J. Yanowitz**, G. Deshpande, G. Calhoun, and P. Schedl. 1999. An N- terminal Truncation of *Sex-lethal* reveals novel regulatory functions. *Mol Cell Biol.*, 19(4): 3018-28.
- J. Hanish, **J. Yanowitz**, and T. de Lange. 1994. Stringent sequence requirements for the formation of human telomeres. *PNAS* 1994, 91(19):8861-65.

GRANTS AND AWARDS

National Institutes of Health	National Institute of Aging, K01 Grant # 1K01AG031296-01	March 2008-present
National Institutes of Health	Ruth L. Kirschstein NRSA	July 2000- July 2003

TEACHING EXPERIENCE

<i>Carnegie Institution</i>	Mentor, 7 undergraduate students	Jan. 2005- present
<i>Rider University</i>	Instructor, Introduction to Human Disease	Fall 1997
<i>Princeton University</i>	Teaching Assistant, Intro. to Eukaryotic Biology (graduate class)	Spring 1998
	Teaching Assistant Non-majors experimental biology lab	Fall 1997
	Teaching Assistant Developmental Biology	Spring 1995
	Teaching Assistant Introduction to Biology (Lab)	Fall 1994
	Mentor, 2 undergraduate students	Spring 1998, 1999

INVITED TALKS

Department of Biology, Haverford College, May 2008.
 Baltimore Area Repair Symposium: DNA Repair in Cell Biology, Immunology and Cancer, March 2008
 Southeast Regional SDB Meeting, Speaker and Session Chair, April 2008
 Department of Molecular Biology, Princeton University, Developmental Colloquium, 2006.
 Department of Biology, Loyola College, 2003, 2006.
 Department of Biology, Bucknell University, 1998.

TALKS

Meiosis Gordon Conference, 2008
 GSA: Model Organisms to Human Biology, 2008
 International *C. elegans* research conference, Plenary talk, 2003
 Drosophila Research Conference, 1998

PROFESSIONAL MEMBERSHIPS

Sigma Xi , Appointed full member, Fall 1999
 Genetics Society of America, 1995- present
 Association for Women in Science, 1994-present
 Society for Developmental Biology, 1998-present
 New York Academy of Sciences, 2000- present
 American Society for Cell Biology, 2007- present

SERVICE

<i>Carnegie Institution</i>	Instructor, Carnegie Ethics Course	Winter 2008
	Organizer, Summer undergraduate seminar series	Summer 2004, 2005
	Organizer, Departmental Symposium on Meiosis	Spring 2000
<i>Princeton University</i>	University Committee on Science Education	1998-1999
	Founded and organized department-wide Chromatin Journal Club	1996-1999
	Founder and Head, Department Teaching Committee	1997-1999
	Wrote teaching manual and established TA training curriculum.	

REFERENCES**Dr. Paul Schedl**

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