

**Curriculum Vitae**  
**Laura Gene Vallier**

**Current Address:**

Work: Department of Biology  
Hofstra University  
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**Education:**

Doctor of Philosophy. Columbia University. Department of Genetics and Development. New York City, NY. May 1993. Field: Genetics.  
Thesis title: Genetic studies on the mechanisms of glucose repression in *Saccharomyces cerevisiae*.  
Master of Arts. Columbia University. Field: Genetics. October 1988.  
Bachelor of Science. University of Texas at San Antonio. San Antonio, TX. May 1976.

**Professional Experience:**

2007 – present Associate Professor of Biology, Hofstra University. Hempstead, NY.  
2002 – 2007 Assistant Professor of Biology. Hofstra University. Hempstead, NY.  
Spring 2002 Adjunct Assistant Professor of Biology. CUNY Queens College. New York, NY.  
1997 - 2002 Research specialist with Dr. Iva Greenwald. Howard Hughes Medical Institute at Columbia University. New York City, NY.  
1993 – 1997 Postdoctoral fellow with Dr. Michael Snyder. Yale University. New Haven, CT.  
1987 – 1993 Graduate Student with Dr. Marian Carlson. Columbia University. New York City, NY.  
1984 – 1987 Research Assistant with Dr. Michael Douglas. University of Texas Health Science Centers at San Antonio and Dallas. San Antonio and Dallas, TX.

**Fellowships and Grants:**

2003 - 2015 Faculty Research and Development Grant. Hofstra University. ~\$13,500.  
Presidential Research Award. Hofstra University. ~\$4800.  
1993 – 1996 Postdoctoral Fellow. National Research Service Award (GM15937-01). NIH.  
1989 – 1990 Predoctoral Fellow. National Cancer Institute Predoctoral Training Grant (CA09503).

**Professional Memberships:**

Genetics Society of America. 1988 to current.

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**Undergraduate Teaching Experience:**

Hofstra University

- Bio 135 Genetics (upper level core, pre-health track majors)  
Bio 136 Genetics Laboratory (optional, majors)  
Bio 001 General Biology (laboratory only) (core, majors)  
Bio 011 Introduction to Cell Biology and Genetics lecture and lab courses (core, majors and other pre-health track students)  
Bio 080A Biology Seminar (Spring 2006)  
Bio 160\* Human Genetics (Optional, upper level majors)  
\*In preparation

**Graduate Teaching Experience:**

Hofstra University

- Biology 210 Advanced Genetics (Lecture)  
Biology 212 Chromosome Biology (Lecture)  
Biology 251 Special Topics in Biology (Tutorial)  
Biology 255 Current Topics in Genetics (Seminar)

**Masters Students Mentored (essay and research):**

- Michael Matthews (MS 2008)  
Carolyn Yasso (MS 2008) Summer Fellowship Award (2008)  
Amanda Cozza (MS 2009)  
Seema Thomas (MS 2010)  
Michael Kiedrowski (MS 2012)  
Vandana Patil (essay, current)  
Tomasz Jodlowski (research; current)  
Grace Famodimu (research; current)

**Undergraduates Mentored (Bio 090/091 or 092 or Bio093/094 Undergraduate research):**

- Monika Piwowarska (Fall 2003/Spring 2004) Bio 090/092  
Lindsay Eisemann (Fall 2003/Spring 2004) Bio 090/091  
Mauro Maietta (Fall 2004) Bio 090  
Tiffany Pica (Spring 2005/Fall 2005) Bio 090/091  
Tara Spencer (Spring 2005/Fall 2005) Bio 090/091  
Tracy Concepcion (Spring 2005) Bio 090  
Alina Duvall (Fall 2005) Bio 090  
Ryan Keating (Fall 2006) Bio 090 Summer Fellowship Award (2006)  
Kostas Ballantinos (Spring 2007) Bio 090  
Margarita Katz (Spring 2007/Fall 2007) Bio 090/091  
Gina DeStefano (Fall 2008/Spring 2009) Bio 090/091  
Andrumedia Persaud (Fall 2008/Spring 2009) Bio 090/091  
Mitchell Alexis (Fall 2008/Spring 2009) Bio 090/091  
Emanuel Rodriguez (Fall 2010/Spring 2011) Bio 090/091  
Michelle Greico (Fall 2010/Spring 2011) Bio 093/094  
Nicole Vigh (Fall 2010/Spring 2011) Bio 093/094  
Venessa Campbell (Spring 2011) Bio90  
Kathryn Athanasiou (Spring 2011/Fall 2011) Bio 093/094  
Eric Jodlowski (Fall 2011/Spring 2012) Bio 090/091  
John Coppola (Spring 2012/Fall 2012) Bio093/094 Summer Fellowship Award (2012)  
Andrew Barbarino (Spring 2013) Bio090  
Kelly Conner (Spring 2013/Fall 2013) Bio090/091  
Avipreet Kaur (Fall 2013/Spring 2014) Bio090/091  
Arnold Mahabir (Fall 2014/Spring 2015) Bio090/091  
Manpreet Saini (Spring 2015/Fall 2015) Bio93/Bio94  
Vrunda Tailor (Spring 2015/Fall 2015) Bio93/Bio94  
Nikita Ramhit (Volunteer Summer 2015)  
Vidia Ramadin (Fall 2015/Fall2016) Bio93/Bio94  
(Volunteer Summer 2014-present)

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**Additional Professional Activities:**

Judge	20 <sup>th</sup> International <i>C. elegans</i> Meeting June 24-28, 2015. Undergraduate posters.
Reviewer	Life: The science of biology, 10 <sup>th</sup> Edition (Textbook). Sadava, Hillis, Heller, and Berenbaum. Sinauer/Macmillan Publishers (Summer 2014)
Invited speaker	St. Johns University. Seminar series. (Spring 2011)
Judge	Syosset High School Eighteenth Annual Research Fair (May 2008)
Invited speaker	Adelphi University. Guest lecturer for Honors Colloquium. Title: Identification of genes involved in gonadal sheath development using RNAi. (May 5, 2006)
Invited speaker	Bishop Kearney High School. Topic: Women in Scientific Research. (March 29, 2004)
Judge	2003 New York Academy of Sciences New York City Science & Engineering Fair (February 9, 2003)
Invited panelist	Teaching Workshop at the 14 <sup>th</sup> International <i>C. elegans</i> Conference (June 2003)
Judge	Syosset High School Sixteenth Annual Research Fair. (May 23, 2006)
Invited speaker	NY Area Yeast Meeting. Title: Maintenance of polarized cell growth during mating in yeast. (May 1995)

**Works in progress:**

- Vallier, L. G., H. Lehrer<sup>1</sup>, T. Spencer<sup>2</sup> and L. Eisemann<sup>2</sup>. A global analysis of the genes on Chromosomes I and II necessary for gonadal sheath development in *C. elegans* using double stranded RNA interference.
- McGovern, M., Vallier, L. G. and E. J. A. Hubbard. APX-1/DSL and LIN-12/Notch are required continuously for normal ovulation in *C. elegans*

**Publications:**

- Voutev, R., R. Keating<sup>2</sup>, E. J. A. Hubbard, and L. G. Vallier 2009. Characterization of the *C. elegans* *Islet* LIM-homeodomain ortholog, *lim-7*. FEBS Letters. **583**:456-464.
- de Sousa, N., L. G. Vallier, H. Fares, and I. Greenwald. 2007. SEL-2, the *C. elegans* Neurobeachin ortholog, is a negative regulator of *lin-12/Notch* activity in polarized epithelial cells and affects endosomal traffic. Development. **134**:691-702.
- Katic, I., L. G. Vallier and I. Greenwald. 2005. New positive regulators of *lin-12* activity in *Caenorhabditis elegans* include the BRE-5/Brainiac glycosphingolipid biosynthesis enzyme. Genetics **171**:1605–1615.
- Follenzi, A. and L. G. Vallier. 2005. Gene therapy for Hemophilia. J. Medicine and Person. 3:57-63.
- Vallier, L. G., J. Segall and M. Snyder. 2002. The Alpha Factor Receptor C-terminus is Important for Mating Projection Formation and Orientation in *Saccharomyces cerevisiae*. Cell Motil. Cytoskeleton **53**:251-266.
- Roemer, T., L. G. Vallier, and M. Snyder. 1998. The Spa2-related protein, Sph1p, is important for polarized cell growth in yeast. J. Cell Sci. **111**:479-494. See also cover.
- Özcan, S., L. G. Vallier, J. S. Flick, M. Carlson, and M. Johnston. 1997. Expression of the *SUC2* gene of *Saccharomyces cerevisiae* is induced by low levels of glucose. Yeast. **13**:127-137.
- Roemer, T., L. G. Vallier, and M. Snyder. 1996. Selection of polarized growth sites in yeast. Trends in Cell Biol. **6**:436-443.
- Vallier, L. G. and M. Carlson. 1994. Synergistic release from glucose repression by *mig1* and *ssn* mutations in *Saccharomyces cerevisiae*. Genetics. **137**:49-54.
- Yeghiayan, P., J. Tu, L. G. Vallier and M. Carlson. 1995. Molecular analysis of the *SNF8* gene of *Saccharomyces cerevisiae*. Yeast. **11**:219-224.
- Vallier, L. G., D. Coons, L. F. Bisson, and M. Carlson. 1994. Altered regulatory responses to glucose are associated with a glucose transport defect in *grr1* mutants of *Saccharomyces cerevisiae*. Genetics. **136**:1279-1285.
- Tu, J., L. G. Vallier and M. Carlson. 1993. Molecular and genetic analysis of the *SNF7* gene in *Saccharomyces cerevisiae*. Genetics. **135**:17-23.
- Vallier, L. G. and M. Carlson. 1991. New *SNF* genes, *GAL11*, and *GRR1* affect *SUC2* expression in *Saccharomyces cerevisiae*. Genetics. **129**:675-684.

<sup>1</sup>High School research student

<sup>2</sup>Undergraduate research student

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Poster presentations at conferences:

- L. G. Vallier, V. Ramadin<sup>2</sup> and A. Mahabir<sup>2</sup> 2015 Life and death: discerning the role of the essential gene, *lim-7*. 20<sup>th</sup> International *C. elegans* Meeting June 24-28, 2015.
- A. Mahabir<sup>2</sup> and L. G. Vallier 2015 Life and death: What is the role of the LIM homeodomain protein, LIM-7? NE Regional Meeting of the Society for Developmental Biology April 10-12, 2015.
- L. G. Vallier 2014 A web of genes necessary for the identity or specification of the gonadal sheath. Northeast Society for Developmental Biology. April 11-13, 2014
- L. G. Vallier 2013 In search of genes necessary for the identity or specification of the gonadal sheath. 19<sup>th</sup> International *C. elegans* meeting June 26-30, 2013.
- L. G. Vallier and J. Coppola<sup>2</sup> 2012 A new attempt to elicit an RNAi phenotype with the LIM-homeodomain transcription factor, LIM-7. *C. elegans* Development, Cell Biology, & Gene Expression Meeting, June 7-10, 2012.
- L. G. Vallier 2011 Detachment of the pharynx in *lim-7(tm674)* mutants occurs embryonically. 18<sup>th</sup> International *C. elegans* meeting June 22-26, 2011.
- L. Vallier 2010 Most regulatory elements of the *C. elegans* *Islet* ortholog *lim-7* may lie within its introns Northeast Society for Developmental Biology April 23-25, 2010.
- M. Kiedrowski<sup>3</sup> and L. G. Vallier 2009 Transcription factors binding the gonadal sheath enhancer in *lim-7* intron 1. 17<sup>th</sup> International *C. elegans* meeting June 22-26, 2009
- H. Skop<sup>1</sup>, L. Eisemann<sup>2</sup>, T. Spencer<sup>2</sup>, T. Pica<sup>2</sup>, K. Ballas<sup>2</sup>, A. Persaud<sup>2</sup>, R. Amin<sup>2</sup> and L. G. Vallier 2009 Global analysis of the genes necessary for gonadal sheath development using RNAi. 17<sup>th</sup> International *C. elegans* meeting June 22-26, 2009
- R. Labiento<sup>3</sup>, G. Destefano<sup>2</sup>, and L. G. Vallier Global analysis of suppressors of the lethality of *lim-7(tm674)* by RNAi 17<sup>th</sup> International *C. elegans* meeting June 22-26, 2009
- Voutev, R., R. Keating<sup>2</sup>, E. J. A. Hubbard, and L. G. Vallier 2008 Characterization of the *Islet* LIM-homeodomain ortholog, *lim-7 C. elegans* Developmental and Evolution topics meeting. June 25-29, 2008.
- Keating, R.<sup>2</sup> and L. G. Vallier 2007 Initial Analysis of the LIM-homeodomain-encoding gene, *lim-7* 17<sup>th</sup> International *C. elegans* Conference June, 2007
- Yasso, C.<sup>3</sup> and L. G. Vallier 2006 Mapping of the *tnIs5* and *tnIs6* *lim-7::GFP* insertion sites. *C. elegans* topics meeting, 2006. June 22 – 25, 2006.
- Vallier, L. G. 2006 Initial characterization of the *lim-7Δ* mutation and assessment of its role in gonadal sheath development. *C. elegans* topics meeting, 2006. June 22 – 25, 2006.
- Pica, T.<sup>2</sup> and L. G. Vallier 2006 Identification of genes necessary for gonadal sheath development using RNAi. *C. elegans* topics meeting, 2006. June 22 – 25, 2006.
- Vallier, L. G. and C. Yasso<sup>3</sup>. 2005. Determination of the genes necessary for gonadal sheath formation using RNAi. 16<sup>th</sup> International *C. elegans* Conference. June 25 - 29, 2005.
- Vallier, L. G., H. Skop<sup>1</sup> and L. Eisemann<sup>2</sup>. 2004. Identification of genes involved in cell fate specification of the gonadal sheath cells in *Caenorhabditis elegans*. East Coast Worm Meeting. June 11 – 13, 2004.
- de Souza, N., L. G. Vallier, H. Fares and I. Greenwald. 2004. Analysis of *sel-2*, an enhancer of *lin-12* activity in vulval precursor cells. East Coast Worm Meeting. June 11 – 13, 2004.
- Vallier, L. G. 2003. Introduction to *C. elegans* genetics using RNA interference (RNAi) in an undergraduate laboratory classroom. 14<sup>th</sup> International *C. elegans* Conference. June 29 – July 3, 2003.
- Vallier, L. G., X. Karp, N. Chen, I. Katic, and I. Greenwald. 1999. A genetic screen for recessive mutations that suppress the egg-laying defect of *lin-12* gain-of-function mutations. 12<sup>th</sup> International *C. elegans* Conference. June 2 – 6, 1999.
- Vallier, L., J. Segall and M. Snyder. 1996. The role of the cytoplasmic tail of the Ste2p receptor in mating projection orientation. Genetics Society of America. August 6 – 11, 1996.
- Vallier, L., J. Segall and M. Snyder. 1995. Truncation of the pheromone receptor in yeast results in altered morphogenesis in response to pheromone. Northeast Regional Meeting of the Society for Developmental Biology. Fall, 1995.
- Vallier, L., J. Segall and M. Snyder. 1995. The cytoplasmic tail of the Ste2 receptor is required for projection orientation during shmoo formation. Cold Spring Harbor Yeast Cell Biology Conference. August 15 – 20, 1995.

<sup>1</sup> High school student

<sup>2</sup> Undergraduate student

<sup>3</sup> Masters student