

Curriculum Vitae

Name: Elizabeth A. Vallen

Present Address: Department of Biology, Swarthmore College,
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Education and Appointments:

- 1986 - B.A. in Biochemistry, Case Western Reserve University, Cleveland, OH
- 1992 - Ph.D in Molecular Biology, Princeton University, Princeton, NJ
- 1992 - 1993 post-doctoral fellow in Neurobiology and Genetics analyzing olfaction in *Drosophila melanogaster*, Yale University, New Haven CT
- 1993 - 1995 post-doctoral fellow analyzing control of the cell cycle in *Saccharomyces cerevisiae*, The Rockefeller University, New York NY
- 1995 - 2002 Assistant Professor of Cell Biology, Swarthmore College, Swarthmore PA
- 1996, 1997 (summers) - Visiting Assistant Professor, Rockefeller University NY
- 1998 – 99 Visiting Assistant Professor, Department of Cell and Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia PA
- 2001 – present Editor, *Cell Biology Education Journal*
- 2002 – 2003 Visiting Associate Professor, Department of Cell and Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia PA
- 2002 – present Associate Professor of Cell Biology, Swarthmore College, Swarthmore PA
- 2006 – 2007 Visiting Associate Professor, Department of Cell and Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia PA
- 2008 – 2010 Chair of Biology Department, Swarthmore College
- 2010-2011 Visiting Associate Professor, Pacific Biosciences Research Center, Kewalo Marine Laboratory, University of Hawai'i, Honolulu, HI

Honors, Awards and Support:

- Western Reserve Scholar and Dean's List, CWRU
- Mortar Board Honor Society
- Phi Beta Kappa
- B.A. from CWRU: *magna cum laude*, with honors in Biochemistry
- PHS Department Program Training Grant, Princeton University
- University Research Board Fellowship, Princeton University (1990)
- Damon Runyon-Walter Winchell Post-doctoral Fellowship (1992-1995); full salary support
- Sigma Xi member, The Scientific Research Society 1995- present
- American Society of Cell Biology, member 1995-present
- National Institutes of Health R15 AREA award for "G1 cyclins and the regulation of DNA replication" (1996-2000) \$110,520
http://projectreporter.nih.gov/project_info_description.cfm?aid=2193682&icde=8767683

- National Institutes of Health R15 AREA award for “Characterization of the DNA replication protein Sid2p” (2001-2006) \$156,639
http://projectreporter.nih.gov/project_info_description.cfm?aid=6504632&icde=8767683
- American Cancer Society award for “Molecular mechanisms of cytokinesis in yeast” (2006-2009) in collaboration with Erfei Bi, University of Pennsylvania; second semester sabbatical salary
- Coral/Dinoflagellate Symbiosis Cell Biology Workshop University of Queensland and Heron Island Research Station, Australia January 2007, funded by NSF, the Australian Research Council and the Global Environment Facility
- Society for Integrative and Comparative Biology, member 2008-2009
- International Symbiosis Society, member 2009-present
- Eugene M. Lang Faculty Fellowship Swarthmore College sabbatical leave (2010-2011); *declined to accept NSF and NIH awards*
- NSF Research Opportunity Award for “Investigating the cell and molecular pathways of symbiosis” in collaboration with Mark Martindale, Kewalo Marine Laboratory (2010) \$30,000
- National Institutes of Health F33 National Research Service Award for Senior Fellows “Identifying cellular and molecular interactions along the pathway to symbiosis” (2011-2012) \$59,918.
http://projectreporter.nih.gov/project_info_description.cfm?aid=8056686&icde=8758267
- Invited Speaker, Society of Developmental Biology West Coast Meeting, Honolulu, HI. April 14-16th, 2011

Publications and manuscripts in preparation

- Silver, B.J., Bokar, J.A., Virgin, J.B., **Vallen, E.A.**, Milsted, A., and J.H. Nilson (1987). Cyclic AMP regulation of the human glycoprotein hormone alpha subunit gene is mediated by an 18-basepair element. *Proceedings of the National Academy of Sciences (USA)*, 84, 2198-2202.
- Vallen, E.A.**, Eldridge, K.A., and L.A.Culp (1988). Heparan sulfate proteoglycans in the substratum adhesion sites of human neuroblastoma cells: modulation of affinity binding to fibronectin. *Journal of Cellular Physiology*, 135, 200-212.
- Culp, L.A., Mugnai, G., Lewandowska, K., **Vallen, E.A.**, Kosir, M.A., and K.L. Houmiel (1989). Heparan sulfate proteoglycans of *Ras* -transformed 3T3 or neuroblastoma cells. In "Heparin and Related Polysaccharides." F.A. Ofofu, I. Danishefsky, and J. Hirsh, eds., *Annals of the New York Academy of Sciences*.
- Rose, M.D. and **E.A. Vallen** (1991). Acid loops fail the acid test. *Cell*, 65, 919-920.
- Vallen, E.A.**, Scherson, T.Y., Roberts, T., vanZee, K., and M.D. Rose (1992). Asymmetric mitotic segregation of the yeast spindle pole body. *Cell*, 69, 505-515.
- Vallen, E.A.**, Hiller, M.A., Scherson, T.Y., and M.D. Rose (1992). Separate domains of *KARI* mediate distinct functions in mitosis and nuclear fusion. *Journal of Cell Biology*, 117, 1277-1287.
- Vallen, E.A.** (1992). Genetic analysis of the yeast microtubule organizing center, or, how a used *kar* breaks down. Ph.D. Dissertation, Princeton University.
- Vallen, E.A.**, Ho, W., Winey, M., and M.D. Rose. (1994). Genetic interactions between *CDC31* and *KARI*, two genes required for duplication of the microtubule organizing center in *Saccharomyces cerevisiae*. *Genetics*, 137, 407-422.

- Vallen, E.A.** and F.R. Cross. (1995). Mutations in *RAD27* define a potential link between G1 cyclins and DNA replication. *Molecular and Cellular Biology*, 15, 4291-4302.
- Vallen, E.A.** and F. Cross (1999). Interaction between the *MEC1*-dependent DNA synthesis checkpoint and G1 cyclin function in *Saccharomyces cerevisiae*. *Genetics*, 151:459-471.
- Vallen, E.A.**, Caviston, J., and E.Bi. 2000. Roles of Hof1p, Bni1p, Bnr1p and Myo1p in cytokinesis in *Saccharomyces cerevisiae*. *Mol. Biol. Cell* 11: 593-611.
- Jacobson, M.J. *, Muñoz, C.X. *, Knox, K.S. *, Williams, B.E. *, Lu, L.L. *, Cross, F.R., and **E.A. Vallen**. (2001). Mutations in *SID2*, a novel gene in *S. cerevisiae*, cause synthetic lethality with *sic1* deletion and may cause a defect during S phase. *Genetics*, 159:17-33.
- Vallen, E.A.** (2002). Analysis of Protein Localization and Secretory Pathway Function Using the Yeast *Saccharomyces cerevisiae*. *Cell Biol Educ.*, 1:173-192.
- Devault, A., **Vallen, E.A.**, Yuan, T. *, Green, S. *, Bensimon, A. and E. Schwob. (2002). Identification of Tah11/Sid2 as the ortholog of the replication licensing factor Cdt1 in *Saccharomyces cerevisiae*. *Current Biology*, 12:689-94.
- Luo, J., **Vallen, E.A.**, Dravis, C., Tcheperegine, S.E., Drees, B., and E. Bi (2004). Identification and functional analysis of the essential and regulatory light chains of the only type II myosin Myo1p in *Saccharomyces cerevisiae*. *J Cell Biol.* 165:843-55
- Nishihama, R., Schreiter, J.H., Onishi, M., **Vallen, E.A.**, Hanna, J., Moravcevic, K., Lippincott, M.F. *, Han, H. *, Lemmon, M.A., Pringle, J.R., and E. Bi. (2009). Role of Inn1 and its interactions with Hof1 and Cyk3 in promoting cleavage furrow and septum formation in *S. cerevisiae*. *J Cell Biol.* 185:995-1012. (Note: the first four authors contributed equally to this paper).
- Kim, S. * and **E.A. Vallen** (February 27, 2010). Cover image, *Philosophical Transactions of the Royal Society, B. Biological Sciences*.
<http://rstb.royalsocietypublishing.org/content/365/1540.cover-expansion>
- Fang, X., Luo, J., Nishihama, R., Wloka, C., Dravis, C., Travaglia, M., Iwase, M., **Vallen, E.A.** and E. Bi. (2010). Biphasic Targeting and Cleavage Furrow Ingression Directed by the Tail of a Myosin-II. *J. Cell Biol.* 191: 1333-1350
- Wloka, C., Fang, X., **Vallen, E.A.**, Thé L.*, Krauss, M., and E. Bi. Myosin II plays a scaffolding role in cytokinesis and its dynamics are regulated by a putative assembly domain and IQGAP. *Under revision*, *J Cell Biol.* 2011.
- Berthet, J. *, Yarett, I. *, and **E.A. Vallen**. The spatial distribution of proliferating cells in the tentacle of the sea anemone *Aiptasia pallida* during different states of symbiosis. *In preparation*.
- Kim, S. *, Scanlon, E. *, Hussain, F. * and **E.A. Vallen**. Entering symbionts cause changes in a host cytoskeleton-membrane linker protein in the sea anemone, *Aiptasia pallida*. *In preparation*.
- Vallen, E.A.** and M.Q. Martindale. Responses of the anemone, *Nematostella vectensis*, to microbes and particles. *In preparation*.

*Indicates Swarthmore College undergraduate co-authors

Posters presented at meetings (since promotion to Associate Professor in 2002):

- Bass, K.L.* , Lippincott, M.F.* , Bi, E., and E.A.Vallen. (2002). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. American Society of Cell Biology Meeting, San Francisco, CA.
- Luo, J., Dravis, C., Vallen, E.A., Tcheperegine, S.E., Drees, B., and E. Bi (2003). Identification and functional analysis of the essential and regulatory light chains for the only type II myosin Myo1p in *Saccharomyces cerevisiae*. American Society of Cell Biology Meeting, San Francisco, CA.
- Vallen, E.A., Iwase, M., Bass, K.L.* , Lippincott, M.F.* , Castro, F.* and E. Bi. (2004). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. American Society of Cell Biology Meeting, Washington D.C.
- Boyle, S.* and E.A.Vallen. (2005). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Chang, N.* and E.A.Vallen. (2005). Microarray analysis identifies differentially expressed genes in *myo1* mutants of *Saccharomyces cerevisiae*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Thé, L.* , Iwase, M., Bi, E., Lippincott, M.F.* , Bass, K.* and E.A. Vallen. (2005). Characterization of myosin mutants in *Saccharomyces cerevisiae*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Vallen, E.A., Iwase, M., Bass, K.L.* , Boyle, S.* , Chang, N.* , Lippincott, M.F.* , Thé, L.* and E. Bi. (2005). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. Yeast Cell Biology Meeting, Cold Spring Harbor, NY.
- Palmer, C.* , Yang, P.* , Negrey, N.* , Yang, M.* and **E.A. Vallen**. (2006). Identifying novel cytokinesis genes in *Saccharomyces cerevisiae* mutants synthetically lethal with *hof1Δ*. Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA.
- Thé, L.* , Prow, S.* , Buffie, C.* , Maurer, M.* , Kassab, M.* and **E.A. Vallen**. (2006). Characterization of *HOF1*-dependent myosin mutants and suppressors in *Saccharomyces cerevisiae*. Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA.
- Vallen, E.A.**, Thé, L.* , Palmer, C.* , Luo, J., Yang, P.* , Lippincott, M.F.* , Iwase, M. and E. Bi. (2006). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. Yeast Genetics and Molecular Biology Meeting- Genetics Society of America, Princeton, NJ.
- Thé, L.* , Palmer, C.* , Bi, E. and **E.A.Vallen**. (2006). Characterization of *HOF1*-dependent myosin mutants and suppressors in *Saccharomyces cerevisiae*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Bhattacharai, H.* , Han, H.* and **E.A.Vallen**. (2006). Identifying genes involved in cytokinesis in *Saccharomyces cerevisiae* by characterizing two *HOF1*-dependent mutants. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Vallen, E.A.**, Thé, L.* , Palmer, C.* , Luo, J., Yang, P.* , Lippincott, M.F.* , Iwase, M. and E. Bi. (2006). Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. American Society of Cell Biology Meeting, San Diego, CA.
- Han, H.* , **Vallen, E.**, Bi, E., and J. Schreiter. (2007). Investigating a role of *YNL152* during cytokinesis in *Saccharomyces cerevisiae*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Vallen, E.A.**, Shreiter, J.H., Han, H.* , Bhattacharai, H.* and E. Bi. (2007).

- Characterization of cytokinesis mutants in *Saccharomyces cerevisiae*. American Society of Cell Biology Meeting, Washington D.C.
- Luo, J., Fang, Z., **Vallen, E.A.**, Dravis, C., Travaglia, M., Iwase, M., Franzini-Armstrong, C., and E. Bi. (2007). Myo1p, the sole type II myosin in *Saccharomyces cerevisiae*, is a dimer and targets to the division site via interaction with the septins. American Society of Cell Biology Meeting, Washington D.C.
- Hussain, F. *, Merz, R.A. and **E. Vallen** (2008). How does the cell morphology of the sea anemone, *Aiptasia pallida*, change as a result of its symbiosis with intracellular zooxanthellae? Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Yarett, I. *, Hussain, F. *, Stockbower, K. *, Taschuk, F. *, Merz, R.A. and **E. Vallen**. (2008). The patchy distribution of zooxanthellae in the gastroderm of symbiotic anemones. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Taschuk, F. * and **E.A. Vallen**. (2008). Use of degenerate PCR to search for opsin-like genes in *Aiptasia pallida*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.
- Hussain, F.N.*; Merz, R.A. and **E.A. Vallen**. (2009). How does the cell morphology of the sea anemone, *Aiptasia pallida*, change as a result of its symbiosis with intracellular zooxanthellae? Society for Integrative and Comparative Biology Annual Meeting, Boston, MA.
<http://www.sicb.org/meetings/2009/schedule/abstractdetails.php3?id=1181>
- Merz, R.A., Hussain, F.N.*, Stockbower, K.A.*, Taschuk, F.O.*, Yarett, I.R.*, Santos, S.R., Xiang, Y. and **E.A.Vallen** (2009). The patchy distribution of zooxanthellae in the gastrodermal landscape of symbiotic anemones. Society for Integrative and Comparative Biology Annual Meeting, Boston, MA.
<http://www.sicb.org/meetings/2009/schedule/abstractdetails.php3?id=926>
- Berthet, J.*, Yarett, I.*, Merz, R.A, and **E.A. Vallen** (2009). Cell proliferation in the symbiotic cnidarian *Aiptasia pallida*: which cells are replicating their DNA? International Symbiosis Society Congress, Madison, WI.
- Kim, S. *, Hussain, F.*, Merz, R.A, and **E.A. Vallen** (2009). How to accommodate cells within your cells? Changes in the cnidarian cytoskeleton in the presence of *Symbiodinium*. International Symbiosis Society Congress, Madison, WI.
- Taschuk, F. * and **E.A. Vallen**. (2009). Immunofluorescence imaging of Ezrin/Radixin/Moesin-family proteins in *Aiptasia pallida*. Sigma Xi Poster Session, Swarthmore College, Swarthmore PA 19081.

*Indicates Swarthmore College undergraduate co-authors

College and departmental service (since promotion to Associate Professor in 2002):

- 2001-2002 – Faculty co-organizer, Themes in Biology (Biol 97)
Health Sciences Advisory Committee
Faculty advisory council to the Dean of Admissions
- 2002-2003 – (Sabbatical year)
- 2003-2004 – Fall semester, maternity leave
Howard Hughes Medical Institute Grant Proposal Committee:
Precollege outreach and assessment

- 2004-2005 – Search committee, tenure-track plant physiologist
Faculty organizer, Themes in Biology (Biol 97)
Howard Hughes Medical Institute College Committee
Science Coordinator, Chester Children's Chorus
Science Partnership Coordinator, Biology Department
Faculty advisory committee for the Lang Center for Civic and Social Responsibility
Open Access Discussion – Faculty Lunch
- 2005-2006 - Bio 1 coordinator
Teacher education committee
Cooper Committee
Howard Hughes Medical Institute College Committee
Science Coordinator, Chester Children's Chorus
Science Partnership Coordinator, Biology Department
- 2006-2007 – (Sabbatical year)
Science Coordinator, Chester Children's Chorus
Search committees: laboratory instructor and academic coordinator
- 2007-2008 – Committee of Faculty Procedures, elected committee
Howard Hughes Medical Institute College Committee
Science Coordinator, Chester Children's Chorus
Science Partnership Coordinator, Biology Department
Ad Hoc Committee for Community Leadership and Partnership
- 2008-2009 – Committee of Faculty Procedures, elected committee
Howard Hughes Medical Institute College Committee
Science Coordinator, Chester Children's Chorus
Science Partnership Coordinator, Biology Department
Chair of Biology Department
College Presidential Search Committee
Search committee: laboratory instructor
- 2009-2010 – Chair of Biology Department
Science Coordinator, Chester Children's Chorus; HHMI grant
Science Partnership Coordinator, Biology Department
Inauguration Committee
Advisory Council to the Dean
Panel: Student Government discussion of textbook prices
Search committee: laboratory instructor
- 2009-2010 – (Sabbatical year)
- 2010-2011 – Committee for Educational Policy, elected committee
Search committee, tenure-track developmental biologist

Teaching experience at Swarthmore:

- Cell and Molecular Biology with laboratory (BIOL 001) Fall semesters: 1995, 1996, 1997, 2000, 2001, 2004, 2005, 2007
- Cell Biology with laboratory (BIOL 021, BIOL 014) Spring semesters: 1996, 1997, 1998, 2000, 2001, 2002, 2004, 2005, 2006, 2008, 2009, 2010
- Regulation of Cell Division Honors seminar with research component (BIOL 051; BIOL 114) Fall semesters: 1996, 1997, 2000, 2001, 2004, 2005

Symbiotic Interactions Honors seminar with research component (BIOL 114) Fall semester: 2007, 2008, 2009

Science for Kids (middle school science partnership program with the Chester Children's Chorus) Summer 2004, 2005, 2006, 2007, 2008, 2009

<http://www.swarthmore.edu/x27449.xml>

Professional Service:

Reviewer, *Current Biology*, *Genetics*, *Eukaryotic Cell*, *Cell Biology Education*, Wiley Publishers, W.H. Freeman Publishers, Addison Wesley Publishers, National Science Foundation

Ad hoc grant Reviewer, NIH panel for Academic Research Enhancement Awards 1996, 1999

2000-present Member, Genome Consortium for Active Teaching (GCAT) to bring functional genomic methods into undergraduate curriculum primarily through student research

2001 Tri-College Science Teaching Symposium discussion facilitator

2001- 2003 Book Review Editor, *Cell Biology Education* Journal, published by the American Society of Cell Biology

2001- present Associate Editor, *Cell Biology Education* Journal, published by the American Society of Cell Biology

2003-2004 promotion/tenure reviews for other institutions (3)

2004-2005 promotion/tenure reviews for other institutions (2)

2005-2006 promotion/tenure reviews for other institutions (2)

2007-2008 promotion/tenure reviews for other institutions (1)

2008-2009 promotion/tenure reviews for other institutions (1)

2010-2011 promotion/tenure reviews for other institutions (2)

Invited seminars

Research: Philadelphia Area Yeast Meeting, April 2001

Research: Swarthmore College, October 2001

Teaching: American Society of Cell Biology Career Panel, December 2001

Research: Swarthmore College Alumni Weekend, June 2005

Science Partnership with Chester Children's Chorus: Swarthmore College Volunteers Weekend, September 2005

Teaching & Research: Mellon Workshop on Teaching and Doing Research with Eukaryotic Microbes, Pomona College, Invited Speaker. January 2006

Teaching: Introductory biology for the masses and for the aficionados: can one course serve both? Princeton University October 2006

Research: What good are model systems, anyway? Coral/Dinoflagellate Symbiosis Cell Biology Workshop University of Queensland and Heron Island Research Station, Australia January 2007

Science for Kids: A partnership with the Chester Children's Chorus. Swarthmore College Faculty Lunch. April 2008.

Teaching & Research: Career opportunities in liberal arts colleges. Society of Developmental Biology West Coast Meeting, Honolulu, HI. April 14-16th, 2011.

Student projects supervised (since promotion to Associate Professor in 2002):

SUMMER RESEARCH			
Year	Student	Project title	Presented or published
2002	Kirstin Bass	Identification and characterization of <i>myo1</i> alleles affecting cytokinesis in <i>Saccharomyces cerevisiae</i>	American Society of Cell Biology Meeting, 2001, 2002, 2004; Sigma Xi Poster Session, Swarthmore College, 2005; Yeast Cell Biology Meeting, Cold Spring Harbor, NY 2005
2002	Tina Liberatore (high school student)	Characterization of cytokinesis mutants in <i>Saccharomyces cerevisiae</i>	
2002, 2003	Jessica Tashjian	Mapping dominant suppressors of a temperature-sensitive mutation in <i>SID2/CDT1</i> in <i>Saccharomyces cerevisiae</i>	
2004	Stacey Prow	Characterization of <i>HOF1</i> -dependent myosin mutants and suppressors in <i>Saccharomyces cerevisiae</i>	Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA, 2006
2004	Francisco Castro	Characterization of cytokinesis mutants in <i>Saccharomyces cerevisiae</i>	American Society of Cell Biology Meeting, 2004
2005	Nile Chang	Microarray analysis identifies differentially expressed genes in Δ <i>myo1</i> mutants of <i>Saccharomyces cerevisiae</i>	Sigma Xi Poster Session, Swarthmore College, 2005; Yeast Cell Biology Meeting, Cold Spring Harbor, NY 2005
2005	Simone Boyle	Characterization of cytokinesis mutants in <i>Saccharomyces cerevisiae</i>	Sigma Xi Poster Session, Swarthmore College, 2005; Yeast Cell Biology Meeting, Cold Spring Harbor, NY 2005
2005	Lydia Thé	Characterization of myosin mutants in <i>Saccharomyces cerevisiae</i>	Sigma Xi Poster Session, Swarthmore College, 2005, 2006; Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA, 2006; Yeast Genetics and Molecular Biology Meeting- Genetics Society of America, Princeton, NJ 2006; American Society of Cell Biology meeting 2006, under revision for Journal of Cell Biology
2005	Jessica Bachrach	<i>Co-advised with K. A. Renninger, Dept of Educational Studies, Swarthmore College. Analysis of learning gains by children in a summer science program.</i>	Learner interest and achievement motivation. In: Advances in motivation and achievement, Volume 15. 2008

SUMMER RESEARCH cont'd			
2006	Hitesh Bhattarai	Identifying genes involved in cytokinesis in <i>Saccharomyces cerevisiae</i> by characterizing two <i>HOF1</i> -dependent mutants	Sigma Xi poster session, Swarthmore College 2006; American Society of Cell Biology meeting 2007
2006	Colin Palmer	Characterization of cytokinesis mutants in <i>Saccharomyces cerevisiae</i>	Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA, 2006; Yeast Genetics and Molecular Biology Meeting- Genetics Society of America, Princeton, NJ, 2006; Sigma Xi Poster Session, Swarthmore College, 2006; American Society of Cell Biology meeting 2006
2006, 2007	Haesun Han	Identifying genes involved in cytokinesis in <i>Saccharomyces cerevisiae</i> by characterizing two <i>HOF1</i> -dependent mutants	Sigma Xi poster session, Swarthmore College 2006, 2007; American Society of Cell Biology meeting 2007; J Cell Biol. 185:995-1012 (2009)
2008	Frances Taschuk	Use of degenerate PCR to search for opsin-like genes in <i>Aiptasia pallida</i>	Sigma Xi Poster Session, Swarthmore College, 2008; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA 2009
2008	Farah Hussain	Does the cytoskeleton of the sea anemone, <i>Aiptasia pallida</i> , change as a result of its symbiosis with zooxanthellae?	Sigma Xi Poster Session, Swarthmore College, 2008; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA 2009; in preparation for publication
2008	Ian Yarett	Spatial distribution of proliferating cells during tentacle regeneration in the sea anemone <i>Aiptasia pallida</i>	Sigma Xi Poster Session, Swarthmore College, 2008; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA 2009; in preparation for publication
2009	Sara Kim	How to accommodate cells within your cells? Changes in the cnidarian cytoskeleton in the presence of <i>Symbiodinium</i>	International Symbiosis Society Congress, Madison, WI 2009; in preparation for publication
2009	Julia Berthet	The spatial distribution of proliferating cells in the sea anemone <i>Aiptasia pallida</i> during different states of symbiosis	International Symbiosis Society Congress, Madison, WI 2009; in preparation for publication
2009	Frances Taschuk	Immunofluorescence imaging of Ezrin/Radixin/Moesin-family proteins in <i>Aiptasia pallida</i>	Sigma Xi Poster Session, Swarthmore College, 2009; in preparation for publication

BIOLOGY 180: HONORS THESIS RESEARCH			
Year	Student	Project title	Presented or published
2002	Kirstin Bass	Identification and characterization of <i>myo1</i> alleles affecting cytokinesis in <i>Saccharomyces cerevisiae</i>	American Society of Cell Biology Meeting, 2001, 2002, 2004; Sigma Xi Poster Session, Swarthmore College, 2005; Yeast Cell Biology Meeting, Cold Spring Harbor, NY 2005
2002	Kim Tu	Formin' the actin ring: The role of formins in cytokinesis in the budding yeast <i>Saccharomyces cerevisiae</i>	<i>On campus advisor for off-campus thesis</i>
2002, 2003	Jessica Tashjian	Mapping dominant suppressors of a temperature-sensitive mutation in <i>SID2/CDT1</i> in <i>Saccharomyces cerevisiae</i>	
2002, 2003	Stephen Cook	Characterization of androgen receptor interactions and mobility <i>in vivo</i>	<i>On campus advisor for off-campus thesis</i>
2002, 2003	Renuka Nayak	Loss and replenishment of germline stem cells in aging <i>Drosophila melanogaster</i> testes	<i>On campus advisor for off-campus thesis</i>
2008, 2009	Caitlin Mullarkey	Novel characterization of a protein implicated in pigmentary glaucoma and glioblastomas	<i>On campus advisor for off-campus thesis</i>
2008, 2009	Ian Yarett	Spatial distribution of proliferating cells during tentacle regeneration in the sea anemone <i>Aiptasia pallida</i>	Sigma Xi Poster Session, Swarthmore College, 2008; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA 2009; in preparation for publication
2008, 2009	Farah Hussain	Does the cytoskeleton of the sea anemone, <i>Aiptasia pallida</i> , change as a result of its symbiosis with zooxanthellae?	Sigma Xi Poster Session, Swarthmore College, 2008; Society for Integrative and Comparative Biology Annual Meeting, Boston, MA 2009; in preparation for publication
2009, 2010	Julia Berthet	The spatial distribution of proliferating cells in the sea anemone <i>Aiptasia pallida</i> during different states of symbiosis	International Symbiosis Society Congress, Madison, WI 2009; in preparation for publication

BIOLOGY 94. RESEARCH PROJECT			
Year	Student	Project title	Presented or published
2005, 2006	Nile Chang	Microarray analysis identifies differentially expressed genes in <i>Amyo1</i> mutants of <i>Saccharomyces cerevisiae</i>	Sigma Xi Poster Session, Swarthmore College, 2005; Yeast Cell Biology Meeting, Cold Spring Harbor, NY 2005
2006	Peter Yang	Identifying novel cytokinesis genes in <i>Saccharomyces cerevisiae</i> mutants synthetically lethal with <i>hof1Δ</i> .	Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA, 2006; American Society of Cell Biology meeting 2006
2006	Lydia Thé	Characterization of myosin mutants in <i>Saccharomyces cerevisiae</i>	Sigma Xi Meeting, St. Joseph's University, Philadelphia, PA, 2006; under revision for Journal of Cell Biology
2006	Stacey Prow	Characterization of dominant suppressors of a <i>sid2</i> mutation in <i>Saccharomyces cerevisiae</i>	
2008	Seth Donoughe	Symbiont-mediated light response behavior (phototaxis) of the sea anemone, <i>Aiptasia pallida</i>	
2010	Julia Wittes	Bleaching of darkness-stressed <i>Aiptasia pallida</i> may be regulated by a nitric oxide pathway	
2010	Erin Scanlon	Entering Symbionts Cause Changes in a Host Cytoskeleton-Membrane Linker Protein in the Sea Anemone, <i>Aiptasia pallida</i>	Departmental seminar; in preparation for publication
2010	Sara Kim	Entering Symbionts Cause Changes in a Host Cytoskeleton-Membrane Linker Protein in the Sea Anemone, <i>Aiptasia pallida</i>	Departmental seminar; in preparation for publication
2010	Mollie Barnard	Bleaching of darkness-stressed <i>Aiptasia pallida</i> may be regulated by a nitric oxide pathway	

BIOLOGY 93: INDEPENDENT STUDY		
Year	Student	Independent study title
2006	Jean Schneider	Directed reading in Cell Biology
2006	Jessica Wong	Directed reading in Cell Biology
2008	Zamia Diaz	Directed reading in Cell Biology