

Curriculum Vitae: Thomas Jack

Current Appointment

Department of Biological Sciences
Dartmouth College
Hanover, New Hampshire 03755
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email: thomas.p.jack@dartmouth.edu

Education

1982 B.S., Biology. Haverford College. Haverford, Pennsylvania
Graduated with high honors, magna cum laude
1990 Ph.D. Yale University. New Haven, Connecticut
Department of Molecular Biophysics and Biochemistry

Academic and Research Experience

2006-2012, 2017-present Chair, Department of Biological Sciences, Dartmouth College
2009-2010 Program Director, Integrative Organismal Systems, Developmental Systems Cluster, Biology Directorate, National Science Foundation
2011-present Professor, Department of Biological Sciences, Dartmouth College
1999-2010 Associate Professor, Department of Biological Sciences, Dartmouth College
1993-1998 Assistant Professor, Department of Biological Sciences, Dartmouth College
1990-1993 Postdoctoral Research, California Institute of Technology
Subject: Molecular and genetic analysis of the *APETALA3* gene of Arabidopsis
In the lab of Dr. Elliot Meyerowitz
1984-1989 Graduate Research, Yale University
Ph.D. thesis: Studies on the establishment of expression of the
Drosophila homeotic gene *Deformed*
In the lab of Dr. William McGinnis
1982-1984 Research Associate, Biogen Incorporated. Cambridge, MA

Scholarships and Honors

2012-present Partnership for Undergraduate Life Sciences Education (PULSE) Vision and Change Leadership Fellow
2014-2016 DCAL (Dartmouth Center for the Advancement of Learning) Faculty Fellow
2001 Floren Faculty Award, Dartmouth College
1997 Dartmouth College Junior Faculty Fellowship
1990-1993 NIH postdoctoral fellowship
1984-1988 NIH predoctoral training grant

Professional Service

Program Director, Developmental Systems Cluster, Biology Directorate, National Science Foundation. 2009-2010.
Member Editorial Advisory Board, *The Open Plant Science Journal*, 2008-2011.
Advisory Editor for *Plant Molecular Biology*, 1999-2002.
Ad hoc grant proposal review for NSF, USDA, DOE (US Department of Energy), BARD, Israeli Science Foundation, Australian Research Council, and others.
Panel member (*ad hoc*), NIH Biology-1 Study Section, NSRA postdoctoral proposals in Genetics 11/99 and 7/00. Panel member (*ad hoc*) DEV-1 RO1 panel, 10/04. Panelist NSF Eukaryotic Genetics Panel, 4/03 and 10/03, US Department of Agriculture/CSREES, Developmental Processes of Crop Plants, 6/04 and 5/05, Panelist NSF Plant and Developmental Mechanisms Panel, 4/07.
Manuscript review for *Science*, *Nature*, *Plant Cell*, *Development*, *Developmental Cell*, *Genetics*, *Genes and Development*, *Proceedings of the National Academy of Sciences USA*, *Nature Biotechnology*, *Nature Protocols*, *Nucleic Acids Research*, *Plant Molecular Biology*, *Plant*

Journal, Plant Physiology, Trends in Plant Science, Journal of Experimental Botany, Plant Science, Molecular Plant, International Journal of Plant Science, Plant Cell and Environment, Functional and Integrative Genomics, Developmental Genetics, Developmental Biology, Molecular Plant Microbe Interactions, PLoS Genetics, PLoS Computational Biology, PLoS One, BMC Genomics, Microscopy Research and Technique, Journal of Integrative Plant Biology, Sexual Plant Reproduction, Planta, Plant Science, Plant and Cell Physiology, American Journal of Botany, Annals of Botany, New Phytologist, Journal of American Horticulture, Flowering Newsletter, Proceedings of the Indian Institute of Science and Biological Chemistry.

Co-organizer (with Drs. Caren Chang and Jose-Luis Riechmann) of a one-day meeting on “Plant Development” to celebrate Elliot Meyerowitz’ 60th birthday. Pasadena, CA. May 23, 2011.

Outside Ph.D. thesis examiner

- 1) John Alvarez, graduate student of Dr. David Smyth, Department of Genetics and Developmental Biology, Monash University, Clayton, Melbourne, Victoria, Australia. Received Ph.D. in October, 1997.
- 2) Theresa Hill, graduate student of Dr. Vivian Irish, Department of Cell and Developmental Biology, Yale University, New Haven, CT. Received Ph.D. in June, 2000.
- 3) Jeffrey Pylatuik, graduate student of Dr. Peta Bonham-Smith, Department of Botany, University of Saskatchewan, Saskatoon, Saskatchewan. Received Ph.D. in August, 2001.
- 4) P. Sriram, graduate student of Dr. Usha Vijayraghavan, Indian Institute of Science, Bangalore, India. 2006.
- 5) Chloe Diamond Mara, graduate student of Dr. Vivian Irish, Department of Cell and Developmental Biology, Yale University, New Haven, CT. Received Ph.D. in June, 2008.

Grant Support

Previous

NSF. Developmental Mechanisms Program. “Analysis of floral organ identity in Arabidopsis”. 9/15/94-8/31/99. \$315,000 direct plus indirect. Principle Investigator.

USDA/CSREES. Plant Growth and Development. “Use of enhancer traps to isolate novel floral control genes” 10/1/96-10/31/00. \$92,220 direct plus indirect. Principle Investigator.

NSF. Eukaryotic Genetics. MCB-0090742 “Dimerization of floral organ identity proteins in Arabidopsis”. 3/15/01-2/28/04. \$357,418 direct plus indirect. Principle Investigator.

USDA/CSREES. Plant Growth and Development. “Molecular and genetic characterization of the REM gene family in Arabidopsis”. 9/03-8/06. \$150,000 direct plus indirect. Principle Investigator.

NSF, Plant and Microbial Developmental Mechanisms. “Molecular and genetic analysis of the AP3/PI pathway in Arabidopsis”. 9/05-8/08. \$458,383 direct plus indirect. Principle Investigator.

NSF, Plant and Microbial Developmental Mechanisms. "Role of miR319a in petal and stamen development in Arabidopsis" 7/09-12/13. \$620,157 direct plus indirect. Principle Investigator.

US Department of Education, Graduate Assistance in Areas of National Need (GAANN). “Increasing Graduate Education in the Biological Sciences”. 8/15/09-8/14/13. \$522,624. Project Director.

NSF, Division of Biological Infrastructure. “PULSE Working Group Workshop”. 1/15/13-1/14/14. \$15,017 direct plus indirect. Principle Investigator.

US Department of Education, Graduate Assistance in Areas of National Need (GAANN). “Increasing Graduate Education in the Biological Sciences”. 8/15/12-8/14/15. \$535,000. Co-Project Director (M. Ayres, Project Director).

Active

NSF, Division of Biological Infrastructure. “Taking the PULSE: Vision & Change Certification Program Pilot, Phase One”. 9/1/13-8/31/16. \$99,488. Co-Principle Investigator (P. Pape-Lindstrom, Everett Community College Washington, Principle Investigator).

Publications

Research Publications in Refereed Journals

- [1] Jack, T., Regulski, M., and McGinnis, W. (1988). Pair-rule segmentation genes regulate the expression of the homeotic selector gene *Deformed*. *Genes & Dev.* 2, 635-651.
- [2] Barad, M., Jack, T., Chadwick, R., and McGinnis, W. (1988). A novel, tissue-specific *Drosophila* homeobox gene. *EMBO J.* 7, 2151-2161.
- [3] Jack, T., and McGinnis, W. (1990). Establishment of the *Deformed* expression stripe requires the combinatorial action of coordinate, gap, and pair-rule proteins. *EMBO J.* 9, 1187-1198.
- [4] Chadwick, R., Jones, B., Jack, T., and McGinnis, W. (1990). Ectopic expression from the *Deformed* gene triggers a dominant defect in *Drosophila* adult head development. *Dev. Biol.* 141, 130-140.
- [5] Bowman, J. L., Sakai, H., Jack, T., Weigel, D., and Meyerowitz, E. M. (1992). *SUPERMAN*, a regulator of floral homeotic genes in *Arabidopsis*. *Development* 114, 599-615.
- [6] Jack, T., Brockman, L. L., and Meyerowitz, E. M. (1992). The homeotic flower gene *APETALA3* of *Arabidopsis thaliana* encodes a MADS box and is expressed in petals and stamens. *Cell* 68, 683-697.
- [7] Jack, T., Fox, G. L., and Meyerowitz, E. M. (1994). *Arabidopsis* homeotic gene *APETALA3* ectopic expression: transcriptional and post-transcriptional regulation determine floral organ identity. *Cell* 76, 703-716.
- [8] Jack, T., Sieburth, L., and Meyerowitz, E. M. (1997). Targeted misexpression of *AGAMOUS* in whorl 2 of *Arabidopsis* flowers. *Plant Journal* 11, 825-839.
- [9] Tilly, J., Allen, D. W., and Jack, T. (1998). The CArG boxes in the promoter of the *Arabidopsis* floral organ identity gene *APETALA3* mediate diverse regulatory effects. *Development* 125 1647-1657.
- [10] Yi, Y., and Jack, T. (1998). An intragenic suppressor of the *Arabidopsis* floral organ identity mutant *apetala3-1* functions by suppressing defects in splicing. *Plant Cell* 10, 1465-1477.
- [11] Campisi, L., Yang, Y., Yi, Y., Heilig, E., Herman, B., Cassista, A. J., Allen, D. W., Xiang, H., and Jack, T. (1999). Generation of enhancer trap lines in *Arabidopsis* and characterization of expression patterns in the inflorescence. *Plant J.* 17, 699-707.
- [12] Swaminathan, K., Yang, Y., Grotz, N., Campisi, L., and Jack, T. (2000). An enhancer trap line associated with a D class cyclin gene in *Arabidopsis*. *Plant Phys.* 124, 1658-1667.
- [13] He, Y., Tang, W., Swain, J., Green, A., Jack, T., and Gan, S. Networking senescence-regulating pathways by using *Arabidopsis* enhancer trap lines. (2001). *Plant Phys.* 126, 707-716.
- [14] Yang, Y., Fanning, L., and Jack, T. (2003a). The K domain mediates heterodimerization of the *Arabidopsis* floral organ identity proteins, *APETALA3* and *PISTILLATA*. *Plant J.* 33, 47-60. (Work featured in cover photograph.)
- [15] Yang, Y., Xiang, H., and Jack, T. (2003b). *plastillata-5*, an *Arabidopsis* floral organ identity mutant with defects in petal development. *Plant J.* 33, 177-188.
- [16] Yang, Y., and Jack, T. (2004). Defining subdomains of the K domain important for protein-protein interactions of plant MADS proteins. *Plant Mol. Biol.* 55, 45-59.
- [17] Nag, A., Yang, Y., and Jack, T. (2007). The AP2 gene *DORNRÖSCHEN-LIKE* is necessary for stamen emergence in *Arabidopsis*. *Plant Mol. Biol.* 65, 219-232. (Work featured in cover photograph.)
- [18] Piwarzyk, E., Yang, Y., and Jack, T. (2007). The conserved C-terminal motifs of the *Arabidopsis* proteins AP3 and PI are dispensable for function. *Plant Phys.* 145, 1495-1505. (This work received a Faculty of 1000 citation)
- [19] Swaminathan, K., Peterson, K., and Jack, T. (2008). The plant B3 superfamily. *Trends in Plant Science* 13, 647-655.
- [20] Nag, A., King, S., and Jack, T. (2009). miR319a targeting of *TCP4* is critical for petal growth and development in *Arabidopsis*. *Proc. Natl. Acad. Sci. USA* 106, 22534-22539.
- [21] Prunet, N., Morel, P., Champelovier, P., Thierry, A.-M., Negrutiu, I., Jack, T., and Trehin, C. (2015). *SQUINT* promotes stem cell homeostasis and floral meristem termination in *Arabidopsis* through *APETALA2* and *CLAVATA* signaling. *J. Ex. Bot.* 66, 6905-6916.

- [22] Prunet, N., Jack, T. P., and Meyerowitz, E. M. (2016). Live confocal imaging of Arabidopsis flower buds. *Dev. Biol.* 419, 114-120, doi: 10.1016/j.ydbio.2016.03.018.
- [23] Prunet, N., Yang, W., Das, P., Meyerowitz, E. M., and Jack, T. P. (2017). *SUPERMAN* prevents class B gene expression and promotes stem cell termination in the fourth whorl of *Arabidopsis thaliana* flowers. *PNAS* 114, 7166-7171.
- [23] Xu, Y., Prunet, N., Gan, E.-S., Wang, Y., Stewart, D., Wellmer, F., Huang, J., Yamaguchi, N., Tatsumi, Y., Kojima, M., Kiba, T., Sakakibara, H., Jack, T. P., Meyerowitz, E. M., Ito, T. (2018). *SUPERMAN* regulates floral whorl boundaries through control of auxin biosynthesis. *EMBO J.* 37: e97499. doi: 10.15252/embj.201797499.

Book Chapters and Reviews (peer reviewed)

- [1] Meyerowitz, E. M., Bowman, J. L., Brockman, L. L., Drews, G. N., Jack, T., Sieburth, L. E., and Weigel, D. (1991). A genetic and molecular model for flower development in *Arabidopsis thaliana*. *Development Supplement* 1, 157-167.
- [2] Jack, T., Sieburth, L., and Meyerowitz, E. M. (1993). Genes that control flower development in Arabidopsis. *Seminars in Dev. Bio.* 4, 51-63.
- [3] Jack, T. (2001). Relearning our ABCs: new twists on an old model. *Trends in Plant Science* 6, 311-316.
- [4] Jack, T. (2001). Plant development going MADS. *Plant Mol. Biol.* 46, 515-520.
- [5] Jack, T. (2002). New members of the floral organ identity AGAMOUS pathway. *Trends in Plant Science* 7, 286-287.
- [6] Jack, T. (2004). Molecular and genetic mechanisms of floral control. *Plant Cell* 16, S1-S17.
- [7] Nag, A., and Jack, T. (2010). Sculpting the flower: the role of miRNAs in flower development. *Current Topics Dev. Biol.* 91, 349-378.
- [8] Prunet, N. and Jack, T. (2014). Flower development in Arabidopsis – there’s more to it than learning your ABCs. In *Methods in Molecular Biology - Flower Development: Methods and Protocols* (F. Wellmer and J.-L. Riechmann editors), 3-33.
- [9] Wellmer, F., Bowman, J. L., Davies, B., Ferrandiz, C., Fletcher J. C., Franks, R. G., Graciet, E., Gregis, V., Ito, T., Jack, T. P., Jiao, Y., Kater, M. M., Ma, H., Meyerowitz, E. M., Prunet, N., and Riechmann, J. L. (2014). Flower Development: Open Questions and Future Directions. In *Methods in Molecular Biology - Flower Development: Methods and Protocols* (F. Wellmer and J.-L. Riechmann editors), 103-124.

Book Chapters and Reviews (not peer reviewed)

- [1] McGinnis, W., Jack, T., Chadwick, R., Regulski, M., Bergson, C., McGinnis, N., and Kuziora, M. A. (1990). Establishment and maintenance of position-specific expression of the *Drosophila* homeotic selector gene *Deformed*. In *Genetic Regulatory Hierarchies in Development* (T. R. F. Wright ed.). Academic Press, San Diego.
- [2] Jack, T. (2003). Book review of *Patterns in Plant Development* by Ottoline Leyser and Stephen Day. *Quarterly Review of Biology* 78, 99-100.
- [3] Jack, T. (2003). Flower development. *Encyclopedia of Plant and Crop Science* (R. Goodman, editor) 464-467.

Biology Education Publications

- [1] Aguirre, K. M., Balsler, T. C., Jack, T., Marley, K. E., Miller, K. G., Osgood, M. P., Pape-Lindstrom, P. A., and Romano, S. L. (2013). PULSE Vision & Change Rubrics. *CBE-Life Sciences Education* 12, 579-581. (corresponding author).
- [2] Jacob, N., Lee-Brown, M., Allen, T., Gusky, S., and Jack, T. (2013). Catalysing educational transformation: The PULSE Project. *GARNish Newsletter* 20, 18-21.
- [3] Gauthier, A., and Jack, T. (2014). The Professor and the instructional designer: a course design journey. *Transformations: Liberal Arts in the Digital Age*, <http://www.academiccommons.org/2014/07/24/the-professor-and-the-instructional-designer-a-course-design-journey/>.
- [4] Pape-Lindstrom, P. A., Jack, T., Miller, K. G., Aguirre, K. M., Awong-Taylor, J., Balsler, T. C., Awong-Taylor, J., Brancaccio-Taras, L., Marley, K. E., Osgood, M. P., Peteroy-Kelly, M., Romano, S. L. (2015). PULSE pilot certification results. *J. Microbiol. Ed.* 16, 127-129.

- [5] Brancaccio-Taras, L., Pape-Lindstrom, P. A., Peteroy-Kelly, M., Aguirre, K. M., Awong-Taylor, J., Balsler, T. C., Cahill, M., Frey, G., Jack, T., Kelrick, M., Marley, K. E., Miller, K. G., Osgood, M. P., Romano, S. L. Uzman, J. A., Zhao. J. (2016). The PULSE Vision & Change Rubrics: A valid and equitable tool to measure life sciences department transformation at all institution types. *CBE-Life Sci. Ed.* 15, ar60, doi: 10.1187/cbe.15-12-0260.

Advisees:

Graduate Ph.D. Students

- Jody Tilly (1994-2000). Thesis title: “Transcriptional regulation of the *APETALA3* gene of *Arabidopsis thaliana*” Ph.D. awarded June, 2000. Presently a practicing physician in Irvine, CA.
- Yingzhen Yang (1998-2003). Thesis title: “Interactions among floral organ identity MADS proteins in *Arabidopsis*”. Ph.D. awarded June 2003. Presently a staff scientist at the USDA laboratory, Geneva, NY.
- Kankshita Swaminathan (1998-2005). Thesis title: “Molecular and genetic characterization of the REM gene family in *Arabidopsis*”. Ph.D. awarded June 2005. Presently a faculty investigator at HudsonAlpha Institute for Biotechnology in Huntsville, AL.
- Eileen Craig Piwarzyk (2003-2008). Thesis title: “Characterization of components of the AP3/PI protein complex”. Ph.D. awarded June 2008. Presently employed at Miltenyi Biotech.
- Anwasha Nag (2003-2009). Thesis title: “Molecular and genetic characterization of enhancers of *pistillata-5*”. PhD awarded April 2009. Presently a staff scientist at the Center for Cancer Genome Discover at the Dana Farber Cancer Institute in Boston, MA.

Graduate MS. Student

- Hongjun Xiang (1996-2004). Thesis topic: “Genetic characterization of suppressors of *terminal flower 1* mutants”. M.S. completed October 2004. Presently a private businessman in China.

Visiting MS Student

- Francisco Vinhas Vasconcelos e Sousa (2010-2011), Wageningen University, Netherlands.

Postdoctoral Research Associate - Ying Yi (1995-1997), Yingzhen Yang (2003), Kankshita Swaminathan (2005), Alicia Manfre (2006), Anwasha Nag (2009-2010), Aubrey Frank (2010-2012), Nathanael Prunet (2010-2014).

Undergraduate (56 total)

- Becky Davis '94 (1994)
- Siobhan Gorman '97 (WISP [Women In Science Program] 1994)
- Paige Wickner (Yale College '98, 1995)
- Jennifer Trusty '96 (1995)
- Mi Ryung An '96 (1995)
- Amy Ulfers '98 (WISP 1995)
- Alyson Santoro '99 (WISP 1996)
- Benjamin Herman '96 (Honors Student, Hughes Summer 1995 Intern [\$3,500], Richter Fellowship [\$1,000], Waterhouse Fellowships [\$1,000])
- Sara Clark '97 (1996)
- Kendra Buzzell '97 (Honors Student, WISP 1994, Presidential Scholar 1995, Hughes Spring 1996 Intern [\$3,500], Richter Fellowship [\$1,000], Class of 1939 Fellowship [\$250])
- Elizabeth Heilig (Haverford College '98, Hughes Summer 1997 Intern [\$3,500])
- Adam Weinstein '98 (Honors Student, Presidential Scholar 1996, Hughes Summer 1997 Intern [\$3,500], Richter Fellowship [\$1,000])
- Penney Gilbert (Haverford College '99, Hughes Summer 1998 Intern [\$3,500])
- David W. Allen '97 (Honors Student, NSF REU 1996 and 1997)
- Allison Robbins '01 (WISP 1998)
- Donald Conrad '99 (1996-1999)
- Julie Baker '99 (Hughes Summer 1998 Intern [\$3,500], Presidential Scholar 1998)
- Erica Mintzer '02 (WISP 1999)

Nam Kim '02 (1998-1999)
 Paul Wang '03 (1999-2000)
 Jennifer Chi Hwang Kwak '00 (Honors Student)
 Laura Fanning '01 (Honors Student, WISP 1998, Presidential Scholar 1999, Waterhouse Fellowship [\$1500], Richter Fellowship [\$1500])
 Robert Valet '01 (Honors Student, Cargill Fellowship [\$2000], Richter Fellowship [\$1500])
 Kari Hacker '02 (Honors Student, Cargill Fellowship [\$2100])
 Susan Oliveira '01 (2000-2001)
 Stanley Kim '03 (2000)
 Emily R. Miller '04 (WISP 2001)
 Gavin Pierce '03 (2001)
 Lara Niell '02 (2001)
 Katherine Flynn-Meketon '05 (2001)
 Lindsay Clark '04 (Honors Student, Presidential Scholar 2002, Beckman Fellowship [\$9000]) (2002-2004)
 Miya Dunits '05 (2003-2005)
 Gabreille Geise (Bennington College '05) (2003)
 Ako Takakura '04 (2002-2004)
 Brea Prindaville '05 (Presidential Scholar 2003)
 Debra Liu '07 (WISP 2004, Presidential Scholar 2005) (2004-2006)
 Jerome Liu '06 (Honors student) (2004-2006)
 Richard Liu '08 (2005)
 Lucinda Liu '09, WISP 2006, Presidential Scholar 2007, (2005-2009)
 Jennifer Luong '10, WISP 2007 (2007)
 Victoria Boggiano '10 (2007)
 Melissa Ristoff '10 (2007-2008)
 Valerie Sadhoum '10 (2007-2008)
 John Gerstenberger '11 (HHMI Fellowship) (2007-2009)
 Kunal Patel '11 (HHMI Fellowship, Presidential Scholar, Honors Student) (2007-2011)
 Stephanie Wolf '12 (WISP) (2008)
 Ryan Collins '13 (2009)
 Meeta Prakesh '13 (HHMI Fellowship) (2010-2011)
 Lipsa Panda '14 (2011-2012), DOF off-term funding, Summer 2011
 Wendy Xiao '14 (2011)
 Steven Munzen '14 (2011)
 Serena Liu '14, (DOF off-term funding, Spring 2012, Presidential Scholar, Honors Student) (2012-2014)
 Kerry Anne Conlin '16 (WISP, Sophomore Scholar) (2013-2014)
 Ritika Abhyankar '17 (WISP) (2014-2015)
 Jacqueline Anders '18 (WISP, Sophomore Scholar) (2015-2016)
 Peter Vo '18 (Sophomore Scholar) (2015-2016)
 Kristyn Coxen '19 (WISP) (2016-present)
 Cathy Li '19
 Kayla Liew '19

Graduate Rotation (17 total)

Tom McCormick (1994), Marc Menighini (1994), Meiling Lu (1994), Phoebe Tzou (1994), Eric Manning (1995), Rachel Biron (1995), Scott Gridley (1995), Fang Liu (1996), Natasha Grotz (1997), Mei Hsu (2000), Aaron Atkinson (2001), Nan Xin (2004), Joe Morissey (2004), Yi-Hsuan Chiang (2006), Emily Hood (2007), Adrienne Perkins (2011), Jennifer Conrad (2011).

Graduate Ph.D. Thesis Committee (26 total)

MCB Graduate Students Yuanmin Sun (1994-1997), Yang Hong (1994-1999), Martha Franz (1994-2000), Paul Alloway (1994-2000), Natasha Grotz (1998-2004), Todd Michael (1998-2002), Brenda Parson Hall (1998-2005), Nick Orem (1998-2004), Patrice Salome (1999-2004), Radhika Ketani (1999-2006), Aaron Atkinson (2001-2006), Liz Colangelo (2001-2006), Zhiyong Gao

(2003-2006), Jeeyon Jeong (2003-2008), Joohyun Lee (2004-2008), Yash Chinchore (2005-2010), Joe Morrissey (2006-2010), Christine Palmer (2007-2011), Yi-Hsuan Chiang (2007-2011), Jessica Weng (2011-2013), Maria Hindt (2011-2015), Amanda Socha (2012-2016), Jennifer Conrad (2013-present), Suzana Car (2013-present), Garo Akmakjian (2013-present), Todd Warczak (2014-present).

Graduate Ph.D. Qualifying Examination Committee (51 total)

MCB Graduate Students Haihong Zhong (1994), Yuanmin Sun (1995), Yang Hong (1995), Martha Franz (1996), Paul Alloway (1996), Yen-Yee Tang (1997), Jacqueline Powers (1997), Victoria Mountain (1997), Allan Froehlich (1998), Fang Liu (1998), Natasha Grotz (1998), Eric Balicky (1999), Todd Michael (1999), Nick Orem (1999), Lawrence Madden (1999), Erin Dymeck (2000), Eric Balicky (2000), Patrice Salome (2000), Brenda Parson (2000), Lina Zhang (2000), Lorenzo Sempere (2001), Aaron Atkinson (2002), Liz Colangelo (2002), Koren Nishina (2002), Matthew Wargo (2002), Madushini Dharmasena (2003), Michael Chen (2003), Torrey Gallagher (2003), Dan Hopkins (2003), Jeeyon Jeong (2004), Tamara Zaytouni (2004), Zhiyong Gao (2005), Ralda Nehme (2005), Joohyun Lee (2005), Pete Newell (2006), Joe Morrissey (2006), Christine Palmer (2007), Adel Malek (2007), Kyle Cady (2008), Maria Hindt (2011), Jessica Weng (2011), Adrienne Perkins (2012), David Tobin (2012), Amanda Socha (2012), Jennifer Conrad (2013), Suzana Car (2013), and Garo Akmakjian (2013), Jooeta Chowdhury (2013), Erin Shoemaker (2013), Todd Warczak (2014), Balint Kocsos (2016).

Undergraduate Honors Theses Supervised (12 total)

Benjamin Herman '96, "Using a GUS/Kan enhancer trap system to identify novel genes involved in floral development of *Arabidopsis thaliana*"
 Kendra Buzzell '97, "Demonstrating that the Arabidopsis proteins APETALA3 and PISTILLATA form a heterodimer *in vivo*"
 David W. Allen '97, "Characterization of an enhancer trap line expressed during early stages of Arabidopsis flower development"
 Adam Weinstein '98, "Investigating the dimerization domains of the Arabidopsis proteins APETALA3 and PISTILLATA"
 Jennifer Kwak '00, "Suppression of the *terminal flower 1* phenotype by late flowering genes in Arabidopsis"
 Robert Valet '01. "Characterization of T-DNA mutagenized suppressors of *terminal flower 1* in Arabidopsis"
 Laura Fanning '01. "Characterization of *pistillata* mutants that are capable of homodimerization"
 Kari Hacker, '02. "Creation of a deletion in the chromosome 4 REM gene cluster in *Arabidopsis thaliana*"
 Lindsay Clark '04. "Genetic analysis of the REM genes in the chromosome 4 cluster in *Arabidopsis thaliana*"
 Jerome Liu '06. "*bcm4*, an enhancer of an unusual B-class mutant *pi-5*"
 Kunal Patel '11. "Characterization of TCP4-interacting proteins"
 Serena Liu '14. "Genetic analysis of *dornroschenlike* mutants in *Arabidopsis thaliana*"

Undergraduate Honors Thesis Committee (66 total)

Krista Ingram '94, Ellen Friday '94, Brooke Parry '95, Mehreen Hai '95, Sharon Karlsberg '96, Sarasa Kimata '96, Daphne Monie '96, Daniel Liu '96, Gholson Lyon '96, Naomi Wernick '97, Howard Scott Silverman '97, Elizabeth Lipson '97, Jun Shen '98, Kristen Stephens '98, Erica McAuliffe '98, Tara Bennett '98, Diane Gilbert '98, Laura Gougas '98, Bradley Molyneaux '98, Jennifer Gagne '99, Anthony Accurso '99, Amanda Borges '99, Zachary Smith '99, Ron Kim '00, Dana Nuetze '00, Andrew Garrison '00, Mary Mulcahey '00, Nancy Ann Oberheim '01, Gabriel Brooks, '02, Laura Rogers, '02, Christine Lennon, '02, Lynn Rudner, '02, Matthew Cheney, '02, Hannah Yu, '02, Ramona Hoh '02, Jonathan Budzik '03, Jonathan Carlson '03, Taylor Spencer '03, William Kwan '03, Katey Krizen '04, Carl DeSelm '04, Lacey Benson '04, Swathi Gopalkrishnan '04, Peter Colabuono '04, Laura Yasaitis '05, Jeanne Franzone '05, Jeff Wei '05, Emma Lubin '06, Sara Thiebaud '06, Earl Thompson '06, Rachel Ruiz '07, Katherine Hacker '07, Laura Myers '08, Joshua Cornman-Homonoff '08, Nicholas Wier '09, Carla Williams, '09, Ilda

Bajraktari '11, Sonia Yuen '11, Anais Carniciu '11, Linda Li '11, Jessica Dong '12 Sarah Khan '13, Kristen Flint '14, Elizabeth Morse '15, Alexander Kaye '15, Kayla McFarland '16, Joe Minichello '17, Mallory Rutigliano '17, Heeruk Bhatt '18, Noah Lee '18.

Committees

College

Radiation Safety Committee, 1995-2002
 Electron Microscope Advisory Committee, 1995-1999
 Class of 1939 Scholars Committee, 1997-1998
 Committee on Admission and Financial Aid, 2000-2001
 Committee on Organization and Policy, 2010-2013
 Steering Committee of the General Faculty, 2010-2011
 Institutional Biological Safety Committee, 1998–2004, 2012-present
 Steering Committee for Institute for Writing and Rhetoric, Fall 2015-present
 Committee on Standards, Fall 2004, Spring 2005, Summer 2005, Fall 2005, Winter 2016-Spring 2017
 Committee of Chairs, 2006-2012, 2017-present
 Science Division Council, 2006-2012, 2017-present
 Committee on Priorities, 2018-2019
 Search Committee, Chair Department of Molecular Systems Biology, Geisel School of Medicine at Dartmouth

Departmental

Biochemist Faculty Search Committee, 1994
 Greenhouse Committee, 1994-present, chair 1994-2005
 Space Committee, 1994-2012
 Undergraduate Committee, Genetics Advisor, 1995-1997
 Cell Biologist Faculty Search Committee, 1996
 Molecular and Cellular Biology (MCB) Graduate Program – Organized recruiting weekends for prospective graduate students 1999 and 2000
 Search Committee (chair), Special Teaching Instructor, Biology Department, 2001
 Cell and Developmental Biology Faculty Search Committees, 2001-2002
 MCB Graduate Committee, 2001-2007. Chair 2004-2006
 Undergraduate Committee, Biochemistry Advisor, 2001-2004
 Cell Biology and Plant Biology Faculty Search Committees, 2002-2003
 Class of 1978 Life Sciences Center Building Committee - 2006-2011
 Search Committee Chair, Developmental Biology Faculty Search, 2011-2012
 Biology 11 Task Force (chair), 2012-2013
 Chair Advisory Committee, 2012-2014, 2017-present
 Search Committee, Special Teaching Instructor, Biology Department, 2013-14
 Undergraduate Committee, 2014-present
 Search Committee, Molecular and Cellular Biology Faculty Search, 2016-2017
 Chair, 2006-2012, 2017-present