

Curriculum Vitae: Amy S. Gladfelter

Current Appointment

Associate Professor, Biological Sciences
Dartmouth College
224 Life Sciences Center
Hanover, NH 03755
amy.gladfelter@dartmouth.edu
603.646.8706

Date of Birth

April 27, 1974
Philadelphia, PA

Education

1996 B.A. Molecular Biology, Princeton University, Princeton, NJ
Graduated with honors, *cum laude*
2001 Ph.D. Genetics, Duke University, Durham, NC
Certificates in Cell and Molecular Biology and Teaching Biology

Academic and Research Experience

Laboratory of Bonnie Bassler, Princeton University, Undergraduate honors thesis research on quorum sensing in bacteria. 1995-1996
Laboratory of Daniel Lew, Duke University, Ph.D. thesis research on cell polarity and septin organization in budding yeast. 1997-2001
Physiology Course, Marine Biological Laboratory, Woods Hole, MA. 1998
Laboratory of Peter Philippsen, University of Basel Biozentrum, Post-doctoral research on control of nuclear division in multinucleate fungal cells. 2001-2005
Assistant Professor Biological Sciences, Dartmouth College, Hanover, NH. 2006-2012
Member, Norris Cotton Cancer Center, Cancer Mechanisms Program
Member, Microbiology and Molecular Pathogenesis Program
Summer Investigator, Marine Biological Laboratory, Woods Hole, MA. 2009-2012
Associate Professor Biological Sciences, Dartmouth College 2012-present

Scholarships and Honors

Roche Research Foundation Post-Doctoral Fellow, 2002-2003
NSF Post-Doctoral Fellow, 2002-2005
March of Dimes, Basil O'Connor Award, 2008-2010
Dartmouth Junior Faculty Fellowship 2009
Lemann and Colwin Research Award, Marine Biological Laboratory, Woods Hole, MA, 2010, 2011 and 2012
Adjunct Assistant Scientist, Cellular Dynamics Program, Marine Biological Laboratory, Woods Hole, MA
Karen E. Wetterhahn Memorial Award for Distinguished Creative and Scholarly Achievement, 2012
Douglas C. Floren Fellow, 2012-2013
Nikon fellow, Marine Biological Laboratory, Woods Hole, MA 2013

Professional Service

Editorial Board *Eukaryotic Cell* and *PLoS ONE*

Reviews Editor *Fungal Genetics and Biology* 2009-2012

Reviewer *Molecular Biology of the Cell*, *Molecular and Cellular Biology*, *Eukaryotic Cell*, *Plant Cell*, *New Phytologist*, *Cytoskeleton*, *Cytology*, *Journal of Cell Science*, *Microbiology*, *Molecular Microbiology*, *Genetics*, *PNAS*, *The Journal of Cell Biology*, *PLoS Biology*

Scientific Advisory Board *Saccharomyces* Genome Database (SGD), Stanford University

Ad-Hoc Reviewer National Science Foundation, Wellcome Trust

Panelist NSF (Plant, fungal, microbial mechanisms)

Professional Society Membership:

American Society of Cell Biology, 1999-present

Genetics Society of America, 2006-present

Sigma Xi, 1996-present

American Society for Microbiology, 2006-present

AAAS, 1996-present

Grant Support

Previous

National Science Foundation, Post-Doctoral Fellow in Microbiology, September 2003-January 2005

Roche Research Foundation, Post-Doctoral Fellow, April 2003-March 2004

Swiss National Fund, Grant (3100A0-100734) Co-PI with Peter Philippsen, University of Basel, Switzerland, April 2003-April 2006

National Science Foundation, new investigator starter grant (MCB-0625814), "Spatial control of mitosis", \$50,000 (direct costs), August 2006-August 2007

American Cancer Society, Norris Cotton Cancer Center new investigator internal grant, \$30,000, March 2007-March 2008

Norris Cotton Cancer Center, Prouty new investigator internal grant, \$30,000, April 2008-March 2009

March of Dimes, Basil O'Connor Award, \$150,000, January 2008-June 2010

National Institutes of Health, Major instrument grant, Co-PI with Duane Compton, Dartmouth Medical School, "Live Cell Confocal Microscope for FRAP/PA", \$500,000, April 2009-March 2010

National Science Foundation, Major Instrument grant, Co-PI with Sharon Bickel, Biological Sciences, Dartmouth College, "Confocal Microscope", September 2010-August 2011

National Science Foundation, Project Grant (MCB-0719126), PI, "Septin organization in multinucleated cells", \$400,000 (direct), September 1, 2007-August 31, 2012

Active

National Science Foundation, Project Grant (MCB-1212400), PI, "Mechanisms of septin assembly and dynamics", \$400,000 (direct), May 1, 2012-April 31, 2016

National Institutes of Health, R01 (GM081506), PI, "Asynchronous mitosis in multinucleate cells" \$940,000 (direct), August 1, 2010-June 30, 2015

National Institutes of Health, R01 (GM100160), Co-PI with Tomomi Tani at Marine Biological Lab, Woods Hole, MA, "Single molecule orientation imaging development", \$1,100,000 (direct), October 1, 2012-September 30, 2017.

Pending

National Institutes of Health, PI Major Instrument grant, "TIRFM imaging system for in vitro and in vivo cell biology" submitted March 2013

Publications

Research Publications

01. TJ Kleine **Gladfelter AS**, Lewis PN, Lewis SA. Histone-induced damage of a mammalian epithelium: the conductive effect. *Am J Physiol* (1995) 268:C1114-25.
02. JJ Moskow, **Gladfelter AS**, Lamson RE, Pryciak PM, Lew DJ. Role of Cdc42p in pheromone-stimulated signal transduction in *Saccharomyces cerevisiae*. *Mol Cell Biol* (2000) 20:7559-71.
03. **AS Gladfelter**, Moskow JJ, Zyla T, and Lew DJ. Isolation and characterization of effector loop mutants of Cdc42 in budding Yeast. *Mol Biol Cell* (2001) 12:1239-55.
04. JE Adamo, Moskow JJ, **Gladfelter AS**, Viterbo D, Lew DJ, Brennwald PJ. Yeast Cdc42 functions at a late step in exocytosis, specifically during polarized growth of the emerging bud. *J Cell Biol* (2001) 155:581-92.
05. **AS Gladfelter**, Bose I, Zyla TR, Bardes ES, Lew DJ. Septin ring assembly involves cycles of GTP loading and hydrolysis by Cdc42p. *J Cell Biol* (2002) 156:315-26.
Cover image and highlighted article
06. JE Irazoqui, **Gladfelter AS**, Lew DJ. Scaffold-mediated symmetry breaking. *Nat Cell Biol* (2003) 5:1062-70.
07. **AS Gladfelter**, Zyla TR, Lew DJ. Genetic interactions among regulators of septin organization. *Eukaryotic Cell* (2004) 3:847-54.
08. **AS Gladfelter**, Kozubowski L, Zyla TR, Lew DJ. Interplay between septin organization, cell cycle and cell shape in yeast. *J Cell Sci* (2005) 118:1617-28.
09. **AS Gladfelter**, Hungerbuehler AK and Philippsen P. Asynchronous mitoses in multinucleated cells. *J Cell Biol.* (2006) 172:347-62.
Highlighted article and cited in Faculty of 1000
10. H Helfer and **Gladfelter AS**. AgSwe1p regulates mitosis in response to morphogenesis and nutrients in multinucleated *A. gossypii* cells. *Mol Biol Cell* (2006) 10:4494-512.
Featured in ASCB newsletter as notable article in Incytes
11. **AS Gladfelter**, Sustreanu N, Hungerbuehler AK, Voegeli S, Galati V, Philippsen P. The anaphase promoting complex/cyclosome (APC/C) is required for anaphase progression in multinucleated *A. gossypii* cells. *Eukaryotic Cell* (2007) 6:182-97.
12. AK Hungerbuehler, Philippsen, P and **Gladfelter AS**. Limited functional redundancy and oscillation of cyclins in multinucleated *A. gossypii* fungal cells. *Eukaryotic Cell* (2007) 6:473-86.
13. BS DeMay, Meseroll RA, Occhipinti P and **Gladfelter AS**. Regulation of distinct septin rings in a single cell by Elm1p and Gin4p kinases. *Mol Biol Cell* (2009) 20: 2311-26.
Selected as cover article
14. BS DeMay, Meseroll, R Occhipinti P, and **Gladfelter AS**. Cellular requirements for the small molecule forchlorfenuron to stabilize the septin cytoskeleton. *Cytoskeleton* (2010) 67:383-99.
15. D Nair, D'Ausilio CA, Occhipinti P, Borsuk ME and **Gladfelter AS**. A conserved G1 regulatory circuit promotes asynchronous behavior of nuclei sharing a common cytoplasm. *Cell Cycle* (2010) 9:3771-9.
Highlighted in News and Views by Jim Umen and Curt Wittenburg; selected as cover article
Selected as "Must read" at Faculty of 1000
16. Chen CH, Demay BS, **Gladfelter AS**, Dunlap JC, Loros JJ. Physical interaction between VIVID and white collar complex regulates photoadaptation in *Neurospora*. *Proc Natl Acad Sci USA* (2010) 107:16715-20.

17. BS DeMay, Bai X, Howard L, Occhipinti P, Meseroll RA, Spiliotis ET, Oldenbourg R, and **Gladfelter AS**. Septin filaments exhibit a dynamic, paired organization that is conserved from yeast to mammals. *J Cell Biol* (2011) 193:1065-81.
Featured in front matter of JCB and highlighted in Faculty of 1000
18. BS Demay, Noda N, Gladfelter AS, Oldenbourg R. Rapid and quantitative imaging of excitation polarized fluorescence reveals ordered septin dynamics in live yeast. *Biophys J* (2011) 101(4):985-94.
19. J Anker and **Gladfelter AS**. Axl2 contributes to hyphal growth, morphology and stress resistance. *Eukaryotic Cell* (2011) 10:1679-93. **Undergraduate first author**
20. J Gertsenberger, Occhipinti, P and **Gladfelter AS**. Mitochondrial morphology and potential are independent of the cell cycle. *Eukaryotic Cell* (2012) 11:353-67. **Undergraduate first author**
21. RA Meseroll, Howard L and **Gladfelter AS**. Septin ring size scaling and dynamics require the coiled-coil region of Shs1p. *Molecular Biology of the Cell* (2012) 17: 3391-3406.
22. RA Meseroll, Occhipinti P and **Gladfelter AS**. Septin phosphorylation and coiled-coil domains function in cell and septin ring morphology in the filamentous fungus *Ashbya gossypii*. *Eukaryotic Cell* (2013) 2: 182-193. ** highlighted paper**

Invited Reviews

- AS Gladfelter**, Pringle JR, Lew DJ. The septin cortex at the yeast mother-bud neck. *Curr Opin Microbiol* (2001) 4:681-9.
- JE Irazoqui, **Gladfelter AS**, Lew DJ. Cdc42p, GTP hydrolysis, and the cell's sense of direction. *Cell Cycle* (2004) 3:861-4.
- AS Gladfelter**. Control of filamentous fungal cell shape by septins and formins. *Nature Reviews Microbiology* (2006) 4:223-9.
- AS Gladfelter**. Nuclear anarchy: asynchronous mitosis in multinucleated fungal hyphae. *Curr Opin Microbiol* (2006) 9:547-52.
- AS Gladfelter** and Berman J. Dancing genomes: Nuclear dynamics in fungi. *Nature Rev Microbiol* (2009) 7:875-86.
- AS Gladfelter**. Guides to the final frontier of the cytoskeleton: Septins in filamentous fungi. *Curr Opin Microbiol* (2010) 13:720-6.
- ET Spiliotis and **AS Gladfelter**. Spatial Guidance of asymmetry: Septin GTPases show the way. *Traffic* (2012) 13:195-203.

Book Chapters

- AS Gladfelter** and PE Sudbery. "Septins in four model fungal systems: diversity in form and function" Book chapter in *Septin Biology*. Editors: John Pringle, Hilary Russell and Peter Hall, John Wiley & Sons, 2008. pp. 125-146.

Invited Meeting Reports

- AS Gladfelter** and Montagna C. Seeking truth on Monte Verita. Workshop on the Molecular Biology and Biochemistry of Septins and Septin Function. *EMBO Rep.* (2007) 8:1120-6.
- PE Sudbery and **Gladfelter AS**. Pathocycles. *Fungal Genet Biol* (2008) 45:1-5.

Manuscripts in Review

- C Lee, Zhang H, Baker A, Occhipinti P, Borsuk ME and **Gladfelter AS**. Prion-like behavior regulates cyclin transcript localization and cell-cycle control . In review at *Developmental Cell*.

CA Anderson, Eser U, Korndorf T, Skotheim J, Borsuk M, and **Gladfelter AS**. Cells within cells: Nuclear repulsion and division autonomy in a single cytoplasm. In revision at *Current Biology*.

Invited Symposium and Seminar Presentations

Invited meeting platform or symposium presentations:

Yeast Cell Biology Meeting, Cold Spring Harbor Laboratory, NY, August 2001
European Conference on Fungal Genetics, Pisa, Italy, April 2002
Gordon Research Conference: Cellular and Molecular Fungal Biology, Holderness, NH, June 2004
Asilomar Fungal Genetics Meeting, Asilomar, CA, March 2005
Gordon Research Conference: Cellular and Molecular Fungal Biology, Holderness, NH, June 2006
Yeast Genetics and Molecular Biology Meeting, Princeton, NJ, July 2006
Impact of Genomics on Fungal Biology meeting, Nancy, France, September 2006
Pathocycles Meeting. University of Andalusia, Baeza, Spain, October 2006
International Septin Meeting, Locarno, Switzerland, May 2007
Yeast Genetics Meeting, Toronto, Canada, July 2008, workshop speaker
Janelia Farms Symposium, HHMI, Virginia, The structure and function of septins, March 2009
British Mycological Society Annual Meeting, Edinburgh, Scotland, September 2009
American Society of Cell Biology, Workshop “Building the Cell”, San Diego, CA, December 2009
Gordon Research Conference: Cellular and Molecular Fungal Biology, Holderness, NH, June 2010
FASEB Meeting, Carefree, AZ, August 2010
American Society of Cell Biology, Undergraduate Research Symposium Keynote Speaker, December 2010
Structure and Function of Septins, St. Goar Germany, March 2011
Fungal Genetics Meeting, Asilomar, CA, March 2011
Gordon Research Conference, Cell Motility and the Cytoskeleton, Colby-Sawyer College, New London, NH, August 2011
Gordon Research Conference, Plant and Fungal Cytoskeleton, August 2012
AAAS meeting, Boston, MA February 2013

Invited seminar presentations:

Wesleyan University, Department of Molecular Biology and Biochemistry, February 2004
Duke University, Molecular Genetics and Microbiology Department, December 2005
University of the South, Biology Department, December 2005
University of Georgia-Athens, Plant Biology Department, December 2005
Duke University, Molecular Genetics and Microbiology Department, March 2005
Dartmouth College, Department of Biological Sciences, January 2005
Tufts University, Biology Department, January 2005.
Biotechnology Research Institute, National Research Council of Canada, Montreal, May 2006
Broad Institute, MIT, Cambridge, MA, March, 2007
University of Vermont, Department of Microbiology and Molecular Genetics, March 2007
Johns Hopkins University, School of Public Health, June 2007
Johns Hopkins University, Department of Biology, June 2007
Duke University, Distinguished Alumni Speaker, University Program in Genetics, April 2009
University of Minnesota, Microbiology Department, November 2009
Marine Biological Laboratory, Cytoskeletal and Cell Division Lecture Series, July 2010
Williams College, Department of Biology, November 2010

Marine Biological Laboratory, Cellular Dynamics program seminar, August 2011
CUNY-Brooklyn, Biology, October 2011
University of Massachusetts-Amherst, November 2011
University of Pennsylvania, Cell Biology, March 2012
Ludwig Maximilian University of Munich, Biology Department, July 2012
ETH-Zurich, Biochemistry Institute, forthcoming March 2013

Oral Presentations and Poster Abstracts at Scientific Meetings:

International Conference on Yeast Genetics and Molecular Biology, Rimini, Italy, May 25-29, 1999.

Poster Presentation: Isolation and characterization of *cdc42* mutants in *S. cerevisiae*.

Biological Sciences Graduate Student Symposium, Duke University, October, 1999.

American Society for Cell Biology Annual Meeting, Washington DC, December 11-15, 1999.

Poster presentation: Isolation and characterization of *cdc42* mutants in *S. cerevisiae*.

Yeast Genetics and Molecular Biology Meeting, Seattle, WA. July 25-30, 2000. Poster presentation: Role of Cdc42p in septin ring assembly in budding yeast.

Biozentrum Genome Conference, Basel, Switzerland, April 5, 2002. Oral presentation: Cell cycle control genes in *Ashbya gossypii*.

Yeast Genetics and Molecular Biology Meeting Madison, WI. July 30-August 4, 2002. Oral presentation: Time-lapse microscopy in fungal cells and Poster presentation: Cell cycle regulation in the multinuclear, filamentous ascomycete *Ashbya gossypii*.

Swiss Yeast Meeting, Zurich, Switzerland. September 20, 2002. Oral presentation: Cell cycle regulation in the multinuclear, filamentous ascomycete *Ashbya gossypii*.

American Society for Cell Biology Annual Meeting, San Francisco, CA. December 14-18, 2003. Poster presentation: Regulation of Asynchronous mitoses in a multinucleated cell.

International Conference on Yeast Genetics and Molecular Biology, Göteborg, Sweden, July 7-12, 2003. Oral presentation in Cell cycle workshop: Regulation of asynchronous mitoses in multinucleated cells and Oral presentation in Microscopy workshop: Time-lapse imaging in fungal cells.

European Conference on Fungal Genetics, Copenhagen, Denmark, April 17-20, 2004. Poster presentation: Nuclear autonomous cell cycle regulation in a multinucleated cell.

Swiss Yeast Meeting, Fribourg, Switzerland. September 24, 2004. Oral presentation: Nuclear autonomous cell cycle regulation in *Ashbya gossypii*.

American Society for Cell Biology Annual Meeting, Washington, DC. December 4-8th, 2004. Poster presentation: Nuclear autonomous cell cycle regulation in a multinucleated cell

Asilomar Fungal Genetics Meeting, Asilomar, CA. March 2007. Workshop organizer and speaker.

Presentations at national and international meetings by members of my lab:

(underline denotes presenting author)

Brad DeMay, Patricia Occhipinti and Amy S. Gladfelter. Control of septin assembly and maturation in the filamentous fungus *Ashbya gossypii*. Poster, The Molecular Biology & Biochemistry of Septins and Septin Function, Monte Verita, Switzerland, May 2007.

Cori D'Ausilio and Amy S. Gladfelter. The role of nuclear size in asynchronous nuclear division in multinucleate cells. Poster, ABCAM Mitosis Conference, Worcester, MA, May 2008.

Brad DeMay, Patricia Occhipinti and Amy S. Gladfelter. Control of septin assembly, maintenance, and maturation in the filamentous fungus *Ashbya gossypii*. Poster and talk, Cellular & Molecular Fungal Biology Gordon Research Conference, Holderness, NH, June 2008.

Dhana Nair and Amy S. Gladfelter. Whi5 is required for asynchronous nuclear division in multinucleate cells. Platform presentation. Yeast Genetics and Molecular Biology Meeting. Toronto, CA. July 2008.

Cori D'Ausilio, Dhana Nair, and Amy S. Gladfelter. Molecular basis for asynchronous nuclear division in multinucleate cells. Poster, American Society of Cell Biology Annual Meeting, San Francisco, CA, December 2008.

Rebecca Meseroll and Amy S. Gladfelter. Post-translational modification of Sep7 and regulation of septin organization. Poster, American Society of Cell Biology Annual Meeting, San Francisco, CA, December 2008.

Brad DeMay, Patricia Occhipinti and Amy S. Gladfelter. Maturation, order, and dynamics of the septin cortex in the filamentous fungus *Ashbya gossypii*. Poster, Structure and Function of Septins, Janelia Farm, Ashburn, VA, March 2009 and Poster, ASCB Annual Meeting, Philadelphia, PA, Dec. 2010.

Rebecca Meseroll and Amy S. Gladfelter. Post-translational modification of Sep7 and regulation of septin organization. Poster, Structure and Function of Septins, Janelia Farm, Ashburn, VA, March 2009 and Poster, ASCB Annual Meeting, Philadelphia, PA, Dec. 2010.

Cori D'Ausilio, and Amy S. Gladfelter. Molecular basis for asynchronous nuclear division in multinucleate cells. Poster, Cold Spring Harbor Cell Cycle meeting, May 2010 and Poster, ASCB Annual Meeting, Philadelphia, PA, Dec. 2010.

Rebecca Meseroll and Amy S. Gladfelter. Post-translational modification of Sep7 and regulation of septin organization. Poster, Yeast Genetics and Molecular Biology, Vancouver, Canada, July 2010 and Poster, ASCB Annual Meeting, Philadelphia, PA, Dec. 2010.

Brad DeMay, Patricia Occhipinti and Amy S. Gladfelter. Maturation, order, and dynamics of the septin cortex in the filamentous fungus *Ashbya gossypii*. Poster and short talk, Plant and Fungal Cytoskeleton Gordon Research Conference, August 2010 and Poster ASCB annual meeting, Philadelphia, PA, Dec. 2010.

ChangHwan Lee and Amy S. Gladfelter. Asymmetric cyclin localization and cell cycle asynchrony. Poster, ASCB Annual Meeting, Philadelphia, PA, Dec. 2010.

Rebecca Meseroll and Amy S. Gladfelter. The Coiled-coil of Sep7 is required for septin ring scaling. ASCB Annual Meeting, Denver, CO, Dec 2011.

ChangHwan Lee and Amy S. Gladfelter. "Asymmetric cyclin localization and cell cycle asynchrony" Poster and selected platform presentation, Cold Spring Harbor Laboratory, Cell Cycle meeting, May 2012.

Courses Taught

2005-2006: Bio15 (co-instructor with Elizabeth Smith, enrollment 110)

2006-2007: Bio12 (enrollment 95), Bio66 (enrollment 33), Bio263 (enrollment 14)

2007-2008: Bio66 (enrollment 21), Bio263 (enrollment 13), one term maternity leave

2008-2009: Bio12 (enrollment 111), Bio66 (enrollment 23), Bio268 (enrollment 17)

2009-2010: Bio66 (enrollment 27), Junior Faculty Fellowship

2010-2011: Bio12 (enrollment 55), Bio66 (enrollment 24), Bio268 (enrollment 17), Bio169 (enrollment 5)

2011-2012: Bio12 (enrollment 50), Bio66 (enrollment 23), Bio268 (enrollment 20)

2012-2013: Bio12 (enrollment 118), Bio66 (enrollment 28), Bio263 (enrollment 14),

Bio 103 (enrollment 33), Bio 169 (enrollment 5)

Biology 15, Biology 12: Cell Structure and Function is an introductory course which covers major topics in cell biology including the cytoskeleton, the secretory pathway, and the cell cycle. This course includes lecture and laboratory components. Enrollment has been 50-120 students consisting of freshman and sophomore Biology majors and pre-medical students.

Biology 66/166: The Molecular Basis of Cancer is an advanced literature-based course which I developed. In this class, students learn to critically read primary scientific literature based on the theme of molecular cancer biology. Enrollment is generally 20-30 students and includes junior and senior Biology majors and Ph.D. students.

Bio263/Bio268: Cell Biology Journal Club is a literature discussion course for Ph.D. students covering current topics and advances in Cell Biology. Enrollment is 10-20 graduate students.

Bio169: Supervised Teaching in Biology is a course for graduate students during their teaching assistantship for Bio12. The students are given feedback and training on how to present material in laboratory sections, evaluate performance and communicate effectively in the classroom.

Bio103: MCB program Graduate Core Course is the central curriculum for our first year PhD students. I lead classes discussing cell cycle regulation, apoptosis and cancer biology.

Advisees

Graduate Ph.D. Students

University of Basel, Biozentrum (co-advisor with Peter Philippsen):

A. Katrin Hungerbuehler, 2001-2005 (currently post-doc at University of Zurich). Thesis topic: Analysis of cyclin function and behavior in the multinucleate, filamentous fungus *Ashbya gossypii*

Hanspeter Helfer, 2001-2005 (currently computer programmer in industry). Thesis topic: The role of the Swe1p kinase and septin proteins in controlling mitosis in response to cell starvation.

Dartmouth College:

Bradley DeMay, 2006-2011. Thesis topic: Spatial and temporal regulation of the septin cytoskeleton (present position: MBA candidate Tuck School of Business)

Cori D'Ausilio, 2007-present. Thesis topic: Control of asynchronous mitosis in multinucleate cells.

Rebecca Meseroll, 2007-2012. Thesis topic: Post-translational mechanisms influencing higher order septin organization (present position: post-doctoral study NIH, Cohen-Fix lab)

ChangHwan Lee 2009-present. Thesis topic: RNA localization and the establishment of protein gradients in a dynamic cytoplasm

Samantha Roberts 2012-present. Thesis topic: Prion-mediated RNA localization

Andrew Bridges 2012-present. Thesis topic: Mechanisms of septin assembly in vivo and in vitro

Postdoctoral Research Associates

Dhana Nair, 2006-2009

Huiaying Zhou, 2011-present

Research technician

Patricia Occhipinti, 2006-present

Undergraduates

Daniel Leung, class of 2009 (2007 HHMI scholar, 2008 Presidential Scholar)

Evan Tice, class of 2009 (2007 HHMI scholar, 2008 Presidential Scholar, 2009 Honors Thesis); coadvisor with Alex Barnett in Mathematics Department; Evan was recipient of 2008 Kemeny prize for his research

Larkin Elderon, class of 2008 (collaboration with Bob Gross, 2006-2007)
Kathleen Champion, class of 2011 (2010 Presidential Scholar, 2011 Honors Thesis); co-advisor with Alex Barnett, Mathematics
John Gerstenberger, class of 2011(2009-2010 Presidential Scholar, NSF supported REU summer 2010, 2011 Honors Thesis)
Jonathon Anker, class of 2011 (2008 HHMI scholar, 2009-2010 independent study in the lab, 2011 Honors Thesis)
Michael Matt, class of 2013 (2010 HHMI scholar)
Tess Korndorf, class of 2011 (2011 summer independent study)
Aaron Koenig, class of 2014 (2011 HHMI scholar)
Courtney Kelley, class of 2015 (2011 Sophomore scholar)
Olivia Holmes, class of 2015 (independent study)
Steven Lee, class of 2015 (HHMI scholar)
Ittai Eres, Class of 2014 (independent study)

Graduate Rotation Students

Bradley DeMay, Daniel Goduti (2006)
Ching-Yi Tsai, Diana Morales, Cori D'Ausilio, Rebecca Meseroll (2007)
Dae Gon Ha, Changhwan Lee (2009)
Ruth Kabeche (2010)
Samantha Roberts, Andrew Bridges, Erin Shoemaker, Amy Baker (2011)
Nicholas Anderson, Anum Khan, Molly McQuilken (2012)

Graduate Ph.D. Thesis Committee

Christopher Baker (2006-2010, Dunlap/Loros labs)
Pei Zhou (2006-2011, Bickel lab)
Yi-Hsuan Chiang (2007-2011, Schaller lab)
Brenton Paoella (2008-2012, Israel lab)
Emily Hood (2009-2012, Compton lab)
Marianna Kleyman (2010-present, Compton lab)
Lillian Kabeche (2010-present, Compton lab)
Indrani Mukherjee (2010-present, Barlowe lab)
Zhongle Liu (2010-present, Myers lab)
Arko Dasgupta (2011-present Dunlap-Loros labs)
Anna Hatch (2012-present, Higgs lab)
Lin Deng (2012-present, Moseley Lab)

Graduate Ph.D. Qualifying Examination Committee

Christopher Baker, Amitavo Mitra, Sarah Thompson, Pei Zhou (2006)
Yi-Hsuan Chiang, Amy Piispansen, Christen DiPetrillo (2007)
Emily Hood (2008)
Sahar Al Ayyoubi, Indrani Mukherjee, Zhongle Liu (2010)
Pinar Gurel, Katherine Weng, Maria Hindt (2011)
Anna Hatch, David Tobin, Geoffrey Noble, Sarah Katzenell (2012)

Undergraduate Honors Thesis Committee

Shamara Baidoobonso '06
Alison Kaspar '07

Nadia Ali '07
Katherine Michaelis '08, co-sponsor with Yolanda Sanchez
Chelsea Mehr '08
Christopher Abrecht '08
Nora Ward '08
Rashmi Agarwal '09
Nick Wier '09
Floyd Buen '09
Andre Alcon '10
Karola Jerring '10, co-sponsor with Mark Israel
Chelsea Place '10, co-sponsor with Mark Israel
Jester Galiza '11, co-sponsor with Deborah Hogan
Sondra Downey '11
Rachael Labitt '11, co-sponsor with Yolanda Sanchez
Jidi Gao '11
Shelley Maithel '11, co-sponsor with Chuck Cole

Committees and Service to Dartmouth

Dartmouth College Committee on Admissions and Financial Aid, 2008-present
MCB Graduate Program, recruitment weekend co-organizer, 2007-2008
Bio12, lab instructor job search committee, Fall 2007, Spring 2011
Academic Computing, working group on research file storage, Fall 2008
First Year Advising, 2006-2011
HHMI Post-Doctoral Fellowship application evaluation committee, Spring 2009
Presentation on the use of "Clickers in large classes" at Dartmouth Center for the Advancement of Learning, Active Learning Institute, August 2008
Presentation at Office of Sponsored Projects New Faculty Orientation Session, October 2008
Presentations in local communities to middle school and high school students about careers in science, October, November 2009
MCB recruiting visits to New England liberal arts colleges, Fall 2010
MCB graduate program website design committee 2010-2011
Biological Sciences Department Faculty search committee, Fall 2011
Advisor committee to the chair of Biological Sciences, Fall 2012-present
College Committee of Computing, Fall 2012-Present
Molecular and Cellular Biology program graduate committee, July 2012-present

Collaborators

Dr. Alexander Barnett, Mathematics Department, Dartmouth College (Sept. 2008-present)
Dr. Mark Borsuk, Thayer School of Engineering, Dartmouth College (Nov. 2007-present)
Dr. Jay Dunlap and Dr. Jennifer Loros, Genetics Department, Dartmouth Medical School (Apr. 2009-present)
Dr. Helge Ewers, Biochemistry Institute, ETH, Zurich, Switzerland (September 2011-present)
Dr. Hany Farid, Computer Science Department, Dartmouth College (Sept. 2010-present)
Dr. Christine Field, Department of Systems Biology, Harvard Medical School (June 2010-present)
Dr. Rudolf Oldenbourg, Marine Biological Laboratory, Cellular Dynamics Group, Woods Hole, MA (Jan. 2009-present)

Dr. Jan Skotheim, Biological Sciences, Stanford University (Aug. 2010-present)

Dr Tomomi Tani, Marine Biological Laboratory, Cellular Dynamics Group, Woods Hole, MA (July 2010-present)