Curriculum vitae of MARY LOU GUERINOT

Ronald and Deborah Harris Professor in the Sciences
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Education

1975	B.S. Biology: with distinction. Cornell University, Ithaca, NY
1979	Ph.D. Biology: Dalhousie University, Halifax, Nova Scotia David G. Patriquin, advisor
1979-81	Postdoctoral Fellow, Microbiology Department, University of Maryland, College Park, MD Rita R. Colwell, advisor
1981-85	Postdoctoral Fellow, DOE-Plant Research Laboratory, Michigan State University, East Lansing, MI Barry K. Chelm, advisor

Scholarships and Honors

1971-72	Panhellenic Association Scholarship
1971-75	New York State Regents Scholarship
1971-75	Cornell University Scholarship
1974-75	Jessie Noyes Foundation Scholarship
1975	Mortar Board, National Senior Women Honorary Ho-nun-de-kah, Cornell University's College of Agricultural and Life Sciences Senior Honorary
1975-79	Dalhousie University Graduate Fellowship
1976-79	Izaak Walton Killam Memorial Scholarship
1989	Dartmouth College Junior Faculty Fellowship
1996	Award for Special Creativity, National Science Foundation
2000	Honorary Master of Arts, Dartmouth College
2000	Honorary membership, Phi Beta Kappa
2000	Women in Science Project, Special Contribution Award
2005	Ronald and Deborah Harris Professor in the Sciences
2006	Women in Science Project, Recognition Award: 15 years as a WISP sponsor
2007	Fellow, American Association for the Advancement of Science
2008	Presidential Lecture, Dartmouth College
2009	Fellow, American Society of Plant Biologists
2009	Graduate Mentoring Award, Dartmouth College
2009	Dartmouth Senior Faculty Fellowship
2012	Women in Science Project, Recognition Award: 20 years as a WISP sponsor
2012	Dennis R. Hoagland Award, American Society of Plant Biologists
2015	Dean of Faculty Award for Outstanding Mentoring and Advising
2015	Winner, BioArt Competition sponsored by Federation of American Societies for Experimental Biology
2016	Election to the National Academy of Sciences
2017	Dean of the Faculty Mentoring Award
2018	Stephen Hales Prize, American Society of Plant Biologists
2025	Charles Ried Barnes Life Membership award, American Society of Plant Biologists

Professional Positions

1985-91	Assistant Professor, Department of Biological Sciences, Dartmouth College
1990	Visiting Assistant Professor, Department of Genetics, Harvard Medical School & Department of Molecular Biology, Massachusetts General Hospital
1991-97	Associate Professor, Department of Biological Sciences, Dartmouth College
1994-98	Chair, Department of Biological Sciences, Dartmouth College
1997-	Professor, Department of Biological Sciences, Dartmouth College
1998-01	Associate Dean of Faculty for the Sciences, Dartmouth College
1999	Visiting Professor, Université de Nice Sophia-Antipolis
2001-04	Vice Provost, Dartmouth College
2005	Ronald and Deborah Harris Professor in the Sciences
2009	Visiting Scientist, Center for Genomics and Systems Biology, NYU
2010	Visiting Scientist, Salk Institute for Biological Studies
2022-28	Nonresident Fellow, Salk Institute for Biological Studies

Professional Activities

Advisory Boards (last 10 years)

1995 -	Member, Steering Committee, Iron Nutrition and Interactions in Plants
2011-20	Associate Director, Superfund Program Project "Toxic Metals in the Northeast: From Biological to Environmental Implications."
2013-24	Member, Board of Directors, Boyce Thompson Institute for Plant Research
2013-15	Member, Internal Advisory Committee for Synergy, the Dartmouth Clinical and Translational Science Institute
2014-24	Chair and Member, Scientific Advisory Board, Boyce Thompson Institute for Plant Research, Ithaca, NY
2017-18	Member, National Academy of Sciences Committee "Science Breakhthroughs 2030: A Strategy for Food and Agricultural Research"
2017	Member, External Evaluation Committee, Department of Biological Sciences, Rice University
2021	Member, External Evaluation Committee, Biology Department, Wake Forest University
2022	Awards Audit Task Force, Genetics Society of America
2023	Chair, External Evaluation Committee, Biology Department, Stanford University
2023-	Member, Scientific Advisory Board, Resilience Institute, Michigan State University
2024-	Member, XLEAP (X-rays for Life, Environmental, Agricultural, and Plant Sciences) Science Development team, Cornell University

Editorial Boards (last 10 years)

2011-	Advisory Board member, Metallomics
2018-	Associate Editor, Science Advances

Grant Panels (last 10 years)

2014	National Plant Genome Initiative (NPGI) Postdoctoral Fellowship Panel
2015	National Science Foundation, Integrative and Organismal Systems (IOS), Physiological Mechanisms and Biomechanics Plant Program panel

2015	Ad hoc member, SCORE (Support of Competitive Research) Study Section, NIGMS
2015/2017	Rosalind Franklin Young Investigator Award Committee, Genetics Society of America
2016	Ad hoc member, NIH Director's Early Independence Award (DP5) panel
2022	Member, Review Panel, Life Sciences Division, Academia Sinica
2024	Member, Grant Proposal Review Panel, Life Sciences, Academia Sinica
2025	National Science Foundation, Integrative and Organismal Systems (IOS), Physiological Mechanisms and Biomechanics Plant Program panel

Meeting Organizer (last 10 years)

2016	Chair, Gordon Research Conference on Plant Molecular Biology, Holderness, NH

Professional Offices

2000-05	Awards Selection Committee, Gibbs Medal, American Society of Plant Biologists
2002-05	Member, Executive Committee, American Society of Plant Biologists
2002-05	Member, Nominating Committee, American Society of Plant Biologists
2002-11	Member, Education Foundation Board of Directors, American Society of Plant Biologists
2003-04	President, American Society of Plant Biologists
2003-04	Member, Search Committee for Executive Director, American Society of Plant Biologists
2004-05	Immediate Past President, American Society of Plant Biologists
2004-05	Member, Public Affairs Committee, American Society of Plant Biologists
2005-06	Member, Board of Trustees, American Society of Plant Biologists
2009-12	Chair, Board of Trustees, American Society of Plant Biologists
2010-13	Chair, Biological Sciences Section, American Association for the Advancement of Science
2014-21	Chair, Dennis R. Hoagland Award Committee, American Society of Plant Biologists
2014-17	Member, Constitution and Bylaws Committee, American Society of Plant Biologists
2017-19	Member, Board of Directors, Genetics Society of America
2017-	Member, Genetics Society of America Prize Committee
2018-	Member, Dennis Hoagland Prize Award Committee
2018-19	Chair, National Academy of Sciences Prize in Food and Agricultural Sciences Committee
2018-19	Member, Stephen Hales Prize Committee, American Society of Plant Biologists
2019-20	Member, Class Membership Committee, National Academy of Sciences
2020-23	Chair, Plant, Soil and Microbial Sciences Section, National Academy of Sciences
2020-23	Member, Nominating Committee, National Academy of Sciences
2022-23	Member, Class Membership Committee, National Academy of Sciences
2023-26	Member, National Academy of Sciences Advisory Council
2023-26	Member, Committee on Membership, NAS Council
2023-26	Member, Committee on International Affairs, NAS Council
2023-26	Member, Committee on Science, Engineering, Medicine, and Public Policy

Current Grant Support

3/24-2/27 NSF (2343917): Integrating Signals in Iron Homeostasis. $809,225 total costs.

Teaching Experience at Dartmouth (last 10 years)

2015-16 Bio 46: Microbiology. Bio 11: Emerging Infectious Disease. Supervised one honors thesis.
2016-17 Bio 46: Microbiology. Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Supervised one honors thesis.
2017-18 Bio 46: Microbiology. Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology.
2018-19 Bio 46: Microbiology. Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Supervised one honors thesis.
2019-20 Bio 11. Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Supervised one honors thesis.
2021-22 Bio 46: Microbiology. Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Supervising one honors thesis.
2022-23 Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Supervising one honors thesis.
2023-2024 Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Bio 99: Senior Seminar in Biology.
2024-2025 Bio 11: Emerging Infectious Disease. Bio 269: Plant Molecular Biology. Bio 99: Senior Seminar in Biology.

Brief description of courses taught:

- Bio 11 is the introductory course for all students interested in pursuing study in biology. The course has two main goals: stimulate interest in the science of life and encourage critical thinking in the life sciences. Expected enrollment: 120 students.
- Bio 46 is an upper level Microbiology course with an intensive laboratory. I team teach this course with faculty members from the Microbiology Department at DMS. Enrollments have varied over the years from 25 to 60 students. I give 14 lectures in this course and oversee the labs.
- Bio 269 is a journal-based class for graduate students.
- Bio 99 is a seminar for students carrying out honors research.

Teaching other than at Dartmouth

The Scientist as Humanist Project (summer course for high school teachers), sponsored by the National Endowment for the Humanities and NSF Lecturer, St. Paul's School, Concord, NH. summer, 1991; summer 1992.
Physiology course, Marine Biology Laboratory, Woods Hole, MA. Course instructor, summer, 1994; summer 1995.
DOE/NSF Plant Biochemistry course, Washington State University, Pullman, WA. Guest lecturer, summer, 1995; summer, 1997.
Arabidopsis Molecular Genetics course, Cold Spring Harbor, NY. Guest lecturer, summer, 1997.
NATO Advanced Study Institute "Plant responses to biotic and abiotic stress: molecular mechanisms and implications for agriculture", Roscoff, France Course instructor, May, 2000.

Environmental Detectives (program for middle school students and teachers), sponsored by the Montshire Museum of Science with support from NIEHS and NSF. Summer, 2002; summer 2003. Lectured to teachers attending the summer institute and interacted over the school year to provide support to teachers.

Postdoctoral Research Associates Trained and their current positions

[1] Ora Plessner. 1988-90. Retired, Instructor, Hebrew University, Rehovot, Israel.
[2] Harry Kurtz. November, 1991 to August, 1994. Recipient, USDA postdoctoral fellowship. Associate Professor, Biological Sciences, Clemson University, Clemson, SC.
[3] Jenny Saleeba. January, 1992 to January, 1994. Senior Lecturer, School of Biological Sciences, University of Sydney, Sydney, Australia.
[4] Janette Fett. January, 1995 to February, 1997. Professor, Departmento de Botanica, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
[5] Quentin Groom. November, 1996 to March, 1997.
[6] Dave Westenberg. August, 1993 to July, 1997. Recipient, USDA postdoctoral fellowship. Professor, Department of Biological Sciences, Missouri University of Science and Technology, Rolla, MO.
[7] Tama Fox. August, 1996 to August, 1998. Adjunct Lecturer. North Seattle Community College.
[8] Erin Connolly. February, 1997 to August, 2000. Recipient, USDA postdoctoral fellowship. Professor and Department Head, Department of Plant Science, Penn State University, University Park, PA.
[9] David Stevenson. August, 1997 to August, 1999. Microbiologist, ARS-USDA, Dairy Forage Research Center, Madison, WI.
[10] Elizabeth Rogers. September, 1997 to August, 2001. Recipient of Life Sciences Postdoctoral Fellowship. Research Molecular Biologist, ARS-USDA, Fort Detrich, MD.
[11] Eric Boncompagni. January, 1998 to August, 2000. Lecturer, Université de Nice-Sophia Antipolis, Nice, France.
[12] Sophie Marquis. May, 2002 to November, 2003. Senior Research Associate, Microbiology Department, Geisel School of Medicine at Dartmouth, Hanover, NH
[13] Suman Rawat. May, 2002 to August, 2004. Senior Research Associate, Department of Biochemistry, Rutgers University, NJ
[14] Sun A Kim. Research scientist. January, 2001 to present.
[15] Natasha Grotz. Croasdale teaching fellow. Department of Biological Sciences, Dartmouth College. May, 2004 to April, 2006. Senior Lecturer, Department of Biological Sciences, Dartmouth College.
[16] Tracy Punshon. July, 2005 to June 2008. Research Assistant Professor, Department of Biological Sciences, Dartmouth College.
[17] Sichul Lee. March, 2010 to April 2013. Research Scientist, Institute of Science and Technology, Daejeon, South Korea.
[18] Hélène Zuber. May, 2010 to December, 2010. Research Scientist, Institut de Biologie Moléculaire des Plantes, Université de Strasbourg, France.
[19] Heng Hsuan Chu. May, 2010 to August 2018. Associate Professor, Northern Michigan University.
[20] Alicia Sivitz. October, 2011 to March, 2016. Research scientist, Cepheid.
[21] Prashant Hosmani. May, 2012 to August 2015. Research scientist, NRGene.
[22] Britany Privett. May, 2017 to June 2019. Research scientist, Mascoma.
[23] Seckin Eroglu. August 2018 to July 2019. Fulbright Scholar. Assistant Professor, Middle East Technical University, Ankara, Turkey.
[24] Garo Akmakjian. August 2018 to December 2019. Postdoctoral research associate, UC Riverside.
[25] Karina Lopes. January 2020 to July 2020. Research associate, Geisel School of Medicine at Dartmouth.

[26] Fiona Belbin. February 2020 to November 2023. Maternity leave.

Graduate Students trained and their current positions

[1] Karen Page. Ph.D. 6/94. Senior Staff, TREAT, Lebanon, NH.
[2] Ying Yi. Ph.D. 1/95. Research Associate, University of Cincinnati, Cincinnati, OH.
[3] Kristin LeVier. Ph.D. 6/96. Formerly, senior scientist, Pfizer, Inc.
[4] Heather Prince Benson. Ph.D. 6/03. Extended maternity leave.
[5] Natasha Grotz. Ph.D. 6/04. Senior Lecturer, Department of Biological Sciences, Dartmouth College.
[6] Brenda Parson Hall. Ph.D. 2/05. Extended maternity leave.
[7] Elizabeth Colangelo. Ph.D. 5/06. NIGMS Trainee. Ruth L. Kirschstein National Research Service (NRSA) postdoctoral fellow, Salk Institute for Biological Studies. Extended maternity leave.
[8] Aaron Atkinson. Ph.D. 8/06. Recipient of the Young Scientist Award, Council for Biotechnology Information. Department of Education GAANN fellow. Clinical Genomicist/Research Scientist at Huntsman Cancer Institute.
[9] Stephanie Batchelet. Ph.D. 5/08. NIGMS Trainee. Department of Education GAANN fellow. Associate Professor, Department of Integrative Science and Technology, James Madison University, VA.
[10] Jeeyon Jeong. Ph.D. 8/08. Associate Professor, Amherst College.
[11] Joohyun Lee. Ph.D. 1/09. ASPB student Ambassador. Assistant Professor, Duke Kunshan University, Kunshan, China.
[12] Joseph Morrissey. Ph.D. 10/10. Research scientist, Genective.
[13] Christine Palmer. Ph.D. 5/11. Department of Education GAANN fellow. NIGMS trainee. Assistant professor, Natural Sciences Department, Castleton University.
[14] Jessica Weng – M.S. 3/13. M.D., Ross University School of Medicine.
[15] Maria Hindt – Ph.D. 5/15. Recipient of NSF predoctoral fellowship. ASPB student Ambassador. Scientist, Mosaic Biosciences.
[16] Amanda Socha –Ph.D. 5/16. Department of Education GAANN fellow. Lab Coordinator, Biology Department, Dartmouth College.
[17] Garo Akmakjian – Ph.D. 2018. Department of Education GAANN fellow. Postdoctoral fellow, U C Riverside.
[18] Suzana Car – Ph.D. 2017. Team Lead, Research and Development, Curative Inc.
[19] Todd Warczak – Ph.D. 2020. Department of Education GAANN fellow. Data Scientist, Bio-Rad.
[20] Nabila Riaz. Ph.D. 2023. Science Policy Analyst, FASEB (Federation of American Societies for Experimental Biology).

Undergraduate Students trained

Undergraduate Honors thesis students:

[1] Erik J. Meidl ‘87. M.D., University of Pennsylvania.
[2] Barbara Anne Morisseau ‘88. M.D , Syracuse University.
[3] Molly Hoult ‘88. NSF REU awardee. M.B.A., Stanford University.
[4] Rick Furman ‘89. M.D.
[5] Erin Connolly ‘90. NSF REU awardee. Ph.D. UC Davis.
[6] Michael Nead ‘91. Presidential Scholar. M.D./Ph.D., University of Rochester.
[7] Gregory York ‘92. Ph.D., MIT; Law degree, University of Michigan
[8] Carolyn Riley ‘93. NSF REU awardee. Ph.D. Harvard University.
[9] Alex Szidon ‘94. NSF REU awardee. Ph.D., Harvard University.
[10] Sangwoo Lee ‘94. Presidential Scholar. M.D., Brown University.
[11] Ellen Friday ‘94. M.S., Clinical Genetics, University of Texas, Houston

[12] Brooke Anne Parry '95. Presidential Scholar. M.S. University of Melbourne, Australia. Ph.D., Yale University.
[13] Justin Genant '95. Presidential Scholar. American Society for Microbiology Undergraduate Research Intern. M.D., Stanford University
[14] Sarasa Kimata '96. Presidential Scholar. NSF REU awardee. M.D., Brown University.
[15] Newrhee Kim '96. M.D., Syracuse University.
[16] Beth Marston '97. Presidential Scholar. Howard Hughes intern. American Society for Microbiology Undergraduate Research Intern. NSF REU awardee. M.D., University of Maryland, Baltimore County.
[17] Laura Guogas '98. Women in Science intern. Presidential Scholar. Howard Hughes Intern. Ph.D., Harvard University. Postdoctoral research, MIT.
[18] Erica McAuliffe '98. Presidential Scholar. M.D., Harvard University.
[19] Jennifer Blair '99. Women in Science Intern. Presidential Scholar intern. M.D., Columbia University.
[20] Shreeram Akilesh '00. M.D./Ph.D., Washington University.
[21] Andrew Gray '01. Presidential Scholar. American Society for Microbiology Undergraduate Research Intern. Ph.D., Harvard Medical School.
[22] Laura Rogers '02. Women in Science Intern. Presidential Scholar. Ph.D., Cornell University.
[23] Ramona Hoh '02. Ph.D., Stanford University.
[24] Peter Colabuono '04. Analyst, Frazier Healthcare Ventures.
[25] Ryan Braun '04. Masters student, Columbia University.
[26] Sara Thiebaud '06. Women in Science Intern. Presidential Scholar. MS, Harvard University.
[27] Rachel Ruiz '07. Women in Science Intern. Presidential Scholar. M.D., Vanderbilt University.
[28] Kelli Hvorecny '07. Ph.D., MCB Program, Dartmouth.
[29] Jimmy Zhuang '08. Beckman Scholar. Ph.D., Harvard University.
[30] Carla Williams '09. Women in Science Intern. HHMI intern. Presidential Scholar. Beckman Scholar. M.D., Johns Hopkins University.
[31] Tomi Jun '08. Presidential Scholar. Valedictorian. M.D., Harvard Medical School.
[32] Adi Rattner '10. Women in Science Intern. HHMI intern. Presidential Scholar. M.D., Johns Hopkins University.
[33] Zieanna Chang '10. Women in Science Intern. Intramural Research Training Award (IRTA) Program, NIH. M.D., University of Michigan.
[34] Ilda Bajraktari '11. Women in Science Intern. HHMI intern. Intramural Research Training Award (IRTA) Program, NIH. Resident, Geisel School of Medicine at Dartmouth.
[35] Kayla McFarland '16. Presidential Scholar, Summer, Fall 2014; Winter, 2015.
[36] Joseph Minichiello '17. Honors student, Fall, 2016; Winter, Spring 2017. Medical Student, Geisel School of Medicine at Dartmouth.
[37] Miranda Grieg '19. Honors student, Fall, 2018; Winter, Spring 2019. Teaching Science Fellow, Dartmouth.
[38] Eric Laderman '20. Research assistant, Fall 2016, Winter 2017, Fall, 2018, Spring 2019. Recipient, summer fellowship from the Paul K. Richter and Evalyn E. Cook Richter Memorial Fund; Honors student, Fall 2019; Winter, Spring 2020. Recipient, grant from Parsons Family Fund for W20 honors research. Graduate student, NYU.
[39] Tyler Lee '21. Research Assistant, Spring 2018. Sophomore Scholar, Fall 2018. Junior Scholar, Fall 2019. Honors student Fall 2020; Winter, Spring 2021. Recipient, grant from the Kaminsky Family Fund for W21 honors research.
[40] Sophia Skallerud '22. Junior Scholar, Summer, Fall 2021. Honors student Winter, Spring 2022.

[41] Maxwell Teszler ’23. Research assistant, Summer 2021. Junior Scholar, Fall 2021, Winter 2022. Honors student Fall 2022; Winter, Spring, Fall 2023. Goldwater Scholar. Marshall Scholar.
[42] Ella Laurent ’24. Junior Scholar. Fall, Winter, Spring 2023. Honors student Fall, 2024; Winter, Spring 2025.

Undergraduate independent study projects (in addition to honors theses listed above):

[1] Kelley Miller. ‘87. Mount Holyoke College. Independent study, Summer, 1986.
[2] George Farmer ‘87. Independent Study (for credit as Bio 85).
[3] Tim Lukovits ‘88. Independent Study. NSF REU awardee.
[4] Marc Farraye ‘89. Independent Study (for credit as Bio 85).
[5] Craig Spencer ‘89. Independent Study (for credit as Bio 85).
[6] Stephanie Ann Williams ‘92. Independent Study.
[7] John Bagnal ‘92. Presidential Scholar Intern. Fall, 1990.
[8] Beth Parento ‘94. Women in Science Intern. Fall, 1990; Winter, 1991 NSF REU awardee.
[9] Richelle DeMayo ‘92. Fall, 1991.
[10] Gillian Jacob ‘95. Women in Science Intern. Winter, Spring 1992.
[11] Sonal Patel ‘95. Women in Science Intern. Winter, Spring 1992.
[12] Joanne Roy ‘95. Summer, Fall, 1992.
[13] Sacha Rajack ‘96. Women in Science Intern, Winter, Spring, 1993.
[14] Melissa Strafford ‘97. Women in Science Intern. Winter, Spring 1994.
[15] Karen Tompsett ‘95. Summer, Fall 1994. NSF REU awardee.
[16] Steven Haddad ‘96. Presidential Scholar intern. Fall, 1994; Spring, 1995.
[17] Julie Herron ‘98. Women in Science intern. Winter, Spring, Fall 1995.
[18] Michelle Lee ‘99. Women in Science intern. Winter, Spring, Fall 1996; Winter, 1997.
[19] Jill Anne Perring ‘99. Research assistant, Fall 1996; Winter, Summer, 1997.
[20] Amy Thomas ‘99. Women in Science intern. Winter, Spring, 1997. Research assistant, Summer, 1997.
[21] Elizabeth Morgan ‘00. Women in Science intern. Winter, Spring, 1997.
[22] Arthur Desrosiers ‘99. Research assistant, Spring, 1997.
[23] Angela Darko ‘99. Howard University, Leadership Alliance Intern. Summer, 1997.
[24] Benita Perch ‘01. Women in Science intern. Winter, Spring, 1998.
[25] Eva Liu ‘01. Women in Science intern. Winter, Spring, 1998.
[26] Susan Tucker ‘02. Women in Science Intern. Winter, Spring, 1999.
[27] Kapua Medeiros ‘03. Women in Science Intern. Winter, Spring, 2000. Research assistant, Winter 2001.
[28] Jennifer Ross ‘03 Women in Science Intern. Winter, Spring, 2000. Research assistant, Winter, 2001. Presidential Scholar intern, Summer, Fall, 2001.
[29] Katie Walters ‘04 Women in Science Intern. Winter, Spring, 2001. Research assistant, Fall, 2001.
[30] Lisa O’Connor ‘04. Women in Science Intern. Winter, Spring, 2001.
[31] Jenna Holmen ‘02. Research assistant, Summer, Fall, 2001; Winter, 2002. Independent study (for credit as Bio 85). Spring, 2002.
[32] Jessica Wang ‘05. Women in Science Intern. Winter, Spring, 2002.
[33] Kathryn Christensen ‘05. Women in Science Intern. Winter, Spring, 2002.
[34] Allan Mabardy ‘02. Independent study (for credit as Bio 85). Winter, 2002.
[35] Hannah Byrne ’04. Presidential scholar, Summer, 2002.
[36] Rashmi Jain ’06. Women in Science Intern. Winter, Spring, 2003. Research assistant, Fall, 2003, Spring, Summer 2004.
[37] Chad Valderrama ’05. Presidential scholar, Summer, Fall 2003.
[38] Julia Treseder ’07. Women in Science Intern. Winter, Spring, 2004.
[39] Kristin Hayden ’05. Research Assistant, Winter, Spring 2005.

[40] Ka Yan Luk ’09. Women in Science Intern. Winter, Spring 2006.
[41] Stephanie Hu ’11. Women in Science intern. Winter, Spring, 2008. HHMI Intern, Spring, Summer 2009.
[42] Carmit Schatz. SURF program, Summer 2008.
[43] Larry Bowman ’11. HHMI Intern. Fall, 2008; Winter 2009.
[44] Jennifer Bares ’12. Women in Science Intern. Winter, Spring 2009.
[45] Tara Henn ’12. Women in Science Intern. Winter, Spring 2009.
[46] Joie D. Cooper ’11. HHMI Intern, Spring, Summer 2009.
[47] Greg Challener ’12. Presidential Scholar, Summer 2010; Winter 2011.
[48] Sage Dalton ’12. Presidential Scholar, Fall 2010; Winter 2011.
[49] Patriot Yang ’13. HHMI Intern Fall, 2010; Summer 2011; Winter 2012.
[50] Maria Hernandez ’14, Women in Science Intern, Winter 2011.
[51] Jennifer Estrada ’14, Women in Science Intern, Winter, Spring, 2011. Research Assistant, Summer 2011; Winter 2012; Winter 2013, Spring 2013.
[52] Sean Beckwith. SURF program, Summer 2011.
[53] Julianne Ivy ’15, Women in Science Intern, Winter, Spring 2012.
[54] Erica Westenberg ’15, Women in Science Intern, Winter, Spring 2012.
[55] Elisabeth Seyferth ’14. Presidential Scholar, Summer 2012; Spring 2013.
[56] Patrick Campbell ’15. Sophomore Scholar, Fall 2012; Winter 2013; Presidential Scholar, Summer, Fall 2013.
[57] Diane D. Qi ’16, Women in Science Intern, Winter, Spring 2013.
[58] Silvia Arora ’16. Sophomore Scholar, Fall, 2013; Winter, 2014.
[59] Jennifer Yeoh Wang ’17. Women in Science Intern, Winter, Spring 2014.
[60] Leigh Goulbourne ’17. Women in Science Intern, Winter, Spring 2014. Sophomore Scholar, Fall 2014; Spring 2015.
[61] Alani Casey. North Carolina Central University, Leadership Alliance, Summer, 2014.
[62] Sylvia Gabber ’18. Women in Science Intern, Winter, Spring 2015.
[63] Alexa Lewis ’18. Women in Science Intern, Winter, Spring 2015; Sophomore Scholar, Fall 2015, Winter 2016.
[64] Sarah Colon ’17. Presidential Scholar, Summer, 2015; Winter 2016.
[65] Nico Robinson ’17. Junior Scholar, Summer, 2015.
[66] Sloane Bashford ’19. Women in Science Intern, Winter, Spring 2016.
[67] Madelyne Mayer ’20. Women in Science Intern, Winter, Spring 2017.
[68] Catherine Page ’20. NSF REU student, Fall 2017, Winter, Spring, Summer 2018.
[69] Sarah Jennewein ’21. Women in Science Intern, Winter, Spring 2018. Sophomore Scholar Fall 2018, Winter 2019. Presidential Scholar, Summer 2019.
[70] Nandini Prasad ’22. Women in Science Intern, Winter, Spring 2019. Sophomore Scholar, Fall 2019.
[71] Melany Quintero ’23. Women in Science Intern, Winter 2020.
[72] Elizabeth Hanson ’25. Women in Science Intern. Winter, Spring 2022.
[73] Paget Chung ’26. Women in Science Intern. Winter, Spring 2023.
[74] Julia Gordon ’27. Women in Science Intern. Winter, Spring 2024.
[75] Kate Winslow ’26. Research assistant, Fall 2024. Presidential Scholar, Winter, 2025.

Membership on Graduate Advisory Committees (Dartmouth unless noted)

[1] Tom Templeman. Ph.D. 1987. Thesis advisor: Gus Demaggio
[2] Jon Dinsmore. Ph.D. 1988. Thesis advisor: Roger Sloboda
[3] Bob Corell. Ph.D. 1990. Thesis advisor: Bob Gross
[4] Lynn Sheldon. Ph.D. 1990. Thesis advisor: Ed Berger
[5] Sam Friedlander. M.S. 1991. Thesis advisor: Bob Gross
[6] James DeCamp. Ph.D. 1991. Thesis advisor: Gus Demaggio
[7] Natarajan Venkataraman. M.S. 1990. Thayer School of Engineering. Thesis advisor: Lee Lynd

[8] Nafsika Kronidou. Ph.D. 1991. Thesis advisor: Roger Sloboda
[9] Peter Clancy. Ph.D. 1991. Thayer School of Engineering. Thesis advisor: Lee Lynd
[10] Peter Eden. Ph.D. 1991. University of New Hampshire. Thesis Advisor: Richard Blakemore
[11] Lenny Dobens. Ph.D. 1991. Thesis advisor: Ed Berger
[12] Karen Rudolph. Ph.D. 1992. Thesis advisor: Ed Berger
[13] Jennifer Johnston. Ph.D. 1992. Thesis advisor: Roger Sloboda
[14] Marsha Pilgrim. Ph.D. 1993. Thesis advisor, Rob McClung
[15] Peter Thygesen. Ph.D. 1993. External Examiner. Australian National University. Thesis advisor: David Day.
[16] Cindy Davis. Ph.D. 1994. Thesis advisor: Rob McClung
[17] Tayrn Klapatch. Ph.D. 1994. Thesis advisor: Lee Lynd
[18] Jane Ye. Ph.D. 1996. Thesis advisor: Roger Sloboda
[19] Hai Hong Zhong. Ph.D. 1997. Thesis advisor: Rob McClung
[20] Amponash Fordjour. M.S. 1997. Thesis advisor: Ed Berger
[21] Julie Frugoli. Ph.D. 1998. Thesis advisor, Rob McClung
[22] Jane Marsh. Ph.D. 1998. Thesis advisor: Ron Taylor
[23] Dan Stevens. M.S. 1999. Thayer School of Engineering. Thesis Advisor: Lee Lynd.
[24] Christine Mathieu, Ph.D. examination committee, 1999. Université de Nice-Sophia Antipolis. Thesis advisor: Alain Puppo
[25] Christian LaPointe. Ph.D. 2001. Thesis advisor: Ron Taylor
[26] Brian Waters. Ph.D. 2002. University of Missouri. Thesis Advisors: Dale Blevins and David Eide
[27] Mindy Nye, Ph.D. 2003. Thesis advisor: Ron Taylor
[28] Tom Kirn, Ph.D. 2003. Thesis advisor: Ron Taylor
[29] Yingzhen Yang, Ph.D. 2003. Thesis advisor: Tom Jack
[30] Sunil Desai, Ph.D. 2003. Thayer School of Engineering. Thesis Advsor: Lee Lynd
[31] John P. Connolly, M.S. 2004. Thesis advisor: George O'Toole
[32] Shannon Hinsa, Ph.D. 2005. Thesis advisor: George O'Toole
[33] Robin Hulbert, Ph.D. 2005. Thesis advisor: Ron Taylor
[34] Jay Sutherland, M.S. 2005. Thesis advisor: Ron Taylor
[35] Dan MacEachran, Ph.D. 2008. Thesis advisor: George O'Toole
[36] Emily Stonehouse. Ph.D. 2008. Thesis advisor: Ron Taylor
[37] Judy Merritt, Ph.D. 2009. Thesis advisor: George O'Toole
[38] Carla Cugini, Ph.D. 2009. Thesis Advisor: Deborah Hogan
[39] Pete Newell, Ph.D. 2010. Thesis Advisor: George O'Toole
[40] Raquel Martinez, Ph.D. 2009. Thesis Advisor: Ron Taylor
[41] Timothy Carlton, External Examiner, Ph.D. thesis, 2006. University of Otago, Dunedin, New Zealand
[42] Jarrad Marles, Ph.D. 2011. Thesis Advisor: Ron Taylor
[43] Adel Malek. Qualifying exam committee. Thesis Advisor: Deborah Hogan
[44] Kyle Cady, Ph.D. 2012. Qualifying exam committee and Ph.D thesis committee. Thesis Advisor: George O'Toole
[45] Patrick Loughlin, External Examiner, Ph.D. thesis, 2008. The University of Adelaide, Australia.
[46] Diana Morales, Ph.D. 2011. Qualifying exam committee and Ph.D. thesis committee. Thesis advisor, Deb Hogan
[47] Chelsea Boyd, Ph.D. 2013. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole
[48] Alicia Ballok, Ph.D. 2013. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole
[49] Ana Posada, Ph.D. 2013. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Ambrose Cheung

[50] Elizabeth Barrett, Ph.D. 2013. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Lee Lynd
[51] Devin Currie, Ph.D. 2013. Qualifying exam committee. Thesis Advisor: Lee Lynd
[52] Dae Gon Ha, Ph.D. 2014. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[53] Caitlyn Hauke, Ph.D. 2016. Ph.D. thesis committee. Thesis advisor: Ron Taylor.
[54] Allia Lindsay, Ph.D. 2014. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deb Hogan.
[55] Jack Hammond, PhD. 2017. Qualifying exam committee. Thesis Advisor: Deb Hogan.
[56] Gary Heussler, Ph.D. 2016. Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[57] Kurt Dalstrom, Ph.D. 2016. Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[58] Yang Gao, Ph.D. 2016. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Ron Taylor.
[59] Felipe Ricachenevsky, Ph.D. 2013. Advisor for Sandwich year, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil 2012.
[60] Erin Shoemaker, M.S. 2016. Qualifying exam committee. Thesis Advisor: G. Eric Schaller
[61] Amy Baker, Ph.D. 2016. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[62] T. Jarrod Smith, Ph.D. 2018. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[63] Colleen Harty, Ph.D. Qualifying exam committee. Thesis Advisor: Deb Hogan.
[64] Arsa Thammahong, Ph.D. 2016. Ph.D. thesis committee. Thesis Advisor: Robert Cramer.
[65] Kimberley Lewis. Ph.D. 2019. Qualifying Exam Committee and Ph.D. thesis committee. Thesis Advisor: Deb Hogan.
[66] Alan Collins. Ph.D. 2019. Qualifying Exam Committee. Thesis Advisor: George O'Toole.
[67] Irina Mikheyeva. Ph.D. 2019. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Ambrose Cheung
[68] Jessie Scott, M.S. 2018. Qualifying Exam Committee. Thesis Advisor: George O'Toole.
[69] Stephen Costa. currently enrolled. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Ambrose Cheung.
[70] Vibhuti Rana. Qualifying exam committee. Thesis Advisor: Gio Bosco.
[71] Ella Brear. External Examiner, Ph.D. thesis, 2016. University of Sydney, Australia.
[72] Jingxuan Cui. Ph.D. 2019. Ph.D. thesis committee. Thesis Advisor: Lee Lynd.
[73] Shanice Webster. Ph.D. 2021. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[74] Courtney Price. Ph.D. 2021. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[75] Liviu Cengher. Ph.D. 2022. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Ambrose Cheung.
[76] Stefan Katharios. Ph.D. 2021. Qualifying exam committee. Thesis Advisor: George O'Toole.
[77] Michelle Clay. Ph.D. 2020. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deborah Hogan.
[78] Georgia Dong. PhD. 2021. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deborah Hogan.
[79] Colin Sheehan. PhD. 2021. Qualifying exam committee. Thesis Advisor: Dean Madden.
[80] Nathieli Schiavi. External Examiner, MSc thesis, 2017. Dalhousie University, Canada
[81] Dallas Mould. Ph.D. 2023. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deborah Hogan.

[82] Chris Geiger. Ph.D. 2024. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[83] Daniel Murante. Ph.D. 2024. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deborah Hogan.
[84] Alexander Pastora. Ph.D. 2024. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[85] Kaesi Morelli. Ph.D. 2024. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Robb Cramer.
[86] Amy Conaway. Currently enrolled. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: Deborah Hogan.
[87] Rendi Rogers. M.S. 2024. Qualifying exam committee. Thesis Advisor: George O'Toole.
[88] Alex Fu. Currently enrolled. Qualifying exam committee and Ph.D. thesis committee. Thesis Advisor: George O'Toole.
[89] Robert Montoya. Currently enrolled. Qualifying Exam committee. Thesis Advisor: George O'Toole.
[90] Tai Cooper. External Examiner, Ph.D. thesis 2024. Queensland University, Australia.

College Committees (last 10 years; member unless noted)

2015	Member, Director of Science & Technology Outreach Search Committee
2015-17	Member, Committee on the Faculty
2016-19	Molecular and Cellular Biology Graduate Committee
2017	Speaker, Family Fellows weekend
2017-20	Committee Advisory to the President
2019-20	Vice Chair, Committee Advisory to the President
2021-24	Member, Council on Institutional Priorities
2021-22	Member, Faculty Search Committee, Microbiology and Immunology
2022-25	Member, Title IX Council
2024-25	Chair, Title IX Council

Department Committees (last 10 years; member unless noted)

2000-	Member, Greenhouse Committee
2018-20	Member, Committee Advisory to the Chair
2019-20	Chair, Faculty Search Committee, Molecular and Cellular Biology
2022-23	Member, Faculty Search Committee, Molecular and Cellular Biology
2024-25	Member, Faculty Search Committee, Plant Biology

Professional Societies

American Association for the Advancement of Science
American Society for Microbiology
American Society of Plant Biologists
Association for Women in Science (local chapter executive board, 1987-89; 1991-92)
Genetics Society of America
International Society for Molecular Plant-Microbe Interactions
The International BioIron Society

Invited Lectures (last 10 years)

2015 Invited Speaker, 5th Pan American Plant Membrane Biology Workshop, San Pedro de Atacama, Chile.

2015 Invited Speaker, Gordon Research Conference on Cell Biology of Metals, Mt. Snow, Vermont
2015 Invited Speaker, Plant Sciences Center Retreat, University of Georgia
2015 Invited Speaker, NIH Workshop on Ecology's Role in Population Genetics and Evolution, Bethesda, MD
2015 3rd International Plant Physiology Congress, New Delhi, India
2016 Speaker, New Hampshire Arsenic Consortium meeting, Concord, NH
2016 Invited Chair, International Workshop on Plant Membrane Biology, Annapolis, MD
2016 Invited Speaker and session co-chair, EHS Fest, Durham, North Carolina
2017 Invited Speaker, Genetics Institute, University of Florida
2017 Keynote Speaker, 28th International Conference on Arabidopsis Research, St. Louis, MO
2017 Invited Speaker, Auburn University, Auburn. AL
2017 Invited Speaker, University of Massachusetts, Amherst
2018 Invited Speaker, Biology Department, Texas A&M
2018 Invited Speaker, FASEB meeting on Trace Elements in Biology and Medicine, Granlibakken, CA
2018 Invited Speaker, Gordon Research Conference on Plant Molecular Biology, Holderness, NH
2018 Keynote Speaker, Plant Biology Europe 2018, Copenhagen, Denmark
2018 Invited Speaker, Nanjing Agricultural University, PRC
2018 Keynote Speaker, 19th International Symposium on Iron Nutrition and Interactions in Plants, Taipei, Taiwan
2018 Invited Speaker, Plant Biology 2018, Montreal, Canada
2018 Robert. B. Harris Distinguished Lecturership, MIT
2019 Invited Speaker, Biology Department, Stanford University
2019 Invited Speaker, Plant Gene Expression Lab, UC Berkeley
2019 Invited Speaker, Plants of the Future, Nature Symposium, NYU
2019 Invited Speaker, Pan-American Light Sources for Agriculture (PALSA 2019), Saskatoon, Canada
2019 Keynote Speaker, Gordon Research Conference on Cell Biology of Metals, Barcelona, Spain
2019 Stephen Hales Prize talk, Plant Biology 2019, San Jose, CA
2020 Invited speaker, Plant Biotechnology for Health and Sustainability Symposium, Michigan State University
2020 Keynote speaker, Symposium 2020 "Applications of Modern Technology from Lab to Field," University of Missouri
2020 Keynote Speaker, 20th International Symposium on Iron Nutrition and Interactions in Plants, Reims, France. Postponed until 2022.
2020 Invited Speaker, Biology Program, Bard College
2021 Invited Speaker, Biology Department Grinnell College
2021 Discussion Leader, Gordon Research Conference on Cell Biology of Metals, Mount Snow, VT.
2021 Invited Speaker, Plant Genomes, Systems Biology and Engineering, Cold Spring Harbor Laboratory (virtual)
2022 Keynote Speaker, 20th International Symposium on Iron Nutrition and Interactions in Plants, Reims, France.
2023 Invited Speaker, Plant Response to Stresses and Environmental Signals, China Agricultural University, Beijing, China (virtual)
2023 Discussion Leader, Gordon Research Conference on Cell Biology of Metals, Mount Snow, VT.
2023 Invited Speaker, Pan-American Light Sources for Agriculture (PALSA 2023), Cornell University

2023 Invited Speaker, The Future of Plant-Environment Interactions: Challenges and Opportunities in a Changing Climate; Banbury Center at Cold Spring Harbor Laboratory
2023 Invited Speaker, Biology Department, Clemson University
2024 Discussion Leader, FASEB Conference on Trace Elements in Biology and Medicine, Melbourne, FL
2024 Invited Speaker, Plant Sensory Biology, Simons Foundation New York, NY
2024 Invited Speaker, 34th Annual Users Meeting, Brazilian Synchrotron Light Laboratory, Campinas, Brazil
2025 Keynote Speaker, Cell Biology of Metals Gordon Conference, Portland, ME
2025 Invited Speaker, John Innes Center, UK

Public Understanding of Science

Speaker in the "Frontiers of Knowledge" series on "The mixed blessing of genetic research." "Is there a genetically engineered food on your menu?" Concord, NH 11/8/98

Panel member, "Genetically modified food crops: playing god or feeding the world?" Public Forum sponsored by the Environmental Studies Program, the Department of Biological Sciences and the Ethics Institute at Dartmouth College. 2/24/00

Symposium speaker, "Genetically Modified Foods: Benefits and Risks," Science Center of Eastern Connecticut, New London, CT. 2/17/01

Symposium speaker, "Gene Hysteria," Dartmouth Club of Chicago 3/3/01

Speaker in the 6-week series "Heal thyself" offered by Dartmouth Community Medical School: "The secret lives of vitamins, drugs, supplements and genetically modified foods," Hanover, NH 4/10/01.

Speaker in the 6-week series "Heal Thyself" offered by Dartmouth Community Medical School: "Nutrition and the secret lives of genetically modified foods," Manchester, NH 10/24/01

Women's Network of the Upper Valley, 11/13/01. Genetically modified foods.

My article "The green revolution strikes gold," originally published in Science (2000; 287:241-243), was reprinted in "Genetically Modified Foods: Debating Biotechnology", edited by Michael Ruse and David Castle. Prometheus Books, 2002.

Participant, 12th Annual Coalition for National Science Funding, Capitol Hill, June, 2005 http://www.aspb.org/publicaffairs/briefing/

Demonstrator for hands-on activities at the American Society for Plant Biologists Education booth. AAAS Family Science Days, San Diego CA 2/20/10-2/21/10

Demonstrator for hands-on activities at the American Society for Plant Biologists Education booth. AAAS Family Science Days, Vancouver BC 2/18/12-2/19/12

Chair, AAAS Symposium at the 2017 Annual meeting "Arsenic in Food: from soil to plate to policy."

Patents

Guerinot, M.L. and D.J. Eide. 1998. Metal-regulated metal transporters and uses thereof. U.S. Patent #5,846,821.

Guerinot, M.L. and D.J. Eide. 2000. Metal-regulated metal transporters and uses thereof. U.S. Patent #6,162,900.

Guerinot, M.L. and D.J. Eide. 2003. Metal-regulated metal transporters and uses thereof. U.S. Patent #6,590,140.

Guerinot, M.L. and E.E. Rogers. 2007. Isolated ferric reductase defective polypeptides and uses thereof. U.S. Patent # 7,189,891

Publications

[1] Guerinot, M.L., W. Fong and D.G. Patriquin. 1977. Nitrogen fixation (acetylene reduction) associated with sea urchins (*Strongylocentrotus droebachiensis*) feeding on seaweeds and seagrasses. J. Fish. Res. Board Can. 34: 416-420.
[2] Guerinot, M.L., and D.G. Patriquin. 1981. The association of nitrogen-fixing bacteria with sea urchins. Marine Biol. 62:197-207.
[3] Guerinot, M.L., and D.G. Patriquin. 1981. Nitrogen-fixing vibrios isolated from the gastrointestinal tract of sea urchins. Can. J. Microbiol. 27:311-317.
[4] Guerinot, M.L., P.A. West, J.V. Lee and R.R. Colwell. 1982. *Vibrio diazotrophicus*, sp. nov., a marine nitrogen-fixing bacterium. Int. J. Syst. Bacteriol. 32:350-357.
[5] Carlson, T.A., M.L. Guerinot and B.K. Chelm. 1983. Isolation of *Rhizobium japonicum* glutamine synthetase genes. pp 291-302. *In* Plant Molecular Biology, R.B. Goldberg (ed.), UCLA Symp. Molec. Biol., New Series, vol. XII. A.R. Liss Inc., New York, N.Y.
[6] Guerinot, M.L., and B.K. Chelm. 1984. Isolation and expression of the *Bradyrhizobium japonicum* adenylate cyclase gene (*cya*) in *Escherichia coli*. J. Bacteriol. 159:1068-1071.
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[8] Guerinot, M.L., and R.R. Colwell. 1985. Enumeration, isolation and characterization of nitrogen-fixing bacteria from seawater. Appl. Environ. Microbiol. 50:350-355
[9] Guerinot, M.L., and B.K. Chelm. 1986. Bacterial 5-aminolevulinic acid synthase activity is not essential for leghemoglobin formation in the soybean/*Bradyrhizobium japonicu* symbiosis. Proc. Natl. Acad. Sci. U.S.A. 83:1837-1841.
[10] Guerinot, M.L., and B.K. Chelm. 1986. Molecular aspects of the physiology of symbiotic nitrogen fixation in legumes. pp 103-146. *In* Plant-Microbe Interactions, vol. 2, T. Kosuge and E.W. Nester (eds.), MacMillan Pub. Co., New York, N.Y.
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[13] Guerinot, M.L., E. J. Meidl and O. Plessner. 1990. Citrate as a siderophore in *Bradyrhizobium japonicum*. J. Bacteriol. 172:3298-3303.
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