

Curriculum Vitae
Terrence P. Delaney
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The University of Vermont
Department of Plant Biology
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PROFESSIONAL EXPERIENCE

2007-present	Associate Professor	The University of Vermont, Dept. of Plant Biology
2003-2007	Assistant Professor	The University of Vermont, Dept. of Plant Biology
1995-2003	Assistant Professor	Cornell University, Dept. of Plant Pathology, Ithaca, NY
1992-1995	Postdoctoral Fellow	Ciba-Geigy Plant Molecular Genetics Laboratory, Research Triangle Park, NC
1989-1992	Postdoctoral Fellow	The Salk Institute for Biological Studies, Plant Biology Laboratory, La Jolla, CA

EDUCATION

1989	Ph.D.	The University of Washington, Dept. of Botany, Seattle, WA
1979	A.B.	Duke University, Dept. of Botany, Durham, NC

TEACHING

<u>2024-2025 Classes:</u>	<u>Title</u>	<u>Enrolled:</u>	<u>Credits</u>
PBIO 117/PSS 117	Plant Pathology w/lab (Fall, 2024)	15	4
PBIO 177	Biology of Fungi w/lab (Fall, 2024)	18	4
PBIO 3990	Advanced Mycology (Spring 2025)	11	3

<u>Cumulative</u>	<u>Principal Courses</u>	<u>Students:</u>	<u>Cr Hours t</u>
BCOR 12 (2011-2023)	Discovering Biology (4-cr; lecture component)	1151	3054
PBIO 117/PSS 117 (2007- 2025)	Plant Pathology w/lab (4-cr)	467	1868
PBIO 177 (2011-2025)	Biology of Fungi w/lab (4-cr)	294	1176
PBIO 3990 (2024-2025)	Advanced Mycology (3-cr)	26	63
(2003-2025)	All courses as named instructor:	2071	5416

MYCOLOGICAL ACTIVITIES

- Volunteer: North American Mycological Association (NAMA) Identification of mushrooms involved in animal and human poisonings; <http://www.namyc.org/toxicology/identifiers.html>. 2011-present.
- Expert mushroom identifier (Administrator): Facebook group, "[Poisons Help: Emergency Identification for Mushrooms and Plants](#)"
- 47th Annual New England Mycological Federation (NEMF) Samuel Ristich Foray, Oct. 11-14, 2024, Hyannis, Massachusetts. Attended with three undergraduate and one graduate student.

- 65rd Annual Peck Fungal Foray, Sept. 27-29, 2019. Huguenot, NY. Attended with two UVM undergraduate students and two graduate students.
- 64rd Annual Peck Fungal Foray, Sept. 21-23, 2018. Loch Haven, PA. Attended with three UVM undergraduate students.
- 63rd Annual Peck Fungal Foray, Sept. 22-24, 2017. Newcomb, NY. Attended with four UVM undergraduate students and one graduate student.
- Faculty participant; 41st Northeast Mycological Federation (NEMF) Fungal Foray; Stratton Mountain, VT, July 27-30, 2017. Presented workshops on microscopy of fungal structures.
- Faculty Advisor for UVM SGA Club “Fungi,” 2016-2018. Max Buchholz and Owen Hudson, Students Organizers
- 62nd Annual Peck Fungal Foray, Sept. 23-25, 2016. Huguenot, NY. With four UVM undergraduate students. Presented evening lecture.
- 58th Annual Charles Horton Peck Fungal Foray, Sept 16-18, 2011, Cranberry Lake Biological Station, NY. With five UVM undergraduate students.
- 57th Annual Charles Horton Peck Annual Mushroom Foray, Sept 17-19, 2010. Watson Homestead, Corning NY.
- 56th Annual Charles Horton Peck Fungal Foray, Sept 25-27, 2009, Catskills Mts. near Huguenot, NY. With seven UVM undergraduate students.
- 53th Annual Charles Horton Peck Fungal Foray, Sept 14-16, 2006, Cranberry Lake Biological Station, NY.
- Fungal forays (private):
 - Monitor Barn (Richmond, VT) w/UVM GreenHouse Residential Learning Community (RLC) students, annually 2007-2013.
 - Hardy Plant Club (Vermont), Sept. 8, 2012, Niquette Bay State Park.
 - UVM Centennial Woods “BioBlitz.” Sept. 2010.
 - Mentored Mushroom Club at UVM GreenHouse RLC (2007-2012).

SERVICE, University of Vermont

University

2019-2025	UVM Faculty Senate Student Affairs Committee
2020-2023	Co-chair, FS-SAC
2020-2023	FS-Executive Counsel
2021-2022	Faculty Senate-Exec. Council representative, Catamount Core Curriculum Committee (CCCC)
2021-2022	Catamount Core Curriculum Committee (CCCC), Natural Sciences subcommittee
2020-2021	UVMStrong, Student Experience Working Group (COVID-19 response)

College of Agriculture and Life Sciences (CALS)

2018-2027	CALS Studies Committee
2016-2018	Co-Chair, CALS Faculty Standards Committee
2015-2018	CALS Faculty Standards Committee
2010-2013	Co-Chair, CALS Curriculum Committee
2005-2008	CALS Curriculum Committee

Plant Biology

2005-present	Microscope Committee
2013-present	Plant Biology Curriculum Committee
2004-2009	Plant Biology Curriculum Committee

Other

2024, Feb 29	Provided testimony in support of VT House Bill H. 664, naming of Vermont State Fungus <i>Hericium americanum</i> . Bill passed to law, May 7, 2024.
2006-Present	Biological Sciences Steering Committee Member,
2013-2014	Faculty Coordinator for CALS-Mosaic Student study group at GH-RLC
2005-2014	Resident faculty and Faculty Advisor to GreenHouse Residential Learning Community
2008-2013	Cell and Molecular Biology Program, Education Committee
2006-2009	ASPB Women in Plant Biology Committee
2008, June	Panelist, ASPB Annual Meeting Career Workshop, Merida Mexico

SERVICE, National

- North American Mycological Assoc. (NAMA) Volunteer identification of mushrooms involved in animal and human poisonings; <http://www.namyo.org/toxicology/identifiers.html>. 2011-present.
- NSF Symbiosis, Defense and Self-recognition Program Grant Review Panel, March 31-April 2, 2010.
- American Society of Plant Biologists (ASPB), Women in Plant Biology Committee, 2006-2009.
- NSF Integrative Plant Biology Program Advisory Panel, 2001, 2002, 2003.
- NSF Integrative Plant Biology, Plant Biotic Interactions Program Advisory Panel, 2005.
- USDA NRICGP Biology of Plant-Microbe Associations Advisory Panel, 2005.
- Ad hoc reviews, grants submitted to NSF, USDA.
- Ad hoc reviews for: Science, Plant Cell, Plant Physiology, Plant Journal, Molecular Plant-Microbe Interactions, Molecular Plant Pathology, Planta, Proc. Natl. Acad. Sci., Trends in Genetics, Trends in Plant Science, Plant Cell Reports, Plant Science, Analytical Biochemistry, Journal of Experimental Botany, Plant Molecular Biology.

SERVICE, Media

Real Science – “Archeology Quest: Foraging.” With hosts Lorraine Boissoneault, Stephanie Sammann, Feb 15, 2024. Length: 30:23. Hosted on Nebula: <https://nebula.tv/videos/realscience-foraging>

FOX News interview, Chaga (*Inonotus obliquus*) April 23, 2013.

WCAX TV “The 0:30” Discussed mushroom identification, collecting, and toxic species. Oct. 10, 2011.

FOX News interview with Greg Navaro, toxic mushroom poisonings, Sept 28, 2011.

Channel 7 Television News, Lyndon State College. With reporter Dan Hollis, discussed issues surrounding genetically modified alfalfa and its effect on organic crop production. March 11, 2010.

Science Magazine, News of the Week: Plant Biology: At Long Last, Pathologists Hear Plants' Cry For Help. Science. Published 5 October 2007. Interviewed by Dr. Mitch Leslie, “News of the Week” <http://www.sciencemag.org/cgi/content/full/sci;318/5847/31a>

Science On-Line feature, an Electronic magazine sponsored by the AAAS. Writer: Kate O'Rourke; Topic: Thermal detection of plant disease. Published Aug 14, 2000

On-air interview with Arun Rath, National Public Radio. Topic: Role of salicylic acid in plant disease resistance. Aired Oct 24, 1998

Cornell Focus, Vol. 7, No. 1, 1998; a publication of Cornell University’s College of Agriculture and Life Sciences. Article by Mike Powers, ‘The Secret Wars of Plants.’

HONORS

- UVM Sustainability Faculty Fellow, 2011-2012.
- National Science Foundation CAREER (Faculty Early Career Development Program) Grant recipient, 1997-2002.

- Invited participant to National Academy of Sciences, Frontiers in Science Symposium, Irvine CA. November 6-8, 2003 (one of two plant biologists invited of 74 participants).

PROFESSIONAL SOCIETIES

- International Society for Molecular Plant-Microbe Interactions
- Genetics Society of America
- American Society of Plant Biologists
- American Association for the Advancement of Science

THESES

PRIMARY ADVISOR:

- Zogli, Prince K. (2015). Ph.D. Thesis title: Analysis of the function of SON1-interacting protein, LNK2, *Arabidopsis thaliana*
- Zhen Li, M.S. (2010) Mutant phenotype and mapping of the *Arabidopsis thaliana* *NIP1* gene (*NIM1/NPR1-Independent Resistance to Peronospora*). Master of Science Thesis, The University of Vermont, Department of Plant Biology, Burlington, VT.
- Cristiana M. G. T. Argueso, Ph.D. (2004) Molecular and genetic analyses of NIM1/NPR1-independent defense responses in *Arabidopsis thaliana*, Ph.D. Thesis, Cornell University, Department of Plant Biology, Ithaca, NY.
- Jong-Hyun Ko, Ph.D. (2003) Analysis of NIM1/NPR1 protein phosphorylation and its function in systemic acquired resistance in *Arabidopsis thaliana*, Ph.D. Thesis, Cornell University, Department of Plant Pathology, Ithaca, NY.
- Nicole M. Donofrio, Ph.D. (2002) Identification of host factors potentially involved in susceptible interactions between *Arabidopsis thaliana* and *Peronospora parasitica*, Ph.D. Thesis, Cornell University, Department of Plant Biology, Ithaca, NY.
- Han-Suk Kim, Ph.D. (2002) Molecular and genetic analysis of *NIM1*-dependent and independent induced defense response pathways in *Arabidopsis thaliana*, Ph.D. Thesis, Cornell University, Department of Plant Pathology, Ithaca, NY.
- Gregory J. Rairdan, Ph.D. (2002) Analysis of the roles played by salicylic acid and NIM1/NPR1 in *Arabidopsis thaliana* pathogen defense, Ph.D. Thesis, Cornell University Department of Plant Biology, Ithaca, NY.

SECONDARY ADVISOR

- Jessica Rubin, M. Sci. Candidate. Josef Görres laboratory, 2019-present.
- Karl Fetter Ph.D. (2019) S. Keller lab.
- Agrin Davari, Ph.D. (2018). Informal research advisor for research conducted in my lab.
- Jonathan Zirkle, M.Sci., Sid Bosworth lab, PSS, 2009-2012.
- Renee Petipas, M.Sci., Alison Brody lab, Biology, 2009-2011.
- Samantha R. Foster, M.Sci., Matthew E. Poynter lab, Immunology (May, 2009) Nitrogen dioxide-induced maturation of pulmonary dendritic cells and its importance during allergic sensitization.
- Rachel Sargent, B.S. (2005) Undergraduate Honor's Thesis advisor. The University of Vermont, Department of Botany (J. Harris major advisor).
- Adele McLeod, Ph.D. (2003) 1,3-Beta-glucanases in the oomycete *Phytophthora infestans*: the genes and their regulation, Ph.D. Thesis, Cornell University Department of Plant Pathology, Ithaca, NY.
- Teresa Golden, Ph.D. (1999) Plant development: a view through the *SHORT INTEGUMENTS 1* gene of *Arabidopsis thaliana*, Ph.D. Thesis, University of Rochester Department of Biology, Rochester, NY.
- Diana Miller Parker, Ph.D. (2002) Direct fungitoxic action by a synergistic mixture of cutinase plus Tween 20 protects bean and cabbage leaves from infection, Ph.D. Thesis, Cornell University Department of Plant Pathology, Geneva, NY.
- Guy de Capdeville, Ph.D. (2002) Harpin induced resistance for the control of blue mold of apples, Ph.D. Thesis, Cornell University Department of Plant Pathology, Ithaca, NY.

Ali Alan, Ph.D. (2001) Utilization of lytic peptide and avirulence genes for developing plants with broad spectrum disease resistance, Ph.D. Thesis, Cornell University Department of Plant Breeding, Ithaca, NY.

SUPPORT

Hatch (Delaney) (VT-H02801)	10/1/2020-9/30/2025
United States Dept. of Agriculture	\$44,984
Toxicity and taxonomy of amatoxin-containing mushrooms in Vermont	
Term shows one-year, no-cost extension	

Past Support

Hatch (Delaney) (VT-H02111)	10/1/2014-9/30/2018
United States Dept. of Agriculture	\$44,550
Arabidopsis LNK2 Regulation and Role in Plant Defense and Flower Induction	
Term shows one-year, no-cost extension	

Research Incentive Fund	~\$8,000
CALS, Univ. Vermont	7/1/10-6/30/11

Hatch (Delaney) FY10 (VT-HO1615)	\$5,000
United States Dept. of Agriculture	10/1/09-9/30/10
Characterization of NIP, a novel plant gene involved in oomycete resistance	

NIH COBRE (PIs Drs. R. Budd and G. Ward)	\$110,000
P20 RR021905 (w/ca. 10 co-PIs)	7/1/07-6/30/09
National Institutes of Health	
Center of Biomedical Research Excellence (COBRE), Immunology and Infectious Diseases.	

Hatch (Delaney) (VT-H01301)	No funds attached
United States Dept. of Agriculture	10/1/06-9/30/09
Characterization of the <i>Arabidopsis thaliana</i> SON1-regulated plant disease resistance pathway	

NSF Integrative Plant Biology (Delaney)	\$490,000 (total)
0442081	7/1/03-8/31/07
National Science Foundation	(NCE to 2009)
Characterization of SAR-Independent Pathogen Induced Defense in Arabidopsis	

Hatch-CRIS-VT (Delaney) (VT-HO1114)	\$10,000 (total)
US Department of Agriculture	1/1/05-12/31/05
Molecular Genetic Analysis of Plant Responses to Disease	

NSF-Plant Genome	~\$65,000 to TD
(PI: A. Collmer; (w/ 8 Co-PIs)	
National Science Foundation (\$5,043,864 total)	7/1/00-6/30/02
Functional Genomics of the Interactions of Tomato and <i>Pseudomonas syringae</i> pv <i>tomato</i> pv. DC3000.	

NRICGP , 98353036484 (Delaney)	\$190,000 (total)
United States Dept. of Agriculture	8/15/98-8/31/2002
Function of Arabidopsis NIM1 Protein in Plant Systemic Acquired Resistance	

NSF-CAREER IBN-9722377 (Delaney)
National Science Foundation

\$420,000 (total)
8/1/97-7/31/2002

Molecular Genetic Dissection of Plant Induced Resistance to Disease

Hatch-CSREES NYC-153440 (Delaney)
US Department of Agriculture

\$66,000 (direct)
4/18/96-9/30/2001

Molecular Genetic Analysis of Plant Responses to Pathogens and Resistance to Disease

PUBLICATIONS

Published (*Peer-reviewed):

- *Davoodian, N., Hosaka, K., Raspé, O., Olivia, A.A., Franck, A.R., De Kesel, A., Delaney, T.P., Ammirati, J.F., Nagasawa, E., Buyck, B., and Halling, R.E. (2020). Diversity of *Gyroporus* (Gyroporaceae, Boletales): *rpb2* phylogeny and three new species. *Phytotaxa*, 434: 208-218.
- Delaney, T. P. (2005, 2011). Salicylic Acid. Book Chapter *In: Plant Hormones: Biosynthesis, Signal Transduction, Action!* P. J. Davies (ed.) Kluwer Academic Publishers, Dordrecht, The Netherlands. pp. 635-653.
- Delaney, T.P. (2008) Plant Defense Against Pathogens. *In Yearbook of Science and Technology*, McGraw-Hill. pp. 289-292.
- St.-Pierre, B. and Delaney, T. P. (2008) Molecular and cellular characterization of the Arabidopsis SON1 F-box factor. *Phytopathology* 98: Supp. 195.
- Delaney, T.P., St.-Pierre, B., Li, Z. and Argueso, C., (2006) Identification and analysis of multi-layered disease resistance pathways in Arabidopsis. *In Biology of Plant-Microbe Interactions*, Vol. 5. F. Sánchez, C. Quinto, I.M. López-Lara, and O. Geiger (eds.) Intl. Soc. for Molec. Plant-Microbe Interactions. Merida, Mexico, pp. 247-253.
- Delaney, T.P., Argueso, C., Kim H. S. and Ko, J.-H. (2004). Identification of disease resistance in *Arabidopsis* independent of systemic acquired resistance. *In Biology of Plant-Microbe Interactions*, Vol. 4. I. Tikhonovich, B. Lugtenberg and N. Provorov (eds.) Intl. Soc. for Molec. Plant-Microbe Interactions. St.-Petersburg, Russia, pp. 196-198.
- *Buell, C. R., et al. (2003). The complete genome sequence of the Arabidopsis and tomato pathogen *Pseudomonas syringae* pv. *tomato* DC3000. *Proc Natl Acad Sci USA* 100, 10181-10186..
- *Peng, J.-L., Dong, H.-S., Dong, H.-P., Delaney, T. P., Bonasera, J. M., and Beer, S. V. (2003). Harpin-elicited hypersensitive cell death and pathogen resistance require the *NDRI* and *EDS1* genes. **Physiol Molec Plant Pathol** 62, 317-326.
- *Kim, H.S. and Delaney, T.P. (2002) Arabidopsis SON1 is an F-box protein that regulates a novel induced-defense response independent of both salicylic acid and systemic acquired resistance. **Plant Cell** 14: 1469-82.
- *Kim, H.S. and Delaney, T.P. (2002) Over-expression of *TGA5*, which encodes a bZIP transcription factor that interacts with NIM1/NPR1, confers resistance in *Arabidopsis thaliana* to *Peronospora parasitica*. **The Plant Journal** 32: 151-63.
- *Rairdan, G.J. and Delaney, T.P. (2002) Role of salicylic acid and NIM1/NPR1 in race-specific resistance in Arabidopsis. **Genetics** 161(2): 803-11.
- Delaney, T. P., Argueso, C., Donofrio, N. M., Kim, H. S., Ko, J.-H., Malamy, J., and Rairdan, G. (2002). Analysis of SAR and identification of other pathogen-induced defense responses in Arabidopsis. *In Biology of Plant-Microbe Interactions*, S. A. Leong, C. Allen and E. W. Triplett, eds. (St. Paul, MI), pp. 99-106.
- *Rairdan, G.J., Donofrio, N.M. and Delaney, T.P. (2001) Salicylic acid and NIM1/NPR1-independent gene induction by incompatible *Peronospora parasitica* in Arabidopsis. **Molec. Plant-Microbe Interact.** 14: 1235-46.
- *Donofrio, N.M. and Delaney, T.P. (2001) Abnormal callose response phenotype and hypersusceptibility to *Peronospora parasitica* in defense-compromised Arabidopsis *nim1-1* and salicylate hydroxylase plants **Molec.**

Plant-Microbe Interact. 14: 439-50.

Journal cover micrograph provided by NMD/TPD.

Delaney, T. P., (2000) New mutants provide clues into regulation of systemic acquired resistance.

Trends in Plant Science 5:2:49-51.

*Dong, H., Delaney, T.P., Bauer, D.W. and Beer, S.V. (1999) Harpin induces systemic acquired resistance in *Arabidopsis* through the salicylic acid and NIM1-mediated signal transduction pathway. **Plant J.** 20: 207-15.

Delaney, T. P. (1997) Genetic Dissection of Acquired Resistance to Disease. **Plant Physiology** 113: 5-12.

*Ryals, J., Weymann, K., Lawton, K., A., Friedrich, L., Ellis, D., Steiner, H. -Y., Johnson, J., Delaney, T., P., Jesse, T., Vos, P. and Uknes, S. (1997) The *Arabidopsis* NIM1 protein shows homology to the mammalian transcription factor inhibitor Ik B. **Plant Cell** 9: 425-39.

*Hunt, M. D., Delaney, T. P., Dietrich, R., Weymann, K., Dangl, J. and Ryals, J. A. (1997) Salicylate-independent lesion formation in *Arabidopsis* *lsd* mutants. **Molec. Plant-Microbe Interact.** 10: 531-16.

*Alfano, J. R., Kim, H. S., Delaney, T. P. and Collmer A. (1997) Evidence that the *Pseudomonas syringae* pv. *syringae* hrp-linked *hrmA* gene encodes an AVR-like protein that acts in a hrp-dependent manner within tobacco cells. **Molec. Plant Microbe Interact.** 10: 580-88.

Hunt, M. D., Neuenschwander, U. H., Delaney, T. P., Weymann, K. B., Friedrich, L. B., Lawton, K. A., Steiner, H.-Y. and Ryals, J. A. (1996) Recent advances in systemic acquired resistance research. **Gene** 179: 89-95.

*Lawton, K., Friedrich, L., Hunt, M., Weymann, K., Delaney, T. P., Kessmann, H., Staub, T. and Ryals, J. (1996) Benzothiadiazole induces disease resistance in *Arabidopsis* by activation of the systemic acquired resistance signal transduction pathway. **Plant J.** 10: 71-82.

*Delaney, T.P., Friedrich, L. and Ryals, J. (1995) *Arabidopsis* signal transduction mutant defective in chemically and biologically induced disease resistance. **Proc. Natl. Acad. Sci. USA** 92: 6602-6606.

Neuenschwander, U., Friedrich, L., Delaney, T., Vernooij, B., Kessmann, H., and Ryals, J. (1995) Activation of plant disease resistance. **Aspects Appl. Biol.** 42: 217-225.

Ryals, J., Lawton, K., Delaney, T.P., Friedrich, L., Kessmann, H., Neuenschwander, U., Uknes, S., Vernooij, B. and Weymann, K. (1995) Signal transduction in systemic acquired resistance. **Proc. Natl. Acad. Sci. USA** 92: 4202-4205.

Uknes, S., Vernooij, B., Williams, S., Chandler, D., Lawton, K., Delaney, T., Friedrich, L., Weymann, K., Negrotto, D., Gaffney, T., Gut-Rella, M., Kessmann, H., Alexander, D., Ward, E. and Ryals, J. (1995) Systemic acquired resistance. **HortScience** 30: 962-963.

*Delaney, T.P., Uknes, S., Vernooij, B., Friedrich, L., Weymann, K., Negrotto, D., Gaffney, T., Gut-Rella, M., Kessmann, H., Ward, E. and Ryals, J. (1994a) A central role of salicylic acid in plant disease resistance. **Science** 266: 1247-1250 (TPD and SU co-first-authors).

*Dietrich, R.A., Delaney, T.P., Uknes, S.J., Ward, E.R., Ryals, J.A. and Dangl, J.L. (1994) *Arabidopsis* mutants simulating disease resistance response. **Cell** 77: 565-577 (RAD and TPD co-first-authors).

*Pepper, A., Delaney, T. P., Washburn, T., Poole, D. and Chory, J. (1994) *DET1*, a negative regulator of light-mediated development and gene expression in *Arabidopsis*, encodes a novel protein that is localized to the nucleus. **Cell** 78: 109-116.

Delaney, T.P., Friedrich, L., Kessmann, H., Uknes, S., Vernooij, B., Ward, E., Weymann, K. and Ryals, J. (1994b) The molecular biology of systemic acquired resistance. In: Advances in Molecular Genetics of Plant-Microbe Interactions, Vol. 3, M. J. Daniels, J. A. Downie and Anne E. Osbourn, (eds.). Kluwer Academic Publishers, Dordrecht, Netherlands, pp. 339-47.

Delaney, T.P., Hardison, L.K. and Cattolico, R.A. (1994c) Evolution of plastid genomes: inferences from discordant molecular phylogenies In: Chrysophyte Algae: Ecology, Physiology, and Phylogeny, C.G Sandgren, R.A. Anderson and J. Kristiansen, (eds.). Cambridge Univ. Press, Cambridge, UK, pp. 25-45.

*Uknes, S., Winter, A., Delaney, T., Vernooij, B., Morse, A., Friedrich, L., Nye, G., Potter, S., Ward, E. and Ryals, J. (1993) Biological induction of systemic acquired resistance in *Arabidopsis*. **Molec. Plant Microbe Interact.** 6: 692-698. Journal Cover photo by TPD.

Pepper, A., Delaney, T.P. and Chory, J. (1993) Genetic interactions in plant photomorphogenesis. **Seminars in Develop. Biol.** 4: 15-22.

*Delaney, T.P. and Cattolico, R.A. (1991) Sequence and secondary structure of chloroplast 16S ribosomal RNA from *Olisthodiscus luteus*, as inferred from the gene sequence. **Nucleic Acids Res.** 19: 6328.

*Delaney, T.P. and Cattolico, R.A. (1989) Chloroplast ribosomal DNA organization in the chromophytic alga *Olisthodiscus luteus*. **Current Genetics** 15: 221-229.

*Boczar, B., Delaney, T.P. and Cattolico, R.A. (1989) Gene for the ribulose-1,5-bisphosphate carboxylase small subunit protein of the marine chromophyte *Olisthodiscus luteus* is similar to that of a chemoautotrophic bacterium. **Proc. Natl. Acad. Sci. USA** 86: 4996-4999.

PATENTS

Ryals, J.A., Delaney, T.P. Friedrich, L.B., Weymann, K.B. Lawton, K.A., Ellis, D.M., Uknes, S.J., Jesse, T.P. and Vos, P. (2000) Gene encoding a protein involved in the signal transduction cascade leading to systemic acquired resistance in plants. Number 06091004.

Ryals, J.A., Uknes, S.J., Delaney, T.P., Ward, E. and Steiner, H. (1998) Method for breeding disease resistance into plants. Number 05792904.

Ryals, J., Delaney, T. Friedrich, L. B., Baldwin, K. B. Johnson, E. J. (Pending) Gene conferring disease resistance in plants and uses thereof. Filed Dec. 13, 1996, Number 60/033,177.