Curriculum Vitae October 2005

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EDUCATION

Ph.D. Molecular, Cellular and Developmental Biology
University of South Carolina, Department of Biological Sciences
1998-2003

B.S. in Agricultural Science/ Agricultural Biotechnology
University of Kentucky
1994-1998; *Cum laude* honors

HONORS & AWARDS

2004-current	National Institute of Health, Ruth L. Kirschstein Postdoctoral Fellowship
2004 and 2005	Whitehead Institute Director's Fellowship Allowance
2003	University of South Carolina, Dissertation Award
2002	University of South Carolina, Graduate School Travel Award
	International Union of Microbiological Societies Scholarship
	Gorden Belser Botany Fellowship
	Batson Outstanding Plant Biology Graduate Student Award
	Gerald Wilson Outstanding Graduate Student Award
2001	Gorden Belser Botany Fellowship
	Kathryn Hinnant-Johnson M.D. Award in Genetics
2000	Albert Krall Memorial Award
1999-2001	National Science Foundation Industry/Graduate Research Fellowship
1997-1998	University of Kentucky Undergraduate Research and Creativity Grant
	Howard Hughes Medical Institute research grant
	University of Kentucky, College of Agriculture Academic Scholarship
1996-1997	University of Kentucky, College of Agriculture Academic Scholarship
1995	University of Kentucky, President's List

PUBLICATIONS

Primary Author:

Gasciolli, V.*, **Mallory, A.C.***, Bartel, D.P. and Vaucheret, H. (2005) Partially redundant functions of Arabidopsis DICER-LIKE enzymes and a role for DCL4 in producing trans-acting siRNAs. ***Current Biology*** 15, 1494-1500. *These authors contributed equally

Mallory, A.C., Bartel, D.P. and Bartel B. (2005) MicroRNA-directed regulation of *AUXIN RESPONSE FACTOR 17* is essential for early auxin response gene expression and development in Arabidopsis. ***Plant Cell*** 5, 1360-1375.

Mallory, A.C.*, Reinhart, B.J.*, Jones-Rhoades, M., Tang, G., Zamore, P.D., Barton, M.K. and Bartel, D.P. (2004) MicroRNA control of *PHABULOSA* in leaf development: importance of pairing to the microRNA 5' region. ***EMBO Journal*** 23, 3356-3364. *These authors contributed equally

Mallory, A.C.*, Dugas, D.V.*, Bartel, D.P. and Bartel B. (2004) MicroRNA regulation of NAC-domain targets is required for proper formation and separation of adjacent embryonic, vegetative and floral organs. ***Current Biology*** 14, 1035-1046. * These authors contributed equally

Mallory, A.C. and Vaucheret, H. (2004) MicroRNAs: something important coming from between the genes. ***Current Opinions in Plant Biology*** 7, 120-125.

Mallory, A.C., Mlotshwa, S., Bowman, L.H. and Vance, V.B. (2003) The capacity of transgenic tobacco to send a systemic RNA silencing signal depends on the nature of the inducing transgene. ***Plant Journal*** 35, 82-92.

Mallory, A.C., Reinhart, B.J., Bartel, D., Vance, V.B. and Bowman, L.H. (2002) A viral suppressor of RNA silencing differentially regulates the accumulation of short interfering RNAs and micro-RNAs in tobacco. ***Proc. Natl. Acad. Sci.*** USA 12, 15228-15233.

Mallory, A.C., Parks, G., Endres, M.W., Baulcombe, D., Bowman, L.H., Pruss, G.J. and Vance, V.B. (2002) The amplicon-plus system for high-level expression of transgenes in plants. ***Nature Biotechnology*** 20, 622-625.

Mallory, A.C., Ely, L., Smith, T.H., Marathe, R., Anandalakshmi, R., Fagard, M., Vaucheret, H., Pruss, G., Bowman, L. and Vance, V.B. (2001) HC-Pro suppression of transgene silencing eliminates the small RNAs but not transgene methylation or the mobile signal. ***Plant Cell*** 13, 571-583.

Contributing Author:

Vaucheret, H.V., **Mallory, A.C.**, Bartel, D.P. A posttranscriptional feedforward loop involving miR168 and ARGONAUTE1 maintains microRNA homeostasis. In preparation

Mlotshwa S., Schauer, S.E., Smith, T.H., **Mallory, A.C.**, Herr, J.M., Roth, B., Merchant, D.S., Ray, A., Bowman, L.H. and Vance, V.B. (2005) Ectopic *DICER-LIKE1* expression in P1/HC-Pro Arabidopsis rescues phenotypic anomalies but not defects in microRNA and silencing pathways. ***Plant Cell*** Oct 7; [Epub ahead of print] PMID: 16214897.

Vazquez, F., Vaucheret, H., Rajogopalan, R., Lepers, C., Gasciolli, V., **Mallory, A.C.**, Hilbert, j-L., Bartel, D.P. and Crété, P. (2004) Endogenous *trans*-acting siRNAs regulate the accumulation of Arabidopsis mRNAs. ***Molecular Cell*** 16, 69-79.

Anandalakshmi, R., Marathe, R., Xin, G., Herr, J.M., Mau C., **Mallory, A.**, Pruss, G., Bowman, L. and Vance, V.B. (2000) A calmodulin-related protein suppresses posttranscriptional gene silencing in plants. ***Science*** 290, 142-144.

Anandalakshmi, R., Pruss, G.J., Xin G., Marathe, R., **Mallory, A.C.**, Smith, T.H. and Vance, V.B. (1998) A viral suppressor of gene silencing in plants. ***Proc. Natl. Acad. Sci.*** USA 95, 13079-13084.

Wilkinson, H.H., Siegel, M.R., Blankenship, J.D., **Mallory, A.C.**, Bush, L.P. and Schardl, C.L. (2000) Contribution of fungal loline alkaloids to protection from aphids in a grass-endophyte mutualism. ***Molecular Plant Microbe Interactions*** 13, 1027-1033.

SCIENTIFIC MEETING ORAL PRESENTATIONS

Mallory, A.C., Bartel B. and Bartel D.P. MicroRNA regulation of plant development. 5th Biennial Meeting on Post-Transcriptional Regulation of Plant Gene Expression, Austin, Texas, June 2005.

Mallory, A.C., Parks G., Endres M., Bowman L. and Vance V.B. The amplicon-plus system for high-level expression of transgenes in plants. International Union of Microbiological Societies World Congresses, XIIth International Congress of Virology, Paris, France, July 2002.

Mallory, A.C., Bowman L. and Vance V.B. HC-Pro interferes with RNA silencing and prevents the accumulation of a subset of small RNAs. Southeastern Regional Virology Meeting, Atlanta, Georgia, April 2002.

Mallory, A.C., Roth B., Smith T.H. and Vance V.B. RNA silencing in plants. American Phytopathological Society Annual Meeting, Salt Lake City, Utah, August 2001.

Mallory, A.C. and Vance V.B. Investigating the role of small RNAs in RNA silencing. 20th Annual Meeting of the American Society for Virology. Madison, Wisconsin, July 2001.

Mallory, A.C., Ely L. and Vance V.B. A viral suppressor of post transcriptional gene silencing functions downstream of transgene methylation and the mobile silencing signal. Southern Division Meeting of American Phytopathological Society, Gainesville, Florida, March 2000.

Mallory, A.C., Wilkinson H.H. and Schardl C.L. Genetics of a bioprotective alkaloid biosynthesis in grass-endophyte symbioses. Kentucky Academy of Science. Moorehead, Kentucky, November 1997 (oral presentation).

ORGANIZATION MEMBERSHIP

American Association for the Advancement of Science (AAAS)

TEACHING EXPERIENCE

2001. Department of Biological Sciences, University of South Carolina, Animal Physiology Lab instructor (BIOL 460L). Lectured weekly on advanced topics in animal physiology. Designed lectures, quizzes and exams.

1998. Department of Biological Sciences, University of South Carolina, Biology Principles II Lab instructor (BIOL 102L). Lectured weekly on introductory biology topics including basic plant and animal biology, microbiology and taxonomy. Designed all lectures, quizzes and exams.

RESEARCH EXPERIENCE

Postdoctoral Fellow, Whitehead Institute for Biomedical Research, Laboratory of David Bartel, January 2003-current. Researching microRNA-directed regulation in the model system *Arabidopsis thaliana.*

Graduate Research Assistant, University of South Carolina, Department of Biological Sciences, Laboratory of Vicki Vance, August 1998-December 2002. Investigated viral suppression of RNA silencing in the model system *Nicotiana tabacum.*

Undergraduate Research, University of Kentucky, Department of Plant Pathology, Laboratory of Christopher Schardl, 1997-1998. Researched the genetics of loline alkaloid biosynthesis in grass-endophyte symbioses.

REFERENCES

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