

Curriculum Vitae for Phyllis M. Berman

- Current Position:** **Research and Administrative Associate**
- Work Address:** Department of Plant, Soil & Insect Sciences
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- Home Address:** 60 North Plain Road
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- Education:** **At The University of Massachusetts at Amherst:**
- 1979 - 1981:** **Master of Science** in Microbiology
- 1969 - 1973:** **Bachelor of Science** in Public Health (Medical Technology)
- Professional Experience:** **Employment at The University of Massachusetts at Amherst:**
- 7/00 - Present:** **Research & Administrative Associate** with the Department of Plant, Soil & Insect Sciences (with Plant & Soil Sciences from 7/00 until merger with Entomology in 7/04)
- 7/96 - 7/00:** **Research & Administrative Associate** with the Department of Microbiology (merger with Plant Pathology 7/96)
All prior employment was with **Dr. M. S. Mount**, former Department Head of Plant Pathology, and listed as follows:
- 6/81 - 7/96:** **Research Associate;** Genetics and physiology of phytopathogenic bacteria and fungi, and biological control of plant diseases.
Administrative Assistant to the Department Head as well.
- 6/79 - 6/81:** **Senior Technical Assistant;** The genetics and physiology of *Erwinia carotovora* cell wall degrading enzymes.
- 6/76 - 6/79:** **Research Assistant;** The role of cyclic nucleotides in the regulation and synthesis of *Erwinia carotovora* pectic enzymes.
- 6/73 - 6/76:** **Laboratory Technician;** RNA polymerases of *Agrobacterium tumefaciens* and their role in crown gall disease.

Committees & Services: Plant, Soil & Insect Sciences Web committee Chair, 2005-2006
Departmental Safety Coordinator, 1981-present
Departmental Building Coordinator 1981-present
Departmental Web Manager 2002-present
Departmental Space Manager, 2004-present
Massachusetts Region I Science Fair Judge, 2003 & 2004
UMass Chemical Environmental Management System Expansion
Review Committee, 2003
UMass Microbiology Alumni Advisory Board Member, 1999-2000
UMass Continuous Quality Improvement Committee Member for
Campus Emergency Notification, 1996-1997

Awards & Recognitions: Received a **Chancellor's Citation Award** as an outstanding
UMass employee on May 17, 2002
Recognized as an **Outstanding Laboratory Safety Coordinator**
At UMass on June 1, 2000

Professional Societies: The American Society for Microbiology
The International Society for Plant-Microbe Interactions

Professional Skills:

Research: Field and laboratory experimental design
Protein and nucleic acid isolation and purification
Microbiological techniques
Genetic engineering techniques
Plant and animal tissue culture and ELISA
Other chemical and biological laboratory procedures
Prepare research manuscripts, grants, posters, progress reports, etc.
Present research papers and posters at professional society meetings
Instruct students and staff in laboratory procedures

Administrative:

Computer:

- Knowledge of several software & Internet packages
- Supervised Departmental implementation of campus-wide administrative software "PeopleSoft"
- Instruct personnel in computer usage and in the preparation of seminars, publications, and other presentations
- Purchase and install new Departmental computer equipment

Website Coordinator and design contributor at:

<http://www.umass.edu/psis>

Professional Skills: (continued)

Building Coordinator/Facilities Operation

Manager:

- Coordinate with UMass Physical Plant for facilities maintenance, repairs, renovations, emergencies, etc.
- Assist with Departmental space management
- Office and laboratory design
- Past Telecommunications Representative and Coordinator for Department

Safety Coordinator:

- Coordinate Departmental Safety Program with UMass Environmental Health & Safety to comply with all Federal, State, and University safety regulations
- Coordinate online safety training for Department personnel and class students (developed instructional materials with UMass Office of Informational Technology)
- Attend campus Safety Coordinator's meetings and distribute pertinent information to the Department

Departmental Research and Administrative Associate:

- Administrative Associate for the Department Head
- Interview, hire, and supervise various support personnel
- Direct the purchasing of major laboratory equipment, some office equipment, and computers
- Coordinate maintenance and repair of equipment
- Have assisted with class scheduling
- Prepare several departmental administrative documents, communications, reports, etc.

Editorial Assistant

Publications and Abstracts:

Tattar, T. A., **P. M. Berman**, E. Y. Gonzalez, M. S. Mount, and A. L. Dolloff. 1996. Biocontrol of the Chestnut Blight Fungus *Cryphonectria parasitica*. *Aboricultural Journal* 20:449-469.

Gonzalez, E. Y., M. S. Mount, **P. M. Berman**, and T. A. Tattar. 1995. Evaluation of a *Trichoderma* sp. as a Potential Biological Control Agent for Chestnut Blight. *Phytopathology* 85:1191 (Abstr.).

Mount, M. S., and **P. M. Berman**. 1994. Genetic Manipulation of Plants to Improve Postharvest Disease Resistance. *Hortscience* 29:762-768.

Lee, J. K., T. A. Tattar, **P. M. Berman**, and M. S. Mount. 1992. A Rapid Method for Testing the Virulence of *Cryphonectria parasitica* Using Excised Bark and Wood of American Chestnut. *Phytopathology* 82:1454-1456.

Lee, J. K., T.A. Tattar, **P. M. Berman**, and M. S. Mount. 1992. Curing Effect of Glucose and Cyclic Nucleotides on Hypovirulent Strains of The Chestnut Blight Fungus, *Cryphonectria parasitica* (Murr.) Barr. *Asian Mycological Symposium*, Seoul, Korea (Abstr.).

Lee, J. K., T. A. Tattar, **P. M. Berman**, and M. S. Mount. 1992. A Rapid Method for Evaluating the Virulence of *Cryphonectria parasitica* strains. The International Chestnut Conference, Morgantown, West Virginia (Abstr.).

Lee, J. K., T. A. Tattar, **P. M. Berman**, and M. S. Mount. 1991. Comparison of *Cryphonectria parasitica* Strains from Massachusetts in Cultural Characteristics, Pathogenicity, and Phenol Oxidase Activity. *Phytopathology* 81:1206-1207 (Abstr.).

Lee, J. K., T. A. Tattar, P. M. Berman, and M. S. Mount. 1991. Vegetative Compatibility and Hypovirulence Conversion of *Cryphonectria parasitica* on American Chestnut Trees in Massachusetts. *Phytopathology* 81:1206 (Abstr.).

George, H. L., M. S. Mount and P. M. Berman. 1991. Cellular Localization and Characterization of Pectic Enzymes of *Erwinia carotovora* subsp. *atroseptica*. *Phytopathology* 81:134-139.

Mount, M. S. and P. M. Berman. 1988. Biotechnology and Disease Control: Helping Nature to Help Itself. *Innovations in Pest Management*, pg 39-43. Conference March 1988. Proceedings published by the Massachusetts Department of Food and Agriculture.

Smith, F. D., P. M. Berman and M. S. Mount. 1987. Characteristics of an Extracellular Protease from *Erwinia carotovora* subsp. *carotovora* Strain EC14. *Phytopathology* 77:122 (Abstr.).

Publications and Abstracts: (Continued)

George, H. L., M. S. Mount, and P. M. Berman. 1987. Isolation and Characterization of Pectolytic Enzymes from *Erwinia carotovora* subsp. *atroseptica*. *Phytopathology* 77:119 (Abstr.).

Berman, P. M., M. S. Mount, and G. H. Lacy. 1987. Electrotransformation of *Erwinia carotovora* subs. *carotovora*. *In: On the Genus Erwinia* (Ed. C. Kado). Fallen Leaf Lake, Univ. of Calif. at Davis, p22 (Abstr.).

George, H. L., M.S. Mount, and P. M. Berman. 1987. Characterization of Pectic Enzymes from *Erwinia carotovora* subs. *atroseptica*. *In: On the Genus Erwinia* (Ed. C. Kado). Fallen Leaf Lake, Univ. of Calif. at Davis, p23 (Abstr.).

Roberts, D. P., P. M. Berman, G. H. Lacy, and M. S. Mount. 1987. Molecular cloning of Two *Erwinia carotovora* subsp. *carotovora* DNA Fragments Which Mediate the Production of Similar Pectate Lyases. *In: Plant Pathogenic Bacteria* (Eds. E. L. Civerolo, A. Collmer, R. E. Davis, and A. Gillaspie). Martinus Nijhoff Publishers, Boston, MA, p249.

Roberts, D. P., P. M. Berman, C. Allen, G. H. Lacy, and M. S. Mount. 1986. Two or More *Erwinia carotovora* subsp. *carotovora* Pectolytic Gene Products are Required for Maceration of Potato Tuber Tissue by *Escherichia coli*. *J. Bacteriol.* 167:279-284.

Roberts, D. P., P. M. Berman, C. Allen, V. K. Stromberg, G. H. Lacy and M. S. Mount. 1986. Organization of Pathogenic Determinants on the *Erwinia carotovora* Genome: A 3.4 Kilobase DNA Fragment Mediating Production of Endo-pectate Lyase. *Can. J. Plant Pathol.* 5:17-27.

Smith, F. D., P. M. Berman, M. S. Mount, and T. M. Masuck. 1986. Expression of Cloned *Erwinia carotovora* pv. *carotovora* Pectolytic Enzyme Genes in *Escherichia coli* and *Erwinia herbicola*. *Phytopathology* 76:659 (Abstr.).

Roberts, D. P., P. M. Berman, G. H. Lacy, and M. S. Mount. 1985. Molecular Cloning of Two *Erwinia carotovora* subsp. *carotovora* DNA Fragments which Mediate the Production of Similar Pectate Lyases. *Proc. 6th Int. Conf. Plant Pathol. Bact.*, College Park, MD, 2-7 June 1985.

Mount, M. S., P. M. Berman, D. P. Roberts, C. Allen, V. K. Stromberg, G. H. Lacy, and L. C. Duby. 1984. Pectolytic Activity of *Escherichia coli* Clones Harboring Hybrid pBR322 Plasmids with *Erwinia carotovora* subsp. *carotovora* Chromosomal DNA Inserts. *Proc. EMBO Workshop on Soft Rot Erwiniae*, Marseille, Luminy, France. 23-27 July (Abstr.).

Publications and Abstracts: (Continued)

Allen, C., D. P. Roberts, M. Ford, V. K. Stromberg, P. M. Berman, G. H. Lacy, and M. S. Mount. 1984. Lack of Pathogenicity by *Escherichia coli* Containing Plasmids with Genes Mediating Pectolytic Enzyme Production Cloned from *Erwinia carotovora* subsp. *carotovora* Strain EC14. *Phytopathology* 74:816 (Abst).

Roberts, D. P., P. M. Berman, G. H. Lacy, M. S. Mount, and C. Allen. 1984. *Erwinia carotovora* subsp. *carotovora* DNA Encoding Pectate Lyases Cloned into Plasmid pBR322. *Phytopathology* 74:797 (Abstr.).

Berman, P. M., M. S. Mount, and G. H. Lacy. 1983. Insertion of Antibiotic-resistant Plasmids into *Erwinia carotovora*. *Phytopathology* 73:1342 (Abstr.).

Collmer, A., P. M. Berman, and M. S. Mount. 1982. Pectate Lyase Regulation and Bacterial Soft-rot Pathogenesis, Ch. 16, pp. 395-422. *In* *Phytopathogenic Prokaryotes*, Vol. I. M. S. Mount and G. H. Lacy, ed., Academic Press, N. Y.

Stack, J. P., M. S. Mount, P. M. Berman, and J. P. Hubbard. 1980. Pectic Enzyme Complex from *Erwinia carotovora*; A Model for Degradation and Assimilation of Host Pectic Fractions. *Phytopathology* 70:267-272.

Mount, M. S., P. M. Berman, R. P. Mortlock, and J. P. Hubbard. 1979. Regulation of Endopolygalacturonate Transeliminase in an Adenosine 3', 5'-Cyclic Monophosphate-deficient Mutant of *Erwinia carotovora*. *Phytopathology* 69:117-120.

References:

Dr. Mark S. Mount

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