

CURRICULUM VITAE

NAME: **PATTI KAY HAVSTAD, Master of Science**

TITLE: Ag Research Scientist, Sr., Dept of Entomology, Plant Pathology and Weed Science
Program Manager, Southwest Consortium on Plant Genetics and Water Resources

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EDUCATION: 1976 B.S. in General Sciences (Biology) Oregon State University
1987 M.S. in Biological Sciences (Immuno-parasitology) Montana State University

RESEARCH AND PROFESSIONAL EXPERIENCE:

- 1990 – present** New Mexico State University (NMSU) Dept Entomology, Plant Pathology and Weed Science.
Position: Research and Administration. Molecular biology, microbiology, and plant research, green house and laboratory management, maintenance of program grants, supervisory.
- 1992 - 2010** Southwest Consortium on Plant Genetics and Water Resources (SWC)
Position: Program Manager. Administration of USDA- funded program (SWC) involving the distribution of research support to scientists at 5 participating southwestern institutions – New Mexico State Univ., Univ. of Arizona, Univ. of California, Riverside, Texas Tech University, Los Alamos National Laboratory. Involves technical writing for grants, Congressional testimony, and USDA reports; producing annual Symposium; interaction with scientific peer reviewers; comprehension of research projects funded by the SWC program, performing program related communications and records keeping
- 2010 - 2011** Position: 20% Biosafety Specialist, acting as Interim Biosafety Officer for NMSU in addition to 100 % appt in EPPWS. Position associated with Office of Compliance, Research.
- 2002 – 2003** 75% Environmental Health & Safety, NMSU
Split appointment (Nov – June)
Position: Biosafety Specialist. Development of Principal Investigator application form for recombinant DNA research at NMSU, coordinated and participated in Institutional Biosafety Committee (IBC) meetings, initiated development of Biosafety manual for NMSU, conducted laboratory surveys for compliance, initiated record-keeping system for university labs with biosafety component, attended biosafety training.
- 25% Entomology, Plant Pathology and Weed Science, NMSU
Position: Program Manager for the Southwest Consortium on Plant Genetics and Water Resources (see description Program Manager above)
- 1993 – 2003** Institutional Biosafety Committee (IBC), NMSU
Position: Coordinator, ex-officio committee member, responsibilities assumed as part of PGEL administrative duties
- 1990-2002** Gene Lab/Plant Genetic Engineering Laboratory (PGEL), NMSU
Position: Administrative Manager/Research Specialist (see description of job duties above)
- 1989-1990** Biology Department, NMSU
Position: Research Technician I. Molecular biology, microbiology and plant tissue culture
- 1987-1989** Montana State University, Veterinary Research Laboratory. Bozeman, MT
Position: Research Specialist I, Lab Manager. Molecular biology, microbiology and animal tissue culture
- 1985-1987** Montana State University, Biology Dept. Bozeman, MT
Position: Research and Teaching Assistant. Graduate Student. Animal immune response (research); Human anatomy, animal histology, parasitology (teaching)
- 1980** Utah Water Research Lab, Utah State University, Logan, UT
Position: Laboratory Technician. Chemical and biological water analyses.

HONORS AND RECOGNITION:

- 1985 - 1987** Graduate Student Fellowship Award, Minority Biomedical Research Support (MBRS).
(Native American research support program, sponsored at Montana State University)
- 1995 – 2012** Member, Sigma Xi, National Research Honor Society

SCIENTIFIC SOCIETIES:

American Society of Plant Biologists
Society for In Vitro Biology
American Phytopathology Society

UNIVERSITY SERVICE (NMSU):

University Safety Council
Skeen Greenhouse Use Committee
Dean's Award Committee, College of Agriculture, Consumer, and Environmental Sciences
Staff Representative at Faculty Meetings for the Dept of Entomology, Plant Pathology, and Weed Science
Building Monitor and Safety Officer for Skeen Hall
Campus Planning Committee

COMMUNITY SERVICE:

Board Member, Mesilla Valley Balloon Rally 1995-2010
Board Member, Las Cruces Community Theatre 2000 - 2005
Member, Mesilla Valley CowBelles 1993 – 2010
Board Member, Project in Motion 2008-2012

PUBLICATIONS:

- Havstad, P.K. (1987) Delayed rejection of *Hymenolipis diminuta* from mast cell deficient W/W^v mice. Master's Thesis. Montana State University.
- Sutton, D.W., P.K. Havstad and J.D. Kemp (1992). Synthetic *cryIIIa* gene from *Bacillus thuringiensis* improved for high expression in plants. *Transgenic Research*. 1:228-236.
- Sutton, D., P. Havstad, J.D. Kemp. (1995). Rapid gene synthesis using ampligase® thermostatic DNA ligase. *In: Epicentre Forum*, Vol. 2, No. 2. Mar./Apr. 1995.

ABSTRACTS:

- Sutton, D.W., P.K. Havstad, S. Bagga and J.D. Kemp. (1991) Synthetic Bt gene improved for high expression in plants. Third International Congress of Plant Molecular Biology. Tucson, AZ, October 6-12.
- Havstad, P.K., D.W. Sutton, S. Thomas, C. Sengupta-Gopalan and J.D. Kemp. (1991) Collagenase expression in transgenic plants: An alternative to nematicides. Third International Congress of Plant Molecular Biology. Tucson, AZ, October 6-12.
- Sutton, D.W., P.K. Havstad and J.D. Kemp. (1992) Synthetic Bt gene improved for high expression in plants. The First Pacific Rim Food and Agricultural Biotechnology Conference. Sacramento, CA, June 20-24.
- Sutton, D.W., P.K. Havstad and J.D. Kemp. (1992) Synthetic Bt gene improved for high expression in plants. The Sixth International Symposium on Molecular Plant-Microbe Interactions. Seattle, WA, July 11-16.
- Sutton, F. P. Havstad, J.D. Kemp. (1993) Synthetic B.t. gene improved for high expression in plants. Sixth Annual Meeting of the International Program on Rice Biotechnology, Chiang Mae, Thailand. January 30-Feb 7.
- Sutton, D. J. Randall, J. Gilroy, P. Havstad and J.D. Kemp. (1996) Insecticidal properties of a hybrid *Bacillus thuringiensis* insecticidal crystal protein, *cryIIIAB2*. ASPP Annual Meeting. San Antonio, TX, July 27-31.
- Havstad, P., A. Larson, J. Randall, J. Gilroy, L. Higgins, D. Sutton, and J.D. Kemp. (1996) Oryzacystatin expression in transgenic plants: an alternative to nematicides. Third International Nematology Congress. Gosier, Guadeloupe, Antilles, French West Indies. July 7-12.
- Sutton, D., S. Bagga, N. Klypina, C. Owen, P. Havstad, J. Randall and J. Kemp. (1996) Efficacy of a synthetic *Bacillus thuringiensis* gene in protecting potatoes in the field. Eleventh Annual Southwest Consortium Symposium, Lubbock, TX, August 11, 1996.
- Klypina, N., J. Gilroy, P.K. Havstad, A. Larson, L. Kikuta-Oshima, V. Rajasekharan, J. Randall, D.W. Sutton, J.S. Womack, J.D. Kemp. 1998. A chimeric oryzacystatinI/*Bacillus thuringiensis* Cry 3A gene which is expressed at high levels in transgenic plants is highly toxic against Colorado potato beetle. Abst. #330. American Society of Plant Physiologists, June 27-July 1, 1998, p. 84.
- Randall, J., D. Sutton, P.Havstad, J.Kemp (2001) Mutations in Domain I of Cry 3A. Annual Meeting of the American Society of Plant Biologists. Providence, R.I., July 21-25.