

Dr. Bryan Wayne Penning

Resume, page two

Education

1997–2003 University of Missouri Columbia Columbia, MO

- Ph.D. from the Genetics Area Program.
- Home department: Plant Microbiology and Pathology.

1995–1997 University of Detroit Mercy Detroit, MI

- No degree, left to pursue Ph.D.
- Home department: Biology.

1989–1995 University of Missouri Rolla Rolla, MO

- B.S. in Chemical Engineering.
- B.S. in Life Sciences.

Notable Achievements

- I found a major suppressor of a lesion mimic of maize by QTL analysis using SSR markers and have since been developing a near isogenic line between the severe expressing parent (Va35) and the suppression locus (*Slm1* from Mo20W) using markers to test my progress.
- I have worked to develop a PCR-based strategy to display *Mu* elements based on individual *Mu* element sequence differences to aid in cloning *Mu*-tagged alleles.
- I found that individual lesion mimics in maize respond differently to the Mo20W genetic background, some have greater lesion expression while others have lesser lesion expression.
- I have given several presentations and posters based upon my work, averaging two per year since 1997.
- As one of two teaching assistants for Plant Pathology 306 at the University of Missouri I was responsible for developing, testing, and implementing half of the experiments, quizzes, and lectures for the class.
- I spent four semesters as a teaching assistant for the University of Detroit Mercy Biology department whose primary goal was the training of nursing, pre-medical, and pre-dental students.
- At the University of Missouri Rolla I served several terms as an officer in Kappa Kappa Psi, a national honorary band service fraternity. Offices held: treasurer, corresponding secretary, recording secretary, and historian.

Recent Publications

Penning, B.W., Johal, G.S., McMullen, M.D. 2004. A major suppressor of cell death, *slm1*, modifies the expression of the maize (*Zea mays* L.) lesion mimic mutation *les23*. *Genome*. 47: 961-969.