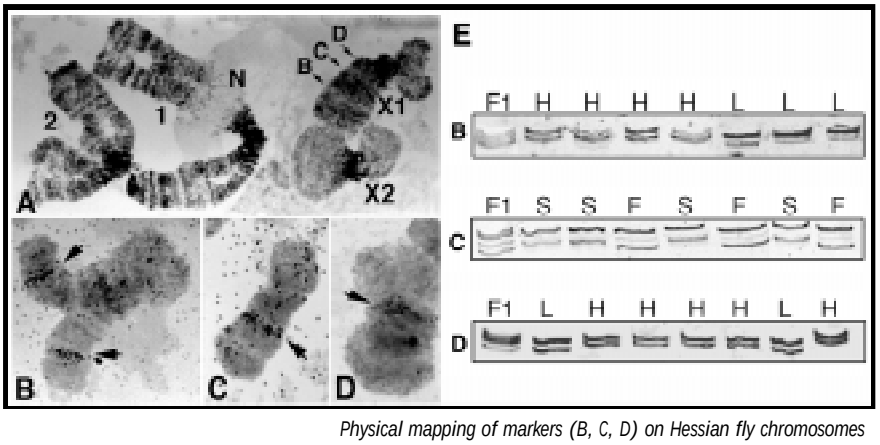
Meet an MPRINT Scientist

Jeff Stuart

Jeff graduated from Washburn University in Topeka, Kansas (1978) with a major in Biology. After loading and unloading trucks for United Parcel Service, he left Topeka for Kansas State University, where he obtained both M.S. and Ph.D. degrees in Entomology, with specialization in host plant resistance and insect genetics.

He pursued developmental genetics and molecular biology of the red flour beetle (Stuart et al. 1991) at KSU as a postdoc in the laboratories of Dr. Richard Beeman and Dr. Rob Denell before coming to Purdue in 1990. He continues to collaborate with Dr. Beeman, Dr. Denell, and Dr. Susan Brown (also at KSU). Other collaborations have involved the study of insecticide resistance in the coffee berry borer (Brun et al. 1995) and *Tribolium* with the University of Wisconsin's Dr. Richard ffrench-Constant. Jeff's current research interests center on the genetic adaptations of insects to plant resistance. His particular interest is genetic interaction between the Hessian fly and its host plant wheat (Stuart et al. 1998).



Physical mapping of markers (B, C, D) on Hessian fly chromosomes

Some MPRINT Science

Stuart, J. J., S. J. Schulte, P. S. Hall, and K. M. Mayer. (1998) Genetic mapping of Hessian fly avirulence gene *vH6* using bulked segregant analysis. Genome 41**:** 702-708.

Brun, L. O., J. J. Stuart, V. Gaudichon, K. Aronsein, C. Coustau, P. Borsa, and R. H. ffrench-Constant. (1995) Functional haplodiploidy: a novel mechanism for the spread of insecticide resistance in an important international insect pest. Proc. Natl. Acad. Sci. 92: 9861-9865.

Stuart, J. J., S. J. Brown, R. W. Beeman, and R. E. Denell. (1991) A deficiency of the Homeotic Complex of the beetle *Tribolium castaneum*. Nature 370: 72-74.

Personal MPRINT

Jeff is a serious competitor in basketball and also enjoys working out of doors and remodeling his house. He is currently learning Spanish.