



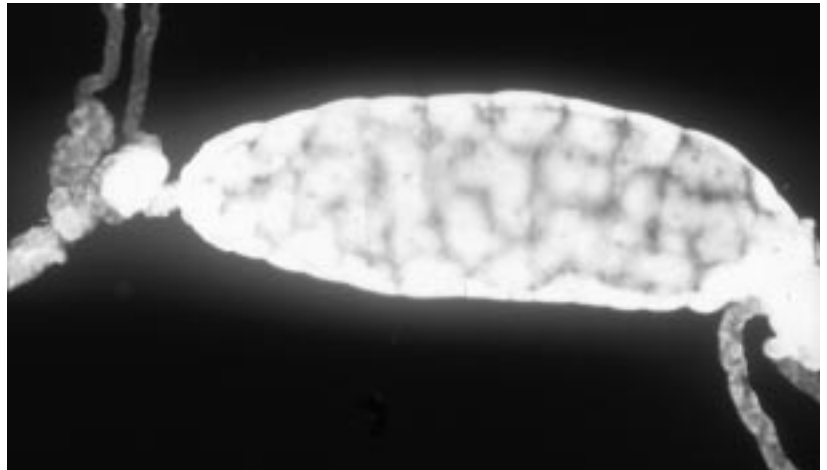
Meet an MPRINT Scientist



Richard Shukle

Richard is a graduate of California State University, Sacramento (B.A. in Biology), and the University of California, Davis (Ph.D. in Entomology). He came to Purdue University as a post-doctoral research associate in the Department of Entomology in 1980 and subsequently became a Research Entomologist for the USDA (at Purdue) in 1982. His research interest is the molecular biology of insect/plant interactions, with a major effort directed toward enhancing genetic resistance for control of Hessian fly in wheat.

Two primary research objectives in this effort are 1) characterizing regions of the insect's genome involved in interaction with resistance genes in wheat and 2) developing transformation/gene expression systems for the insect. These will enable both the evaluation of cloned avirulence alleles and the use of genetic control strategies for populations of the insect. These efforts are supported by the USDA-ARS. Collaborations to carry out these objectives involve interactions with colleagues developing transposon and viral transformation vectors at other institutions and with members of the MPRINT group at Purdue.



The alimentary tract of a Hessian fly larva

Some MPRINT Science

Zantoko, L. and R. H. Shukle. (1999) An STS linked to a Hessian fly locus controlling virulence to resistance gene H13 in wheat. *J. Hered.* 90:42-47.

Zantoko, L. and R. H. Shukle. (1997) Genetics of virulence in the Hessian fly to resistance gene H13 in wheat. *J. Hered.* 88:120-124.

Russell, V. W. and R. H. Shukle. (1997) Molecular and cytological analysis of a mariner transposon from Hessian fly. *J. Hered.* 88:72-76.

Personal MPRINT

Richard's recreational interests include various outdoor activities, such as backpacking and growing garden and tree peonies. His favorite authors include Tony Hillerman, Samuel Langhorne Clemens, and Joseph Conrad. His favorite artists are Vincent Van Gogh and Ansel Adams.