



## THE BIOLOGY OF FUNGAL PATHOGENS Vol. 1: Fungal Pathogens and Diseases of Cereals (1)

Edited by Dr. Joseph-Alexander Verreet and Dr. Holger Klink,  
Department of Plant Pathology, Christian-Albrechts University Kiel

Video Production and 3D Animation:  
STUMM-FILM Dr. Rolf Stumm Medien GmbH, Ludwigsburg, Germany

2002; DVD; running time: approx. 28 min.  
ISBN:978-0-89054-292-7

APS PRESS: [www.apsnet.org/apsstore/shopapspress/Pages/42929.aspx](http://www.apsnet.org/apsstore/shopapspress/Pages/42929.aspx)

The video series *The Biology of Fungal Pathogens* combines three-dimensional computer animation with photography to present the life cycles of various fungal pathogens. Covering Septoria Blotch of Wheat, Tan Spot of Wheat, Net Blotch of Barley, and Powdery Mildew, this use of modern visualization technology provides life-like images that leave the viewer with a lasting impression of biological and ecological aspects of host-pathogen interactions. Imparting images impossible to capture and present with conventional microscopy, *The Biology of Fungal Pathogens* is appealing to both the novice and the expert. Professors and their students in secondary, undergraduate, and post-graduate education as well as technical advisors and the growers they serve will marvel at the knowledge derived from this new form of presentation.

There are three videos in this first volume:

- 1.1 **Septoria Blotch of Wheat** (8:30 min)
- 1.2 **Tan Spot of Wheat and Net Blotch of Barley** (8:30 min)
- 1.3 **Powdery Mildew** (10:50 min)

### Reviews and Testimonials:

*"Due to the exquisite three-dimensional visualization technology used, the video series provides a fascinating insight at the microscopic level on the biology of fungal pathogens. A high scientific standard is guaranteed by the editors and contributing colleagues from agricultural university faculties."*  
--Journal of Phytopathology

*"These short videos are extremely useful because they seamlessly combine real life video with incredible animation to demonstrate spore dispersal (both water and air), sexual reproduction, and fruiting body formation. They clearly show students disease processes from the point of view of the pathogen and explain important management concepts. Even though they focus on cereal diseases, the basic information is applicable to any introductory plant pathology course. One of the best features is that they are quite short (8-10 min), so they can easily be incorporated into traditional class materials."*  
--Gail Schumann PhD, University of Massachusetts, Microbiology Department

*"The Biology of Fungal Pathogens was a timely release since I recently took over teaching an introductory plant pathology class. The computer simulation of inoculation, attachment, pathogen ingress was impressive and clearly helped the students in the class to understand the host-parasite interaction on the cellular level. The DVD will definitely be used in future classes."*  
--Wesley Chun PhD, University of Idaho, Plant Soil & Entomological Sciences Dept.

### Awards:

2002 COMENIUS Award  
INTERMEDIA GLOBE SILVER in "Documentaries: Research & Science", 2002 World Media Festival

