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Hermann H. Prell · Peter R. Day

# Plant-Fungal Pathogen Interaction

A Classical and Molecular View

With 15 Figures and 12 Tables



Springer

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## Preface

This book has been written for scientists and graduate students in plant pathology, biology, biochemistry, genetics and molecular genetics, for practitioners in plant protection and plant breeding, and for the interested layman. We have tried to produce a concise survey of the diversity of interactions between plants and phytopathogenic fungi. Our main objective has been to help the reader to comprehend the complexity of these interactions and the many different approaches used to analyse them. Some recent developments are also presented to demonstrate the close connections between plant pathology and basic research in biology.

Within the last 20 years many exhaustive reviews have been published, that deal with particular aspects of plant-pathogen interactions. However, it is difficult to obtain from them a coherent picture comprising all or most of their important features. Also the technical terms employed in the literature may be unfamiliar to many readers and definitions are often difficult to find. This book provides definitions, attempts to bring together the recent literature on host-parasite interactions, and discusses the range of experimental approaches that have been used to explore them.

We have relied fairly heavily on the review papers listed at the end of each chapter. More recent and particularly interesting results from original papers are also cited in the text and the references given at the ends of chapters under “relevant papers”. Since we wished to keep relevant references together at the end of each chapter some references are repeated in other chapters.

The first edition of this book appeared in German in the Fischer-Verlag. (Prell, Hermann, H.: *Interaktionen von Pflanzen und phytopathogenen Pilzen: Parasitierung, und Resistenz, Genetik und molekulare Phytopathologie*. – Jena; Stuttgart: G. Fischer, 1996). This English translation of the German book is a revised and updated version of the German publication. Translation and improvements of this second edition were prepared by both authors, H.P. and P.D.. Both appreciate the revision of the first English draft of H.P. carried out by the Springer-Verlag and the publisher's patience in waiting for the complete manuscript. – H.P. appreciates very much the support given by Dr. B. Koopmann, Inst. for Plant Pathology and Plant Protection, University Göttingen, for some literature searches and for assistance in delivering, receiving and converting emails, and the efforts by Mr. W. Eisenberg, M.A., Institute of

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Göttingen and New Brunswick,  
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Hermann H. Prell  
Peter R. Day

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