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# Advances in Microbial Toxin Research and its Biotechnological Exploitation

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Microbial toxins are secondary metabolites that accumulate in the organism and, to a large extent, are metabolically inactive towards the organism that produces them. The discovery of penicillin, a secondary metabolite of *Penicillium notatum* West (= *P. chrysogenum* Thom), in 1929 marked a milestone in the development of antibiotics (microbial toxins). In the intensive studies that followed this discovery, scientists chemically characterized several new molecules (toxins) from secondary metabolites of microbes, some having a definite function in causing pathogenesis in plants. Toxins are also known to play a significant role in inciting animal (human) and insect diseases and as plant growth regulators. Many common toxins have also been isolated from different microbes exhibiting a wide spectrum of biological activity. Toxins are broadly divisible into several characteristic groupings - polyketides, oxygen heterocyclic compounds, pyrons, terpenoids, amino acids - diketopiperazines, polypeptides etc. Recent research has indicated that these toxins play an important role in plant pathogenesis, disease epidemics, plant breeding, biological control of plant pathogens and insect pests, induced resistance, plant-pathogen interactions etc. Toxins produced by weed pathogens are exploited as lead molecules in developing environmentally friendly herbicides.

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By Joanne Duggan

This book contains a number of relatively specialized chapters concerned with microbial toxins. The book will be of particular use to courses in applied aspects of the subjects as there is a wealth of information on the use of low-molecular-weight toxins in biological control processes. Although some of the chapters are relatively specialized in the interactions they describe, the book as a whole provides a good overview of the current status of action and use of these agents.

Reviewed by Tim Mitchell, University of Glasgow, UK

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Review from Plant Pathology (2003) 52, 114-117

By A Customer

"There is a good index... The book covers a wide range of subjects, including toxin chemistry, biochemistry, microbial and plant genetics and plant pathology. There is not enough space to write about all of the chapters, but having been through them all, they all look very good."

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