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fungal morphogenesis brings together for the first time the full scope of fungal developmental biology

infectious fungal diseases continue to take their toll in terms of human suffering and enormous economic losses
invasive infections by opportunistic fungal pathogens are a major cause of morbidity and mortality in immuno compromised individuals
at the same time plant pathogenic fungi have devastating effects on crop production and human health
new strategies for antifungal control are required to meet the challenges posed by these agents and such approaches can only be developed through the identification of novel biochemical and molecular targets
however in contrast to bacterial pathogens fungi display a wealth of lifestyles and modes of infection this diversity makes it extremely

difficult to identify individual evolutionarily conserved virulence determinants and represents a major stumbling block in the search for common antifungal targets in order to activate the infection programme all fungal pathogens must undergo appropriate developmental transitions that involve cellular differentiation and the introduction of a new morphogenetic programme how growth cell cycle progression and morphogenesis are co ordinatedly regulated during development has been an active area of research in fungal model systems such as budding and fission yeast by contrast we have only limited knowledge of how these developmental processes shape fungal pathogenicity or of the role of the cell cycle and morphogenesis regulators as true virulence factors this book combines state of the art expertise from diverse pathogen model systems to update our current understanding of the regulation of fungal morphogenesis as a key determinant of pathogenicity in fungi

account of the developmental biology of fungi

this text gives an overview of the fundamental aspects of molecular fungal development in one comprehensive volume highlighting different elements in the maturational and reproductive cycles of selected fungal taxa

contents 1

a unique account of life s evolution using the most recent research and weaving evolution of fungi into evolution of eukaryotes

morphogenesis is the set of processes that generate shape and form in the embryo an important area within developmental biology an exciting and up to the minute account of the very latest research into the factors that create biological form mechanisms of morphogenesis second edition is a text reference on the mechanisms of cell and tissue morphogenesis in a diverse array of organisms including prokaryotes animals plants and fungi by combining hard data with computer modeling mechanisms of morphogenesis second edition equips readers with a much broader understanding of the scope of modern research than is otherwise available the book focuses on the ways in which the genetic program is translated to generate cell shape to direct cell migration and to produce the shape form and rates of growth of the various tissues each topic is illustrated with experimental data from real systems with particular reference to gaps in current knowledge and pointers to future includes over 200 four color figures offers an integrated view of theoretical developmental biology and computer modelling with laboratory based discoveries covers experimental techniques as a guide to the reader organized around principles and mechanisms using them to integrate discoveries from a range of organisms and systems

introduction control of development by the incompatibility system im basidiomycetes genetic structure of incompatibility factors the abc of sex studies on meiosis and recombination in basidiomycetes evolution of incompatibility incompatibility factors and the control of biochemical processes morphogenetic processes in schizophyllum and coprinus regulation of fruiting index

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