



Genes and genomics

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Monografía

This latest volume addresses the contemporary issues related to recombination in filamentous fungi, EST data mining, fungal intervening sequences, gene silencing, DNA damage response in filamentous fungi, cfp genes of *Neurospora*, developmental gene sequences, site-specific recombination, heterologous gene expression, hybridization and microarray technology to enumerate biomass. This volume also analyse the current knowledge in the area of hydrophobins and genetic regulation of carotenoid biosynthesis. Over fifty world renowned scientist from both industry and academics provided in-depth information in the field of fungal genes and genomics

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Recombination in filamentous fungi -- EST data mining and applications in fungal genomics -- Fungal intervening sequences -- Gene silencing as a tool for the identification of gene function in fungi -- The DNA damage response of filamentous fungi: novel features associated with a multicellular lifestyle -- The cfp genes (cfp-1 and cfp-2) of *Neurospora crassa*: a tale of a bunch of filaments, one enzyme, and two genes -- A search for developmental gene sequences in the genomes of filamentous fungi -- Applications of fungal site-specific recombination as a tool in biotechnology and basic biology -- Heterologous gene expression in filamentous fungi: a holistic view -- Expression and engineering of fungal hydrophobins -- Genetic regulation of carotenoid biosynthesis in fungi -- Combination of suppression subtractive hybridization and microarray technologies to enumerate biomass-induced genes in the cellulolytic fungus *Trichoderma reesei* -- Genomics of some human dimorphic fungus -- *Phanerochaete chrysosporium* genomics -- Genetics of morphogenesis in basidiomycetes

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