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4.5. Filamentous Fungi-I - Medical
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Filamentous fungi can generate a wide range of industrial products including primary metabolites such as organic acids, secondary metabolites such as β -lactam antibiotics, nonantibiotic drugs, and enzymes for use in food production.

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Whole organisms such as mushrooms can be used as well as organisms used as insecticides and herbicides.

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The book highlights the unique aspects of filamentous fungi along with those aspects

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common to most microorganisms studied in industries that use biotechnology.

Filamentous fungi can generate a wide range of industrial products including primary metabolites such as organic acids, secondary metabolites such as β -lactam antibiotics, nonantibiotic drugs, and enzymes for use in food production.

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This book provides a comprehensive overview on biotechnological applications of unicellular and multicellular fungi in a variety of industrial branches. Targeted

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genetic and metabolic engineering of fungi allows production of native and transgenic enzymes and proteins in industrial scales.

Those most prominently find application in biorefineries for the production of value-added chemicals and biofuels, in the pharmaceutical industry as well as in biomedicine.

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New developments in the field of fungal technology include the increased use of filamentous fungi as a food source (mycoprotein), using fungi as biodegradable materials, in wastewater

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treatment, in integrated biorefineries and
as biological pest agents.

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Introduction. This book provides a
comprehensive overview on
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Filamentous and multicellular fungi in a variety of industrial branches. Targeted genetic and metabolic engineering of fungi allows production of native and transgenic enzymes and proteins in industrial scales. Those most prominently find application in biorefineries for the production of value-added chemicals and biofuels, in the

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pharmaceutical industry as well as in
biomedicine.

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Filamentous fungi are typically
saprophytic microorganisms which secrete
a wide array of enzymes involved in the

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decomposition and recycling of complex biopolymers from both plant and animal tissues. The majority of these enzymes are hydrolytic and play an important role in fungal nutrition, releasing carbon and nitrogen locked in insoluble macromolecules obtained from the metabolic activities ...

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Filamentous fungi grown under controlled conditions are an attractive source of chitin and chitosan where a high-quality product is required (e.g. for cosmetic, medical and pharmaceutical applications).

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~~Fungal Biotechnology~~ ~~fungus.org.uk~~

Aspergillus oryzae, also known as kōji mold (Japanese: 麹菌 (koji)),

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Hepburn: nihon kōji kabi), is a filamentous fungus (a mold) used in Japan to saccharify rice, sweet potato, and barley in the making of alcoholic beverages such as sake and shōchū, and also to ferment soybeans for making soy sauce and miso. However, in the production of fermented foods of ...

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Protein secretion pathway in filamentous fungi. The second step is protein folding and modification in ER, which requires the assistance of a series of molecular chaperones and folding enzymes, including calnexin (ClxA), BiP, and

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protein disulfide isomerase (PDI) (Saloheimo and Pakula, 2012).

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Filamentous fungi have several industrial, environmental, and medical applications. However, they are rarely utilized owing to

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the limited availability of full genome sequences and genetic manipulat...

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comprehensive introduction to fungal biotechnology covering fungi isolation and characterization, strain improvement, and fermentation scale-up, thus equipping the non-specialist with the principles needed to discover and develop new fungal products.

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Abstract. Cultivation processes involving filamentous fungi have been optimised for decades to obtain high product yields. Several bulk chemicals like citric acid and penicillin are produced this way. A simple adaptation of cultivation parameters for

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new production processes is not possible though.

~~Morphology and productivity of filamentous fungi ...~~

European companies such as AB Enzymes, BASF, Bayer, Chr. Hansen, DSM, DuPont, Novozymes, Puratos and

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Roal Oy are global leaders in using filamentous fungi as cell factories in white and red biotechnology.

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Filamentous fungi are typically saprophytic microorganisms which secrete

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a wide array of enzymes involved in the decomposition and recycling of complex biopolymers from both plant and animal tissues. The majority of these enzymes are hydrolytic and play an important role in fungal nutrition, releasing carbon and nitrogen locked in insoluble macromolecules obtained from the

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metabolic activities of other organisms.

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