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Chapters 3 and 4
highlight the

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degradative powers of filamentous fungi. First,

a discussion of what is known regarding the molecular genetics of

fungi and the genes and enzymes involved

in the beverage and food industries. This

has an oriental flavour, reflecting the

tremendous

importance of fungi in

traditional Chinese and

Japanese food ...

...

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**Genetics of
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Editors: Kinghorn, J. R.,
Turner, Geoffrey (Eds.)

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restrictions apply. ...

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J. R ...

Applied molecular genetics of filamentous fungi. The filamentous fungi are perhaps unique in the diversity of their metabolic activities. This includes biosynthetic as well as degradative activities, many is to provide an of which are of

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industrial interest. The objective of this text up-to-date and broad review which

emphasizes the genetic and molecular biological contribution in the field of fungal biotechnology.

Applied molecular genetics of filamentous fungi by

...

However, most efforts in genetic engineering of filamentous fungi for

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enhanced protein expression and secretion were solely based on the protein of interest, the secretory pathway or the host. Although these engineering strategies significantly improved target protein production, they were mainly related to single gene or pathway.

Frontiers | Genetic Engineering of Filamentous Fungi

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The beginning of nomenclature of overall fungi started in early 1990 after which the categorization, interior and exterior mechanism, function, molecular and genetics study took pace. This mini-review has emphasized some of the important aspects of filamentous fungi, their pattern of life cycle, history, and development of

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different strategic

methods applied to

exploit this unique

organism.

**Genetics, Molecular,
and Proteomics**

Advances in ...

General description.

Identification and

characterization of

genes from

filamentous fungi has

become easier. The

challenge is to

determine the

functions of genes and

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how they contribute to the biology of fungi. To

do this a variety of different experimental

techniques will be

necessary, ranging

from classical genetic

analysis and mutant

production, right

through to cell biology,

biochemistry and

immunological

methods.

Molecular and

Cellular Biology of

Filamentous Fungi,

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A ...

... inactivating genes, targeting in vitro generated mutations to specific loci, and altering gene expression and its regulation are being developed. These approaches are being used to investigate the wealth of basic and applied biological problems available in filamentous

Genetic

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**transformation of
filamentous fungi**

Genetic engineering
can be a powerful

approach for
filamentous fungi in
order to increase

productivity and to
minimise unwanted by-
product formation.

However, before
engineering can
become routine,

introducing the desired
genetic manipulation of
the fungus of interest

often represents a

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challenge.

**Genetic engineering
of filamentous fungi
— Progress ...**

The molecular biology of secreted enzyme production by fungi. Enzymes from filamentous fungi are already widely exploited, but new applications for known enzymes and new enzymic activities continue to be found. In addition, enzymes

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from less amenable non-fungal sources require heterologous production and fungi are being used as the production hosts.

The molecular biology of secreted enzyme production by fungi

In: Kinghorn JR, Turner G (eds) Applied molecular genetics of filamentous fungi.

Blackie Glasgow, pp 1-27 [Google Scholar](#)

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Metwally M, el Sayed

M, Osman M,

Hanegraaf PPF,

Stouthamer AH, Van

Verseveld HW (1991)

Bioenergetic

consequences of

glucoamylase

production in carbon-

limited chemostat

cultures of *Aspergillus*

niger .

**Molecular genetic
strain improvement
for the ...**

introductory course on

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medical Applied

Genetics and Molecular

Biology and as a
reference material.

This lecture note is specifically designed for medical laboratory technologists, and includes only those areas of molecular cell biology and Applied Genetics relevant to degree-level understanding of modern laboratory technology.

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This was followed by
the development of
techniques for the
genetic transformation
of the model

filamentous fungi

Neurospora crassa and
Aspergillus nidulans (4;

49; 55). All major

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Fungi

groups of fungi, including different zygomycetes, ascomycetes and basidiomycetes, as well as several Fungi Imperfecti, can be transformed.

Transformation is an essential part of modern fungal research, and it is of great importance in applications to the many fungal species used in biotechnology as well as plant and ...

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**Strategies for the
transformation of
filamentous fungi ...**

We constructed nine sets of oligonucleotide primers on the basis of the results of DNA hybridization of cloned genes from *Neurospora crassa* and *Aspergillus nidulans* to the genomes of select filamentous ascomycetes and deuteromycetes (with filamentous

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ascomycete

affiliations). Nine sets

of primers we ...

**Development of
primer sets
designed for use
with the PCR ...**

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genetics of filamentous
fungi. [James R
Kinghorn; Geoffrey
Turner, (Molecular
biologist);]

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**genetics of
filamentous fungi
(Book ...**

Abstract Filamentous fungi have several industrial, environmental, and medical applications. However, they are rarely utilized owing to the limited availability of full-genome sequences and genetic...

**CRISPR/Cas9-based
genome**

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engineering: A new

breakthrough ...

The first section of this volume, Genetics,

illustrates the basic genetic processes

underlying inheritance, cell biology,

metabolism and

“lifestyles” of fungi.

The second section,

Biotechnology ,

addresses the applied

side of fungal genetics, ranging from new tools

for synthetic biology to

the biotechnological

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potential of fungi from

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Genetics and

Biotechnology |

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In spite of the basic and applied interest of the secretory pathway of filamentous fungi,...

Genetic dissection of the secretory route followed by a fungal extracellular glycosyl hydrolase -

Hernández-González -

2018 - Molecular

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Microbiology - Wiley
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