

## Secreted Proteases From Dermatophytes Springer

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~~Ringworm and its causative agent dermatophyte under microscopeSecreted Proteases From Dermatophytes Springer~~

Endo- and exoproteases-secreted by dermatophytes are similar to those of species of the genus *Aspergillus*. However, in contrast to *Aspergillus* spp., dermatophyte-secreted endoproteases are multiple and are members of two large protein families, the subtilisins (serine proteases) and the fungalysins (metalloproteases). In addition, dermatophytes excrete sulphite as a reducing agent.

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~~Secreted proteases from dermatophytes.~~

Secreted Proteases From Dermatophytes Springer Secreted proteases are key virulence factors for dermatophytes. Two types of endo-proteases are prevalent in dermatophytes, i.e. subtilisins belonging to the S8A family, and metalloproteinases ... Secreted Proteases from Dermatophytes | Request PDF

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Dermatophytes are among the most successful fungal pathogens in humans, but their virulence mechanisms have not yet been fully characterized. Dermatophytic fungi secrete proteases in vivo, which are responsible for fungal colonization and degradation of the keratinized tissue during infection.

### ~~Genes Encoding Proteolytic Enzymes Fungalysin and ...~~

Secreted Proteases From Dermatophytes Springer Dermatophytes are highly specialized pathogenic fungi that exclusively infect the stratum corneum, nails or hair, and it is evident that secreted proteolytic activity is important for their virulence. Endo- and exoproteases-secreted by dermatophytes are similar to those of species of the genus *Aspergillus*.

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Among the wide variety of enzymes secreted by dermatophytes, protease enzymes are the most studied and are the major type of the virulence factors from dermatophytes involved in invasion and...

### ~~Virulence Factors Involved in Pathogenicity of Dermatophytes~~

Mycopathologia (2008) 166:235-237 DOI 10.1007/s11046-008-9156-6 Editorial: Dermatophytes and Dermatophytoses: A Reappraisal for the Twenty-First Century Jean Phillipe Bouchara & Bernard Mignon & Vishnu Chaturvedi Published online: 7 October 2008 Springer Science+Business Media B.V. 2008 Mycopathologia has a long tradition of publishing history, and geography of this group of pathogenic ...

### ~~Editorial: Dermatophytes and Dermatophytoses: A ...~~

In a comparison of dermatophyte genomes with those of other fungi, proteases constituted one of four over-represented functional categories. 18 Approximately 20% of the 100 most expressed secreted proteins of *Trichophyton benhamiae* (previously *Arthroderma benhamiae*) were proteases, during growth both in vivo and on keratin in vitro. 19 The closely related dermatophytes *T. verrucosum* and *T. benhamiae* were found to possess 235 predicted proteinase-encoding genes (87 with signal peptides), none ...

### ~~Keratin hydrolysis by dermatophytes | Medical Mycology ...~~

It is evident that secreted proteases are important for the virulence of dermatophytes since these fungi grow exclusively in the stratum corneum, nails or hair, which constitutes their sole nitrogen and carbon sources.

### ~~Secreted proteases from pathogenic fungi~~

Abstract. Keratinolytic proteases secreted by dermatophytes are likely to be virulence-related factors. *Microsporum canis*, the main agent of dermatophytosis in dogs and cats, causes a zoonosis that is frequently reported. Using *Aspergillus fumigatus* metalloprotease genomic sequence (MEP) as a probe, three genes (MEP1, MEP2, and MEP3) were isolated from an *M. canis* genomic library.