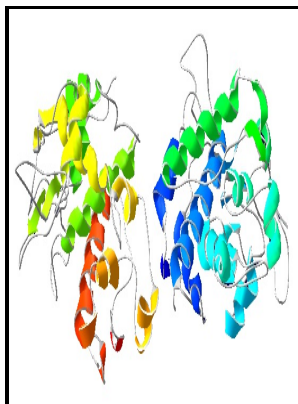


# Chitin enzymology

European Chitin Society - Chitin solutions and purification of chitin



Description: -

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Notes: Proceedings of the International Symposium on Chitin Enzymology, held May 10-12, 1993, in Senigallia (Ancona), Italy.

This edition was published in 1993



Filesize: 52.85 MB

Tags: #Chitin #Binding

## Deacetylation of chitin oligomers increases virulence in soil

Here, the contribution chitin enzymology can make to basic and applied research is discussed.

## Chitin synthase genes in *Manduca sexta*: characterization of a gut

Physiological role of chitinase and chitin-binding lectin in cucumber, in Chitin enzymology, Eur. We observed the expression of this gene in the larval epidermis, suggesting that the encoded enzyme functions to synthesize cuticular chitin.

## Enzymatic Depolymerization of Chitins and Chitosans

Arroyo-Begovich, Chitinase from *Neurospora crassa*. The temperature usually is kept at 60—90 °C to avoid as much as possible chitin degradation and preserve its structure.

## Chitinolytic enzymes: their contribution to basic and applied research

Mitsutomi, Analysis of Chitoooligosaccharides and Reduced Chitoooligosaccharides by High-Performance Liquid Chromatography.

## Chitin synthase

The recent crystal structure of CBM5 from *Serratia marcescens* SmCBM5 69 has made an important contribution towards elucidating how this family interacts with chitin.

## Chitin Enzymology

Journal of Biological Chemistry 259, 14966—14972.

## Production and application of chitin

Three distinct functional domains can be found in CBPs: the chitinase catalytic domain, capable of chitin hydrolysis, and the chtbd1 and chtbd2 peritrophin-A domains, only capable of chitin binding. Mauch, Colorimetric Assay for Chitinase.

### **Enzymatic Depolymerization of Chitins and Chitosans**

Most of what we know about chitin synthesis derives from studies of fungal and insect systems. Therefore the purification of water that was initially unsuitable for use or polluted is of crucial importance. Its extraction and purification as well as the reliability of available sources remain an issue and unfortunately impacts its widespread applications.

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