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Titolo	Binomium chitin-chitinase : recent issues // Salvatore Musumeci and Maurizio G. Paoletti, editors
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, c2009
ISBN	1-61728-147-6
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Descrizione fisica	1 online resource (481 p.)
Altri autori (Persone)	MusumeciSalvatore PaolettiM. G
Disciplina	573.7/74
Soggetti	Chitin Chitinase
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	New aspects of chitin chemistry and enzymology / Riccardo Muzzarelli -- Role of chitinase in nature / Neetu Dahiya -- Chitin and chitinase in the human evolution / Andrea Giansanti, Fabio Mecozzi, and Salvatore Musumeci -- Chitinase in fungal and bacterial sepsis / Helen Michelakakis and Ioannis Labadaridis -- The origin and genetics of human chitinases / Rolf Boot ... [et al.] -- Polymorphism of chitinases in human populations / Andrea Angius -- The gaucher cell and chitotriosidase, the phagocyte chitinase / J.M. Aerts & R.G. Boot -- Chitinase activity in atherosclerosis disease / Ana Cenarro and Fernando Civeira -- Chitotriosidase activity in juvenile idiopathic arthritis and juvenile sarcoidosis / Juergen Brunner -- Chitinase in neurological diseases / Stefano Sotgiu -- Chitin in Alzheimer disease / Luis F. Gonzalez Cuyar, Rudy J. Castellani -- Chitin and chitinase in anticancer research / Xing Q. Pan -- YKL-40 in inflammation, tissue remodelling, and cancer / Julia Johansen -- Chitotriosidase in patients with beta-thalassemia / Rita Barone -- Chitotriosidase in the plasmodium, anopheles, and human interaction / Salvatore Musumeci and Maria Musumeci -- Role of amcase in the allergic ocular pathologies / Salvatore Musumeci and Maria Musumeci -- Chitinase in the immune response / Maria Musumeci and Salvatore Musumeci -- The role of chitin and chitinases in asthma / Max A. Seibold and Esteban Gonzalez Burchard -- Chitinase like lectins in humans / Julia

Kzhyshkowska -- Role of amcase in the gastric digestion of chitin /
Maurizio G. Paoletti ... [et al.] -- Role of chitinase in gastroenterology /
Emiko Mizoguchi and Mayumi Kawada -- Chitinase inhibitors and its
significance in biology / Shohei Sakuda -- Recognition of chitin and
chitin-derived chitooligosaccharides in nature / Franco Falcone.

Sommario/riassunto

This book offers a collection of articles on binomial chitin/chitinase
from authors who have all personally contributed to the development
and increased acknowledgement of this topic. The book will represents
a milestone for future researchers by taking into account the known
archaic function of chitinases and the new description of chitin and
chitinases roles in innate immunity. This recently discovered role has
likely been vital in the process of genetic selection.
