Record Nr. UNINA9910144386903321 High pressure processing of foods [[electronic resource] /] / editors, **Titolo** Christopher J. Doona, Florence E. Feeherry; foreword by C. Patrick Dunne Ames, Iowa, : Blackwell Pub. Pubbl/distr/stampa [Chicago], : IFT Press, c2007 **ISBN** 1-282-11261-9 9786612112614 0-470-37640-6 1-61583-201-7 0-470-37631-7 Edizione [1st ed.] Descrizione fisica 1 online resource (274 p.) Collana **IFT Press series** Altri autori (Persone) DoonaChristopher J FeeherryFlorence E Disciplina 664/.02 Food industry and trade Soggetti High pressure (Technology) Inglese Lingua di pubblicazione **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 High Pressure Processing of Foods; CONTENTS; Contributors; Foreword; Prologue: Preface: Acknowledgments: Chapter 1. Introduction to High Pressure Processing of Foods; Chapter 2. Germination of Spores of Bacillus subtilis by High Pressure; Chapter 3. Inactivation of Bacillus cereus by High Hydrostatic Pressure; Chapter 4. Inactivation of Bacillus Spores at Low pH and in Milk by High Pressure at Moderate Temperature; Chapter 5. Pressure and Heat Resistance of Clostridium botulinum and Other Endospores Chapter 6. The Quasi-chemical and Weibull Distribution Models of Nonlinear Inactivation Kinetics of Escherichia coli ATCC 11229 by High Pressure ProcessingChapter 7. Sensitization of Microorganisms to High Pressure Processing by Phenolic Compounds; Chapter 8. Functional

> Genomics for Optimal Microbiological Stability of Processed Food Products: Chapter 9. Determination of Quality Differences in Low-Acid

Foods Sterilized by High Pressure versus Retorting; Chapter 10.

Sommario/riassunto

Consumer Evaluations of High Pressure Processed Foods Chapter 11. Compression Heating and Temperature Control in High Pressure ProcessingIndex

In High Pressure Processing of Foods, an array of international experts interrelate leading scientific advancements that use molecular biology techniques to explore the biochemical mechanisms of spore germination and inactivation by high pressure; investigate the inactivation of different spore species as functions of processing parameters such as pressure, temperature, time, food matrix, and the presence of anti-microbials; propose predictive mathematical models for predicting spore inactivation in foods treated with HPP; address commercial aspects of high pressure processing that incl