

1. Record Nr.	UNINA9910139032303321
Titolo	Guide to foodborne pathogens [[electronic resource] /] / edited by Ronald G. Labbe and Santos Garcia
Pubbl/distr/stampa	Chichester, West Sussex, UK, : Wiley Blackwell, 2013
ISBN	1-118-68483-4 1-118-68485-0 1-118-68484-2
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (485 p.)
Classificazione	TEC012000
Altri autori (Persone)	LabbeRonald G. <1946-> GarciaSantos <1961->
Disciplina	664.001/579
Soggetti	Food - Microbiology Foodborne diseases
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	Guide to Foodborne Pathogens; Copyright; Contents; Contributors; 1 Globalization and epidemiology of foodborne disease; 1.1 Introduction; 1.2 Globalization of foodborne disease; 1.3 Measuring the impact of the burden of foodborne disease; 1.4 Investigation of foodborne disease outbreaks; 1.5 Vehicles frequently implicated in foodborne illness; 1.5.1 Meat and poultry; 1.5.2 Fish and shellfish; 1.5.3 Egg products; 1.5.4 Dairy products; 1.5.5 Vegetables and fruits; 1.6 High-risk populations; 1.7 Policies to reduce foodborne disease; 1.8 Conclusion; Bibliography; 2 Staphylococcus aureus 2.1 Introduction2.2 Nature of illness; 2.2.1 Symptoms; 2.2.2 Dose; 2.3 Characteristics of agent; 2.3.1 Organism; 2.3.2 Enterotoxins; 2.4 Epidemiology; 2.4.1 Frequency of illness; 2.4.2 Diagnosis of human illness; 2.4.3 Vectors of transmission; 2.4.4 Foods incriminated; 2.4.5 Typical food-poisoning outbreak; 2.4.6 Atypical food-poisoning outbreaks (thermally processed food); 2.5 Detection and identification; 2.5.1 Tests used for identification; 2.5.2 Diagnostic features; 2.5.3 Media selection; 2.5.4 Direct-plating method; 2.5.5 Enrichment isolation method; 2.5.6 Differential characteristics 2.5.7 Coagulase2.5.8 Thermonuclease; 2.5.9 Ancillary tests; 2.6

Detection of enterotoxins; 2.6.1 Methods for toxin identification; 2.6.2 Toxin production by staphylococci; 2.6.3 Toxin identification in foods; 2.7 Physical methods for destruction; 2.8 Prevention and control; Bibliography; 3 *Listeria monocytogenes*; 3.1 Introduction; 3.1.1 Characteristics of *Listeria*; 3.1.2 Distribution of *Listeria*; 3.2 Listeriosis in humans; 3.2.1 Disease characterization; 3.2.2 Listeriosis in immunocompromised hosts; 3.3 Pathogenesis; 3.4 Foodborne transmission; 3.4.1 Foodborne disease epidemics: North America 3.4.2 Sporadic cases of listeriosis 3.5 Sources of *Listeria* in foods and food-processing environments; 3.6 Detection of *Listeria* in foods; 3.6.1 Selective enrichment and enumeration; 3.6.2 Sublethal injury; 3.7 Conclusion; Bibliography; 4 *Bacillus cereus*; 4.1 Introduction; 4.2 Nature of illness; 4.3 Characteristics of the agent; 4.4 Epidemiology; 4.5 Detection of organism; 4.6 Physical methods for destruction; 4.7 Prevention and control; Bibliography; 5 *Clostridium perfringens*; 5.1 Introduction; 5.2 Nature of illness in animals and humans; 5.3 Characteristics of agent; 5.4 Epidemiology 5.5 Detection of organism 5.6 Physical methods for destruction; 5.7 Prevention and control; Bibliography; 6 *Clostridium botulinum*; 6.1 Introduction; 6.2 Botulism; 6.3 Properties of *Clostridium botulinum* and botulinum neurotoxins; 6.3.1 *Clostridium botulinum*; 6.3.2 Botulinum neurotoxins; 6.4 Detection and isolation; 6.4.1 Enrichment; 6.4.2 Isolation; 6.4.3 Tests for neurotoxin genes; 6.4.4 Tests for toxin; 6.4.5 Characterization of isolates; 6.5 Epidemiology; 6.5.1 Incidence of *C. botulinum* in the environment and in foods; 6.5.2 Incidence of foodborne botulism; 6.5.3 Infant botulism 6.6 Prevention and control

Sommario/riassunto

"Guide to Foodborne Pathogens covers pathogens--bacteria, viruses, and parasites--that are most commonly responsible for foodborne illness. An essential guide for anyone in the food industry, research, or regulation who needs to ensure or enforce food safety, the guide delves into the nature of illnesses, the epidemiology of pathogens, and current detection, prevention, and control methods. The guide further includes chapters on new technologies for microbial detection and the globalization of the food supply, seafood toxins, and other miscellaneous agents"--

"A comprehensive and accessible reference on the pathogens - bacteria, viruses, and parasites - most commonly responsible for foodborne illness"--
