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Titolo	Brewing and Distilling Yeasts / / by Graham G. Stewart
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ISBN	3-319-69126-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XIII, 423 p. 197 illus., 82 illus. in color.)
Collana	The Yeast Handbook, , 2626-885X
Disciplina	579
Soggetti	Microbiology
	Microbial genetics
	Microbial genomics
	Biodiversity
	Food—Biotechnology
	Eukaryotic Microbiology
	Microbial Genetics and Genomics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction 2. History of brewing and distilling yeast 3.
	Taxonomy of brewing and distilling yeasts and methods of
	propagation 4. Teast culture collections, strain maintenance and
	plasma membrane and periplasm 6. Energy metabolism by the yeast
	cell 7. Yeast nutrition 8. Yeast viability and vitality 9.
	Bioethanol 10. Killer (Zymocidal) yeasts 11. Stress effects on
	yeast during brewing and distilling termentations – high gravity effects
	flocculation and centrifugation 14. Yeast ethanol toxicity in distilling
	15. Flavour production by yeast 16. Yeast genetic manipulation
	17. Non-Saccharomyces (and bacteria) yeasts that produce ethanol
Sommario/riassunto	
	This book is an overview considering yeast and fermentation. The similarities and differences between yeasts employed in brewing and

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production of beer and distilled products (potable and industrial) are discussed. This Handbook includes a review of relevant historical developments and achievements in this field, the basic yeast taxonomy and biology, as well as fundamental and practical aspects of yeast cropping (flocculation), handling, storage and propagation. Yeast stress, vitality and viability are also addressed together with flavor production, genetic manipulation, bioethanol formation and ethanol production by non-Saccharomyces yeasts and a Gram-negative bacterium. This information, and a detailed account of yeast research and its implications to both the brewing and distilling processes, is a useful resource to those engaged in fermentation, yeast and their many products and processes.