

The Yeasts A Taxonomic Study

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The Yeasts. A Taxonomic Study. Ed. by N. J. W. Kreger-van Rij. 3. Rev., Enl. Ed
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Yeasts in the Production of Wine
Biology and Activities of Yeasts
Yeasts in Food
Carbohydrate Composition and Taxonomy of Fungi
Biodiversity and Ecophysiology of Yeasts
The Yeasts. A Taxonomic Study
CRC Handbook of Microbiology
Systematics and Evolution
Systematics and Evolution
List of Cultures
CRC Handbook of Microbiology: Fungi, algae, protozoa, and viruses
Encyclopedia of Microbiology
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the yeasts a taxonomic study is a three volume book that covers the taxonomic aspect of yeasts the main goal of this book is to provide important information about the identification of yeasts it also discusses the growth tests that can be used to identify different species of yeasts and it examines how the more important species of yeasts provide information for the selection of species needed for biotechnology volume 1 discusses the identification classification and importance of yeasts in the field of biotechnology volume 2 focuses on the identification and classification of ascomycetous yeasts volume 3 deals with the identification and classification of basidiomycetous yeasts along with the genus *Prototheca* high quality photomicrographs and line drawings detailed phylogenetic trees up to date clearly presented yeast taxonomy and systematic easy to use reference sequence accession numbers to allow for correct identification

characteristics and methods used in the classification variation in yeasts and its significance in taxonomy general classification of the yeasts discussion of the genera belonging to the endomycetaceae discussion of the genera *Sporobolomyces* and *Bullera* discussion of the genera belonging to the cryptococcaceae latin diagnoses of new genera species and varieties

this book focuses on the diversity of yeasts in aquatic and terrestrial ecosystems including the association of yeasts with insects invertebrate and vertebrate animals it offers an overview of the knowledge accumulated in the course of more than 60 years of research and is closely connected with the volume yeasts in natural ecosystems ecology by the same editors in view of the rapid decline of many natural habitats due to anthropogenic activities and climate change the need to study biodiversity is pressing rising temperatures threaten species inhabiting cold and aquatic environments and species in terrestrial ecosystems are endangered by habitat fragmentation or loss most of our knowledge of intrinsic properties autoecology of yeasts reported throughout this book is derived from laboratory experiments with pure cultures accordingly the importance of culture collections for ecological studies is highlighted by presenting an overview of worldwide available yeast strains and their origins all of the chapters were written by leading international yeast research experts and will appeal to researchers and advanced students in the field of microbial diversity

it is well established that certain strains of yeasts are suitable for transforming grape sugars into alcohol while other yeast strains are not

suitable for grape fermentations recent progress has clearly demonstrated that the sensory profile of a wine is characteristic of each vine cultivated and the quality and technological characteristics of the final product varies considerably due to the strains which have performed and or dominated the fermentation process because of their technological properties wine yeast strains differ significantly in their fermentation performance and in their contribution to the final bouquet and quality of wine such as useful enzymatic activities and production of secondary compounds related both to wine organoleptic quality and human health the wine industry is greatly interested in wine yeast strains with a range of specialized properties but as the expression of these properties differs with the type and style of wine to be made the actual trend is in the use of selected strains which are more appropriate to optimize grape quality additionally wine quality can be influenced by the potential growth and activity of undesirable yeast species considered spoilage yeasts which cause sluggish and stuck fermentation and detrimental taste and aroma in the wine

yeasts play a crucial role in the sensory quality of a wide range of foods they can also be a major cause of food spoilage maximising their benefits whilst minimising their detrimental effects requires a thorough understanding of their complex characteristics and how these can best be manipulated by food processors yeasts in food begins by describing the enormous range of yeasts together with methods for detection identification and analysis it then discusses spoilage yeasts methods of control and stress responses to food preservation techniques against this background the bulk of the book looks at the role of yeasts in particular types of food there are chapters on dairy products meat fruit bread soft drinks alcoholic beverages soy products chocolate and coffee each chapter describes the diversity of yeasts associated with each type of food their beneficial and detrimental effects on food quality methods of analysis and quality control with its distinguished editors and international team of over 30 contributors yeasts in food is a standard reference for the food industry in maximising the contribution of yeasts to food quality describes the enormous range of yeasts together with methods for detection identification and analysis discusses spoilage yeasts methods of control and stress responses to food preservation techniques examines the beneficial and detrimental effects of yeasts in particular types of food including dairy products meat fruit bread soft drinks alcoholic beverages soy products chocolate and coffee

in the last few decades more and more yeast habitats have been explored spanning cold climates to tropical regions and dry deserts to

rainforests as a result a large body of ecological data has been accumulated and the number of known yeast species has increased rapidly this book provides an overview of the biodiversity of yeasts in different habitats recent advances achieved by the application of molecular biological methods in the field of yeast taxonomy and ecology are also incorporated in the book wherever possible the interaction between yeasts and the surrounding environment is discussed

mycology the study of fungi originated as a subdiscipline of botany and was a descriptive discipline largely neglected as an experimental science until the early years of this century a seminal paper by blakeslee in 1904 provided evidence for self incompatibility termed heterothallism and stimulated interest in studies related to the control of sexual reproduction in fungi by mating type specificities soon to follow was the demonstration that sexually reproducing fungi exhibit mendelian inheritance and that it was possible to conduct formal genetic analysis with fungi the names burgett kniep and lindegren are all associated with this early period of fungal genetics research these studies and the discovery of penicillin by fleming who shared a nobel prize in 1945 provided further impetus for experimental research with fungi thus began a period of interest in mutation induction and analysis of mutants for biochemical traits such fundamental research conducted largely with *neurospora crassa* led to the one gene one enzyme hypothesis and to a second nobel prize for fungal research awarded to beadle and tatum in 1958 fundamental research in biochemical genetics was extended to other fungi especially to *saccharomyces cerevisiae* and by the mid 1960s fungal systems were much favored for studies in eukaryotic molecular biology and were soon able to compete with bacterial systems in the molecular arena

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Volume 1 covers the bacteria each chapter treats a group of bacteria extensive bibliographies a section on general information includes a glossary taxonomy information literature etc taxonomic and topical indexes also a chapter on paleomicrobiology good overview plus factual information published 1977

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