

# The Yeasts A Taxonomic Study

The YeastsThe yeasts : a taxonomic studyThe YeastsThe Yeasts, a Taxonomic StudyThe Yeasts. A Taxonomic Study. Ed. by N. J. W. Kreger-van Rij. 3. Rev., Enl. EdThe Yeasts- A Taxonomic Study- Volume 1The Yeasts- A Taxonomic Study- Volume 3Yeasts in Natural Ecosystems: DiversityThe Yeasts. A Taxonomic StudyYeast technologyYeasts in the Production of WineSystematics and EvolutionYeasts in FoodCRC Handbook of MicrobiologySystematics and EvolutionCRC Handbook of Microbiology: Fungi, algae, protozoa, and virusesEncyclopedia of MicrobiologyList of CulturesList of CulturesThe Yeasts: Classification of yeasts Cletus Kurtzman C. P. Kurtzman Jacomina Lodder J. Lodder Pietro Buzzini Joh LODDER (and KREGER-VAN RIJ (Nelly Jeanne Wilhelmina)) Gerald Reed Patrizia Romano David McLaughlin T Boekhout Allen I. Laskin David J. McLaughlin Allen I. Laskin Hakk Kenky jo (Osaka, Japan) C. P. Kurtzman

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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

yeasts are the active agents responsible for three of our most important foods bread wine and beer and for the almost universally used mind personality altering drug ethanol anthropologists have suggested that it was the production of ethanol that motivated primitive people to settle down and become farmers the earth is thought to be about 4 5 billion years old fossil microorganisms have been found in earth rock 3 3 to 3 5 billion years old microbes have been on earth for that length of time carrying out their principal task of recycling organic matter as they still do today yeasts have most likely been on earth for at least 2 billion years before humans arrived and they play a key role in the conversion of sugars to alcohol and carbon dioxide early humans had no concept of either microorganisms or fermentation yet the earliest historical records indicate that by 6000 b c they knew how to make bread beer and wine earliest humans were foragers who collected and ate leaves tubers fruits berries nuts and cereal seeds most of the day much as apes do today in the wild crushed fruits readily undergo natural fermentation by indigenous yeasts and moist seeds germinate and develop amylases that produce fermentable sugars honey the first concentrated sweet known to humans also spontaneously ferments to alcohol if it is by chance diluted with rainwater thus yeasts and other microbes have had a long history of 2 to 3

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

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

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

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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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fully revised updated and offered in a new two volume format the yeasts a taxonomic study 5th edition remains the most comprehensive presentation of yeast taxonomy and systematics available nearly 1500 species of ascomycete and basidiomycete yeasts are

included each description offering not only standard morphological and physiological characters but also information on systematics habitat ecology agricultural and biotechnological applications and clinical importance extensive introductory chapters discuss clinical aspects of yeasts their role in biotechnology food and beverage spoilage agriculture and ecology while other chapters include methodology for isolation of species from various habitats phenotypic characterization chemotaxonomy gene sequence analysis and phylogenetics including whole genome analysis additionally easy to understand trees illustrate the phylogenetic placement of each species in its assigned genus as they have been determined from gene sequence analysis this essential work prepared by the leading experts in the field is the most definitive treatment of taxonomy and systematics of yeasts on the market and a necessary reference for any bookshelf or workbench high quality photomicrographs and line drawings enhance world class content detailed trees clearly illustrate phylogenetic placement of each species in its assigned genus discussion of clinical aspects of yeasts including their role in biotechnology agriculture and ecology help contextualize content for a wide range of researchers

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