

Klaus Wolf  
Editor

# Nonconventional Yeasts in Biotechnology

A Handbook



Springer

# Nonconventional Yeasts In Biotechnology A Handbook

**T. Satyanarayana, Gotthard Kunze**



## **Nonconventional Yeasts In Biotechnology A Handbook:**

Nonconventional Yeasts in Biotechnology Klaus Wolf, 2012-12-06 Nonconventional yeasts all yeasts other than *S cerevisiae* and *S pombe* are attracting increasing attention in basic research and biotechnological applications Due to their exceptional metabolic pathways they have been used in various biotechnological processes for producing foods or food additives drugs or a variety of biochemicals This book is the first to extensively cover nonconventional yeasts In addition to useful background information detailed protocols are included allowing investigation of basic and applied aspects of a wide range of nonconventional yeast species **The Metabolic Pathway Engineering Handbook** Christina Smolke, 2009-07-28 This first volume of the Metabolic Pathway Engineering Handbook provides an overview of metabolic pathway engineering with a look towards the future It discusses cellular metabolism including transport processes inside the cell and energy generating reactions as well as rare metabolic conversions This volume also explores balances and reaction

Non-Conventional Yeasts in Genetics, Biochemistry and Biotechnology Klaus Wolf, Karin D. Breunig, Gerold Barth, 2012-12-06 Most information on yeasts derives from experiments with the conventional yeasts *Saccaromyces cerevisiae* and *Schizosaccharomyces pombe* the complete nuclear and mitochondrial genome of which has also been sequenced For all other non conventional yeasts investigations are in progress and the rapid development of molecular techniques has allowed an insight also into a variety of non conventional yeasts In this bench manual over 70 practical protocols using 15 different non conventional yeast species and in addition several protocols of general use are described in detail All of these experiments on the genetics biochemistry and biotechnology of yeasts have been contributed by renowned laboratories and have been reproduced many times The reliable protocols are thus ideally suited also for undergraduate and graduate practical courses *Yeast Physiology and Biotechnology* Graeme M. Walker, 1998-04-08 Yeasts are the world's premier industrial micro organisms In addition to their wide exploitation in the production of foods beverages and pharmaceuticals yeasts also play significant roles as model eukaryotic cells in furthering our knowledge in the biological and biomedical sciences In order for modern biotechnology to fully exploit the activities of yeasts it is essential to appreciate aspects of yeast cell physiology In recent years however our knowledge of yeast physiological phenomena has lagged behind that of yeast genetics and molecular biology *Yeast Physiology and Biotechnology* redresses the balance by linking key aspects of yeast physiology with yeast biotechnology Individual chapters provide broad and timely coverage of yeast cytology nutrition growth and metabolism important aspects of yeast cell physiology which are pertinent to the practical uses of yeasts in industry The final chapter reviews traditional modern and emerging biotechnologies in which roles of yeasts in the production of industrial commodities and their value in biomedical research are fully discussed Relevant aspects of classical and modern yeast genetics and molecular biology are fully integrated into the appropriate chapters This up to date and fully referenced book is aimed at advanced undergraduate and postgraduate bioscience students but will also prove to be a

valuable source of information for yeast researchers and technologists Yeast Biotechnology: Diversity and Applications T. Satyanarayana, Gotthard Kunze, 2009-04-24 I believe that the book would provide an overview of the recent developments in the domain of yeast research with some new ideas which could serve as an inspiration and challenge for researchers in this field New Delhi Prof Asis Datta Dec 24 2007 Former Vice chancellor JNU Director NCPGR New Delhi Preface Yeasts are eukaryotic unicellular microfungi that are widely distributed in the natural environments Although yeasts are not as ubiquitous as bacteria in the natural environments they have been isolated from terrestrial aquatic and atmospheric environments Yeast communities have been found in association with plants animals and insects Several species of yeasts have also been isolated from specialized or extreme environments like those with low water potential e.g. high sugar salt concentrations low temperature e.g. yeasts isolated from Antarctica and low oxygen availability e.g. intestinal tracts of animals Around 1500 species of yeasts belonging to over 100 genera have been described so far It is estimated that only 1% of the extant yeasts on earth have been described till date Therefore global efforts are underway to recover new yeast species from a variety of normal and extreme environments Yeasts play an important role in food chains and carbon nitrogen and sulphur cycles Yeasts can be genetically manipulated by hybridization mutation rare mating cytoduction spheroplast fusion single chromosomal transfer and transfection using recombinant technology Yeasts e.g. **Handbook of Food Spoilage Yeasts** Tibor Deak, 2007-11-16 Far more than a simple update and revision the Handbook of Food Spoilage Yeasts Second Edition extends and restructures its scope and content to include important advances in the knowledge of microbial ecology molecular biology metabolic activity and strategy for the prohibition and elimination of food borne yeasts The author incorporates new *Advances in Applied Microbiology*, 2021-08-03 *Advances in Applied Microbiology* Volume 116 continues the comprehensive reach of this widely read and authoritative review source in microbiology Users will find invaluable references and information on a variety of areas relating to the topic of microbiology with this release focusing on the lipid production by oleaginous yeasts Contains contributions from leading authorities in the field Informs and updates on all the latest developments in the field of microbiology Includes discussions on the role of specific molecules in pathogen life stages interactions and much more Enzyme Biotechnology for Environmental Sustainability Praveen Dahiya, Joginder Singh Panwar, Ajay Kumar, 2024-07-13 *Enzyme Biotechnology for Environmental Sustainability* discusses recent applications of enzyme biotechnology in various industrial sectors and state of the art information on novel microbial enzyme technologies for a sustainable environment The book describes in detail the latest developments and modern methods in microbial enzyme biotechnology for wider application in bioremediation cleaner technology for industries and waste management green chemistry and pharmaceutical biotechnology sustainable textiles food production and biodegradation and other industries The chapters cover topics such as genetic engineering protein engineering nanotechnological advances of microbial enzymes computational tools for engineering enzymes and health risk assessment of enzymes in different sectors With contributors

from an array of experts in the field Enzyme Biotechnology for Environmental Sustainability is an informative reference for researchers biotechnologists microbiologists environmental scientists graduate and post graduate students working in the area of enzyme technology and their biomedical environmental and industrial applications Includes new methods and up to date information on modern methods with respect to its application in pharmaceuticals textiles food fermentation and many other related fields Provides in depth information about the recent applications of enzyme biotechnology in different industrial sectors Focuses on the rapid developments and biotechnological advances in microbial enzymology to enhance industrial and environmental sustainability

**Yarrowia lipolytica** Gerold Barth, 2013-08-19 Due to various special physiological features and a genome that greatly differs in structure gene content and organization from other yeasts *Y. lipolytica* is widely used as a host system With its characteristics such as the ability to grow on lipids or grease to accumulate oil and the high capacity for secretion of proteases and lipases the yeast is of great interest for biotechnological applications The main topics covered in this Microbiology Monograph are expression and secretion of heterologous proteins acid and alkaline extracellular proteases genetics production biochemical characterization and biotechnological application of lipases production and secretion of several organic acids and fragrances as well as the functional expression of P450 systems and its use in steroid biotransformation

Microbial Cell Factories Engineering for Production of Biomolecules Vijai Singh, 2021-02-13 Microbial Cell Factories Engineering for Production of Biomolecules presents a compilation of chapters written by eminent scientists worldwide Sections cover major tools and technologies for DNA synthesis design of biosynthetic pathways synthetic biology tools biosensors cell free systems computer aided design OMICS tools CRISPR Cas systems and many more Although it is not easy to find relevant information collated in a single volume the book covers the production of a wide range of biomolecules from several MCFs including *Escherichia coli* *Bacillus subtilis* *Pseudomonas putida* *Streptomyces* *Corynebacterium* *Cyanobacteria* *Saccharomyces cerevisiae* *Pichia pastoris* and *Yarrowia lipolytica* and algae among many others This will be an excellent platform from which scientific knowledge can grow and widen in MCF engineering research for the production of biomolecules Needless to say the book is a valuable source of information not only for researchers designing cell factories but also for students metabolic engineers synthetic biologists genome engineers industrialists stakeholders and policymakers interested in harnessing the potential of MCFs in several fields Offers basic understanding and a clear picture of various MCFs Explains several tools and technologies including DNA synthesis synthetic biology tools genome editing biosensors computer aided design and OMICS tools among others Harnesses the potential of engineered MCFs to produce a wide range of biomolecules for industrial therapeutic pharmaceutical nutraceutical and biotechnological applications Highlights the advances challenges and future opportunities in designing MCFs

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