



**Thermo**  
ELECTRON CORPORATION

## How to use this manual



Use this manual to get acquainted with your centrifuge and its accessories.

The manual helps you to avoid inappropriate handling. Make sure to keep it always close to the centrifuge.

**A manual that is not kept handy cannot provide protection against improper handling and thus against damage to persons and objects.**

The manual comprises chapters on

- Safety regulations
- Instrument description
- Rotor program and accessories
- Transportation and hook-up
- Use of the centrifuge
- Maintenance and care
- Troubleshooting
- Technical data
- Index

Overleaf you will find a graphic representation of the control panel with a survey of the most important functions

## Please fold out

# Heraeus Biofuge Manual

**Phouthone Keohavong, Stephen G.  
Grant**



## **Heraeus Biofuge Manual:**

Molecular Microbial Ecology Manual A.D. Akkermans, Jan Dirk van Elsas, F.J. de Bruijn, 2012-12-06 For a long time microbial ecology has been developed as a distinct field within Ecology. In spite of the important role of microorganisms in the environment, this group of invisible organisms remained inaccessible to other ecologists. Detection and identification of microorganisms remain largely dependent on isolation techniques and characterisation of pure cultures. We now realise that only a minor fraction of the microbial community can be cultivated. As a result of the introduction of molecular methods, microbes can now be detected and identified at the DNA/RNA level in their natural environment. This has opened a new field in ecology. Molecular Microbial Ecology. In the present manual, we aim to introduce the microbial ecologist to a selected number of current molecular techniques that are relevant in microbial ecology. The first edition of the manual contains 33 chapters, and an equal number of additional chapters will be added this year. Since the field of molecular ecology is in a continuous progress, we aim to update and extend the Manual regularly and will invite anyone to deposit their new protocols in full detail in the next edition of this Manual.

**Wine Fermentation** Harald Claus, 2019-03-28 Wineries are facing new challenges due to actual market demands for the creation of products exhibiting more particular flavors. In addition, climate change has led to the requirement for grape varieties with specific features such as convenient maturation times, enhanced tolerance towards dryness, osmotic stress, and resistance against plant pathogens. The next generation of yeast starter cultures should produce wines with an appealing sensory profile and less alcohol. This Special Issue comprises actual studies addressing some of the problems and solutions for the environmental, technical, and consumer challenges of wine making today. Development of sophisticated mass spectroscopic methods enable the identification of the major metabolite spectrum of grapes, wine, and deliver detailed insights in terroir and yeast-specific traits. Knowledge of the origin and reactions of reductive sulphur compounds facilitates the avoidance of unpleasant wine odors. Innovative physical-chemical treatments support effective and sustainable color extraction from red grape varieties. Enological enzymes from yeasts used directly or in the form of starter cultures are promising tools to increase the juice yields, color intensity, and aroma of wine. Natural and artificial *Saccharomyces* hybrids as well as collections of adapted wild isolates from various ecological niches will extend winemakers' repertoire, allowing individual fermentations. Exact process control of wine fermentations by convenient computer programs will guarantee consistently high product quality.

Early, rapid and sensitive veterinary molecular diagnostics - real time PCR applications Erika Pestana, Sandor Belak, Adama Diallo, John R. Crowther, Gerrit J.

Viljoen, 2010-01-18 This book gives a comprehensive account of the practical aspects of Real time PCR and its application to veterinary diagnostic laboratories. The optimisation of assays to help diagnose livestock diseases is stressed and exemplified through assembling standard operating procedures from many laboratory sources. Theoretical aspects of PCR are dealt with as well as quality control features necessary to maintain an assured testing system. The book will be helpful to all scientists.

involved in diagnostic applications of molecular techniques but is designed primarily to offer developing country scientists a collection of working methods in a single source The book is an adjunct to the Molecular Diagnostic PCR Handbook published in 2005

*Bioresources Technology in Sustainable Agriculture* Mohamad Faiz Foong Abdullah, Mohd Tajudin Bin Ali, Farida Zuraina M. Yusof, 2018-01-31 This book focuses on cutting edge advances and applications in tropical agriculture and bioresources It outlines some of the newest advances basic tools and the applications of novel approaches to improve agricultural practices and utilization of bioresources for the enhancement of human life Highlights include a thorough discussion on various aspects of agricultural modernization through technological advances in information technology efficient utilization of under exploited natural bioresources new chemical approaches for the generation of novel biochemicals and the applications of forensic and genetics approaches for bioresource conservation

*Molecular Toxicology Protocols* Phouthone Keohavong, Stephen G. Grant, 2008-02-03 A collection of cutting edge techniques for analyzing genotoxic exposure and detecting the resulting biological effects including endogenous metabolites up to and including the development of cancer The authors emphasize analytical methods that can be specifically applied to human populations and patients Among the applications detailed are the analysis of interactions between such cellular macromolecules as DNA and proteins and chemical and physical agents the assessment of medically relevant toxicity and the characterization of genetic alterations induced in transgenic animals by in vivo systems There are also methods for the analysis of genotoxic exposure during gene expression of cytotoxicity caused by the induction of apoptosis of genetic alterations in reporter genes and oncogenes early premalignant detection of altered oncogenes and of individual variation in biotransformation and DNA repair capacity

*Recombinant Antibodies for Cancer Therapy* Martin Welschhof, Jürgen Krauss, 2008-02-05 Since the advent of hybridoma technology more than two decades ago numerous antibodies have entered the clinical setting as potent therapeutic agents Their repeated application in humans however is limited by the development of human antimouse antibodies HAMA in the recipient leading to allergic reactions against the foreign murine protein and rapid neutralization To circumvent these limitations many new antibodies have recently been tailored through recombinant antibody technology The initial clinical data show encouraging results thus demonstrating the potential of these new therapeutic agents The purpose of *Recombinant Antibodies for Cancer Therapy* is to present a collection of detailed protocols in recombinant antibody technology It is primarily addressed to scientists working on recombinant antibodies as well as clinicians involved with antibody based therapies As with other volumes of this series we placed the main focus on providing detailed protocols describing procedures step by step Moreover each protocol supplies a troubleshooting guide containing detailed information on possible problems and hints for potential solutions Antibody technology is a subject of constant and rapid change This volume therefore does not attempt to cover all possible current experimental approaches in the field Rather we present carefully selected protocols written by competent authors who have successfully verified the particular method described Given our own

professional backgrounds and interest in oncology we chose to concentrate chiefly on therapeutic agents for cancer patients

**Immune pathogenesis of intestinal inflammatory diseases** Xia Xiong, Peng Ji, Wenkai Ren, 2023-01-02     **Advances in Nanomaterials in Biomedicine** Elena I. Ryabchikova, 2021-09-01 Advances in Nanomaterials in Biomedicine provided a platform for more than 110 researchers from different countries to present their latest investigations in various fields of nanotechnology new methods and nanomaterials intended for medical applications Modern achievements in the field of nanoparticle based diagnostics drug delivery and the use of various nanomaterials in the treatment of diseases are presented in 11 original articles The published reviews provide a comprehensive analysis of the current information on the use of nanomedicine in the treatment and diagnosis of cancer and liver fibrosis in the field of solid tissue engineering and in drug delivery systems     Host-pathogen Interaction in Central Nervous System Infection Federico Iovino, Tatiana Barichello, 2022-02-04     Food Storage, Spoilage and Shelf Life: Recent Developments and Insights Shalini Gaur Rudra, Santanu Basu, Anindya Chanda, 2022-08-29     *Annals of Plant Protection Sciences*, 2004     **Degradation of Polycyclic Aromatic Hydrocarbons by Actinomycetes** Leticia Pizzul, 2006 otic transformation and probably also the solubilisation of the high molecular weight PAH     **Proceedings of the National Academy of Sciences of the United States of America**, 2004     **Annals of Clinical Biochemistry**, 1998     **Applied and Environmental Microbiology**, 2001     **National Academy Science Letters** National Academy of Sciences, India, 2005     **Anticancer Research**, 2007     *The Journal of Cell Biology*, 1992 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972     **Molecular and Cellular Biology**, 2004     Canadian Journal of Forest Research, 1994

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