

Subcellular Biochemistry 57

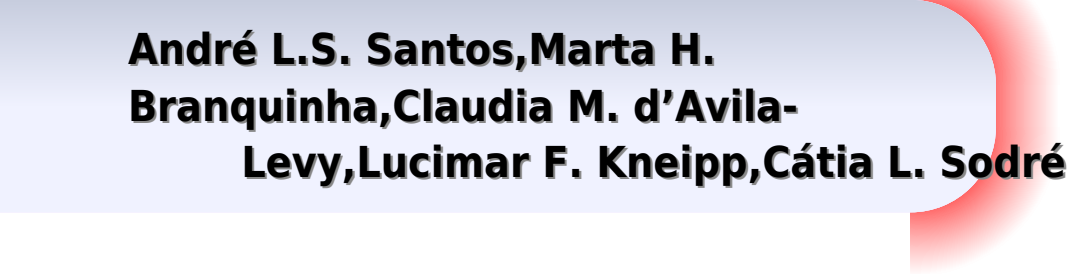
Michael Breitenbach
S. Michal Jazwinski
Peter Laun *Editors*



Aging Research in Yeast

 Springer

Aging Research In Yeast Subcellular Biochemistry



**André L.S. Santos, Marta H.
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Aging Research In Yeast Subcellular Biochemistry:

Aging Research in Yeast Michael Breitenbach, S. Michal Jazwinski, Peter Laun, 2011-11-19 This volume includes contributions by the leading experts in the field of yeast aging Budding yeast *Saccharomyces cerevisiae* and other fungal organisms provide models for aging research that are relevant to organismic aging and to the aging processes occurring in the human body Replicative aging in which only the mother cell ages while the daughter cell resets the clock to zero is a model for the aging of stem cell populations in humans while chronological aging measured by survival in stationary phase is a model for the aging processes in postmitotic cells for instance neurons of the brain Most mechanisms of aging are studied in yeast Among them this book discusses mitochondrial theories of aging emphasizing oxidative stress and retrograde responses the role of autophagy and mitophagy the relationship of apoptosis to aging processes the role of asymmetric segregation of damage in replicative aging the role of replication stress and the role of the cytoskeleton in aging Modern methods of yeast genetics and genomics are described that can be used to search for aging specific functions in a genome wide unbiased fashion The similarities in the pathology of senescence studied in yeast and of cancer cells including genome instability are examined

Aging Research in Yeast Michael Breitenbach, S. Michal Jazwinski, Peter Laun, 2011-11-23 This volume includes contributions by the leading experts in the field of yeast aging Budding yeast *Saccharomyces cerevisiae* and other fungal organisms provide models for aging research that are relevant to organismic aging and to the aging processes occurring in the human body Replicative aging in which only the mother cell ages while the daughter cell resets the clock to zero is a model for the aging of stem cell populations in humans while chronological aging measured by survival in stationary phase is a model for the aging processes in postmitotic cells for instance neurons of the brain Most mechanisms of aging are studied in yeast Among them this book discusses mitochondrial theories of aging emphasizing oxidative stress and retrograde responses the role of autophagy and mitophagy the relationship of apoptosis to aging processes the role of asymmetric segregation of damage in replicative aging the role of replication stress and the role of the cytoskeleton in aging Modern methods of yeast genetics and genomics are described that can be used to search for aging specific functions in a genome wide unbiased fashion The similarities in the pathology of senescence studied in yeast and of cancer cells including genome instability are examined

Cellular Senescence and Aging ,2024-01-30 Cellular Senescence and Aging Volume 181 in the Methods in Cell Biology series highlights new advances in the field with this new volume presenting interesting chapters on topics such as assessing polyglutamine tract aggregation in the nematode *Caenorhabditis elegans* Generation of glial cell derived neurotrophic factor *gdnf* morphants in zebrafish larvae by cerebroventricular microinjection of vivo morpholino Methods for detection of mitochondrial reactive oxygen species in senescent cells Assessment of cell cycle progression and mitotic slippage by videomicroscopy The original colorimetric method to detect cellular senescence and more Additional sections cover Assessing microbiota composition in the context of aging Assessing chronological aging in *Saccharomyces*

cerevisiae Image processing and supervised machine learning for retinal microglia characterization in senescence Measuring telomerase activity using TRAP assays High throughput assessment of cellular senescence Detection of radiation induced senescence by the Debacq Chainiaux protocol Improvements and upgrade in the detection of positive events Dynamic and scalable assessment of the senescence associated secretory phenotype SASP Flow cytometry assisted quantification of cell cycle arrest in cancer cells treated with CDK4 6 inhibitors and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Updated release includes the latest information on Cellular Senescence and Aging **Fungal Genomics** Minou

Nowrousian,2014-03-24 The volume is divided into four sections the first of which Genome Sequences and Beyond illustrates the impact of genome based information and techniques on research ranging from model organisms like yeast to less studied basal fungal lineages Furthermore it highlights novel types of analysis made possible by multi genome comparisons as well as the impact of genomics on culture collections and vice versa The second section Cell and Developmental Biology addresses questions that are important for fungal biology e g the development of fungal fruiting bodies and biology in general e g chromatin organization and circadian rhythms The third section Genomics for Biotechnology covers the search for plant biomass converting enzymes in fungal genomes and work with industrially important fungi The fourth section focusing on Pathogenicity offers chapters on the genomic analysis of plant and animal human pathogens It illustrates how genomics at all levels from genome to metabolome is used to study mechanisms of the interactions of fungi with other organisms

Handbook of Systems Biology Marian Walhout,Marc Vidal,Job Dekker,2012-12-31 This book provides an entry point into Systems Biology for researchers in genetics molecular biology cell biology microbiology and biomedical science to understand the key concepts to expanding their work Chapters organized around broader themes of Organelles and Organisms Systems Properties of Biological Processes Cellular Networks and Systems Biology and Disease discuss the development of concepts the current applications and the future prospects Emphasis is placed on concepts and insights into the multi disciplinary nature of the field as well as the importance of systems biology in human biological research Technology being an extremely important aspect of scientific progress overall and in the creation of new fields in particular is discussed in boxes within each chapter to relate to appropriate topics 2013 Honorable Mention for Single Volume Reference in Science from the Association of American Publishers PROSE Awards Emphasizes the interdisciplinary nature of systems biology with contributions from leaders in a variety of disciplines Includes the latest research developments in human and animal models to assist with translational research Presents biological and computational aspects of the science side by side to facilitate collaboration between computational and biological researchers **How We Age** Coleen T. Murphy,2025-05-20 How recent breakthroughs in longevity research offer clues about human aging All of us would like to live longer or to slow the debilitating effects of age In How We Age Coleen Murphy shows how recent research on longevity

and aging may be bringing us closer to this goal Murphy a leading scholar of aging explains that the study of model systems particularly simple invertebrate animals combined with breakthroughs in genomic methods have allowed scientists to probe the molecular mechanisms of longevity and aging Understanding the fundamental biological rules that govern aging in model systems provides clues about how we might slow human aging which could lead in turn to new therapeutics and treatments for age related disease Among other vivid examples Murphy describes research that shows how changing a single gene in the nematode worm *C. elegans* doubles its lifespan extending not only the end of life but also the youthful healthy part of life Drawing on work in her own lab as well as other recent research Murphy chronicles the history and current state of the field explaining longevity's links to reproduction and mating sensory and cognitive function inheritances from our ancestors and the gut microbiome Written with clarity and wit *How We Age* provides a guide to the science what we know about aging how we know what we know and what we can do with this new knowledge

Stress and Poverty Michael Breitenbach, Elisabeth Kapferer, Clemens Sedmak, 2021-07-22 The word stress is everywhere and highly overused Everyone is stressed it seems all the time Looking into the meaning of stress in the natural science and the humanities this book explores cellular stress as cause of and in correlation with what humans experience as stress When do we psychologically feel stress and when do we show physiological evidence of stress in our brain Stress is a deviation from what feels normal and healthy It can be created by social or economic factors and become chronic which has substantial impacts on the individual and society as a whole Focusing on poverty as one chronic inducer of stress this book explores how the lack of pressure free time the hardships and unpredictability of everyday life and a general lack of protection lead to destructive toxic stress This pressure affects cognitive and social functioning brain development during childhood and may also result in premature aging How can the sciences inform our understanding of and our response to stress What can be done about toxic stress both on a personal level and in terms of structures and policies The book is written for anyone interested in stress its causes and consequences and its relationship to poverty

Indian Journal of Biochemistry & Biophysics, 2017 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 *Research Awards Index*, 1987 **Reprogramming Microbial Metabolic Pathways** Xiaoyuan Wang, Jian Chen, Peter Quinn, 2012-10-20 Metabolic engineering has been developed over the past 20 years to become an important tool for rational engineering of microorganisms This book has a particular interest in the methods and applications of metabolic engineering to improve the production and yield of a variety of metabolites in microorganisms The overall goal is to achieve a better understanding of metabolism in different microorganisms and provide a rational basis to reprogram microorganisms for improved biochemical production This book brings together contributions from leading researchers at the cutting edge of these topics The subject matter is divided into two sections The first section deals with novel and emerging methods for redesigning microorganisms exploiting systems biology and gene regulation The second discusses practical aspects of metabolic engineering for over production of a variety

of valuable chemicals and materials by fermentation

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The Role of Antioxidants in Longevity and Age-Related Diseases Bee Ling Tan, Mohd Esa Norhaizan, 2021-11-19 The average life expectancy has increased worldwide in the recent decades This has presented new challenges as old age brings the onset of diseases such as cancer neurodegenerative disorders cardiovascular disease type 2 diabetes arthritis osteoporosis stroke and Alzheimer s disease Studies and research have shown the potential preventive and therapeutic roles of antioxidants in aging and age related diseases by inhibiting the formation or disrupting the propagation of free radicals and thus increasing healthy longevity enhancing immune function and decreasing oxidative stress This has made an antioxidant rich diet of increasing importance in battling the detrimental effects of the aging process The Role of Antioxidants in Longevity and Age Related Diseases is the book that compiles research on antioxidants and their biological mechanisms that mediate age related diseases This book covers the major issues linked to antioxidants aging and age related diseases including changes in organ systems over the lifespan age related oxidative stress induced redox imbalance inflammaging implications of inflammation in aging and age related diseases and the important role of antioxidant rich foods in their prevention and treatment of various age related diseases For researchers seeking a comprehensive single source on antioxidants and their roles in aging and age related diseases this novel text provides an up to date overview

Inventory of energy research and development--1973-1975 Oak Ridge National Laboratory, 1976

Proteins and Proteomics of Leishmania and Trypanosoma André L.S. Santos, Marta H. Branquinha, Claudia M. d'Avila-Levy, Lucimar F. Kneipp, Cátia L. Sodr , 2013-11-22 This book contains a collection of critical reviews on the expression of biologically functional proteins in Leishmania and Trypanosoma which was written by renowned researchers on this field Species belonging to these trypanosomatids genera are etiological agents of leishmaniasis Chagas disease and sleeping sickness that are extremely debilitating human infection diseases which remain a major health problem especially in countries from Latin America Africa and Middle East Substantiating the problem the currently accepted drugs for these diseases are quiet unsatisfying due to their low efficacy and high toxicity In order to solve these real problems

several research groups around the world have become involved in the study and identification of novel potential targets in the trypanosomatid cell. Since proteins are key macromolecules involved in crucial metabolic processes of all living cells, studies have focused on the expression of specific proteins produced by *Leishmania* and *Trypanosoma* by means of different biochemical, molecular and proteomic approaches in order to explore them as targets for understanding the parasite life cycle and developing new strategies against trypanosomiasis. With these proposals in mind, the book *Proteins and Proteomics of Leishmania and Trypanosoma* encompasses i) an integrated view about the biochemistry of parasites belonging to the *Leishmania* and *Trypanosoma* genera; ii) an updated review on the expression of biologically relevant proteins by human pathogenic trypanosomatids and their possible role in the interaction with host cells; molecules as well as a target for development of both alternative chemotherapies and vaccine; and iii) several pictures, diagrams and tables that can be used to illustrate both undergraduate and postgraduate teaching as well as scientific lectures, being a useful resource for students and researchers.

Cytochrome P450 2E1: Its Role in Disease and Drug Metabolism Aparajita Dey, 2013-02-12. The book deals with various clinical aspects of cytochrome P450 2E1 (CYP2E1), which is a potent source for oxidative stress. Oxidative stress is critical for pathogenesis of diseases and CYP2E1 is a major contributor for oxidative stress. Several clinical disorders are associated with changes in regulation of CYP2E1 and the consequent abnormalities, which include alcoholic liver disease, alcoholic pancreatitis, carcinogenesis, non-alcoholic fatty liver disease, non-alcoholic steatohepatitis, obesity, hepatitis C virus infection, reproductive organ toxicity, hepatocellular and cholestatic liver cirrhosis, inhibition of bone repair, cross tolerance in smokers and people treated with nicotine, disorders of central nervous system, changes in metabolism of protoxicants in the circulatory system and susceptibility to human papillomavirus infection. Hence, CYP2E1 emerges as a new and potent player in aggravating injury and furthering disease complications.

Epigenetics: Development and Disease Tapas Kumar Kundu, 2012-11-13. Epigenetics fine-tunes the life processes dictated by DNA sequences but also kick-starts pathophysiological processes including diabetes, AIDS and cancer. This volume tracks the latest research on epigenetics, including work on new generation therapeutics.

Lipid Hydroperoxide-Derived Modification of Biomolecules Yoji Kato, 2013-12-28. Lipid peroxidation is an important cellular process which can lead to detrimental effects if it is not regulated efficiently. Lipid hydroperoxide is formed in an initial step of lipid peroxidation. Lipid hydroperoxide is also known as a potential source of singlet oxygen. Harmful aldehydes are formed when the lipid hydroperoxide is degraded. The formed aldehyde has high reactivity against thiol or amine moieties. Therefore, it could act as a signaling molecule which might induce the changing of gears inside a cell. Recent studies have shown that lipid hydroperoxide or a slightly modified product of the lipid hydroperoxide reacts with biomolecules such as proteins and aminophospholipids, which leads to formation of amide-type adducts. Amide-type adducts could be one of the markers for oxidative stress and could also be an important player in some diseases. In this book, the chemistry and biochemistry of lipid hydroperoxide along with their conjugates with

biomolecules are described [Encyclopedia of Aging: Qualitative research-Yeast, index](#) ,2002 **Subject Index of**
Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute National
Heart, Lung, and Blood Institute,1977

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