Advances in microbial physiology.

Rose, A. H.
Tempest, D. W.

Academic Press,
1977

Electronic books

Monografía

ADV IN MICROBIAL PHYSIOLOGY VOL 16 APL

Título: Advances in microbial physiology. Volume 16 electronic resource] edited by A. H. Rose and D.W. Tempest

Editorial: New York, N.Y. Academic Press 1977

Descripción física: 1 online resource (389 p.)

Mención de serie: Advances in microbial physiology 16

Nota general: Includes index

Contenido: Front Cover; Advances in Microbial Physiology, Volume 16; Copyright Page; Contents; Chapter 1. Some Biophysical Aspects of Ciliary and Flagellar Motility; I. Introduction; II. Structure; III. Patterns of Movement; IV. Some Hydrodynamic Considerations; V. Functions of Axonemal Structures; VI. Mechanochemical Aspects; VII. Control of Flagellar and Ciliary Motion; VIII. Concluding Remarks; References; Chapter 2. Does the Initiation of Chromosome Replication Regulate Cell Division?; I. Introduction; II. Models for the Regulation of Cell Division and Chromosome Replication III. The Necessity for Correlation of Events in Cell Cycles of Related IndividualsIV. The Role of DNA Initiation in Regulating Cell Division; V. Computer Simulation of the Cell Cycle Based on the Deterministic Principle; VI. Pulse Autoradiography of Slowly Dividing Cells: The Experimental Basis for Computer Simulation; VII. Experiments Concerning the Variation in the Initiation of Chromosome Replication; VIII. Possible Experimental Objections; IX. Variability of the Time Between Nuclear Division and Cell Division; X. Temporal Accuracy of DNA Synthesis Cycle XI. Computation of the Fraction of Cells of a Size Class Engaged in DNA ReplicationXII. Precision of Initiation of Chromosome Regulations in Myxococcus xanthus; XIII. Conclusions; XIV. Acknowledgements; References; Chapter 3. Repair of Damaged DNA in Bacteria; I. Survival Value of DNA Repair Mechanisms; II. Radiation and Chemical Damage to DNA; III. The Isolation of Mutants Defective in DNA Repair; IV. Photoreactivation Repair; V. Excision Repair; VI. Post-Replication Recombination Repair; VII. The Repair of Ionizing Radiation Damage; VIII. The Repair of Cross-Link Damage IX. The Mutagenic Consequences of RepairX. Summary; References; Chapter 4. Structure, Synthesis and Genetics of Yeast Mitochondrial DNA; I. Introduction; II. Structure and Physical Properties of mtDNA in

Respiratory-Competent Yeast; III. Synthesis of mtDNA; IV. Petite Mutants of Saccharomyces cerevisiae-Molecular Aspects; V. Mitochondrial Genetics in Yeast; References; Chapter 5. Disruption of Micro-organisms; I. Introduction; II. Strength of Cell Walls in Relation to Structure; III. Principles of Cell Breakage; IV. Lability of Cell Extract Components V. Controlled Breakage of Eukaryotic Micro-organismsVI. Concluding Remarks; References; Author Index; Subject Index

Lengua: English

ISBN: 1-281-71144-6 9786611711443 0-08-057976-0

Materia: Microorganisms- Physiology Microbiology

Autores: Rose, A. H. Tempest, D. W.

Enlace a serie principal: Advances in microbial physiology (CKB)954926956860 (DLC)2011200619 (OCoLC) 60626331 2162-5468

Enlace a formato físico adicional: 0-12-027716-6
