

1. Record Nr.	UNINA9911019876703321
Titolo	Advances in enzymology and related subjects of biochemistry . Volume XIII / / edited by F. F. Nord
Pubbl/distr/stampa	New York, : Wiley, 1952
ISBN	1-282-68242-3 9786612682421 0-470-12258-7 0-470-12335-4
Edizione	[11th ed.]
Descrizione fisica	1 online resource (426 p.)
Collana	Advances in enzymology and related subjects of biochemistry ; ; 13
Altri autori (Persone)	NordF. F
Disciplina	612.0151
Soggetti	Clinical enzymology Enzymes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	ADVANCES IN ENZYMOLOGY; CONTENTS; Localization of Enzymes in Cytoplasm; I. Introduction; II. Techniques; A. The Homogenate Technique; B. Separation of Cell Constituents in vivo; III. Localization of Enzymes; A. Cytoplasmic Ground Substance; B. Microsomes; C. Mitochondria; D. Nuclei; E. Other Cell Constituents; IV. Concluding Remarks; References; Some Aspects of the Application of Tracers in Permeability Studies; I. Introduction; II. Fundamental Concepts; III. Determination of Permeability Constants and Flux Values from Tracer Experiments; A. Useful Equations B. Determination of Flux in Both Directions, Using Two TracersIV. The Components of the Flux; A. Meaning of Free Diffusion, Exchange Diffusion, and Transport; B. Equations Useful for Distinguishing between Free Diffusion in Chemical Combination; V. Relation between the Flux Ratio of a Substance and Its Electrochemical Activities in Inside and Outside Solutions; A. Substance Not Consumed or Produced in Membrane; B. Substance Consumed or Produced in Membrane; VI. Permeability to Water; A. Giant Plant Cell; B. Ameba; C. Amphibian Skin; D. Intestinal Fluid and Blood; VII. Permeability to Ions A. Frog SkinB. Gastric Mucosa; C. Muscle; D. Nerve; VIII. Concluding

Remarks; References; La Biosynthese Induite des Enzymes (Adaptation Enzymatique); Introduction; I. La biosynthese induite des enzymes dans le metabolisme cellulaire; A. La biosynthese des comme synthese d'une proteine specifique; B. Extension, generalite et signification fonctionnelle de la biosynthese induite des enzymes; C. Le couplage de la biosynthese induite des enzymes avec le metabolisme energetique et le metabolisme des syntheses; D. Interactions dans la biosynthese induite d'enzymes differents

E. Les precurseurs de l'enzymell. Cinetique de la biosynthese induite des enzymes; A. Cinetique de la biosynthese induite des enzymes en fonction du temps; B. Cinetique de l "adaptation lente"; C. La role de l'inducteur dans la cinetiaue de la svnthese . L'effet Pollock; D. La biosynthese des enzymes en l'absence d'inducteur exogene; III. Facteurs Specifiques et relations de specificite dans la biosynthese induite des enzymes; A. La specificite de l'induction; B. Ledeterminisme genetique de la biosynthese induite des enzymes

C. L'origine de la structure specifique des enzymes et la signification du phenomene d'inductionTravaux cites; Genetic Formulation of Gene Structure and Gene Action; I. Introduction; II. Definition of Gene; III. Size of a Gene; IV. Positional Aspects of Gene Action; V. Genes and Enzymes; VI. Crossing-Over; Bibliography; Adenosine Triphosphate and the Structural Proteins in Relation to Muscle Contraction; Introduction; I. The Structural Proteins of Muscle; A. Actin; B. Myosin, Tropomyosin, and Nucleotropomyosin; C. Actomyosin; D. Extraction of the Fiber Proteins

II. Enzymic Breakdown of Adenosine Triphosphate

Sommario/riassunto

Advances in Enzymology and Related Areas of Molecular Biology is a seminal series in the field of biochemistry, offering researchers access to authoritative reviews of the latest discoveries in all areas of enzymology and molecular biology. These landmark volumes date back to 1941, providing an unrivaled view of the historical development of enzymology. The series offers researchers the latest understanding of enzymes, their mechanisms, reactions and evolution, roles in complex biological process, and their application in both the laboratory and industry. Each volume in the series featu
