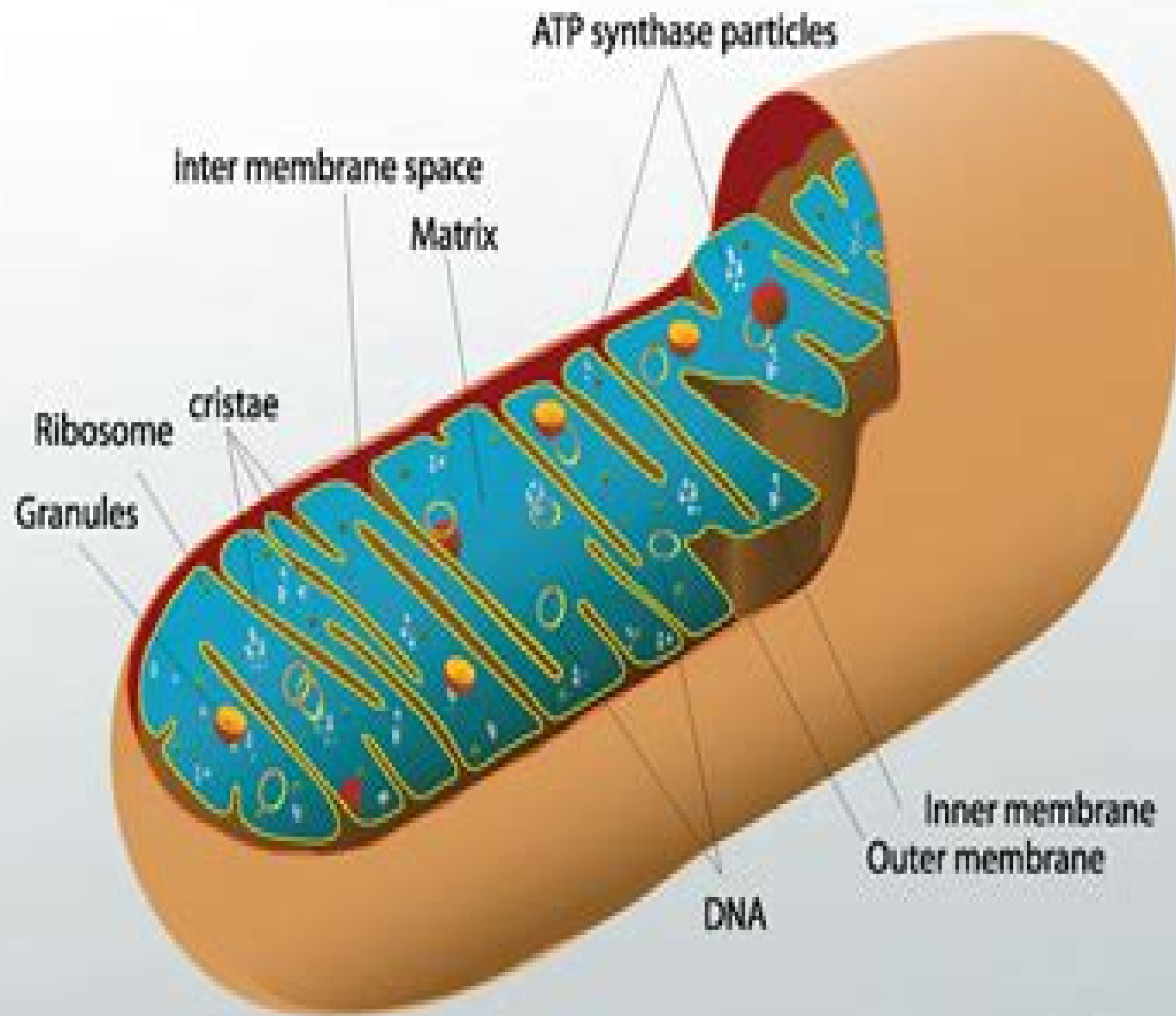


WHAT ARE MITOCHONDRIAL CRISTAE?



What Is Cristae In Mitochondria

Andreas S. Reichert



What Is Cristae In Mitochondria

The Structure of Mitochondria E. A. Munn, 2014-06-28 The Structure of Mitochondria provides an extensive account of the structure of mitochondria This book illustrates the variety of mitochondrial structure revealed by electron microscopy of intact cells Organized into nine chapters this book begins with an overview of the application of electron microscopy to the study of the structure of cells and their mitochondria This text then explains the short term changes of the type revealed by phase contrast microscopy of living cells Other chapters consider the rationale behind the procedures generally employed for the isolation of mitochondria and other sub cellular components This book discusses as well the important component of mitochondria The final chapter describes the interesting similarities of mitochondria chloroplasts and bacteria and the bearing these have on the concept about the way in which the relationships between mitochondria and the rest of the eukaryotic cell have evolved This book is a valuable resource for biologists physiologists and bacteriologists

Investigation of the mitochondrial contact site and cristae organizing system and its role in cristae formation Till Stephan, 2020 Mitochondria are essential organelles in eukaryotic cells that feature a unique double membrane architecture The mitochondrial inner membrane forms numerous invaginations named cristae which can adopt different shapes and sizes The cristae membrane harbors the protein machinery that facilitates the function of mitochondria as powerhouses of the cell Small openings referred to as crista junctions connect the cristae membrane to the inner boundary membrane which runs in parallel to the outer membrane The intricate shape of the inner membrane is determined by a set of membrane shaping

Molecular Biology of the Cell , 2002

The Dynamic Nature of Mitochondria Andreas S. Reichert, 2024-04-15 Mitochondrial research has exploded over the last 150 years This book gives an amazing view on a conceptual change in our understanding of mitochondrial biology It becomes clear that mitochondria are extremely dynamic in nature controlling life at multiple levels Mitochondria rule energy conversion adapt cells well to changing stress and nutrient conditions and regulate many cellular processes including immunity The dynamic nature of mitochondria occurs at an intramitochondrial level but also includes its ability to interact with other organelles and to modulate multiple signalling pathways It is thus not surprising that alterations or inabilities to ensure this dynamic behaviour is linked to ageing and human diseases The following sections give an updated view on mitochondria Mitochondrial ultrastructure molecular mechanisms shaping the inner membrane Mitochondrial cristae and lipid dynamics from super resolution microscopy to lipid OXPHOS interplay Mitochondrial control of cellular homeostasis from redox signalling to interorganellar contact sites Mitochondria in health and disease from mtDNA release to Complex I assembly Advanced methods in mitochondrial biology and metabolism research Integrative view on mitochondrial research and outlook The field of mitochondrial research has always been full of surprises and has helped science to advance tremendously It developed hand in hand with landmark developments in technology such as super resolution microscopy nanoscopy and is currently influencing an increasing number of scientific disciplines There is still much new to find out about this old organelle and I think that you can find interesting and also unexpected aspects of mitochondrial biology in this book I hope the book will enhance your scientific curiosity and inspire your own research

Ultrastructural Pathology of the Cell and Matrix Feroze N. Ghadially, 2013-10-22 *Ultrastructural Pathology of the Cell and Matrix* Third Edition Volume I presents a comprehensive examination of the intracellular lesion. It discusses the analysis of pathological tissues using electron microscope. It addresses the experimental procedures made on the cellular level. Some of the topics covered in the book are the physiological analysis of the nucleus, nuclear matrix, interchromatin and perichromatin granules, structure and function of centrioles, characteristics of mitochondria, Golgi complex in cell differentiation and neoplasia, and degranulation of rough endoplasmic reticulum. The intracytoplasmic and intranuclear annulate lamellae are fully covered. An in-depth account of the classification, history, and nomenclature of lysosomes are provided. The morphology and normal variations of melanosomes and anchoring fibrils are completely presented. A chapter is devoted to the endocytotic structures and cell processes. Another section focuses on the classification and nomenclature of fibrous components. The book can provide useful information to cytologists, scientists, students, and researchers.

Scanning Electron Microscopy for the Life Sciences Heide Schatten, 2013. A guide to modern scanning electron microscopy instrumentation, methodology, and techniques highlighting novel applications to cell and molecular biology.

Wiring the Adaptive Response of Mitochondria to Metabolic Transitions Aditi Sood, 2015. It is well established in cultured models that mitochondrial dynamics and cristae remodeling regulate mitochondrial function under different stress conditions such as starvation and apoptosis. Despite the tremendous amount of research in this field, relatively little is known about the significance of mitochondrial dynamics and ultrastructure remodeling under normal physiological conditions in vivo. In the 1960s, Hackenbrock demonstrated that isolated mitochondria adopt distinct internal conformations under different metabolic states. Based on these observations, he predicted that mitochondrial ultrastructural changes regulate the organelles' functional output. However, whether these ultrastructural changes also accompany metabolic transitions in vivo under physiological conditions is not known. Further, hepatic metabolism requires mitochondria to adapt their bioenergetic and biosynthetic output to the ever-changing anabolic/catabolic state of the liver cell, but the wiring of this process is still largely elusive. In this study, we provide the first in vivo quantitative description of the adaptive response of the mitochondrial reticulum to hepatic metabolic transitions. Using a postprandial mouse liver model and quantitative cryo-EM analysis, we show that at 5 hours after feeding, the mTORC1 signaling is blocked, the mitochondria network fragments, the cristae density decreases, and the mitochondrial respiratory capacity drops. These changes are accompanied with a parallel increase in the mitochondria-ER contact (MERCs) lengths, which control calcium and phospholipids fluxes between the two organelles. Further, these events are associated with the transient expression of two previously unidentified C-terminal fragments (CTFs) of Optic atrophy 1 (OPA1), a mitochondrial GTPase that regulates cristae and mitochondrial dynamics. Using an in vitro assay, we show that these CTFs originate from a novel OPA1 processing termed C-cleavage that eliminates OPA1 activity by breaking off the GTPase. Importantly, we show that C-cleavage requires the presence of Mitofusin 2 (MFN2), a key regulator of mitochondria fusion and MERCs biogenesis, but not that of its homolog Mitofusin 1 (MFN1), thereby linking cristae remodeling to MERCs assembly.

Mitochondria: Structure, Biogenesis and Transducing Functions H. Tedeschi, 2012-12-06 In the past few years the body of experimental work on the structure function and assembly processes of mitochondria has expanded rapidly No one person can believe himself or herself completely in control of the burgeoning literature without possessing serious omissions or blind spots In the present monograph I have attempted a critical evaluation of the literature I believe that the common thread of single authorship outweighs the shortcomings of one person presenting many disparate viewpoints It is my hope that the end product represents a comprehensive and coordinated review of the subject matter to the present date Although the bulk of this monograph was completed by October 1974 I have made some attempts to update several of the sections at later times Albany N Y November 1975 H TEDESCHI Contents A Structure of Mitochondria 1 General Organization a Conventional Thin Section Electron Microscopy b Negative Staining Techniques 3 c Freeze Cleavage 4 2 Special Organization and Inclusions 10 a Prismatic or Atypical Cristae 10 b Filaments and Tubules 11 c Amorphous Inclusions 12 d Intramitochondrial Granules 12 e DNA Containing Fibers 14 3 Topography of the Mitochondrial Transducing Systems 15 B The Assembly of Mitochondria 18 1 Mitochondrial DNA and Its Genetic Role 19 2 Transcription of the Mitochondrial DNA 28 a mRNA 30 b The Machinery for Transcription and Translation 32 c Turnover of Mitochondrial RNA 36 3 Protein Synthesis 37 a Mitochondrial Protein Synthesis and Its Characteristics 37 b Role of Mitochondrial Protein Synthesis

Comprehensive Biophysics , 2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other's research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for reinforcing their existing knowledge Biophysical research today encompasses many areas of biology These studies do not necessarily share a unique identifying factor This work unites the different areas of research and allows users regardless of their background to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of biophysics counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Biophysics fills this vacuum being a definitive work on biophysics It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research Chief Editor Edward Egelman E I C Biophysical Journal has assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource

Mitochondria and Anaerobic Energy Metabolism in Eukaryotes William F. Martin,Aloysius G. M. Tielens,Marek Mentel,2020-12-07 Mitochondria are sometimes called the powerhouses of eukaryotic cells because mitochondria are the site of ATP synthesis in the cell ATP is the universal energy currency it provides the power that runs all other life processes Humans need oxygen to survive because of ATP synthesis in mitochondria The sugars from our diet are converted to carbon dioxide in mitochondria in a process that requires oxygen Just like a fire needs oxygen to burn our mitochondria need oxygen to make ATP From textbooks and popular literature one can easily get the impression that all mitochondria require oxygen But that is not the case There are many groups of organisms known that make ATP in mitochondria without the help of oxygen They have preserved biochemical relicts from the early evolution of eukaryotic cells which took place during times in Earth history when there was hardly any oxygen available certainly not enough to breathe How the anaerobic forms of mitochondria work in which organisms they occur and how the eukaryotic anaerobes that possess them fit into the larger picture of rising atmospheric oxygen during Earth history are the topic of this book

Age-dependent Decreases of Mitochondrial Cristae in Liver and Left Ventricle of the Mouse Emmett Lee Tate,1974

Principles of Biology Lisa Barteo,Walter Shiner,Catherine Creech,2017 The Principles of Biology sequence BI 211 212 and 213 introduces biology as a scientific discipline for students planning to major in biology and other science disciplines Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research

Clinical Mitochondrial Medicine Patrick F. Chinnery,Michael J. Keogh,2018-05-17 This interactive clinical textbook takes a system and case based approach in understanding mitochondrial disorders in clinical practice

Anoxygenic Photosynthetic Bacteria R.E. Blankenship,Michael T. Madigan,C.E. Bauer,2006-04-11 Anoxygenic Photosynthetic Bacteria is a comprehensive volume describing all aspects of non oxygen evolving photosynthetic bacteria The 62 chapters are organized into themes of Taxonomy physiology and ecology Molecular structure of pigments and cofactors Membrane and cell wall structure Antenna structure and function Reaction center structure and electron proton pathways Cyclic electron transfer Metabolic processes Genetics Regulation of gene expression and applications The chapters have all been written by leading experts and present in detail the current understanding of these versatile microorganisms The book is intended for use by advanced undergraduate and graduate students and senior researchers in the areas of microbiology genetics biochemistry biophysics and biotechnology

Cell Biology by the Numbers Ron Milo,Rob Phillips,2015-12-07 A Top 25 CHOICE 2016 Title and recipient of the CHOICE Outstanding Academic Title OAT Award How much energy is released in ATP hydrolysis How many mRNAs are in a cell How genetically similar are two random people What is faster transcription or translation Cell Biology by the Numbers explores these questions and dozens of others provid

Modern Trends in Structural and Solid Mechanics 3 Noel Challamel, Julius Kaplunov, Izuru Takewaki, 2021-06-29 This book comprised of three separate volumes presents the recent developments and research discoveries in structural and solid mechanics it is dedicated to Professor Isaac Elishakoff This third volume is devoted to non deterministic mechanics Modern Trends in Structural and Solid Mechanics 3 has broad scope covering topics such design optimization under uncertainty interval field approaches convex analysis quantum inspired topology optimization and stochastic dynamics The book is illustrated by many applications in the field of aerospace engineering mechanical engineering civil engineering biomedical engineering and automotive engineering This book is intended for graduate students and researchers in the field of theoretical and applied mechanics

BCL-2 Protein Family Claudio Hetz, 2011-01-12 In this book scientists pioneering the field have compiled a series of focused chapters to highlight the relevance of the BCL 2 family of proteins in apoptosis physiology and disease An important focus of this volume is considering the potential TH ERA PEUT IC benefits of targeting apoptosis pathways in the context of human disease Readers interested in understanding how a cell handles stress and the consequences of dysregulation of this process for human disease will find this book very valuable It attempts to describe a fascinating area of research where physiology and biomedicine converge at different levels revealing a trip from the molecular regulation of apoptosis to the impact of this process to the physiology of a whole organism

Mitochondria in Health and Diseases Sabzali Javadov, Andrey V Kozlov, Amadou K S Camara, 2020-09-04 Mitochondria are subcellular organelles evolved by the endosymbiosis of bacteria with eukaryotic cells They are the main source of ATP in the cell and engaged in other aspects of cell metabolism and cell function including the regulation of ion homeostasis cell growth redox status and cell signaling Due to their central role in cell life and death mitochondria are also involved in the pathogenesis and progression of human diseases conditions including neurodegenerative and cardiovascular disorders cancer diabetes inflammation and aging However despite the increasing number of studies precise mechanisms whereby mitochondria are involved in the regulation of basic physiological functions as well as their role in the cell under pathophysiological conditions remain unknown A lack of in depth knowledge of the regulatory mechanisms of mitochondrial metabolism and function as well as interplay between the factors that transform the organelle from its role in pro survival to pro death have hindered the development of new mitochondria targeted pharmacological and conditional approaches for the treatment of human diseases This book highlights the latest achievements in elucidating the role of mitochondria under physiological conditions in various cell animal models of human diseases and in patients

Mitochondria in Higher Plants Roland Douce, 2012-12-02 Mitochondria in Higher Plants Structure Function and Biogenesis is a collection and interpretation of information on plant mitochondria It explains not only the basic enzymology of ATP synthesis coupled to electron transport that seems to constitute the major activity of the mitochondria but also many other aspects that make plant mitochondria rather more diverse than their animal counterparts Organized into five chapters this book begins with the morphological and cytological observations on mitochondria and proceeding through membrane and matrix functions to participation in metabolism and biogenesis Each section presents the unique properties of plant mitochondria within the framework of general mitochondrial structure and function This book is intended not only for research workers and students interested in the enzymology of plant mitochondria respiration but also for graduate and undergraduate students in the field of plant biochemistry cell physiology and molecular biology It will be useful as a starting point for those students wishing to pursue special studies in this field

Characterization of Inner Mitochondrial Membrane Architecture Mariam Barbot, 2016 The inner membrane of mitochondria is extensively folded and displays a complex architecture Cristae junctions are highly curved tubular openings that separate the cristae membrane from the inner boundary membrane They play a central role in many vital cellular processes e g apoptosis by compartmentalizing the inner membrane into morphologically and functionally distinct regions The mitochondrial contact site and cristae organizing system MICOS is a conserved multi subunit protein complex which is found to be enriched at cristae junctions The complex is believed to be necessary

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