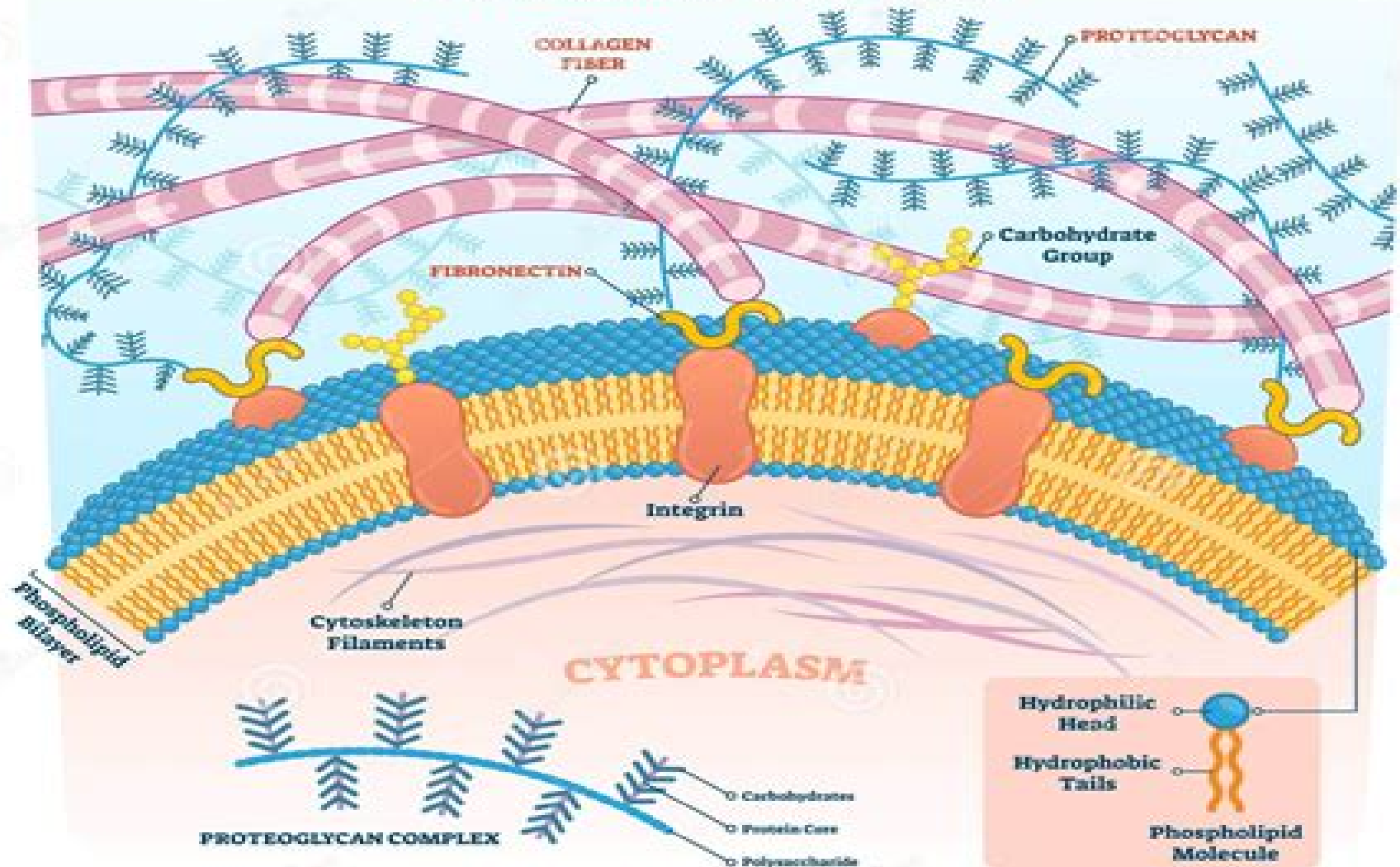


Extracellular Matrix

EXTRACELLULAR ENVIRONMENT



Extracellular Matrix

Thomas Kreis, Ronald Vale



Extracellular Matrix:

The Extracellular Matrix: an Overview Robert Mecham, 2011-02-16 Knowledge of the extracellular matrix ECM is essential to understand cellular differentiation tissue development and tissue remodeling This volume of the series Biology of Extracellular Matrix provides a timely overview of the structure regulation and function of the major macromolecules that make up the extracellular matrix It covers topics such as collagen types and assembly of collagen containing suprastructures basement membrane fibronectin and other cell adhesive glycoproteins proteoglycans microfibrils elastin fibulins and matricellular proteins such as thrombospondin It also explores the concept that ECM components together with their cell surface receptors can be viewed as intricate nano devices that allow cells to physically organize their 3 D environment Further the role of the ECM in human disease and pathogenesis is discussed as well as the use of model organisms in elucidating ECM function

Guidebook to the Extracellular Matrix, Anchor, and Adhesion Proteins Thomas Kreis, Ronald Vale, 1999 Intended for postgraduate and professional researchers in biochemistry biomedical sciences and cell biology this text offers a guide to the extracellular matrix and adhesion proteins

The Extracellular Matrix: an Overview Robert Mecham, 2011-03-25 Knowledge of the extracellular matrix ECM is essential to understand cellular differentiation tissue development and tissue remodeling This volume of the series Biology of Extracellular Matrix provides a timely overview of the structure regulation and function of the major macromolecules that make up the extracellular matrix It covers topics such as collagen types and assembly of collagen containing suprastructures basement membrane fibronectin and other cell adhesive glycoproteins proteoglycans microfibrils elastin fibulins and matricellular proteins such as thrombospondin It also explores the concept that ECM components together with their cell surface receptors can be viewed as intricate nano devices that allow cells to physically organize their 3 D environment Further the role of the ECM in human disease and pathogenesis is discussed as well as the use of model organisms in elucidating ECM function

Structure and Function of the Extracellular Matrix Bela Suki, 2021-11-27 Structure and Function of the Extracellular Matrix A Multiscale Quantitative Approach introduces biomechanics and biophysics with applications to understand the biological function of the extracellular matrix in health and disease A general multiscale approach is followed by investigating behavior from the scale of single molecules through fibrils and fibers to tissues of various organ systems Through mathematical models and structural information quantitative description of the extracellular matrix function is derived with tissue specific details The book introduces the properties and organization of extracellular matrix components and quantitative models of the matrix and guides the reader through predicting functional properties This book integrates evolutionary biology with multiscale structure to quantitatively understand the function of the extracellular matrix This approach allows a fresh look into normal functioning as well as the pathological alterations of the extracellular matrix Professor Suki s book is written to be useful to undergraduates graduate students and researchers interested in the quantitative aspects of the extracellular

matrix Researchers working in mechanotransduction respiratory and cardiovascular mechanics and multiscale biomechanics of tendon cartilage skin and bone may also be interested in this book Examines the evolutionary origins and consequences of the extracellular matrix Delivers the first book to quantitatively treat the extracellular matrix as a multiscale system Presents problems and a set of computational laboratory projects in various chapters to aid teaching and learning Provides an introduction to the properties and organization of the extracellular matrix components Methods in Extracellular Matrix Biology, 2018-01-05 Methods in Extra Cellular Matrix Volume 142 a new volume in the Methods in Cell Biology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Unique to this updated volume are sections devoted to Elastin Quantification of collagen and elastin Fibrillins Lysyl oxidase Fibulins Matrilins Hyaluronic Acid Small leucine rich proteoglycans Syndecans Fibronectin SPARC Thrombospondins Tenascins Collagen IV Multi photon analysis of ECM Cell derived extracellular matrices Laminins Fibrillar Collagens Imaging ECM in developing embryos Analysis of Matrix Degradation Ultrastructural analysis of ECM Versican and Large proteoglycans and an ECM crosslink analysis This series covers a wide array of topics about the extracellular matrix including an understanding of crucial proteins and glycoproteins components of ECM Contains contributions from experts in the field from across the world Covers a wide array of topics on the extracellular matrix including an understanding crucial proteins and the glycoproteins components of ECM Includes analysis based topics such as quantification of collagen and elastin mulit photon analysis of ECM and ECM crosslink analysis Extracellular Matrix Susan Hawkes, 2012-12-02 Extracellular Matrix contains the proceedings of the symposium The Extracellular Matrix sponsored by the Michigan Molecular Institute and held in Midland Michigan on June 28 July 2 1982 The papers explore the role played by the extracellular matrix ECM in the physiology of a cell particularly in the regulation of cellular phenotypes differentiation and proliferation The progress made in isolating and defining the chemistry and functional interactions of the ECM components is discussed along with the biology of the ECM This book is comprised of 52 chapters and begins with an introduction to the ECM with emphasis on the question of whether the malignant process can be defined in a cell culture model and in particular whether the pericellular matrix is characteristically altered in cancer The discussion then turns to the structure of the heparan sulfate proteoglycans and the molecular mechanisms responsible for the association of these molecules with the surfaces of cultured cells Subsequent chapters focus on the chemistry of ECM components such as collagen glycosaminoglycans and adhesive glycoproteins along with their functional interactions biosynthesis turnover and degradation The final section is devoted to the diseased states of ECM This monograph should serve as a valuable reference for biochemists as well as undergraduate and graduate students of biochemistry **Extracellular Matrix Degradation** William C. Parks, Robert Mecham, 2011-04-07 Regulated turnover of extracellular matrix ECM is an important component of tissue homeostasis In recent years the enzymes that participate in and control ECM turnover have been the focus of research that touches on development tissue remodeling inflammation and

disease This volume in the Biology of Extracellular Matrix series provides a review of the known classes of proteases that degrade ECM both outside and inside the cell The specific EMC proteases that are discussed include cathepsins bacterial collagenases matrix metalloproteinases meprins serine proteases and elastases The volume also discusses the domains responsible for specific biochemical characteristics of the proteases and the physical interactions that occur when the protease interacts with substrate The topics covered in this volume provide an important context for understanding the role that matrix degrading proteases play in normal tissue remodeling and in diseases such as cancer and lung disease

The Extracellular Matrix Factsbook Shirley Ayad, Ray Boot-Handford, Martin Humphries, Karl Kadler, Adrian Shuttleworth, 1998-03-27 The Second Edition of The Extracellular Matrix FactsBook has been completely revised updated and expanded by over 50 percent It contains over 85 entries on the diverse group of macromolecules that assemble to form the extracellular matrix Entries provide information on molecular structure isolation primary structure structural and functional sites gene structure database accession numbers and key references Key Features Compiled by members of one of the foremost centers of matrix biochemistry in the world Contains over 30 new entries with all previous entries being revised and updated Includes new entries on proteinases involved in the deposition of the extracellular matrix Presents 3D ribbon diagrams in cases where the protein structure is now known

Extracellular Matrix in Development Douglas W. DeSimone, Robert Mecham, 2013-03-15 Cells in the developing embryo depend on signals from the extracellular environment to help guide their differentiation An important mediator in this process is the extracellular matrix secreted macromolecules that interact to form large protein networks outside the cell During development the extracellular matrix serves to separate adjacent cell groups participates in establishing morphogenic gradients and through its ability to interact directly with cell surface receptors provides developmental clocks and positional information This volume discusses how the extracellular matrix influences fundamental developmental processes and how model systems can be used to elucidate ECM function The topics addressed range from how ECM influences early development as well as repair processes in the adult that recapitulate developmental pathways

Extracellular Matrix W.D. Comper, 1996-06-30 Looking at the area of the extracellular matrix of connective tissue including the results and concepts which have recently been generated this text describes the structural characteristics of extracellular molecules and discusses the interaction between the cell and the extracellular matrix

Composition and Function of the Extracellular Matrix in the Human Body Francesco Travascio, 2016-06-15 The extracellular matrix ECM is an ensemble of non cellular components present within all tissues and organs of the human body The ECM provides structural support for scaffolding cellular constituents and biochemical and biomechanical support for those events leading to tissue morphogenesis differentiation and homeostasis Essential components of all ECMs are water proteins and polysaccharides However their composition architecture and bioactivity greatly vary from tissue to tissue in relation to the specific role the ECM is required to assume This book overviews the role of the ECM in different tissues and

organs of the human body Extracellular Matrix Assembly and Structure Peter D. Yurchenco, 2013-10-22 The complex and critical process of extracellular matrix ECM assembly is described in this book Assembly may involve molecules interacting with molecules of the same matrix class such as in collagen or interactions between different ECM molecules such as in basement membranes The text shows how this is driven by structural information within the matrix monomer This information will be of interest to cell developmental and molecular biologists biochemists biophysicists and biomedical researchers involved in macromolecular assembly biological macromolecules and extracellular matrix Addresses assembly of most of the known classes of extracellular matrix macromolecules Discusses higher order structures produced by ECM Gives important concepts in ECM and cell matrix interactions Protein structure and protein protein interactions Development and tissue remodeling Cell Biology of Extracellular Matrix E.D. Hay, 1991-12-31 In the ten year interval since the first edition of this volume went to press our knowledge of extracellular matrix ECM function and structure has enormously increased Extracellular matrix and cell matrix interaction are now routine topics in the meetings and annual reviews sponsored by cell biology societies Research in molecular biology has so advanced the number of known matrix molecules and the topic of gene structure and regulation that we wondered how best to incorporate the new material For example we deliberated over the inclusion of chapters on molecular genetics We decided that with judicious editing we could present the recent findings in molecular biology within the same cell biology framework that was used for the first edition using three broad headings what is extracellular matrix how is it made and what does it do for cells Maintaining control over the review of literature on the subject of ECM was not always an easy task but we felt it was essential to production of a highly readable volume one compact enough to serve the student as an introduction and the investigator as a quick update on graduate the important recent discoveries The first edition of this volume enjoyed considerable success we hope the reader finds this edition equally useful

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Evolution of Extracellular Matrix Fred W. Keeley, Robert Mecham, 2013-03-15 The evolution of single cells into multicellular organisms was mediated in large part by the extracellular matrix The proteins and glycoconjugates that make up the extracellular matrix provide structural support to cellular complexes facilitate cell adhesion and migration and impart mechanical properties that are important for tissue function Each class of ECM macromolecule has evolved to incorporate distinctive properties that are defined by conserved modules that are mixed together to achieve appropriate function This volume provides a comprehensive analysis of how the major ECM components evolved over time in order to fill their specific roles found in modern organisms The major focus is on the structural matrix proteins matricellular proteins and more complex ECM structures such as basement membranes Adhesive proteins and their receptors are also discussed

Extracellular Matrix Biology Richard O. Hynes, Kenneth M. Yamada, 2012 In most tissues cells are surrounded by an

extracellular matrix ECM containing proteins such as collagen laminin and fibronectin The ECM plays an important role in regulating cell function ECM proteins bind to integrins and other cell surface receptors activating signaling pathways that regulate cellular morphology adhesion cell migration cell proliferation and apoptosis Written and edited by experts in the field this collection from Cold Spring Harbor Perspectives in Biology covers all aspects of ECM composition and function as well as alterations in the ECM that occur during development tumorigenesis and other disease states The contributors examine the various ECM proteins and proteoglycans ECM receptors such as integrins and the signaling pathways that mediate the effects of the ECM on cells They also describe ECM functions in specific biological contexts including angiogenesis hemostasis and thrombosis Covering not only the biochemistry and cell biology of the ECM but also its roles in development physiology and pathology this volume is an indispensable reference for cell biologists and all those interested in exploring the myriad functions of the ECM

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The Cell Geoffrey M. Cooper,Kenneth Adams,2022-10-26 The Cell outlines the fundamental events related to cell biology and how they impact a wide array of diseases through numerous cell types and mechanisms New embedded resources including self assessment and expanded data analysis problems further facilitate student learning

Elastin and Elastases Ladislav Robert,William Hornebeck,1989-04-30 Written by internationally known European and American scientists these volumes systematically present many topics in the elastin and elastases fields Volume I explains elastin its biosynthesis physicochemical properties and alteration in a variety of pathologies and with aging Volume II describes elastases their physiological and pathological roles and their control by natural and synthetic inhibitors Filled with illustrations and figures these volumes will benefit researchers physicians and industrial scientists

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