

Huang-Ge Zhang *Editor*

Emerging Concepts of Tumor Exosome— Mediated Cell—Cell Communication

 Springer

Emerging Concepts Of Tumor Exosome Mediated Cell Cell Communication

Nicholas Delihias



Emerging Concepts Of Tumor Exosome Mediated Cell Cell Communication:

Emerging Concepts of Tumor Exosome-Mediated Cell-Cell Communication Huang-Ge Zhang,2012-09-06 In multicellular organisms communication between cells involves secretion of proteins that bind to receptors on neighboring cells While this has been well documented another mode of intercellular communication has recently become the subject of increasing interest the release of exosomes In cancer tumor exosomes are involved in various aspects of pathogenesis including proliferation immunosuppression and metastasis Given the ability of exosomes to export unneeded endogenous molecules from cells these structures hold great potential as anticancer therapeutic agents They are also being studied as prognostic markers for cancer *Emerging Concepts of Tumor Exosome-Mediated Cell-Cell Communication* ,2012-09-07

Transcriptomics in Health and Disease Geraldo A. Passos,2022-03-07 The study of transcriptomics is key to understanding complex diseases This new edition will build on the foundation of the first edition while incorporating the progress that has been made in the field of transcriptomics in the past six years including bioinformatics for data analysis Written by leading experts chapters address new subjects such as methodological advances in large scale sequencing the sequencing of single cells and spatial transcriptomics The new edition will address how transcriptomics may be used in combination with genetic strategies to identify causative genes in monogenic and complex genetic diseases Coverage will also explore transcriptomics in challenging groups of diseases such as cancer inflammation bacterial infection and autoimmune diseases The updated volume will be useful for geneticists genome biologists biomedical researchers molecular biologists bioinformaticians and students among others **Nanomedicines** ,2019-02-13 Nanomedicine is the application of nanotechnology in medicines at an atomic molecular and supramolecular level Nanomedicine covers a wide range of topics from the development of nanomaterials for use in medicines to the synthesis of nanomedicines with their multiple applications The major focus of the book is on developments in nanomedicines and their effectiveness compared to conventional drugs Some drugs are administered twice daily for days and weeks However the frequency of administration and dosage of drugs can be reduced to increase patient compliance when prepared at the nanoscale level with polymers etc This book contains five chapters from leading scientists working in the area of nanomedicines Particular topics that are highlighted are exosomes nanoantimicrobial solutions transeosomes nanoethosomes nanoparticles multifunctional drugs and natural dietary products **Regulation by non-coding RNAs Volume 1** Nicholas Delihis,2018-10-09 Printed Edition of the Special Issue Published in IJMS

Advances in Clinical Chemistry Gregory S. Makowski,2021-07-04 Advances in Clinical Chemistry Volume 103 the latest installment in this internationally acclaimed series contains chapters authored by world renowned clinical laboratory scientists physicians and research scientists The serial discusses the latest and most up to date technologies related to the field of clinical chemistry It is the benchmark publication for novel analytical approaches in the clinical laboratory Provides the most up to date technologies in clinical chemistry and clinical laboratory science

Authored by world renowned clinical laboratory scientists physicians and research scientists Presents the international benchmark for novel analytical approaches in the clinical laboratory **Biological Individuality** Scott Lidgard,Lynn K Nyhart,2017-05-24 Individuals are things that everybody knows or thinks they do Yet even scholars who practice or analyze the biological sciences often cannot agree on what an individual is and why One reason for this disagreement is that the many important biological individuality concepts serve very different purposes defining classifying or explaining living structure function interaction persistence or evolution Indeed as the contributors to Biological Individuality reveal nature is too messy for simple definitions of this concept organisms too quirky in the diverse ways they reproduce function and interact and human ideas about individuality too fraught with philosophical and historical meaning Bringing together biologists historians and philosophers this book provides a multifaceted exploration of biological individuality that identifies leading and less familiar perceptions of individuality both past and present what they are good for and in what contexts Biological practice and theory recognize individuals at myriad levels of organization from genes to organisms to symbiotic systems We depend on these notions of individuality to address theoretical questions about multilevel natural selection and Darwinian fitness to illuminate empirical questions about development function and ecology to ground philosophical questions about the nature of organisms and causation and to probe historical and cultural circumstances that resonate with parallel questions about the nature of society Charting an interdisciplinary research agenda that broadens the frameworks in which biological individuality is discussed this book makes clear that in the realm of the individual there is not and should not be a direct path from biological paradigms based on model organisms through to philosophical generalization and historical reification *Biomarkers in Cancer Screening and Early Detection* Sudhir Srivastava,2017-06-07 Prepared by world leaders on this topic Biomarkers in Cancer Screening and Early Detection offers a comprehensive state of the art perspective on the various research and clinical aspects of cancer biomarkers from their discovery and development to their validation clinical utility and use in developing personalized cancer treatment Offers a comprehensive state of the art perspective on the various research and clinical aspects of cancer biomarkers Provides immediately actionable information and hopefully also inspiration to move discovery and clinical application forward Offers vital knowledge to help develop personalized cancer treatment for individual patients with specific cancers Biology of Mesenchymal Stromal Cells -Emerging New Concepts to Improve Function and Scalability Tokiko Nagamura-Inoue,Willem Fibbe ,Keiya Ozawa,2024-10-28 Human mesenchymal stromal cells MSCs can be harvested from many tissues including bone marrow BM cord blood CB adipose tissue umbilical cord UC placenta and others In recent years there has been an overwhelming interest in MSC as reflected in the number of reports regarding their characterization biological properties and clinical application One of the specific areas of research involves the characterization of MSCs derived from different sources as well as the potential differences between them More recently reports have been published on derivatives from MSCs such as extracellular vesicles EVs exosomes and

mitochondria but their characterization mechanisms of action in immunomodulatory functions and regeneration aspects have not been fully elucidated

Tumor Metastasis Ke Xu, 2016-09-14 The key aim of the proposed chapter is to provide readers a brief description for the most important parts of the field of circulating tumor cells CTCs the core techniques including negative and positive selection based CTC isolation and the differences between them Most importantly we will also review the clinical applications and important findings in clinical trials The evidence based review will not only help clinicians use CTCs to predict recurrence and foresee the disease related outcomes but also to inspire the researchers in this field to conduct further investigations

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