

Dagmar Wilhelm
Pascal Bernard *Editors*

Non-coding RNA and the Reproductive System

Non Coding Reproductive Advances Experimental Medicine

M.R.S. Rao



Non Coding Reproductive Advances Experimental Medicine:

Non-coding RNA and the Reproductive System Dagmar Wilhelm,Pascal Bernard,2015-12-11 This book provides an overview of the role and function of regulatory RNAs that lack protein coding potential in key reproductive tissues This includes the role of small interfering RNAs siRNAs microRNAs miRNAs PIWI interacting RNAs piRNAs small nucleolar RNAs snoRNAs and long non coding RNAs lncRNAs Through clear detailed and comprehensive debate international leading experts discuss the role these novel regulators in normal development of sexual dimorphisms including the differentiation of ovaries and testes the genital tract including prostate epididymis and uterus as well as mammary glands In addition particular attention is paid on their role in pathophysiological processes within the reproductive tract The power of next generation sequencing has proved to be an invaluable tool to discover new non coding RNAs While the identification of non coding RNA is relatively easy analysing their function represents still a challenge today In this book authors present historical and conceptual background information highlight the ways in which non coding RNAs function is analysed and present their vision of the future research in their key research area

Epigenetics - Regulation and New Perspectives

Tao Huang,2023-11-08 Epigenetics plays a crucial role in regulating gene expression particularly in the field of transcriptomics Dysfunctions in epigenetics have been identified as key factors in the development of cancer and numerous complex diseases This book presents the most recent advancements in epigenetics omics technologies and their utilization in understanding the mechanisms of cancer and complex diseases We hope that this book will serve as an enlightening resource broadening the horizons of our readers and motivating them to explore the potential of integrating multi omics data for investigating epigenetic regulations in different biomedical scenarios

Encyclopedia of Reproduction

,2018-06-29 Encyclopedia of Reproduction Second Edition Six Volume Set comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics As reproductive health is a fundamental component of an individual s overall health status and a central determinant of quality of life this book provides the most extensive and authoritative reference within the field Provides a one stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope

Recent Advances in Noncoding RNAs Lütfi Tutar,2022-11-02 The discovery of noncoding RNAs ncRNAs is changed our understanding of genome transcriptome and interactions with proteome in a cell Since the discovery of the first

microRNA miRNA called lin 4 on *Caenorhabditis elegans* in 1993 our understanding of gene expression has deepened Further miRNA discoveries have led to the investigation of new ncRNA families and their function biogenesis and interactions with other types of molecules Recent developments in bioinformatics public databases sequencing technologies and biochemical techniques have increased our understanding of the biogenesis function and interactions of ncRNAs This book provides an overview of current ncRNA research dealing with human diseases and cancer and plant miRNAs

Cardiac Hypertrophy: From Compensation to Decompensation and Pharmacological Interventions Hai-Gang Zhang, Ya Liu, Xiongwen Chen, 2021-06-28 **Long Noncoding RNA** Susan Carpenter, 2022-02-27 This book brings together what is currently known in terms of basic research in the field of long noncoding RNAs lncRNAs and builds on this to delve more deeply in the specific roles that lncRNAs are playing during inflammation The book provides readers with basic knowledge on lncRNAs from understanding the complexity of the transcriptome conservation structure and the tools used to investigate these aspects to how we use this information to study lncRNAs in a specific biological context The volume covers the emerging roles of lncRNAs in the initial stages of inflammation as well as their roles in specific inflammatory diseases including arthritis lupus diabetes and cardiovascular disease The book also shows the emerging interest in using lncRNAs as a therapeutic target and how this could impact our ability to diagnose and treat inflammatory diseases in the future

Non-coding RNAs in Cardiovascular Diseases Junjie Xiao, 2020-04-13 This book presents the latest research on non coding RNAs in cardiovascular disease a major cause of death worldwide Non coding RNAs play a significant role in development proliferation differentiation and apoptosis Since altered non coding RNA expression is often associated with various diseases their potential use in diagnostics prognostics and therapeutics is an important current area of study The book consists of six parts 1 An overview of non coding RNAs and cardiovascular system 2 Bioinformatics and interactions 3 Non coding RNA regulation in cardiovascular system 4 Non coding RNAs and cardiovascular diseases 5 Potential biomarkers and therapeutic implications 6 Future prospects It is particularly useful for researchers and students in the field of non coding RNA and cardiovascular biology as well as for cardiologists pharmacologists and physiologists Non-coding RNAs in Colorectal Cancer Ondrej Slaby, George A. Calin, 2016-08-29 This is the first book to provide a broad framework for obtaining an in depth understanding of the state of the art knowledge on abnormalities of non coding RNAs found to be associated with colorectal cancer pathogenesis Readers will discover possible mechanisms underlying the substantial roles played by non coding RNAs in molecular hallmarks of colorectal cancer This work further provides the comprehensive overview and novel insights into using of non coding RNAs as colorectal cancer biomarkers enabling early detection of the disease prognostic stratification of the patients and prediction of therapeutic response The reader is introduced to the overview of modern non coding RNAs based therapeutic strategies and summary of their preclinical testing performed in colorectal cancer The work is written for researchers who want to explore current state of the knowledge in this interesting

field of molecular oncology The Long and Short Non-coding RNAs in Cancer Biology Erwei Song, 2016-07-04 The book conveys a comprehensive knowledge of long and short ncRNAs in cancer regulation and their potentials as diagnostic biomarkers and therapeutic targets Topics covered include the molecular mechanisms of various classes of ncRNAs with emphasis on long non coding RNAs and microRNAs in cancer the functional roles of ncRNAs in regulating different cancer hallmarks including proliferation apoptosis stem cell properties epithelial mesenchymal transition metabolism angiogenesis tumor host interactions and therapeutic resistance the role of ncRNAs in regulating cancer signaling circuitry programs highlighting their involvement in c myc p53 and NFkB signaling a systemic summary of clinical and preclinical studies that evaluate the potential of ncRNA signatures for cancer diagnosis and prognosis and strategies to delivery short ncRNAs as therapeutic molecules for cancer treatment This book may serve as a comprehensive resource for researchers graduate students and oncologists in ncRNA and cancer research and help drug development by identifying ncRNA targets **Long Non Coding RNA Biology** M.R.S. Rao, 2017-08-16 This contributed volume offers a comprehensive and detailed overview of the various aspects of long non coding RNAs and discusses their emerging significance Written by leading experts in the field it motivates young researchers around the globe and offers graduate and postgraduate students fascinating insights into genes and their regulation in eukaryotes and higher organisms

Unveiling the Magic of Words: A Overview of "**Non Coding Reproductive Advances Experimental Medicine**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Non Coding Reproductive Advances Experimental Medicine**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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Table of Contents Non Coding Reproductive Advances Experimental Medicine

1. Understanding the eBook Non Coding Reproductive Advances Experimental Medicine
 - The Rise of Digital Reading Non Coding Reproductive Advances Experimental Medicine
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Coding Reproductive Advances Experimental Medicine
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Non Coding Reproductive Advances Experimental Medicine
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Coding Reproductive Advances Experimental Medicine
 - Personalized Recommendations
 - Non Coding Reproductive Advances Experimental Medicine User Reviews and Ratings
 - Non Coding Reproductive Advances Experimental Medicine and Bestseller Lists

5. Accessing Non Coding Reproductive Advances Experimental Medicine Free and Paid eBooks
 - Non Coding Reproductive Advances Experimental Medicine Public Domain eBooks
 - Non Coding Reproductive Advances Experimental Medicine eBook Subscription Services
 - Non Coding Reproductive Advances Experimental Medicine Budget-Friendly Options
6. Navigating Non Coding Reproductive Advances Experimental Medicine eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Coding Reproductive Advances Experimental Medicine Compatibility with Devices
 - Non Coding Reproductive Advances Experimental Medicine Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Coding Reproductive Advances Experimental Medicine
 - Highlighting and Note-Taking Non Coding Reproductive Advances Experimental Medicine
 - Interactive Elements Non Coding Reproductive Advances Experimental Medicine
8. Staying Engaged with Non Coding Reproductive Advances Experimental Medicine
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Non Coding Reproductive Advances Experimental Medicine
9. Balancing eBooks and Physical Books Non Coding Reproductive Advances Experimental Medicine
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Coding Reproductive Advances Experimental Medicine
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Non Coding Reproductive Advances Experimental Medicine
 - Setting Reading Goals Non Coding Reproductive Advances Experimental Medicine
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Non Coding Reproductive Advances Experimental Medicine
 - Fact-Checking eBook Content of Non Coding Reproductive Advances Experimental Medicine
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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