



Editorial

# Special Issue “Latest Review Papers in Molecular Genetics and Genomics 2023”

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In the rapidly evolving landscape of molecular genetics and genomics, this Special Issue brings together a collection of insightful review articles that delve into the forefront of scientific exploration.

The Special Issue titled “Latest Advances in Molecular Genetics and Genomics (2023)” of the International Journal of Molecular Sciences includes nine reviews underscoring the remarkable strides made in our understanding of fundamental biological processes and their implications for human health and disease. Spanning diverse topics, the nine articles presented herein illuminate various facets of molecular genetics and genomics, shedding light on the intricate interplay of genetic information, cellular pathways, and disease mechanisms.

A pivotal theme that emerges from these articles is the burgeoning role of non-coding RNAs in shaping gene expression and cellular function. The intricate regulatory networks orchestrated by microRNAs (miRNAs) and circular RNAs (circRNAs) have garnered significant attention as they control gene expression at the transcriptional and post-transcriptional levels and, thus, play a critical role in tumorigenesis and cancer progression. The work by Kim et al. [1] reveals the intricate circular RNA–microRNA axis in cancer, where these non-coding RNAs engage in a complex interplay, influencing tumorigenesis and progression across multiple cancer types. The authors focus on the biological regulation of the correlative axis among circular RNAs, miRNAs, and their target genes in various cancer types and suggest the biological importance of miRNAs derived from transposable elements (MDTEs) interacting with oncogenic or tumor-suppressive circRNAs in tumor progression [1].

Similarly, the study by Pierzynowska et al. [2] underscores the multifaceted involvement of the oxytocin receptor (OXTR) and its ligand in various diseases, highlighting the delicate balance between behavior, molecular signaling, and pathogenesis. The authors summarize the involvement of OXTR dysfunctions and polymorphisms in the development of different diseases, including cancer, cardiac disorders, osteoporosis, and obesity. Their analysis suggests that changes in OXTR expression and OXTR abundance and activity are not specific to individual diseases but rather influence processes that might modulate the course of various disorders. The authors also propose a possible explanation of the discrepancies in the published results of the effects of the OXTR gene polymorphisms and methylation on different diseases [2].

Advances in technology have also enabled comprehensive exploration of genetic alterations and their clinical implications. The investigation by Aveta et al. [3] comprehensively surveys urinary microRNAs (umiRNAs) as potential biomarkers for urological cancers. This systematic review offers insights into the diagnostic and prognostic potential of umiRNAs, illuminating new avenues for non-invasive cancer detection and monitoring. Their systematic review suggests that umiRNAs could play an important role in the diagnosis, prognosis, and therapy of urological cancers [3].

Additionally, the study by Moeckel et al. [4] delves into the promise of tumor mutation burden (TMB) as a predictive biomarker for immune checkpoint inhibitor response. The



**Citation:** Zaravinos, A. Special Issue “Latest Review Papers in Molecular Genetics and Genomics 2023”. *Int. J. Mol. Sci.* **2023**, *24*, 14171. <https://doi.org/10.3390/ijms241814171>

Received: 24 August 2023

Accepted: 13 September 2023

Published: 16 September 2023



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# Selected Papers On Molecular Genetics

**G Thomas**



## **Selected Papers On Molecular Genetics:**

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**Selected Papers from the 3rd International Symposium on Life Science** Valentin A. Stonik,2020-12-10 This book contains information for specialists in various fields of science From the point of view of pharmacology data are reported regarding the effect of echinochrome A and related metabolites from sea urchins on the survival and functional properties of stem cells which can facilitate ex vivo application of this compound in medicine For scientists who isolate and establish structures of marine natural compounds an article devoted to the proof of the microbial origin of a typical metabolite earlier found exclusively from marine invertebrates 6 epi monanchorin may also be of interest A range of new marine metabolites was discovered from the both marine invertebrates and marine microorganisms particularly in marine isolates of fungi Some marine natural products could be applied to treat such diseases as Parkinson s disease ischemic stroke viral infections and so on Magnificamide a new peptide from sea anemones inhibits porcine and human saliva amylases showing its probable antidiabetic properties Application of the genomic approach was discussed in studies on various marine bacteria producing marine enzymes with unusual specificity The lectins capable of recognizing glycoforms of different substrates demonstrate the possibility to be used to elaborate new medical diagnostics      EPSA15 Selected Papers Michela Massimi,Jan-Willem Romeijn,Gerhard Schurz,2017-04-26 This edited collection showcases some of the best recent research in the philosophy of science It comprises of thematically arranged papers presented at the 5th conference of the European Philosophy of Science Association EPSA15 covering a broad variety of topics within general philosophy of science and philosophical issues pertaining to specific sciences The collection will appeal to researchers with an interest in the philosophical underpinnings of their own discipline and to philosophers who wish to study the latest work on the themes discussed      *Selected Papers Of M Ohya* Noboru Watanabe,2008-02-19 This volume is a collection of articles written by Professor M Ohya over the past three decades in the areas of quantum teleportation quantum information theory quantum computer etc By compiling Ohya s important works in these areas the book serves as a useful reference for researchers who are working in these fields

Typhoid Fever: Strategies For The 90's - Selected Papers From First Asia-pacific Symposium On Typhoid Fever T Pang,S D Puthuchery,Chong Lek Koh,1992-03-04 This volume contains papers on typhoid fever by a diverse group of people Clinicians epidemiologists laboratory technologists and research scientists discuss and share their work techniques and developments on the understanding and control of this disease The papers of the invited speakers are included      Science And Sustainable Food Security: Selected Papers Of M S Swaminathan M S Swaminathan,2009-12-30 This book provides a

roadmap for achieving sustainable agricultural advance and food security in an era of climate change and global economic melt down The contents include a description of the paradigm shift under the leadership of the author from a green to an ever green revolution necessary for advancing productivity in perpetuity without ecological harm Science and Sustainable Food Security shows many methods of linking ecological security with livelihood security and provides a scientific basis for entering an era of biohappiness based on the sustainable and equitable use of biodiversity Also methods of adaptation to the impact of global warming are described This book will prove invaluable to all interested in sustainable human security and happiness

*Selected Papers in Molecular Biology* by Jacques Monod Agnes Ullmann, 2012-12-02 *Selected Papers in Molecular Biology* by Jacques Monod describes the career of a scientist embarking on an uninterrupted journey of great discoveries leading to new concepts and perspectives This book contains papers written in French or English by Monod and his collaborators Jacques Monod has dominated a scientific field with his insight and vision He has seen the direction that future research work will lead to and so reaches his goal Monod is a brilliant scientist and the founder of a renowned school With a talent to judge the potential of students and young scientists as well as the ability to evaluate the various aspects of their personalities Monod has successfully provided his students the projects and challenges that cater most to their interests and gifts The projects he considers for his students are both productive and solvable challenges Jacques Monod is generous and loves both his students and collaborators This book will be of interest to historians biographers academe and to the general scientific community

**The Search for the Gene** Bruce Wallace, 2018-05-31 From Gregor Mendel's experiments on garden peas to the mammoth Human Genome Project of today how did we get where we are in the science of genetics In this intriguing book Bruce Wallace examines the concept of the gene and recounts the history of genetic research providing a concise transition from genetics to modern molecular biology

**A Dictionary of Genetics**, *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1965

**Basic Genetics** Gurbachan S. Miglani, 2000 An exploration of basic genetics It features discussion of cell division and its significance chromosomes multiple alleles gene gene interactions genetic analysis in diploid and haploid eukaryotes mutations quantitative inheritance sex determination and genetic engineering

*Studies On Science And The Innovation Process: Selected Works By Nathan Rosenberg* Nathan Rosenberg, 2009-08-18 Science and technology have become increasingly intertwined in the twentieth century However little attention has been paid to the forces that have brought about this condition Indeed many scholars have taken it simply for granted that causality always runs from science to technology In this groundbreaking book Rosenberg's research suggests that history and extensive empirical evidence lead to a reality that is far more complex as well as far more interesting Here Rosenberg's papers explore a wide range of pertinent issues especially those connected with the innovative process including the realms of electric power electronics chemicals aircraft medicine instrumentation and in particular higher education and the organization of research activities

*Current Catalog* National Library of Medicine (U.S.), 1992

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