Call for Book Chapters/Research Papers for Edited Books

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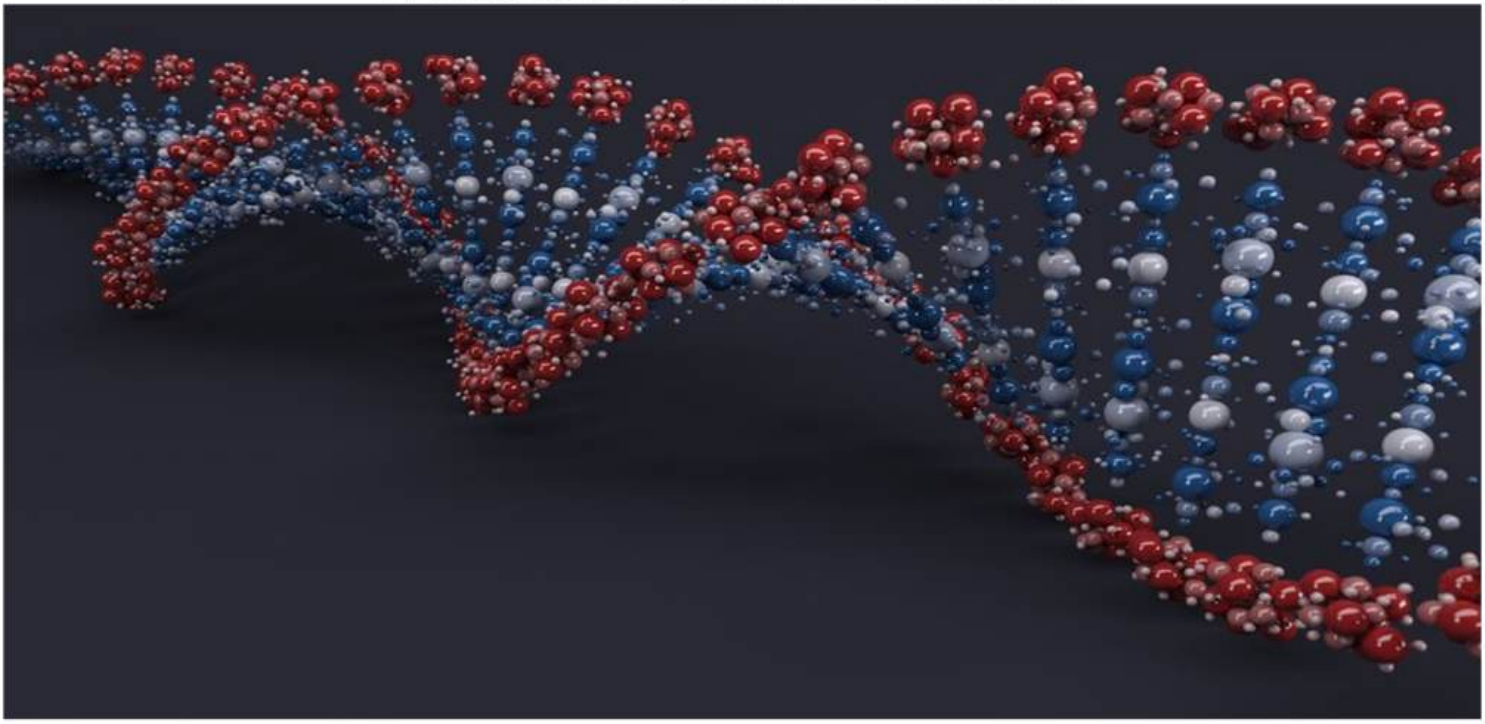
Genetic Catastrophes: The Impact of Single Nucleotide Mutations



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Last date for chapter/paper submission: December 31, 2024
Acceptance notification: January 21, 2025
Last date for registration: February 21, 2025

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Call for Chapters

Genetic Catastrophes: The Impact of Single Nucleotide Mutations

Aims and Scope:

This book chapter delves into the profound effects of single nucleotide mutations (SNMs) on human health, unraveling the complexities behind these genetic alterations and their role in causing severe diseases. Our aim is to provide a comprehensive overview of how minute changes in the genetic code can lead to significant physiological consequences, often resulting in life-threatening conditions. By exploring the mechanisms, diagnosis, and potential therapies for SNM-related diseases, we hope to highlight the critical need for advanced research and innovative solutions in the field of genetics.The scope of this chapter encompasses a detailed examination of the top 10 deadliest diseases caused by single nucleotide mutations. Each disease will be discussed in terms of its genetic basis, pathophysiology, clinical presentation, and current research advancements. This chapter aims to serve as a valuable resource for researchers, clinicians, and students, fostering a deeper understanding of the genetic underpinnings of these catastrophic conditions and promoting the development of targeted treatments and preventive strategies.

List of Topics:

1. Cystic Fibrosis
2. Sickle Cell Anemia
3. Huntington's Disease
4. Tay-Sachs Disease
5. Phenylketonuria (PKU)
6. Neurofibromatosis Type 1
7. Marfan Syndrome
8. Beta-Thalassemia
9. Retinoblastoma
10. Hemophilia B

1. Introduction
Genetics of the Disease:
An in-depth explanation of the genetic mutation responsible for the disease, including diagrams and illustrations to visualize the affected gene(s) and their location on the chromosome.
Statistical Data Worldwide:
Current data on the prevalence and incidence of the disease globally, highlighting any regional differences and trends over time.
2. Body
Severity and Symptoms of the Disease:
A detailed description of the clinical manifestations of the disease, the range of severity observed in patients, and the typical progression of symptoms.
Current Research Progress Using Advanced Techniques:
An overview of the latest research and advancements in understanding and treating the disease, focusing on cutting-edge techniques like CRISPR-Cas9 gene editing, stem cell therapy, and other innovative approaches.
Case Study:
A spotlight on a company or research group working on treatments for the disease. This section will detail their specific approaches, research findings, and any clinical trials or products in development.
3. Conclusion
Summary of Key Points:
Recap the critical insights from the introduction and body sections, emphasizing the impact of the genetic mutation and the progress in research.
Future Directions:
Discuss the potential future research directions and the importance of continued efforts in finding effective treatments and possible cures. Emphasize the significance of multidisciplinary collaboration and the need for sustained funding and support for genetic research.

Author Benefits:

1. Selected chapters (not all) will be indexed in RSquareL and other indexing platforms including Amazon, Google Books etc.
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