

# **Genetics and Its Application**

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### **Product Description**

The objective of this book is to provide knowledge on basics of Genetics and its application in livestock enhancement, agriculture and human health and also to know ethical aspects involved in application of genetics. Emphasis is laid on information related to various aspects of Medical Genetics for medical students, clinicians, nurses, allied professional and policy makers. The author has covered all aspects of Genetics which can be understood by lay person because it is written in easy and simple language.



#### **Table of Contents**

#### **FOREWORD**

#### **PREFACE**

**Chapter 1:** Basics of Genetics.

**Chapter 2:** Mendelian Genetics.

**Chapter 3:** Chromosomes.

**Chapter 4:** Genetic Linkage and Chromosome Mapping.

**Chapter 5:** Human Chromosomes.

**Chapter 6:** Mutations.

Chapter 7: Clinical Genetics.

**Chapter 8:**Dermatographic.

Chapter 9: Genetic Testing.

**Chapter 10:** Cytogenetics.

**Chapter 11:** Advanced Genetic Engineering.

**Chapter 12:** Inheritance of Genetic Disorders.

**Chapter 13:** Chromosomal Disorders.

Chapter 14: Genetic and Epigenetics of Human Diseases.

**Chapter 15:** Genetics of Cancer.

**Chapter 16:** Transgenic Plants.

**Chapter 17:** genetic Engineering of Micro-Organisms of Interest to Agriculture.

Chapter 18: Transgenic Animals

Chapter 19: Ecology of GM Crops- Environmental Effects.

Chapter 20: Ethical Issues in Genetic Engineering and Transgenics.

Chapter 21: The regulation of genetically Modified Organisms (GMOs) In India.

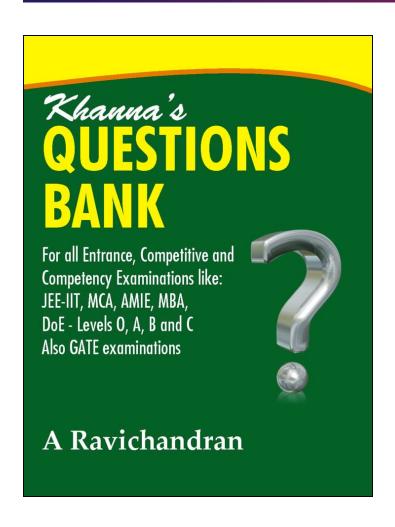
Chapter 22: Crucial Cytogenetic Landmarks: Historical, Current and Upcoming.



### **Author**

Dr. Peter did his Ph.D. in Human Cytogenetics from University of Bombay in the year 1978, at present known as National Institute for Research in Reproductive Health (NIRRH), Indian Council of Medical Research (ICMR), Mumbai. His initial training was in Human Cytogenetics, at present, he has more than 40 years of experience in the field of cell culture techniques, with a vast knowledge in tissue culture-growing lymphocytes, amniotic cell cultures, organ culture techniques. He is well experienced in making tissue culture media and handling long term fibroblast cultures, which made it possible for him to publish several papers in International journals in Human Genetics on congenital malformation and infertility. He has also presented papers at both National and International Conferences. He has conducted several training programs in Human cytogenetics and guide many students for MSc and PhD degree. He has taught for more than ten years in both Bombay and Bangalore University.





## **Khanna's Questions Bank**

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For all entrance, competitive and competency examinations like: JEE-IT, MCA, AMIE, MBA, DOEACC-LEVELS O, A, B AND C ALSO GATE examinations-it is a sincere effort to systematically on computer science so as to make the subject easier to understand and learn in the quickest possible time. The Question answer approach followed sill let you learn what you always wanted to learn about the modern day technology called computers.



### **Table of Contents**

Chapter 1: Web Technology. Chapter 2: Application Software. Chapter 3: Programming with C. Chapter 4: UNIX. Chapter 5: Principles of Programming Languages. Chapter 6: Operating Systems. Chapter 7: Automata Theory. Chapter 8: Compiler Design. Chapter 9: Computer Organization. Chapter 10: Data Structures. Chapter 11: SQL PLUS PL/SQL Forms and Reports. Chapter 12: Database Management Systems. Chapter 13: Computer Networks and Security. Chapter 14: Object Oriented Programming using C++. Chapter 15: Software Engineering. Chapter 16: System Software. Chapter 17: Computer Graphics. Chapter 18: JAVA Programming. Chapter 19: Computer Science Question Paper for GATE 2007. Chapter 20: Computer Science Questions Paper for GATE 2008. Chapter 21: Computer Science Questions Paper for GATE 2009.

#### **Author**

**A. Ravichandran** He has obtained M. Tech degree in Computer Science & Engineering from IIT. Delhi and Ph. D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

