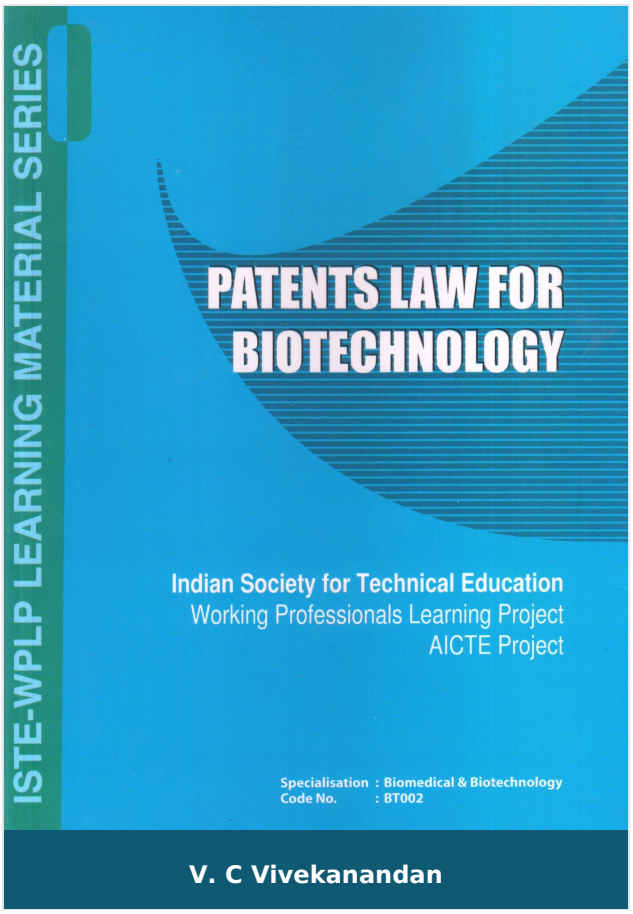

Patents Law For Biotechnology

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Product Description

This module of designed to give the reader - a technocrat or a lawyer an understanding of the history of the development of Intellectual Property in the first chapter. This chapter shows how the need for such a legislation arose in Europe and later in United States. The Second chapter deals with the conceptual understanding of contemporary issues in Patenting, what qualifies for patents, what qualifies for patents, what does not and how standards are constantly raised and interpreted. The third chapter deals with the legislation in India. It deals with what are inventions under law and what are not. How does one proceed to patent and invention? How one can draft a good patent? what are the safeguards if one abuses the system? What are the rights of the public in such a system and related issues? The fourth chapter deals with the special issues relating to the emerging research in Biotechnology like the cell culture, hybridoma technologies, recombinant DNA, patenting of software programmes and other principles. The fifth chapter deals with Patent Cooperation Treaty which offers a single window filing system for patenting inventions world wide. The sixth chapter deals with the TRIPS agreement and its salient features, where the provisions relating to patents law and compulsory licences are dealt with. Chapter Seven deals with the World Intellectual Property Organization, its mission, challenges and future agenda.

The module also has select case laws relating to patenting of life forms, Biotechnology, Chemical patents and issues relating to Pharma industry.

The modules have been written to sensitize the target audience to the exciting, yet complex world of patenting system.

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Table Of Contents

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- V. C Vivekanandan

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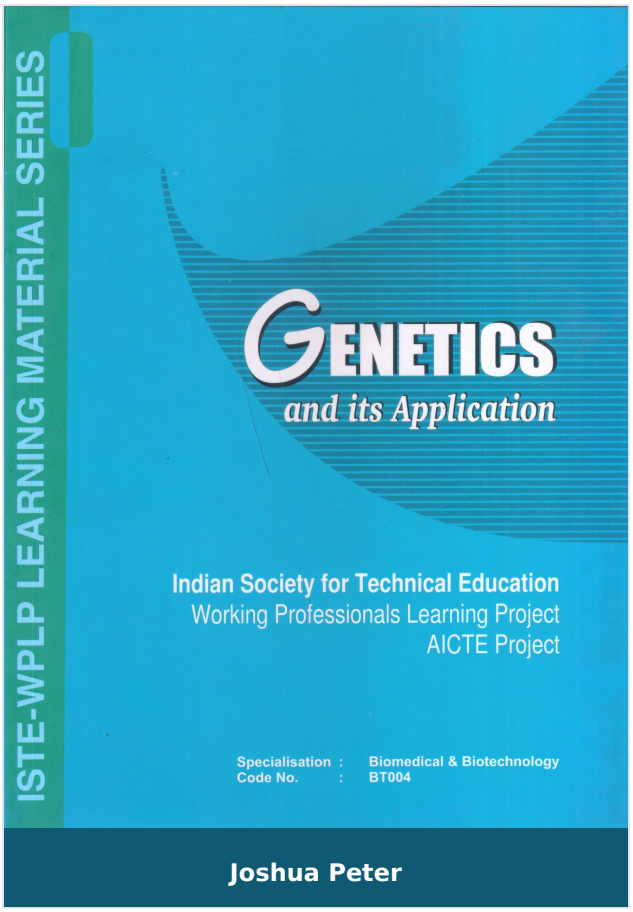

Genetics and Its Application

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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.

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Table Of Contents

- FOREWORD
- PREFACE
- Basics of Genetics
- Mendelian Genetics
- Chromosomes
- Genetic Linkage and Chromosome Mapping
- Human Chromosomes
- Mutations
- Clinical Genetics
- Dermatoglyphics
- Genetic Testing
- Cytogenetics
- Advanced Genetic Engineering
- Inheritance of Genetic Disorders
- Chromosomal Disorders
- Genetic and Epigenetics of Human Diseases
- Genetics of Cancer
- Transgenic Plants
- genetic Engineering of Micro-Organisms of Interest to Agriculture
- Transgenic Animals
- Ecology of GM Crops- Environmental Effects
- Ethical Issues in Genetic Engineering and Transgenics
- The regulation of genetically Modified Organisms (GMOs) In India

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- Crucial Cytogenetic Landmarks: Historical, Current and Upcoming

Author

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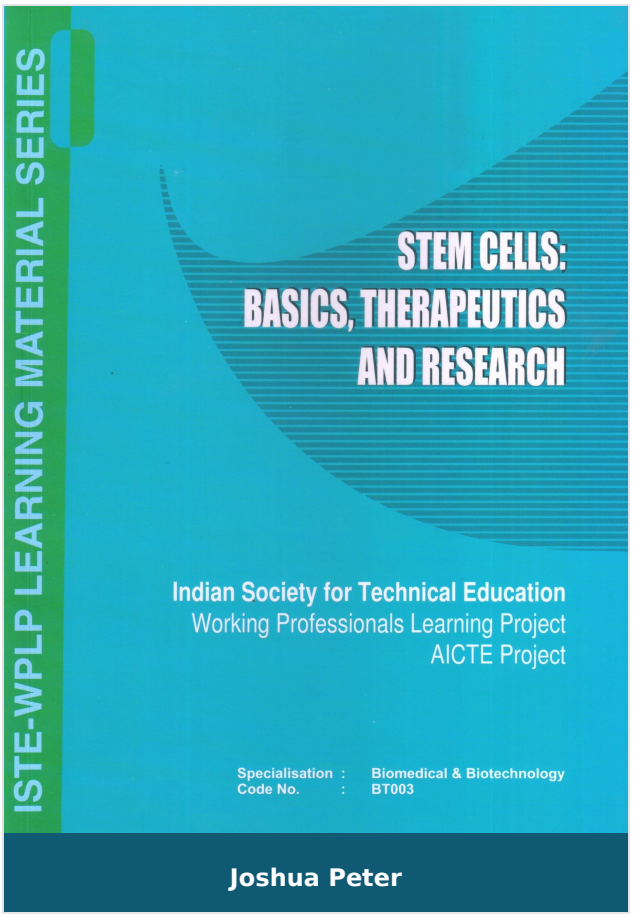

Stem Cells: Basics, Therapeutics and Research

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Product Description

The objective of this book is to provide basic knowledge on types of stem cells, its isolation, and its application in both research and clinical fields, and also to know ethical aspects involved in stem cell culture and application.

Stem cells: Stem Cells are Master cells. There are three kinds of stem Cells: Totipotent (literally al powerful), a newly fertilized egg, Pluripotent (Pluri-Many), an embryo with 50-100 cells, beings to differentiate, Multipotent (Range of Cell Types), obtained from fetal and mature human. This book covers sources, properties of different types of stem cells.

A Clone: There are two types of Cloning, derived from nuclear transfer technology. Therapeutic Clone- Production of replacement of cells and tissues genetically compatible with patient. Reproductive clone-this will will produce genetically identical offspring to one of his or her parents (Dolly the sheep).

Embryonic Stem Cells: These are isolated from inner cell mass (ICM) of the Blastocyst. It proliferates extensively "in-vitro", maintains a normal diploid karyotype over extended culture and differentiates with derivatives of all the three germ layers - ectoderm and mesoderm. Express high levels of Oct 4, a transcription factor specific to ICMs of Blastocyst, show high level of telomerase activity.

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Table Of Contents

- FOREWORD
- PREFACE
- Stem Cells- Basics
- Adult Stem Cells in Therapy and Research
- Human Reproduction and Stem Cells
- Human Embryonic Stem Cell
- Application of Human Embryonic Stem Cells and Their Derivatives
- Cloning
- Scientific and Ethical Debate

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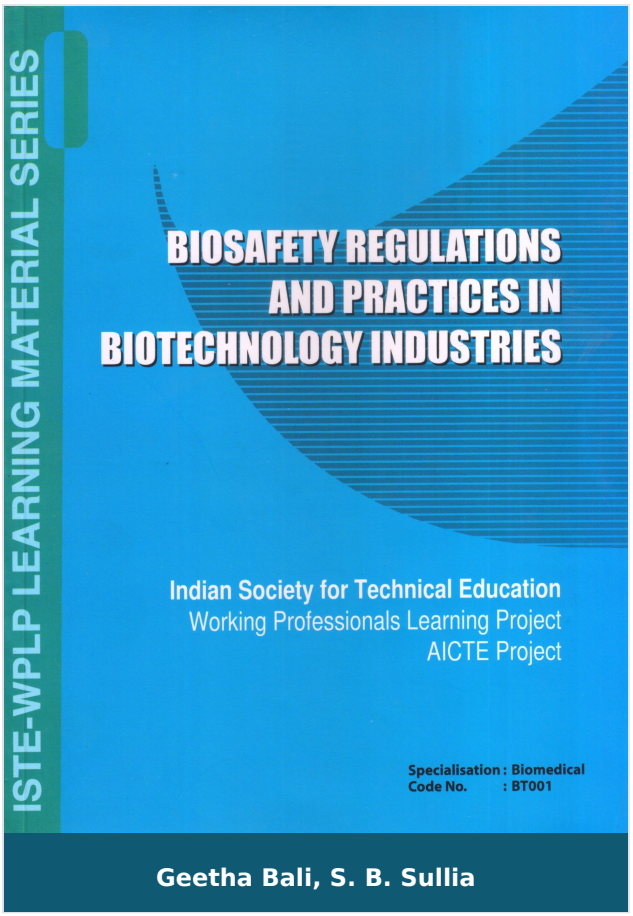

Biosafety Regulations And Practices In Biotechnology Industries

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Product Description

Biotechnology is defined as 'The application of biological methods or processes, to produce products useful to mankind'. It often involves making molecular changes in living things for their better utilization. Plant breeders and fermentation experts have for centuries laboured to improve the crops and microorganisms such as yeasts and bacteria, that produce food and medicine. Plant Breeding and Fermentation Technology, in fact, long preceded the scientific knowledge of Genetics. Modern Biotechnology or Genetic Engineering is the technology that makes possible the transfer of genes (DNA) from one organism to another, thus allowing the recipient organism to express traits or characteristics normally associated only with the donor. The new characteristics that the recipients gain, will never easily come to them through natural processes of gene transfer that occur in nature. Thus the scope for Genetic Engineering is far greater than the conventional techniques employed prior to our understanding of DNA.

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Table Of Contents

- Geetha Bali
- Geetha Bali
- S. B. Sullia
- S. B. Sullia

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Geetha Bali

FOREWORD PREFACE Chapter 1: An Overview of Recombinant DNA Technology (Part I: DNA Isolation and Ligation to Vectors) Chapter 2: An Overview of Recombinant DNA Technology (Part II: Transformation Techniques) Chapter 3: Analytical Techniques Used in Biotechnology and Biosafety Considerations Chapter 4: Biosafety practices for Laboratories Dealing with living GMOs OR NON-GM Natural Pathogens Chapter 5: Safety in the use of Hazardous Chemicals in Laboratories Chapter 6: Radioactive Waste Disposal Chapter 7: Genetically Modified Organisms (GMOs): Potential Hazards to Health and Environment Chapter 8: Environmental Risk Assessment Practices For GMOs Chapter 9: Environmental Risk Assessment Practices and Plan for Construction of Greenhouse for GM Plants Chapter 10: Biosafety Regulations Concerning the Movement of GMOs at the International Level Chapter 11: Biosafety Regulations in India for Handling and Release of GMOs and GM Seeds Chapter 12: The Drugs and Cosmetics Rules (1988) and the Drug Policy (2002) Chapter 13: Environment Protection ACT (EPA) and Hazard Analysis and Critical Control Points (HACCP) Chapter 14: Intellectual Property Right (IPR) Issues in Biotechnology Chapter 15: Bioethics: Ethical Issues in Biotechnology Review Questions References

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