

Specialisation Code No. Biomedical & Biotechnology BT003

# **Stem Cells: Basics, Therapeutics and Research**

Author :	Joshua Peter
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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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- Chapter 3: Human Reproduction and Stem Cells.
- Chapter 4: Human Embryonic Stem Cell.
- Chapter 5: Application of Human Embryonic Stem Cells and Their Derivatives.
- Chapter 6: Cloning.
- Chapter 7: Scientific and Ethical Debate.

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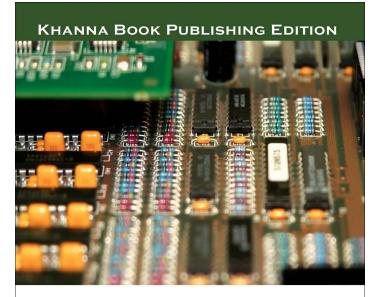
#### Author

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.



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**Engineers** 



# Intelligent Instrumentation

for Engineers

**Rishabh Anand** 

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Intelligent Instrumentation for

#### **Product Description**

Covers the complete latest syllabus of intelligent instrumentation for engineers prescribed by M.D.U. Rohtak. Encourages students to use an easy-to-understand system help them think critically about intelligent instrumentation. This book will be a boon to students and will help them to face examination in confident manner. Very lucid and simplified approach to understand the subject. Subject matter in each chapter developed systematically from figures and examples. All topics are explained in an easy manner followed by numerous figures and case studies. Provides user-friendly approach. Model question papers according to latest examination pattern for MDU are added. Review questions are included at the end of each chapter. These exercises allow students additional practice with each of the topics covered in the book.



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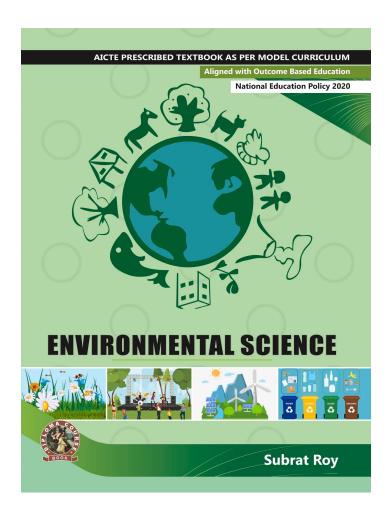
Chapter 1: Introduction. Chapter 2: Interfacing Instruments and Computers. Chapter 3: Instrumentation Computer Networks. Chapter 4: Software Filters. Appendix A Appendix B Model Test Paper For Practice

#### Author

Rishabh Anand Rishabh Anand received his Bachelor's degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M.Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M.Tech. (ECE/CSE/IT), BCA, MCA, and other courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL® Foundation Certificate in IT Service Management, PRINCE2® Practitioner Certification - Project Management, ScrumMaster® (CSM®), Certified Six Sigma White Belt (CSSWB<sup>™</sup>), Lean Six Sigma White Belt Certified (LSSWBC<sup>™</sup>) and Certified Six Sigma Green Belt<sup>™</sup> (CSSGB<sup>™</sup>). The author delivers lectures as Visiting Faculty (Assistant Professor) in the Global Institute of Technology and Management, Farrukh Nagar, Gurgaon.



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### **Environmental Science**

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"Environmental Science" is an audit course for the first year Diploma programme in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome- based education. Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student's comprehension. Some salient features of the book: 1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc. 3. Student and teacher centric subject materials included in book with balanced and chronological manner. 4. Figures and tables are insert to improve clarity of the topics. 5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.



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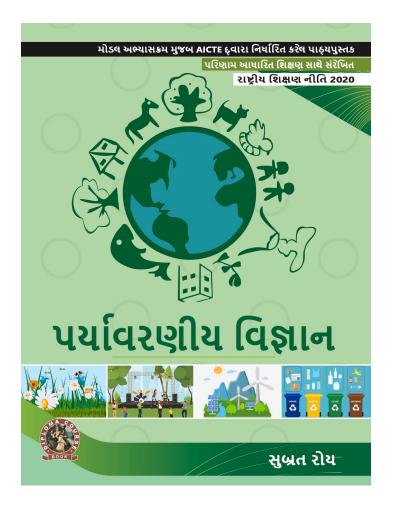
Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and symbols, List of Figures, Guidelines for Teachers, Guidelines for Students, Unit 1: Ecosystem. Unit
2: Air and Noise pollution. Unit 3: Renewable sources of Energy. Unit 4: Soil waste Management, ISO 14000&
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#### Author

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