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Cells | Biology I Laboratory Manual

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Human Stem Cell Technology & Biology: A Research Guide and Laboratory Manual integrates readily accessible text, electronic and video components with the aim of effectively communicating the critical information needed to understand and culture human embryonic stem cells.

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This laboratory guide, intended for undergraduate and postgraduate students, includes techniques and their protocols ranging from microscopy to in vitro protein synthesis. Experiments relating to chromosomes study and identifying the phases of cell division are explained. The book lucidly deals with the extraction and characterization of chromatin and techniques for studying its modifications, the gene methodology for identification of mutation and the methodology for isolation of nucleic acids from all types of organisms, such as viruses, fungi, plants and animals. All the protocols have been explained following step-by-step method. Different types of electrophoresis and their techniques, including blotting techniques and the methodology for stripping of probes from membranes for reusing the blot, have also been dealt with. Protocols on modern molecular biology techniques—PCR, restriction enzyme digest, DNA isolation, cloning and DNA sequencing—add weightage to the book. It also gives necessary knowledge of different

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types of stains, staining techniques, buffers, reagents and media used in the protocols. To help students prepare for answering viva voce questions, the book includes MCQs based on the discussed techniques.

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