

Cytogenetics



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Narosa Publishing House, 2009. Softcover. Book Condition: New. Cytogenetics, starting with description of structure and function of eukaryotic and prokaryotic cells discusses mitosis, meiosis, cell cycle and chromosome behavior during cell division. Chromosome morphology, its organization and chromosome banding techniques are discussed in detail. Mendel's laws of heredity and the phenomena leading to deviation from Mendelian segregation, genetic recombination, its mechanisms and construction of genetic map are described along with a detailed discussion on variations in chromosome number (euploidy-auto- and allopolyploidy, aneuploidy, haploidy) and structural variations in chromosomes (duplication, deletion/deficiency, inversion and reciprocal translocation). Cytogenetic structures of a few crops are also given and methods provided for genomic and subgenomic manipulation for practical purposes. Also discussed in this book are the production of 2n gametes, its application and endosperm genetics and various cytological techniques which will help in conducting practical classes in cytogenetics. Table of Contents Preface / Cell (Eukaryotes and Prokaryotes) / Chromosome and Chromosome Structure / Mendel's Laws of Heredity / Linkage and Genetic Recombination / Study of Chromosome Number Variation / Aneuploidy / Haploidy / Structural Changes in Chromosome / Reciprocal Translocation / Chromosome Behavior / Cytogenetic Structure of Crop Plant Species / Chromosome Manipulation / 2n Gametes and its Applications / Cytoplasmic Manipulation / Cytological Techniques / Problems in Cytogenetics and Genetics / References / Index. Printed Pages: 280.

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