

Plant Cytogenetics

Third Edition

Cytogenetics plays an important role in understanding the chromosomal and genetic architecture of plant species. *Plant Cytogenetics, Third Edition* follows the tradition of its predecessors presenting theoretical and practical aspects of plant cytogenetics. Chapters describe correct handling of plant chromosomes, methods in plant cytogenetics, cell division, reproduction methods, chromosome nomenclature, karyotype analysis, chromosomal aberrations, genome analysis, transgenic crops, and cytogenetics in plant breeding.

Features

- Presents fully updated and revised classical and modern techniques in plant cytogenetics.
- Features new material on methods in plant cytogenetics, including Mendelian genetics, handling of plant chromosomes, and cytological basis of inheritance.
- Details cytogenetics in plant breeding, covering recombination, mutations, polyploidy, genetic transformation, and wide hybridization.
- Describes the mechanics of a wide variety of chromosomal aberrations studied in crop plants.

This new edition begins with a brief introduction on historical aspect of cytogenetics and flows directly into handling of plant chromosomes by classical and modern cytological techniques, classical Mendelian genetics, brief description of cell division, and chromosome identification by karyotype analysis. This book is incomplete without information on the role of and particular chromosome, and the book covers these aspects. Covering classical to modern cytogenetics, the book highlights the role of cytogenetics in improving crops.

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