

1. Record Nr.	UNINA9910164157803321
Titolo	Chromosome Structure and Aberrations / / edited by Tariq Ahmad Bhat, Aijaz Ahmad Wani
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2017
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 367 p. 125 illus., 79 illus. in color.)
Disciplina	611.01816
Soggetti	Molecular genetics Plant genetics Cytology Molecular Genetics Plant Genetics Cell Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Introduction to Chromosome (Shakoori A.R) -- Chapter 2. B-chromosomes (Douglas R.N) -- Chapter 3. Organization of Genetic Material into Chromosomes (Shakoori A.R) -- Chapter 4. Laboratory Techniques of Studying Plant Chromosomes (Kashtwari M) -- Chapter 5. Flow Cytometry and its Utility (Halder M) -- Chapter 6. Asynapsis and Desynapsis (Wani A.A) -- Chapter 7. Cytogenetic Studies of Indian <i>Drimia</i> Jacq. (Urgineoideae:Hyacinthaceae) (Lekhakh M.M) -- Chapter 8. Banding Techniques in Chromosome Analysis (Shabir P.A) -- Chapter 9. Karyotype Evolution and its Utility (de Resende K.F.M) -- Chapter 10. Polyploidy and its Role in Evolution and Crop Improvement (Dar J.A) -- Chapter 11. Mutagenic Effects on Meiosis in Legumes and a Practical Case Study of <i>Vicia faba</i> L. (Bhat T.A) -- Chapter 12. Structural Changes in Chromosomes (Shakoori A.R) -- Chapter 13. Numerical Changes in chromosomes (Shakoori A.R) -- Chapter 14. Techniques of Chromosomal Studies (Qaisar U) -- Chapter 15. Cytomixis and its Implications (Bhat T.A) -- Chapter 16. Florescent In Situ Hybridization (FISH) and its Application (Shakoori A.R). .
Sommario/riassunto	This book is a compilation of various chapters contributed by a group

of leading researchers from different countries and covering up to date information based on published reports and personal experience of authors in the field of cytogenetics. Beginning with the introduction of chromosome, the subsequent chapters on organization of genetic material, karyotype evolution, structural and numerical variations in chromosomes, B-chromosomes and chromosomal aberrations provide an in-depth knowledge and easy understanding of the subject matter. A special feature of the book is the inclusion of a series of chapters on various types of chromosomal aberrations and their impact on breeding behaviour and crop improvement. The possible mechanism, their consequences and role in genetic analysis has been emphasized in these chapters. A few chapters have also been dedicated on various techniques routinely used in the laboratory by students and researchers. Each chapter ends with an extensive bibliography so that the students and researchers may find it relevant to consult more literature on the subject than a book of this size can offer. The book is intended to fulfill the needs of undergraduate and post graduate students of botany, zoology and agriculture besides, teachers and researchers engaged in the field of genetics, cytogenetics, and molecular genetics. In general the readers will find each chapter of the book informative and easy to understand.
