

Branches of Human Genetics



Meiosis Webquest For Human Anatomy Or Human Genetics

Richard Egel, Dirk-Henner Lankenau



Meiosis Webquest For Human Anatomy Or Human Genetics:

Recombination and Meiosis Richard Egel, Dirk-Henner Lankenau, 2007-11-13 This fascinating volume addresses the processes and mechanisms taking place in the cell during meiosis and recombination It covers multicellular eukaryotes such as *Drosophila* *Arabidopsis* mice and humans Once per life cycle mitotic nuclear divisions are replaced by meiosis I and II reducing chromosome number from the diploid level to a haploid genome reshuffling the homologous chromosomes by their centromeres and recombining chromosome arms by crossing over

Recombination and Meiosis Richard Egel, Dirk-Henner Lankenau, 2008-07-25 Once per life cycle mitotic nuclear divisions are replaced by meiosis I and II reducing chromosome number from the diploid level to a haploid genome and recombining chromosome arms by crossing over In animals all this happens during formation of eggs and sperm in yeasts before spore formation The mechanisms of reciprocal exchange at crossover chiasma sites are central to mainstream meiosis To initiate the meiotic exchange of DNA surgical cuts are made as a form of calculated damage that subsequently is repaired by homologous recombination These key events are accompanied by ancillary provisions at the level of chromatin organization sister chromatid cohesion and differential centromere connectivity Great progress has been made in recent years in our understanding of these mechanisms Questions still open primarily concern the placement of and mutual coordination between neighboring crossover events Of overlapping significance this book features two comprehensive treatises of enzymes involved in meiotic recombination as well as the historical conceptualization of meiotic phenomena from genetical experiments More specifically these mechanisms are addressed in yeasts as unicellular model eukaryotes Furthermore evolutionary subjects related to meiosis are treated

Meiosis David T. Stuart, Humana Press, 2017 This updated book includes meiosis methods ranging from classical genetic approaches with budding yeast to high resolution microscopy and computational methods for the analysis of recombination and modeling gene expression networks Cutting edge procedures for the analysis of double strand breaks at single nucleotide resolution analysis of translation by ribosome profiling the use of fluorescent markers to analyze recombination and strategies for the use of conditional expression to study chromatin protein dynamics are detailed Advanced cytology methods for live and fixed cell microscopy and image analysis for yeast *Drosophila* and mouse are also included Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Detailed and practical *Meiosis* Second Edition will prove to be invaluable to biologists geneticists biochemists and anyone investigating meiosis recombination and cellular differentiation

Meiosis Bernard John, 1990-04-12 Meiosis the antithesis of fertilization is the unique genetically programmed mode of nuclear division associated with a halving of the chromosome number in sexually reproducing eukaryotes It thus represents a key cellular and developmental pathway in the life of an organism In this book Bernard John presents the first complete and the most

authoritative review of the events and mechanisms of meiosis including their scheduling their mechanics and their biochemistry as well as their genetic control and the variations to be found in them in both sexual and subsexual systems The text is superbly illustrated with 131 figures and 73 tables Meiosis must be regarded as essential reading for all students teachers and research workers with an interest in eukaryotic cell biology and genetics

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