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Basic Concepts of Plant Biotechnology (With MCQ's) V.

Prakash,N. Tripathi,2018-10-01 The book entitled Basic Concepts of Plant Biotechnology with MCQs has been publishing when the recombinant DNA and sequencing of human and many plant genomes have been completed This book contains almost 3000 multiple choice questions as well as fill in the blanks with answers covering all aspects of molecular biological systems of prokaryotes and eukaryotes In writing the first edition the aim is to provide all simple and difficult questions for weak students in plant molecular biology that have no more knowledge and have more problems in solving the questions Therefore in this book we included questions belongs to all basic concept of molecular biology which will provide strong knowledge to students preparing for competitive exams of life science like CSIR NET DBT JRF ICMR JRF ICAR NET ARS PSC graduate and post graduate exams

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Bibliography of Agriculture ,1974 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.

Mechanisms that Prevent and Correct Trisomy Daniel Benjamin Cortes, 2015

Female meiosis in most metazoans facilitates the creating of a single haploid oocyte from an original diploid precursor with replicated chromosomes. In order to promote accurate retention of only a single set of each homologous chromosome female meiosis orchestrates a complex series of events that result in the placement of a small acentrosomal meiotic spindle in a perpendicular orientation adjacent to the cortex in both meiosis I and meiosis II. By placing the spindle perpendicular to the cortex along its major axis prior to anaphase oocytes ensure that each division retains a single copy of each homolog in meiosis I or sister chromatid in meiosis II. Defects in the processes of meiosis can result in chromosome missegregation which induces aneuploidy. One specific form of aneuploidy wherein three copies of each chromosome are present trisomy is of special importance due to its prevalence in human infertility and due to the presence of viable trisomic humans with developmental disorders Down Syndrome, Kleinfelter etc. In humans trisomy is believed to arise mostly through errors in female meiosis highlighting the error prone nature of female meiosis. Several mechanisms known to promote trisomy occur during female meiosis and in the mitotic divisions thereafter usually as a result of meiotic errors. Herein we highlighted some of these known mechanisms and their consequences in human, mouse and *C. elegans*. Despite the breadth of knowledge about defects of female meiosis and early embryonic development however little is known about any mechanisms that might rescue trisomy *in vivo*. Case studies of triploX and Down Syndrome reproductive humans show fewer than expected trisomic progeny based on traditional Mendelian segregation. Using triploX strains of the nematode *Caenorhabditis elegans* as well as some mutants with unpaired chromosomes we investigated whether female meiosis and the sequential mitotic divisions bear mechanisms that reduce the incidence of trisomy or more generally the incidence of unpaired chromosome inheritance. In this work we show evidence that three distinct mechanisms act through meiosis and early mitosis in *C. elegans* embryos to selectively expel unpaired chromosomes. First we observed a measurable reduction in inheritance of unpaired chromosomes occurring during anaphase of meiosis I that is dependent on the active placement of the meiotic contractile ring. Next we provide evidence for a mechanism that relied on the rotation of meiotic spindles from their metaphase orientation parallel to the cortex into their anaphase orientation perpendicular to the cortex. In that work we

ASPM a marker of spindle poles as being consistently asymmetric on spindle poles in a way that predicted spindle orientation following rotation Unpaired chromosomes in a triploX strain frequently associated with an ASPM enriched pole which ended up at the cortex after rotation Finally we provide preliminary evidence for a mechanisms that provides further correction after meiosis has completed The incidence of trisomy was further reduced by mitotic correction in the first few divisions of embryonic development producing a population of mosaic embryos which were partially returned to disomy Together these data support a model where trisomy is detected by meiotic and mitotic embryos and a series of mechanisms activate in order to reduce the chances of excess chromosome inheritance

Control of Meiotic Divisions in Oocytes Nora Bouftas, 2019

Meiosis is a tightly regulated process made up of two successive divisions meiosis I and II They must be completed in an orderly manner to obtain haploid gametes with the correct number of chromosomes Female mammalian meiosis is an error prone process where errors in segregation create aneuploid gametes In addition incidence of aneuploidy increases in correlation with age Understanding the regulation of female mammalian meiosis is therefore essential Meiotic cell divisions are regulated by cyclins associated to their binding catalytic partners Cdks I investigated the role of a unique cyclin cyclin B3 through the use of cyclin B3 KO female mice I found that lack of cyclin B3 Cdk1 activity in KO oocytes affects APC C activity and induces an arrest at metaphase I due to high cyclin B1 levels high Cdk1 activity and inactive separase Surprisingly cyclin B3 from other species was able to rescue mouse cyclin B3 KO oocytes I was also able to show that cyclin B3 is able to inhibit CSF arrest My recent data suggests that cyclin B3 KO oocytes put in place a precocious CSF arrest leading to the metaphase I arrest observed Hence my PhD work has shown that cyclin B3 is essential for female meiosis I and to prevent precocious CSF arrest in meiosis I instead of meiosis II

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