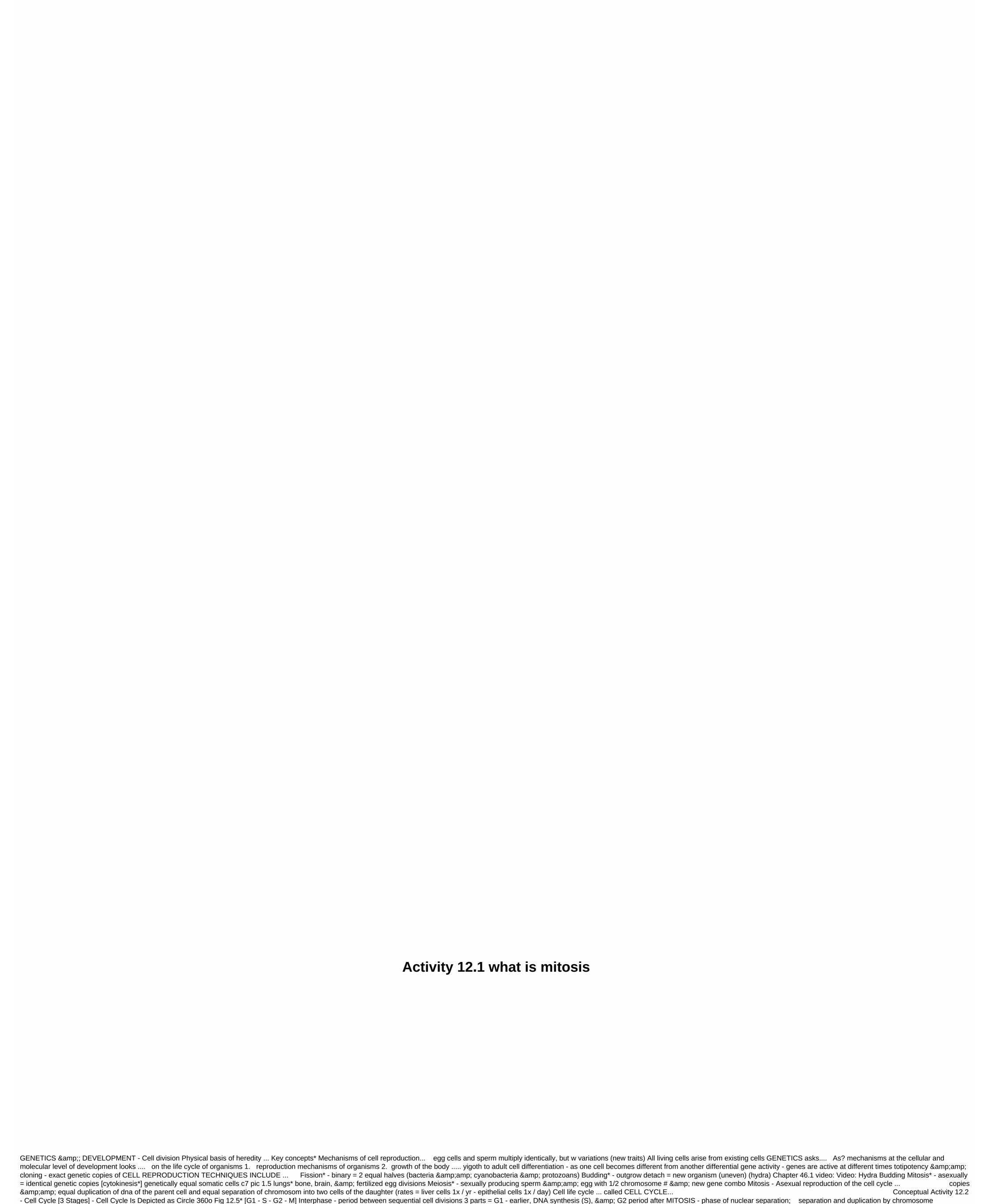
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Cytocenesis * - physical cell division into two parts: animals/plants Names and figures - (to protect innocents) bacteria have about 20 to 25,000+ genes & amp; 46 chromosoms People have 46 chromosomas or 23 homological pairs 23 maternal

[cyclin + CDK = MPF]... promotes Mitosis Growth Factors are regulated at critical points ... Cell cycle checkpoints * Concept of activity - 12.1 - Roles of cell division of sex cells reproduction ... «MEYOZIS»

nuclear division of MEIOSIS & amp;; MITOSIS, so different differences are: Key concepts * meyosis = 4 celligen [1 = 2 = 4]... thus, 2 divisions of meyosis = half the number of chromosomes mitosis = the same # chromosome as parental cell

& amp; egg - haploid) fertilization (sperm + egg) -----> diploid life cycle* (chrm # = 46) Alternating generations * & Human life cycles Stages of sexual separation of cells are the same 3 phases ... just like in the asexual division (Interfase,

crossover* - exchange for chiasma* Metafaz I = chromosoms align at the equator Anafaz I = chromosom at the poles telofaz I = chromosom at the poles cellular domains of a separate Meyosis I is shared by homologists of homological steam* Fig 13.7* Mayoz II... just as mitosis separates

cyclin - a protein, the amount of which cyclically changes*;

MPF is a kinase enzyme that switches

compare physical differences* between the

Meiosis --- > produces cells half chrm # = 23 (sperm

when in high concentrations *, binding to CDK makes MPF

Profase I = chromosoms condense SYNAPSIS - homologs STEAM together = tetrad

chromosomas 23 parent chromosomas Control cell division and cell cycle 2001 Nobel Prize regulated Growth Factors - proteins that contribute to the division of MPF cells - mitotical factor advancement ... [complex* of two proteins CDK + cyclin]

meyosis = new gene combinations not in parents & amp; chromosomes sort randomly each other's mitosis = daughter's cells are genetically identical to sexual reproduction of cells (Meyosis) Where meyosis occurs during the sex cell cycle?

nuclear division, cytokinesis), but, 2 departments of Meiosis i and Meiosis II 1 cell = 2 cells = 4 cells The names of the stages are the same and have similar functions of Meiosis I...

active only when tied to cyclin;

on/off the proteins of the target cell cycle, phosphoriling them.....

very cyclin MPF - CDK - protein cell division control - cyclin of the dependent kinase;

the chromatides of one homologist's homological pair in the same way, as it does in mitosis Comparison (Fig. 13.9)* Mitosis/Meose - comparative animation Independent assortment* - random alignment of homologs (fig) Intersection - sharing chromosomal material Concept Activity 13.3 - Meiosis Animation Sumanas, Inc. animation Meiosis* Summary MEIOSIS [difference table]* 1. Phase of nuclear division of reproduction of sex cells 2. Two consecutive divisions, results in 4 daughter cells ... Mayoz 1 and Mayoz 2 3. Abbreviation / separation occurs diploid ---- > haploid cells daughter 1/2 number of parent cells chromosom 4. Stages have the same nomenclature as profase Mitosis, metaphaz, anathase, telofase, M1 & amp; M2 5. Only one phase S, where DNA is often duplicated, may not be a transfusion between M1 and M2 6. Homologists separate at Meyosis 1 Chromatide separately at Meyosa 2 (mitotic-like) 7. Random assortment is happening homologs are aligned according to the equatorial plates, independent of each other 8. Crossing the... may occur in Profaz I... synapsis = close paired homologists allow you to exchange chiasma = dot new combos of the gene / chromosome, which did not exist in any parent, which will become the material of evolution...

Next Lecture Key Concepts* Concepts*

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