

Chapter 11 – Meiosis and Sexual Reproduction – A Review

- What is the function of fertilization?
Facilitates the development of a new organism
 - What does the process of fertilization make? (not a baby)
Zygote
 - What is the difference between
 - Haploid – **a single set of unpaired chromosomes**
 - Diploid – **two complete sets of chromosomes**
 - Gamete – **sex cells (sperm and egg)**
 - Somatic cell – **Any cells of a living organism other than the reproductive cells**
 - How many daughter cells AND what kind (genetically) do we get from ____
 - Mitosis: _____, _____
 - Meiosis: _____, _____
 - What is the function of meiosis? Why is this important?
Generation of genetic diversity among individuals its very crucial as such diversity allows the development of certain adaptations that will help in surviving in an ever-changing environment
 - What are at least two (2) ways we get genetic variation through the process of meiosis?
meiosis I and reducing the number of chromosomes to half
 - What is a homolog/tetrad?
A pair of homologous chromosomes
 - Identify the bits
 - Chromatid
 - Sister chromatid
 - Homolog/tetrad
 - Centromere
 - Synapsis/chiasmata
- 
- What do we call the new combination – the newly combined sister chromatid – those results from a cross-over event?
Recombination
 - What is physically separated in Mitosis? How many daughter cells? Haploid or diploid?
Chromatids, 4 daughter cells, two diploids
 - What is physically separated in Meiosis I? How many daughter cells? Haploid or diploid?
Homologous chromosome pairs, 23 daughter cells, Diploid
 - What is physically separated in Meiosis II? How many daughter cells? Haploid or diploid?
Sister chromatids, 4 daughter cells, Haploid
 - Are the daughter cells of meiosis identical or unique from the parent cell? How about each other?
They are unique from the parent
 - What kinds of cells go through meiosis?
Germ cells
 - Why do we alternate between diploid (2n) and haploid (n) during our life cycle?
Sexually reproducing organisms

Power Notes Chapter 11 Meiosis

Liyong Dong

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