

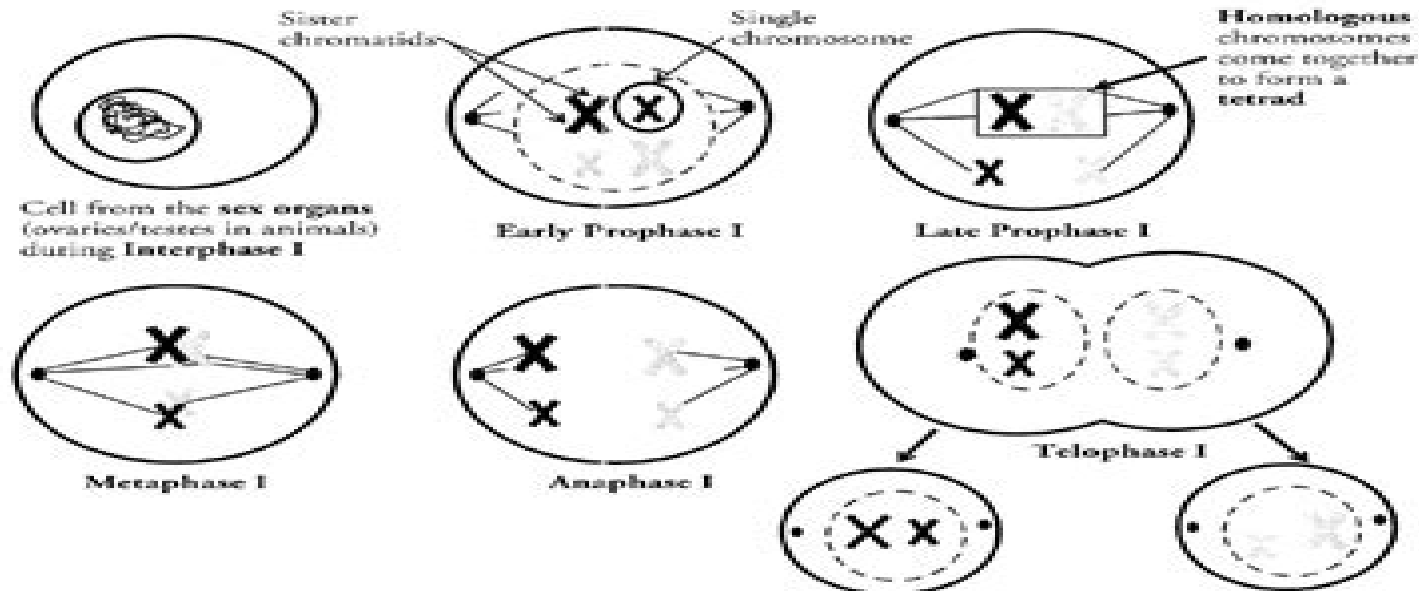
POGIL - Meiosis

How does sexual reproduction lead to genetic variation?

Why?

Cells reproduce through mitosis to make exact copies of the original cell. This is done for growth and repair. Sexually-reproducing organisms have a second form of cell division that produces reproductive cells with half the number of chromosomes. This process is called **meiosis**, and without it, humans, oak trees, beetles, and all other sexually reproducing organisms would be vastly different than they are today.

Model 1 - Meiosis I



1. According to Model 1, the cells that go through meiosis are found in which type of organs?
2. Considering what you already know about mitosis in cells, what event must take place during interphase before a cell proceeds to division?
3. What two structures make up a single replicated chromosome?
4. In Model 1, how many replicated chromosomes does the cell contain during prophase?

Meiosis 17 Pogil Answer Key

Carol Bernstein, Harris Bernstein

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author names.

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Meiosis Carol Bernstein, Harris Bernstein, 2013-09-11 Meiosis is the key process underlying sexual reproduction in eukaryotes occurring in single celled eukaryotes and in most multicellular eukaryotes including animals and most plants. Thus meiosis is of considerable interest both at the scientific level and at the level of natural human curiosity about sexual reproduction. Improved understanding of important aspects of meiosis has emerged in recent years and major questions are starting to be answered such as: How does meiosis occur at the molecular level? How did meiosis and sex arise during evolution? What is the major adaptive function of meiosis and sex? In addition, changing perspectives on meiosis and sex have led to the question: How should meiosis be taught? This book proposes answers to these questions with extensive supporting references to the current literature.

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