

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 Pogil Packet Answers

Ying-Ying Zheng

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

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