

DIPLOID

Meaning: Diploid refers to a cell or organism that contains two complete sets of chromosomes, one from each parent, typically represented by the symbol $2n$.

1. A diploid organism has two complete sets of chromosomes, one inherited from each parent.
2. In humans, the diploid number of chromosomes is 46, organized into 23 pairs.
3. During fertilization, the fusion of two haploid gametes results in a diploid zygote.
4. Most animals and plants are diploid, with the exception of certain stages in their life cycles.
5. The diploid state is essential for sexual reproduction, providing genetic diversity to the offspring.

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