

HOMOLOGY

Meaning: Homology refers to the similarity in structure or sequence between biological entities, such as genes or species, due to shared ancestry.

1. Homology between the two species suggests a common ancestor that lived millions of years ago.
2. The researchers focused on the homology of the DNA sequences to trace evolutionary relationships.
3. In structural biology, homology modeling is used to predict the three-dimensional structure of a protein.
4. Understanding the homology of different genes can provide insights into their functional similarities.
5. The concept of homology is crucial in comparative anatomy, highlighting the similarities in structure among different organisms.

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