

CHROMATOPHORE

Meaning: Chromatophore: a specialized cell or organ in certain animals, such as cuttlefish, that contains pigment and can expand or contract to change the color of the skin for communication or camouflage.

1. The vibrant colors of the cuttlefish are a result of the rapid expansion and contraction of its chromatophores.
2. Scientists study chromatophores to understand how certain species can change their skin color for camouflage.
3. In some reptiles, chromatophores help regulate body temperature by altering the amount of light absorbed.
4. The chromatophores in a chameleon allow it to blend seamlessly into its surroundings, providing effective protection from predators.
5. Researchers are exploring the potential of chromatophores in developing new materials that can change color on demand.

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