

CHEMOTAXIS

Meaning: Chemotaxis is the movement of an organism or cell in response to a chemical gradient, often toward nutrients or away from harmful substances.

1. Chemotaxis is a crucial mechanism by which bacteria navigate toward nutrient sources.
2. The study of chemotaxis has significant implications in understanding immune response.
3. Researchers observed the chemotaxis of immune cells towards sites of infection.
4. Chemotaxis can be influenced by various environmental gradients, such as pH and temperature.
5. Understanding chemotaxis helps scientists develop better targeted drug delivery systems.
6. In plants, chemotaxis plays a role in the growth of roots towards water and nutrients.
7. The phenomenon of chemotaxis can be seen in the way certain insects find food.
8. Chemotaxis is essential for the proper functioning of multicellular organisms during development.
9. Certain types of algae exhibit chemotaxis in response to light, optimizing photosynthesis.
10. The manipulation of chemotaxis could lead to advances in bioremediation techniques.

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