

ANAPLEROTIC

Meaning: Anaplerotic refers to metabolic reactions that replenish intermediates in a metabolic cycle, particularly the citric acid cycle, thereby supporting cellular energy production.

1. Anaplerotic reactions play a crucial role in replenishing metabolic intermediates in the citric acid cycle.
2. The research focused on identifying anaplerotic pathways that could enhance energy production in cancer cells.
3. Increased anaplerotic activity can help restore balance in metabolic pathways disrupted by disease.
4. Some amino acids serve as important anaplerotic substrates, contributing to overall metabolic health.
5. Scientists are exploring anaplerotic strategies to improve the effectiveness of certain chemotherapy treatments.
6. A better understanding of anaplerotic processes may lead to innovative therapies for metabolic disorders.
7. The role of anaplerotic enzymes in cellular metabolism is a fascinating area of study in biochemistry.
8. Anaplerotic flux is essential for maintaining the proper function of the tricarboxylic acid cycle.
9. Researchers are investigating how anaplerotic mechanisms can be manipulated to support tissue regeneration.
10. The integration of anaplerotic pathways into metabolic models offers new insights into cellular function.

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