Biology of Life

Description: Biology of Life: Biochemistry, Physiology and Philosophy provides foundational coverage of the field of biochemistry for a different angle to the traditional biochemistry text by focusing on human biochemistry and incorporating related elements of evolution to help further contextualize this dynamic space. This unique approach includes sections on early human development, what constitutes human life, and what makes it special.

Additional coverage on the differences between the biochemistry of prokaryotes and eukaryotes is also included. The center of life in prokaryotes is considered to be photosynthesis and sugar generation, while the center of life in eukaryotes is sugar use and oxidative phosphorylation. This unique reference will inform specialized biochemistry courses and researchers in their understanding of the role biochemistry has in human life.

- Contextualizes the field of biochemistry and its role in human life
- Includes dedicated sections on human reproduction and human brain development
- Provides extensive coverage on biochemical energetics, oxidative phosphorylation, photosynthesis, and carbon monoxide-acetate pathways

Contents:


SECTION C: BIOCHEMICAL ENERGETICS C1. The evolution and detailed biochemistry of glycolysis C2. The evolution and detailed biochemistry of the citric acid cycle C3. The evolution and detailed biochemistry of photosynthesis C4. The evolution and detailed biochemistry of oxidative phosphorylation C5. The evolution and detailed biochemistry of ATP energetics pathways

SECTION D: DNA AND RNA D1. The evolution and foundation of the genetic code D2. The development and detailed biochemistry of DNA transcription D3. The development and detailed biochemistry of translation D4. The development and biochemistry of post-translational processing


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