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Bioenergetics

A Bridge across Life and Universe

Davor Juretic

Bioenergetics deals with the very first energy transformation steps performed by living cells. Increased dissipation is the major effect of processing external energy packages. Enzymesupported charge separation is the minor but essential outcome for maintaining life. These two events run together as driving-driven processes. The book explores the usefulness of dissecting the entropy production of enzymes involved in cellular defenses, fermentation, respiration, and photosynthesis, assuming that tightly regulated dissipation is the hallmark of life.

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