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LIPID SIGNALING

Cellular metabolism, in its broadest definition, is the total of all biochemical reactions taking place within a cell. The various metabolic networks within each cell provide the necessary nutrients, chemical precursors and energy to sustain life. Traditionally, these networks have been viewed as a self-regulated system independent of most biological systems. It is becoming evident, however, that cellular metabolism influences all cellular processes and is itself influenced by these processes through many different signaling networks. Thus, dysfunction in many different metabolic pathways has been implicated in human pathologies including cancer, diabetes, neurodegeneration, inflammation and obesity. The FOCUS Biomolecules FCCC Cellular Metabolism Library is a new and unique tool to study the relationship between metabolic systems, cellular function and human disease.

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