

Assaying the multiple energy-producing pathways of mammalian cells using biolog's PMM/OmniLog cell-based assay platform

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To elucidate the fundamental metabolic changes taking place in diabetes, obesity, cancer, and stem cell differentiation, it is important to be able to measure and characterize any changing energy flux dynamics associated with NADH generation in each of hundreds of metabolic pathways. Biolog's platform, using 96-well plates with hundreds of distinct pre-loaded carbon and nitrogen substrates, in addition to multiple hormones and ions, quickly and reproducibly records the kinetics of NADH generation on a pathway by pathway basis. Any metabolic rewiring, or energy flux 'dynamics' alterations become readily apparent.