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- (71) **Applicant:** THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 12th Floor, Oakland, CA 94607-5200 (US).
- (72) **Inventors:** BOWIE, James, U.; 4243 Le Bourget Avenue, Culver City, CA 90232 (US). KORMAN, Tyler, P.; 290 W. Laurel Avenue, Sierra Madre, CA 91024 (US). OPGENORTH, Paul, H.; 1839 South Beverly Glen Boulevard, Apt #5, Los Angeles, CA 90025 (US).
- (74) **Agent:** BAKER, Joseph, R., Jr.; Gavrilovich, Dodd & Lindsey LLP, 4370 La Jolla Village Drive, Suite 303, San Diego, CA 92122 (US).

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(54) **Title:** MOLECULAR RHEOSTAT FOR COFACTOR BALANCE

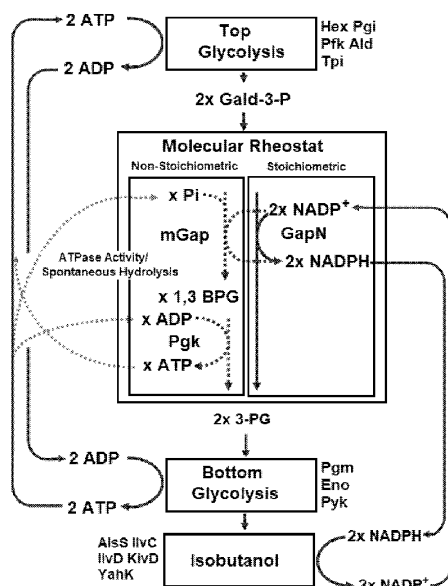


FIG. 1

(57) **Abstract:** The disclosure provides a metabolic pathway for producing a metabolite, the metabolic pathway having a co-factor regulatory system for cofactor utilization in the metabolic pathway.

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