

## Metabolic Engineering Principles Stephanopoulos

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By providing a rigorous description of cell physiology, metabolic engineering also facilitates functional genomics. Its primary objective is to identify specific genetic and environmental manipulations that lead to enhancement of yield and productivity of biotechnological processes, or the overall improvement of cellular properties.

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Shaw AJ, Lam FH, Hamilton M, Consiglio A, MacEwen K, Brevnova EE, Greenhagen E, LaTouf WG, South CR, van Dijken H, Stephanopoulos G. (2016) Metabolic engineering of microbial competitive advantage for industrial fermentation processes. *Science*. 353, 583–586.

### Felix Lam – Metabolic Engineering Laboratory

Greg N. Stephanopoulos (born c. 1950) is an American chemical engineer and the Willard Henry Dow Professor in the Department of Chemical Engineering at the Massachusetts Institute of Technology. He has worked at MIT, Caltech, and the University of Minnesota in the areas of biotechnology, bioinformatics, and metabolic engineering especially in the areas of bioprocessing for biochemical and ...

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