

Metabolic Engineering Principles Stephanopoulos

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~~Theme: Metabolic engineering of specialized metabolism (Session 2)~~ **Metabolic Engineering** Metabolic Engineering Principles Stephanopoulos

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.

Metabolic Engineering: Principles and Methodologies ...

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Metabolic Engineering: Principles and Methodologies ...

Stephanopoulos, G.N., Aristidou, A.A., Nielsen, J. (1998) Metabolic engineering: ... industry and requires skilled engineers with knowledge of how to apply engineering principles to metabolic pathways in order to analyze, design, and alter cell functions. The introduction of basic

concepts, current technologies, and challenges within the field ...

BSE 4564/5984G: Metabolic Engineering

The Gregory N. Stephanopoulos Award for Metabolic Engineering To honor the pioneering contributions of Gregory N. Stephanopoulos for quantitative analysis and design of metabolism in the field of Metabolic Engineering the International Metabolic Engineering Society (IMES) has established the Stephanopoulos Award in Metabolic Engineering.

The Gregory N. Stephanopoulos Award for Metabolic Engineering

Chemical engineering is the only engineering discipline founded on all three sciences, and mathematics. As such, it is well positioned for exploring discoveries and advances in chemistry, biology and physics to solve pressing problems in energy, the environment, biosciences, materials and other exciting areas.

Gregory Stephanopoulos – MIT Chemical Engineering

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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