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George Stephanopoulos. In 1985 he was appointed Professor of Chemical Engineering at MIT where he has been ever since. Stephanopoulos' work has appeared in more than 150 publications and 7 patents. He has been recognized with the Dreyfus Foundation Teacher Scholar Award (1982), Excellence in Teaching Award (1984),...

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Massachusetts Institute of Technology. Professor Stephanopoulos was elected in 2003 to the US National Academy of Engineering and in 2011 as Corresponding Member of the Academy of Athens. He has Honorary degrees from the Danish Technical University and NTUA. In 2016 he served as President of the American Institute of Chemical Engineers.

### **Gregory Stephanopoulos - Metabolic Engineering Laboratory**

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Gregory Stephanopoulos. 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 biofuel production. Stephanopoulos is the author of over 400 scientific publications with more than 35,000 citations (h index = 97)...

### **Gregory Stephanopoulos - Wikipedia**

Metabolic engineering. Metabolic engineering specifically seeks to mathematically model these networks, calculate a yield of useful products, and pin point parts of the network that constrain the production of these products. Genetic engineering techniques can then be used to modify the

network in order to relieve these constraints.

### **Metabolic engineering - Wikipedia**

The Essence of Metabolic Engineering. The concept of metabolic pathway manipulation for the purpose of endowing microorganisms with desirable properties is a very old one indeed. We have many outstanding examples of this strategy in the areas of amino acids, antibiotics, solvents, and vitamin production.

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Principles of ME and Mixed Acid Fermentation "Metabolic Engineering: Principles and Methodologies" Stephanopoulos, Aristidou, and Nielsen, Academic Press, 1998 1. Rates of intra-cellular reactions can be measured by extra-cellular product accumulation. (ATP) 2. The redox balance (balance on NADH consumption and generation) must balance.

### **Chapter 5: Major Metabolic Pathways - Michigan Tech IT ...**

Metabolic engineering is a new field with applications in the production of chemicals, fuels, materials, pharmaceuticals, and medicine at the genetic level. The field's novelty is in the synthesis of molecular biology techniques and the tools of mathematical analysis, which allow rational selection of targets for genetic modification through measurements and control of metabolic fluxes.

### **Metabolic Engineering: Principles and Methodologies ...**

principles from chemical engineering, computational sciences, biochemistry, and molecular biology. In essence, metabolic engineering is the application of engineering principles of design and analysis to the metabolic pathways in order to achieve a particular goal. This goal may be to increase process productivity , as in the case in production ...

### **REVIEW ARTICLE Genetic and metabolic engineering**

Fig.1 The iterative approach of metabolic engineering. Metabolic engineering is an information-driven approach to phenotype improvement that involves (1) measurement, (2) analysis, and (3) perturbation. Data from measurements can be used to formulate models. These models can then be analyzed to generate new targets for manipulation (hy-potheses).

### **Advances in Biochemical Engineering/Biotechnology**

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