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Professor Stephanopoulos currently works in Cambridge, at the Department of Chemical Engineering of MIT, focusing on biotechnology, specifically metabolic and biochemical engineering. He is the Director of the Metabolic Engineering Laboratory.

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Metabolic Engineering: Principles and Methodologies 1 ...

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.

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REVIEW ARTICLE Genetic and metabolic engineering

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Welcome to the Gregory Stephanopoulos research group at MIT! WHO WE ARE WHAT WE DO

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Metabolic engineering - Wikipedia

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Metabolic engineering — methodologies and future prospects ...

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Principles and methodologies applied to implement these objectives constitutc the essence of metabolic engineering. Some of these issues were reviewed a couple of years ago in a special feature in &ience on biotechnology 0991, Vol. 252, pp. 1643-1675).

Gregory Stephanopoulos - Wikipedia

Greg N. Stephanopoulos (1950–Present) 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 ...

Metabolic engineering : principles and methodologies in ...

purposes. Metabolic engineering is referred to as the directed improvement

of cellular properties through the modification of specific biochemical reactions or the introduction of new ones, with the use of recombinant DNA technology (Stephanopoulos, 1999). This multidisciplinary field draws principles from chemical engineering, biochemistry, molecular and cell biology, and computational sciences.

Chapter 5: Major Metabolic Pathways

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.

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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.