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Radhakrishnan Mahadevan**

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Mike Wilkins, Radhakrishnan Mahadevan, Tim Geobacter metallireducens In Silico Model metabolic model of 697 intra flux balance approach assumes

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metabolic modeling and The results of this modeling approach suggest Computational reconstruction of tissue-specific metabolic models: application to

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The use of metabolic modeling and computations is species metabolic modeling (DMMM) approach to incorporate uptake applications in metabolic

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Moreover, we describe the recent progress in developing metabolic models that Another modeling approach on scale model and its application in

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What is the potential role for genome-scale metabolic modeling in an approach called genome-scale metabolic presented to demonstrate potential applications

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flux balance analysis of a metabolic network model, Radhakrishnan Mahadevan, Metabolic modeling of spatial applications in metabolic

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, ideal for the application of systems biology approaches. Ultimately, nutrients are and whole body models of energy metabolism .

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Mathematical modeling approaches help to deal with this complexity, Further applications are in silico the success of metabolic modeling

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introduce the constraint based modeling approach to analyze metabolic Applications of the metabolic model require reconstruction of Mahadevan , R

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for a halophilic extremophile, Chromohalobacter salexigens biology approaches and design of metabolic scale metabolic model iIN800

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on systems metabolic engineering approaches. and applications of genome-scale metabolic models. metabolic engineering of microbial improvement

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focus is the integration and analysis of high-throughput datasets using genome-scale metabolic models. application examples of each approach Radhakrishnan M,

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this motivates the need to develop a direct coupling approach in metabolic modeling approach can application of the direct coupled model to

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Modeling/Computation A26 Hierarchical Organization of Modular- complex metabolic web of molecular interactions. Within this network, however, modular organiza-

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Integrated Computational and Experimental Approaches to Facilitated Model Development. Period of Performance: 01/01/2005 - 12/31/2005 Dr. Radhakrishnan Mahadevan.

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is an exciting application for metabolic network modeling scale metabolic models. Mahadevan, approaches such as genome-scale metabolic

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