## Author's Accepted Manuscript

Precision metabolic engineering: The design of responsive, selective, and controllable metabolic Systems

Monica P. McNerney, Daniel M. Watstein, Mark P. Styczynski



www.elsevier.com/locate/ymben

PII:S1096-7176(15)00081-6DOI:http://dx.doi.org/10.1016/j.ymben.2015.06.011Reference:YMBEN1018

To appear in: Metabolic Engineering

Received date: 25 May 2015 Revised date: 18 June 2015 Accepted date: 19 June 2015

Cite this article as: Monica P. McNerney, Daniel M. Watstein, Mark P. Styczynski, Precision metabolic engineering: The design of responsive, selective, and controllable metabolic Systems, *Metabolic Engineering*, http://dx. doi.org/10.1016/j.ymben.2015.06.011

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### ACCEPTED MANUSCRIPT

# **Precision Metabolic Engineering: the Design of Responsive, Selective, and Controllable Metabolic Systems**

Monica P. McNerney, Daniel M. Watstein, and Mark P. Styczynski\*

School of Chemical & Biomolecular Engineering, Georgia Institute of Technology, Atlanta, GA, USA

\*Corresponding author. Address: 311 Ferst Drive NW, Atlanta, GA 30332-0100, USA; email: Mark.Styczynski@chbe.gatech.edu

#### Keywords

Precision metabolic engineering; metabolic control; sensory systems; pathway regulation; product selectivity; synthetic biology

### Highlights

Acci

- Metabolic engineering has potential for applications beyond maximization of titer.
- These new "precision" applications have different goals and characteristics.
- Many existing techniques can be applied for precision metabolic engineering.

Download English Version:

https://daneshyari.com/en/article/6494336

Download Persian Version:

https://daneshyari.com/article/6494336

Daneshyari.com