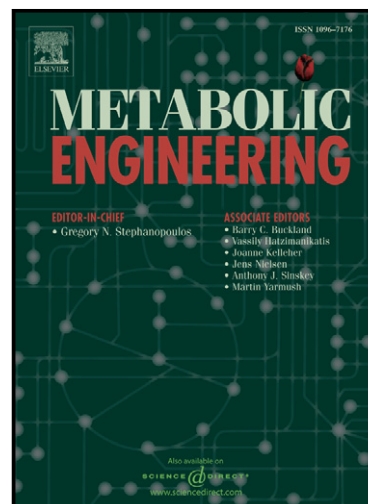


# Author's Accepted Manuscript

Multiplex metabolic pathway engineering using CRISPR/Cas9 in *Saccharomyces cerevisiae*

Tadas Jakočiūnas, Ida Bonde, Markus Herrgård, Scott J. Harrison, Mette Kristensen, Lasse E. Pedersen, Michael K. Jensen, Jay D. Keasling



[www.elsevier.com/locate/ymben](http://www.elsevier.com/locate/ymben)

PII: S1096-7176(15)00010-5  
DOI: <http://dx.doi.org/10.1016/j.ymben.2015.01.008>  
Reference: YMBEN963

To appear in: *Metabolic Engineering*

Received date: 6 November 2014  
Revised date: 13 December 2014  
Accepted date: 20 January 2015

Cite this article as: Tadas Jakočiūnas, Ida Bonde, Markus Herrgård, Scott J. Harrison, Mette Kristensen, Lasse E. Pedersen, Michael K. Jensen, Jay D. Keasling, Multiplex metabolic pathway engineering using CRISPR/Cas9 in *Saccharomyces cerevisiae*, *Metabolic Engineering*, <http://dx.doi.org/10.1016/j.ymben.2015.01.008>

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.

**Multiplex metabolic pathway engineering using CRISPR/Cas9 in *Saccharomyces cerevisiae***

Tadas Jakočiūnas <sup>1</sup>, Ida Bonde <sup>1</sup>, Markus Herrgård <sup>1</sup>, Scott J. Harrison <sup>1</sup>, Mette Kristensen <sup>1</sup>, Lasse E. Pedersen <sup>1</sup>, Michael K. Jensen <sup>\*,1</sup> and Jay D. Keasling <sup>1,2,3,4</sup>

<sup>1</sup> The Novo Nordisk Foundation Center for Biosustainability, Technical University of Denmark, Denmark

<sup>2</sup> Joint BioEnergy Institute, Emeryville, CA, USA

<sup>3</sup> Physical Biosciences Division, Lawrence Berkeley National Laboratory, Berkeley, CA, USA

<sup>4</sup> Department of Chemical and Biomolecular Engineering & Department of Bioengineering University of California, Berkeley, CA, USA

Tadas Jakočiūnas: [tajak@biosustain.dtu.dk](mailto:tajak@biosustain.dtu.dk)

Ida Bonde: [idab@biosustain.dtu.dk](mailto:idab@biosustain.dtu.dk)

Markus Herrgård: [herrgard@biosustain.dtu.dk](mailto:herrgard@biosustain.dtu.dk)

Scott J. Harrison: [sjha@biosustain.dtu.dk](mailto:sjha@biosustain.dtu.dk)

Mette Kristensen: [metk@biosustain.dtu.dk](mailto:metk@biosustain.dtu.dk)

Lasse E. Pedersen: [laeb@biosustain.dtu.dk](mailto:laeb@biosustain.dtu.dk)

Jay D. Keasling: [jdkeasling@lbl.gov](mailto:jdkeasling@lbl.gov)

\* Corresponding author: Michael K. Jensen, The Novo Nordisk Foundation Center for Biosustainability, Technical University of Denmark, Kogle Allé 6, Hørsholm DK-2970, Denmark. Tel.: +45 61284850; fax: +45 45258001; e-mail: [mije@biosustain.dtu.dk](mailto:mije@biosustain.dtu.dk)

Download English Version:

<https://daneshyari.com/en/article/6494485>

Download Persian Version:

<https://daneshyari.com/article/6494485>

[Daneshyari.com](https://daneshyari.com)