



UvA-DARE (Digital Academic Repository)

Physiological responses of carbon fluxes to deletion of specific genes in *Saccharomyces cerevisiae*.

Raamsdonk, L.M.

Publication date
2000

[Link to publication](#)

Citation for published version (APA):

Raamsdonk, L. M. (2000). *Physiological responses of carbon fluxes to deletion of specific genes in Saccharomyces cerevisiae*.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Contents

Chapter 1	
General Introduction	7
Chapter 2	
Functional genomics <i>via</i> the metabolome: a strategy for characterising mutations with a silent phenotype	25
Chapter 3	
Contribution of F_1F_0 ATP synthase in <i>Saccharomyces cerevisiae</i> cells to energetics and glucose metabolism	41
Chapter 4	
F_1F_0 ATPase strongly controls both growth and respiration of <i>Saccharomyces cerevisiae</i> on non-fermentable substrates	53
Chapter 5A	
Physiological properties of <i>Saccharomyces cerevisiae</i> deleted in hexokinase II	73
Chapter 5B	
Effects of the deletion of hexokinase II on the dynamics of glycolysis in continuous cultures of <i>Saccharomyces cerevisiae</i>	89
Chapter 6	
Co-consumption of sugars or ethanol and glucose in a <i>Saccharomyces cerevisiae</i> strain deleted in the <i>HXK2</i> gene	103
Chapter 7	
Deletion of the <i>HXK2</i> gene reveals the importance of biotin for oxidative growth of <i>Saccharomyces cerevisiae</i> on glucose	117
Chapter 8	
General Discussion	127
	5

Summary	131
Samenvatting	135
References	139
List of publications	155
Dankwoord	157