

## Reading/Writing Assignment #2

Read the following three articles (links provided on course website):

M. Guevara-Martinez, K. S. Gällnö, B. Sjöberg, J. Jarmander, M. Perez-Zabaleta, J. Quillaguamán, G. Larsson. 2015. Regulating the production of (R)-3-hydroxybutyrate in *Escherichia coli* by N or P limitation. *Frontiers in Microbiology* 6:844

A. Masuda, Y. Toya, H. Shimizu. 2017. Metabolic impact of nutrient starvation in mevalonate-producing *Escherichia coli*. *Bioresource Technology* 245:1634-1640

M. Perez-Zabaleta, M. Guevara-Martinez, M. Gustavsson, J. Quillaguamán, G. Larsson, A. J. A. van Maris. 2019. *Applied Microbiology and Biotechnology* 103:5627-5639

Write a report which summarizes and critiques these articles. Address the following points in your report (but do not address them as bulleted points!): What is the common theme? What questions do you have that were left unaddressed? Are there any results which are not in your opinion adequately explained? What experiments would you propose as next logical steps?

Please pay special note of the terms “starvation” and “limitation”. The former implies lack of growth, while the second implies continued growth under nutrient limited conditions.