

## Chapter 8

### General

Oliphant, K. & Allen-Vercoe, E. (2019). Macronutrient metabolism by the human gut microbiome: major fermentation by-products and their impact on host health. *Microbiome* **7**(1), 91. <https://doi.org/10.1186/s40168-019-0704-8>

Sekoai, P. T., Mhlongo, S. I. & Ezeokoli, O. T. (2019). Progress in the development of methods used for the abatement of microbial contaminants in ethanol fermentations: a review. *Reviews in Environmental Science and Bio/Technology* **18**(4), 795-821. <https://doi.org/10.1007/s11157-019-09511-2>

### Hydrogen in fermentation

Lampret, O., *et al.* (2019). The final steps of [FeFe]-hydrogenase maturation. *Proceedings of the National Academy of Sciences of the USA* **116**(32), 15802-15810. <https://www.pnas.org/content/pnas/116/32/15802.full.pdf>

Lu, Y. & Koo, J. (2019). O<sub>2</sub> sensitivity and H<sub>2</sub> production activity of hydrogenases—A review. *Biotechnology and Bioengineering* **116**(11), 3124-3135. <https://doi.org/10.1002/bit.27136>

## **Oxygen toxicity**

Bitew, M. A., *et al.* (in press). SdrA, an NADP(H)-regenerating enzyme, is crucial for *Coxiella burnetii* to resist oxidative stress and replicate intracellularly. *Cellular Microbiology*, e13154. <https://onlinelibrary.wiley.com/doi/abs/10.1111/cmi.13154>

Feng, X., *et al.* (2019). Distinct roles of *Shewanella oneidensis* thioredoxin in regulation of cellular responses to hydrogen and organic peroxides. *Applied and Environmental Microbiology* **85**(21), e01700-01719. <https://aem.asm.org/content/aem/85/21/e01700-19.full.pdf>

## **Ethanol fermentation**

## **Lactate fermentation**

## **Butyrate and butanol**

Ferreira, S., *et al.* (2019). Discovery and implementation of a novel pathway for n-butanol production via 2-oxoglutarate. *Biotechnology for Biofuels* **12**(1), 230. <https://doi.org/10.1186/s13068-019-1565-x>

Huang, T., *et al.* (2019). The effect of *Clostridium butyricum* on gut microbiota, immune response and intestinal barrier function during the development of necrotic enteritis in

chickens. *Frontiers in Microbiology* **10**, 2309.

<https://www.frontiersin.org/article/10.3389/fmicb.2019.02309>

List, C., *et al.* (2019). Impact of iron reduction on the metabolism of *Clostridium acetobutylicum*. *Environmental Microbiology* **21**(10), 3548-3563.

<https://onlinelibrary.wiley.com/doi/abs/10.1111/1462-2920.14640>

## **Mixed acid fermentation**

### **Propionate**

### **Fermentation of amino acids**

### **Fermentation of dicarboxylic acids**

### **Hyperthermophilic archaeal fermentation**