**Chapter 5**

**General**

**TCA cycle**

MacLean, A. *et al*. (2023). The tricarboxylic acid (TCA) cycle: a malleable metabolic network to counter cellular stress. *Critical Reviews in Biochemistry & Molecular Biology* **58**(1), 2201945. <https://doi.org/10.1080/10409238.2023.2201945>

Pettinato, E. *et al*. (2022). Succinyl-CoA:acetate CoA-transferase functioning in the oxidative tricarboxylic acid cycle in *Desulfurella acetivorans*. *Frontiers in Microbiology* **13**, 1080142. <https://www.frontiersin.org/articles/10.3389/fmicb.2022.1080142>

**Anaplerotic sequence**

Gulevich, A. Y. *et al*. (2023). The effect of glyoxylate shunt inactivation on biosynthesis of adipic acid through inverted fatty acid β-oxidation by *Escherichia coli* strains. *Applied Biochemistry & Microbiology* **59**(3), 267-274. <https://doi.org/10.1134/S0003683823030080>

Yang, P. *et al*. (2022). Engineering the glyoxylate cycle for chemical bioproduction. *Frontiers in Bioengineering & Biotechnology* **10**, 1066651.

**Incomplete TCA fork and reductive TCA cycle**

**Energy transduction in prokaryotes**

**Proton (sodium) motive force, and acid and alkali tolerance**

Schwarz, J. *et al*. (2022). Bacterial battle against acidity. *FEMS Microbiology Reviews* **46**(6), fuac037. <https://doi.org/10.1093/femsre/fuac037>

**Electron transport**

Berg, J. S. *et al*. (2022). How low can they go? Aerobic respiration by microorganisms under apparent anoxia. *FEMS Microbiology Reviews* **46**(3), fuac006. <https://doi.org/10.1093/femsre/fuac006>

Glass, J. B. *et al*, (2023). Something old, something new, something borrowed, something blue: the anaerobic microbial ancestry of aerobic respiration. *Trends in Microbiology* **31**(2), 135-141. <https://doi.org/10.1016/j.tim.2022.08.006>

Liang, Y. *et al*. (2023). Structure of mycobacterial respiratory complex I. *Proceedings of the National Academy of Sciences of the USA* **120**(13), e2214949120. <https://www.pnas.org/doi/abs/10.1073/pnas.2214949120>

Mehdiratta, K. *et al*. (2023). Respiratory quinone switches from menaquinone to polyketide quinone during the development cycle in *Streptomyces* sp. strain MNU77. *Microbiology Spectrum* **11**(1), e02597-22. <https://journals.asm.org/doi/abs/10.1128/spectrum.02597-22>

**Adenosine triphosphate (ATP) and ATPase**

Frasch, W. D. *et al*. (2022). F1FO ATP synthase molecular motor mechanisms. *Frontiers in Microbiology* **13**, 965620. <https://doi.org/10.3389/fmicb.2022.965620>

Yin, L. *et al*. (2023). ATP is a major determinant of phototrophic bacterial longevity in growth arrest. *mBio* **14**(2), e03609-22. <https://journals.asm.org/doi/abs/10.1128/mbio.03609-22>

**Other prokaryotic energy transduction mechanisms**