

Chapter 10

General

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Reverse electron transport

Nitrification

Colourless sulfur bacteria

Amend, J. P., *et al.* (2020). Another chemolithotrophic metabolism missing in nature: sulfur comproportionation. *Environmental Microbiology* **22**(6), 1971-1976.

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Ferrous iron and other metal oxides

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Hydrogen oxidizers and carboxydobacteria

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Other inorganic electron donors

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CO₂ fixation

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Calvin cycle

Reductive TCA cycle

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Acetyl-CoA pathway

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3-hydroxypropionate cycle

4-hydroxybutyrate cycles

Liu, L., *et al.* (2020). Enzymes catalyzing crotonyl-CoA conversion to acetoacetyl-CoA during the autotrophic CO₂ fixation in *Metallosphaera sedula*. *Frontiers in Microbiology* **11**, 354. <https://www.frontiersin.org/article/10.3389/fmicb.2020.00354>