**Chapter 4**

**General**

**EMP pathway**

Solórzano, P. K. P. *et al*. (2023). A manganese-independent aldolase enables *Staphylococcus aureus* to resist host-imposed metal starvation. *mBio* **14**(1), e03223-22. <https://journals.asm.org/doi/abs/10.1128/mbio.03223-22>

**Methylglyoxal bypass**

**Modified EMP pathways**

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**Gluconeogenesis**

**HMP pathway**

**ED and modified ED pathways**

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**PK pathways**

Bruinsma, L. *et al*. (2023). Increasing cellular fitness and product yields in *Pseudomonas putida* through an engineered phosphoketolase shunt. *Microbial Cell Factories* **22**, 14. <https://doi.org/10.1186/s12934-022-02015-9>

**Metabolic analysis**