



## Fig. 9. Extra pathway for highr efficiency of carbon fixation by Rubisco

Fig. 8 assumes a 100% efficiency of Rubisco to fix carbon into RuBP. In reality, however, Rubisco *oxygenates* for 2 out of 10 molecules of RuBP, a process called photorespiration. Photorespiration lowers the already low efficiency of carbon fixation by Rubisco and spends extra energy to handle the products. To fix this shortcoming of Rubisco, some plant species have evolved extra pathways to condense CO2 concentration at Rubisco



![](_page_2_Figure_0.jpeg)

![](_page_3_Figure_0.jpeg)