frontiers

Supplementary Material

The Role of the Glyoxylate Shunt in the Acclimation to Iron Limitation in Marine Heterotrophic Bacteria

Coco Koedooder*, Audrey Guéneuguès, Rémy Van Geersdaële, Valérie Vergé, François-Yves Bouget, Yannick Labreuche, Ingrid Obernosterer, Stéphane Blain

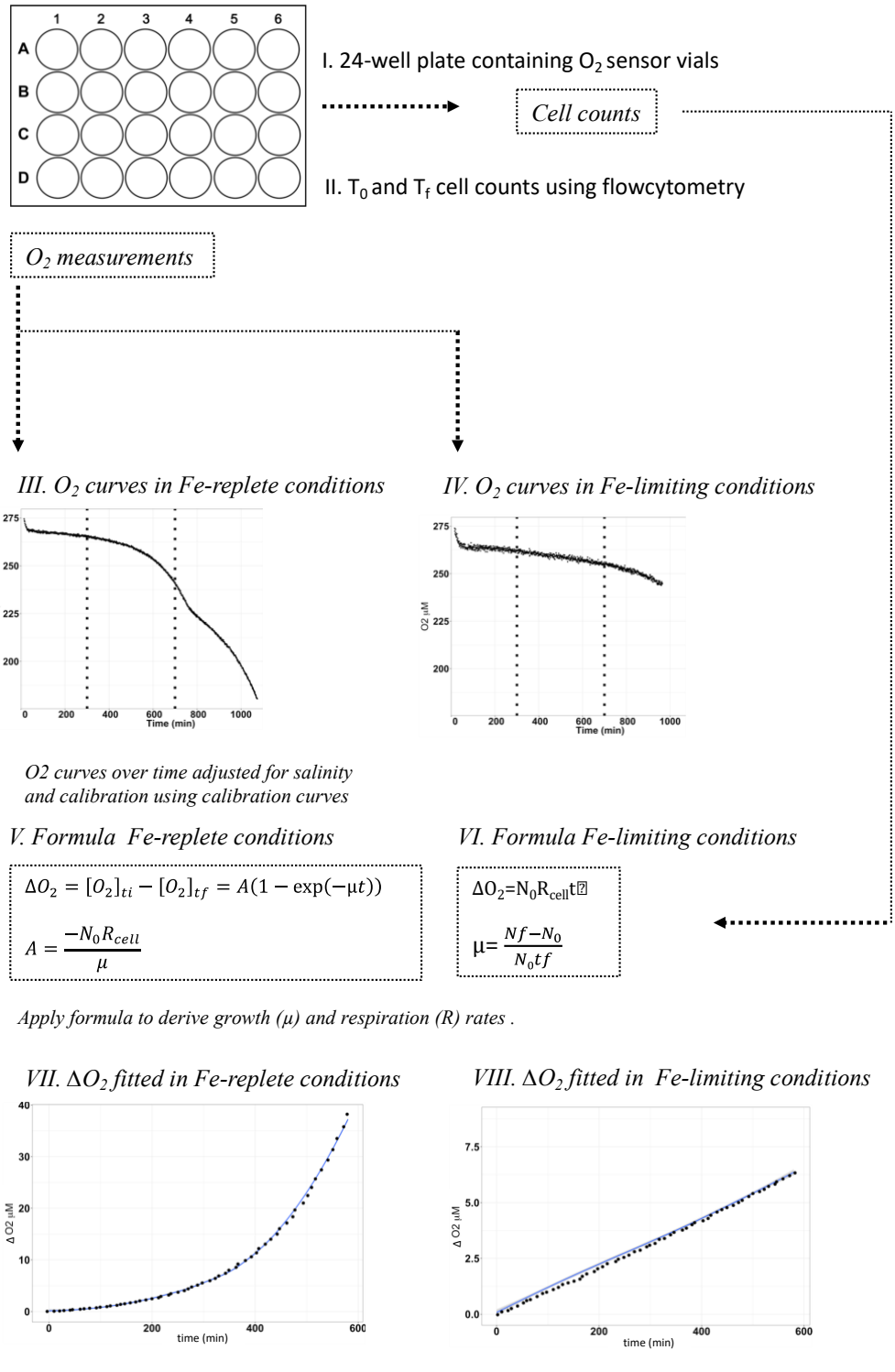
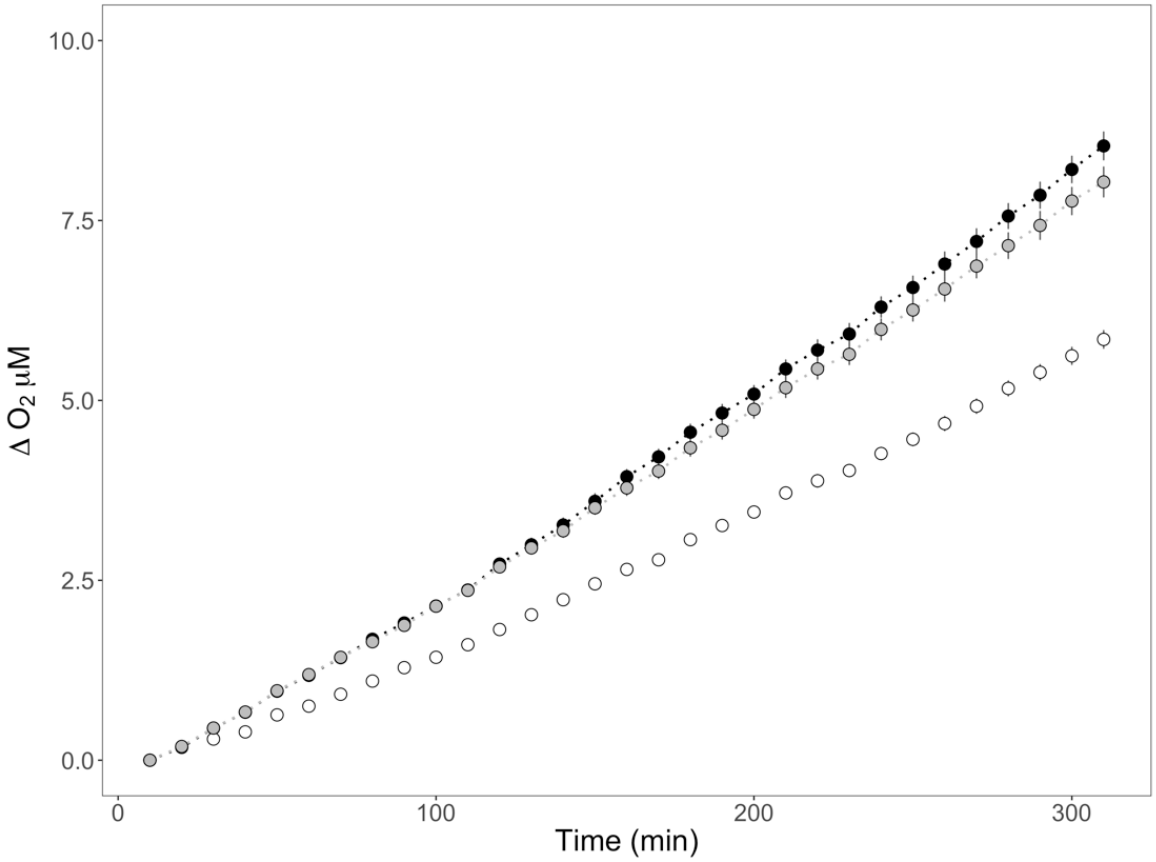
*** Correspondence:** Coco Koedooder: koedooder@obs-banyuls.fr

Supplementary Table 1. List of primers used in the construction of vectors for Δicl, icl+ and icl-luc and their respective amplification and consequent transformation using *E.coli* Π3813 and *E.coli* β3914.

Δ*icl*	**Primer name**	**Primer Sequence (5' ⟶ 3')**
Plasmid pSW7848 amplification	For 190613-22	GAATTCCTGCAGCCCGGGGG
	Rev 190613-21	GAATTCGATATCAAGCTTATCGATAC
icl Upstream-fragment	For 111013-3	GTATCGATAAGCTTGATATCGAATTCGATGAGTTATTAGCGCCGTG
	Rev 111013-4	CATTGCTCCCCGATGATAACGTCTCTGTCCGCATTAATCC
icl Downstream-fragment	For 111013-5	GGATTAATGCGGACAGAGACGTTATCATCGGGGAGCAATG
	Rev 111013-6	CCCCCGGGCTGCAGGAATTCCCGCGTACTTTGTCACGTAA
***icl*$^{+}$**	**Primer name**	**Primer Sequence (5' ⟶ 3')**
Plasmid PMRB-PLAC*ICL* amplification	For 300518-1	GCCCGGGCCCATGCTAAATCCTAGTGACTTTGTAG
	Rev 300518-2	GCCCCTCGAGTTAAGCTCTTGTGTTGTCTGCATC
icl-luc	**Primer name**	**Primer Sequence (5' ⟶ 3')**
Plasmid pSW7848** amplification	For 190314-p-aceBA	GTATCGATAAGCTTGATATCGAATTCTGTCTTTTGGGTGTAAGGGG
	Rev 190314-p-aceB	GCTGTTGGCGTGTTAATGTCATAACGCCCCATCCTTGTAAC
icl-Fragment	For 190314-ICL	GTTACAAGGATGGGGCGTTATGACATTAACACGCCAACAGC
	Rev 190314-ICL	CTTTATGTTTTTGGCGTCTTCCATCTTAAACTGCTCTTCTTCTGTTG
luciferase-Fragment	For 190314-luc	CAACAGAAGAAGAGCAGTTTAAGATGGAAGACGCCAAAAACATAAAG
	Rev 190314-luc	CACTAAAGGGAACAAAAGCTGGAGAATTCTTACACGGCGATCTTTCCGCC

** Amplification of plasmid pSW7848 in icl-luc includes the removal of the *ccdB* toxin gene

Supplementary Figure 1. Work flow regarding growth and respiration rates derived from O_2 measurements in Fe-replete and Fe-limiting conditions (I), and cell counts (II) in order to derive O_2 curves (III, IV) where the derivative of ΔO_2 is fitted into a formula (V, VI) and plotted for verification (VII, VIII).



Supplementary Figure 2: average ΔO_2 rates every 10 minutes during the exponential growth phase of wt (black), Δicl (white) and icl+ (grey) subjected to Fe-limitation (100 µM DFOB)