

SUPPLEMENTARY MATERIAL

Quorum quenching effect of cyclodextrins on the pyocyanin and pyoverdine production of *Pseudomonas aeruginosa*

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Table S1 The population growth [optical density, OD] in the presence of the tested α - and β -CD concentrations, in the *P. aeruginosa* DSM 1117 large volume model system. Significant stimulation are marked by bold italics.

Concentration [mM]	Optical density [-] 72 h	
	ACD	BCD
Control	2.454 $\pm$ 0.039	2.109 $\pm$ 0.034
1	2.417 $\pm$ 0.056	2.182 $\pm$ 0.061
5	2.873 $\pm$ 0.035	2.350 $\pm$ 0.053
10	3.149 $\pm$ 0.097	2.093 $\pm$ 0.077

Table S2 The population growth [optical density, OD] in the presence of the tested α - and β -CD derivatives concentrations, in the *P. aeruginosa* PAO1 small volume model system. Significant effects compared to control (inhibition or stimulation) are marked by bold italics.

α -CD and its derivatives		Optical density [-]	
		24 h	48 h
Control		0.74 ± 0.03	0.98 ± 0.05
ACD [mM]	0,5	0.74 ± 0.01	<i>0.94 ± 0.02</i>
	2,5	0.74 ± 0.02	<i>0.93 ± 0.01</i>
	12,5	<i>0.67 ± 0.02</i>	<i>0.89 ± 0.02</i>
Control		0.74 ± 0.03	0.98 ± 0.05
QAACD [mM]	0,5	0.78 ± 0.01	0.95 ± 0.01
	2,5	0.76 ± 0.03	<i>1.05 ± 0.03</i>
	12,5	<i>0.68 ± 0.01</i>	0.98 ± 0.02
Control		0.74 ± 0.02	0.96 ± 0.05
HPACD [mM]	0,5	0.73 ± 0.01	0.91 ± 0.02
	2,5	0.68 ± 0.01	<i>0.87 ± 0.02</i>
	12,5	<i>0.60 ± 0.03</i>	0.96 ± 0.07
Control		0.98 ± 0.02	0.96 ± 0.05
ACDPS [mM]	0,5	0.97 ± 0.02	0.97 ± 0.05
	2,5	<i>0.88 ± 0.02</i>	<i>1.16 ± 0.01</i>
	12,5	<i>0.89 ± 0.02</i>	<i>1.24 ± 0.05</i>

β -CD and its derivatives		Optical density [-]	
		24 h	48 h
Control		0.71 ± 0.02	0.88 ± 0.02
BCD [mM]	0,5	<i>1.04 ± 0.01</i>	<i>1.23 ± 0.02</i>
	2,5	<i>0.90 ± 0.02</i>	<i>1.01 ± 0.02</i>
	12,5	<i>1.00 ± 0.03</i>	<i>1.17 ± 0.02</i>
Control		0.98 ± 0.02	0.96 ± 0.05
QABCD [mM]	0,5	0.98 ± 0.01	0.94 ± 0.02
	2,5	0.97 ± 0.02	0.92 ± 0.02
	12,5	<i>0.87 ± 0.01</i>	<i>1.22 ± 0.02</i>
Control		0.74 ± 0.02	0.96 ± 0.05
HPBCD [mM]	0,5	0.76 ± 0.02	0.95 ± 0.06
	2,5	<i>0.64 ± 0.01</i>	0.78 ± 0.01
	12,5	<i>0.54 ± 0.04</i>	<i>0.72 ± 0.03</i>
Control		0.98 ± 0.02	0.96 ± 0.05
BCDPS [mM]	0,5	0.93 ± 0.07	<i>0.85 ± 0.07</i>
	2,5	0.89 ± 0.03	0.89 ± 0.03
	12,5	<i>0.77 ± 0.01</i>	<i>1.15 ± 0.03</i>
Control		0.74 ± 0.03	0.98 ± 0.05
RAMEB [mM]	0,5	0.76 ± 0.02	0.94 ± 0.02
	2,5	0.74 ± 0.01	0.96 ± 0.02
	12,5	<i>0.68 ± 0.02</i>	<i>0.87 ± 0.03</i>
Control		0.74 ± 0.02	0.96 ± 0.05
SBEB CD [mM]	0,5	0.74 ± 0.01	0.87 ± 0.02
	2,5	0.67 ± 0.01	0.90 ± 0.04
	12,5	<i>0.54 ± 0.05</i>	0.83 ± 0.04

Table S2 The population growth [optical density, OD] in the presence of the tested α - and β -CD concentrations, in the *P. aeruginosa* DSM 1117 large volume model system. Significant stimulation are marked by bold italics.

Concentration [mM]	Optical density [-] 72 h	
	ACD	BCD
Control	2.454 $\pm$ 0.039	2.109 $\pm$ 0.034
1	2.417 $\pm$ 0.056	2.182 $\pm$ 0.061
5	2.873 $\pm$ 0.035	2.350 $\pm$ 0.053
10	3.149 $\pm$ 0.097	2.093 $\pm$ 0.077