

Supplementary data for article:

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Novakovic, M. Diarylheptanoids from *Alnus Viridis* Ssp *Viridis* and *Alnus Glutinosa*:
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Supporting Information

Diarylheptanoids from *Alnus viridis* ssp. *viridis* and *Alnus glutinosa*:

Modulation of Quorum Sensing Activity in *Pseudomonas aeruginosa*

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Table S1 Minimal inhibitory concentrations (MIC, $\mu\text{g/mL}$) of diarylheptanoids against *P. aeruginosa* ATCC 27853 and *P. aeruginosa* PAO1 planktonically grown cells.

Compound	1	2	3	4	5	6	7	S*
MIC	250	250	250	500	250	500	125	20
<i>P. aeruginosa</i> ATCC 27853								
MIC	250	250	250	500	125	500	125	25
<i>P. aeruginosa</i> PAO1								
MIC17	312	312	312	313	156	312	156	/

*Streptomycin MIC ($\mu\text{g/mL}$).

Table S2 Activity of diarylheptanoids on twitching and motility of *P. aeruginosa* PAO1.

Compound	Colony diameter (mm \pm SD)	Colony color	Protrusions diameter (μm)	Colony edge on microscope
1	10 \pm 2	light green	24-64	partly reduced protrusion
2	10 \pm 1	white	24-40	reduced protrusion
3	11 \pm 1	white	40-80	reduced protrusion
4	12 \pm 1	light green	40-64	partly reduced protrusion
5	10 \pm 1	light green	24-64	partly reduced protrusion
6	9 \pm 2	white	32-120	reduced protrusion
7	10 \pm 1	white	64-120	reduced protrusion
Streptomycin	10 \pm 1	light green	48-80	reduced protrusion
Control PAO1	21 \pm 4	green	80-240	regular protrusion

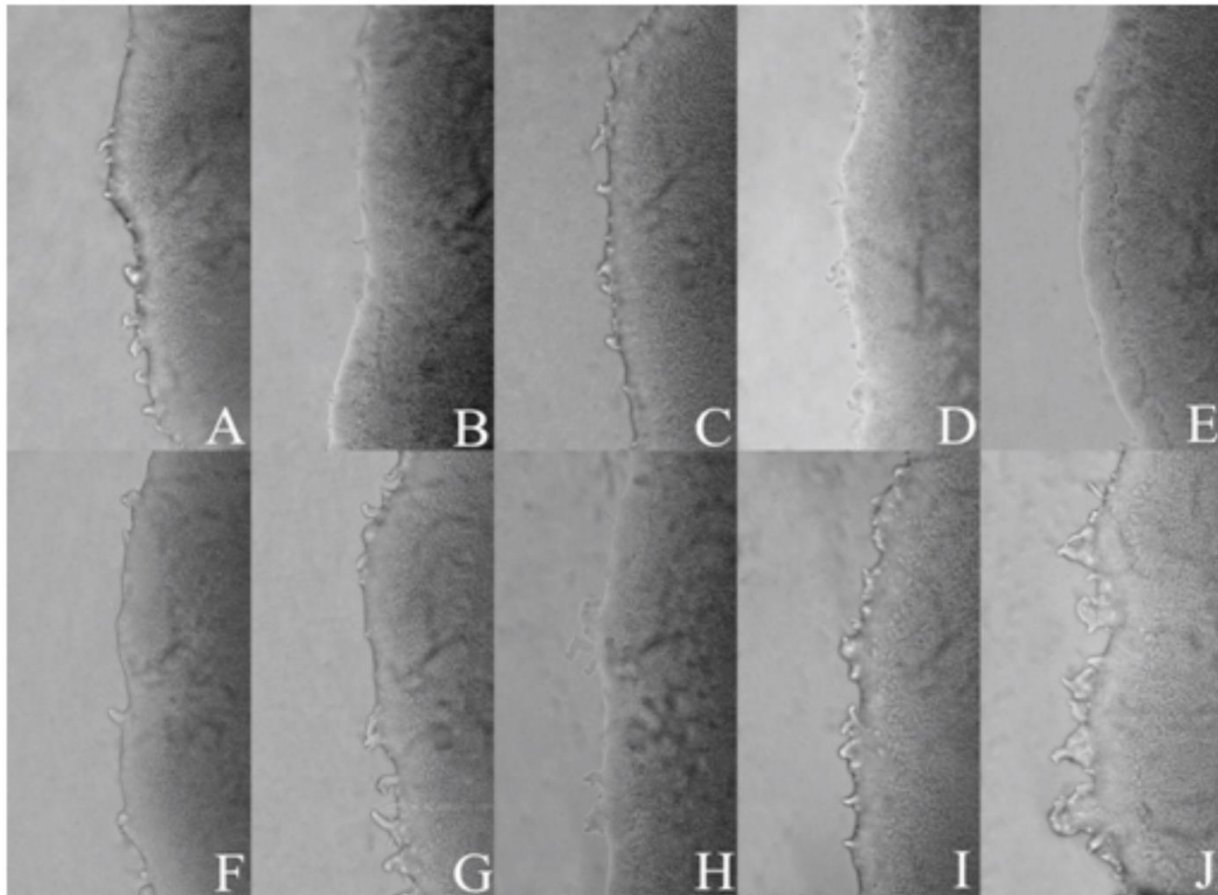


Fig. S1 Light microscopy of colony edges of *P. aeruginosa* PAO1 in twitching motility plates, grown in the presence or absence of diarylheptanoids. *P. aeruginosa* colony in the presence of **1** (A), **2** (B), **3** (C), **4** (D), **5** (E), **6** (F), and **7** (G) were rounded, had a smooth dome shape, and lacked a hazy zone surrounding the colony. *P. aeruginosa* colony in the presence of streptomycin (0.5 MIC) was a reduced protrusion (H); *P. aeruginosa* colony in the presence of ampicillin regularly formed protrusions (I); *P. aeruginosa* colony in the absence of compounds produced a flat, widely spread, irregularly shaped colony (J); Magnification: (A-J) $\times 100$.