

## Supplementary Information

### Hydramacin-1 in Action – Scrutinising the Barnacle Model

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**Table SI1: Antimicrobial activity of HM1 against several Gram-negative and Gram-positive bacteria.** Values are depicted in  $\mu\text{M}$  derived from references (5) and (30). The aggregation column shows whether aggregation was detected (+) or not detected (-) after administration of HM1.

	<b>MBC</b>	<b>LD90</b>	<b>Aggregation</b>
<b>Gram-negative bacteria</b>			
<i>C. freundii</i> NCTC 9750	7.1	0.9	+
<i>B. cepacia</i> ATCC 17759	>14.3	>14.3	-
<i>E. coli</i> ATCC 25922	0.9	0.2	+
<i>K. pneumoniae</i> ATCC 13883	0.9	0.5	+
<i>P. mirabilis</i> ATCC 21100	14.3	0.9	-
<i>Ps. aeruginosa</i> NCTC 11446	>14.3	14.3	+
<i>S. marcescens</i> NCTC 10211	>14.3	1.8	+
<i>Y. enterocolitica</i> NCTC 11176	0.9	0.2	+
<b>Gram-positive bacteria</b>			
<i>S. aureus</i> ATCC 6538	>14.3	>14.3	+
<i>S. hemolyticus</i> ATCC 29970	1.8	0.9	-
<i>B. megaterium</i> ATCC 14581	0.2	0.1	+
<i>E. faecalis</i> ATCC 29212	14.3	0.9	+
<i>S. epidermidis</i> ATCC 14990	>14.3	>14.3	+
<i>S. hominis</i> ATCC 27844	>14.3	3.6	-
<i>S. pneumoniae</i> ATCC 33400	>14.3	>14.3	-
<i>Str. pyogenes</i> ATCC 12344	>14.3	7.1	+

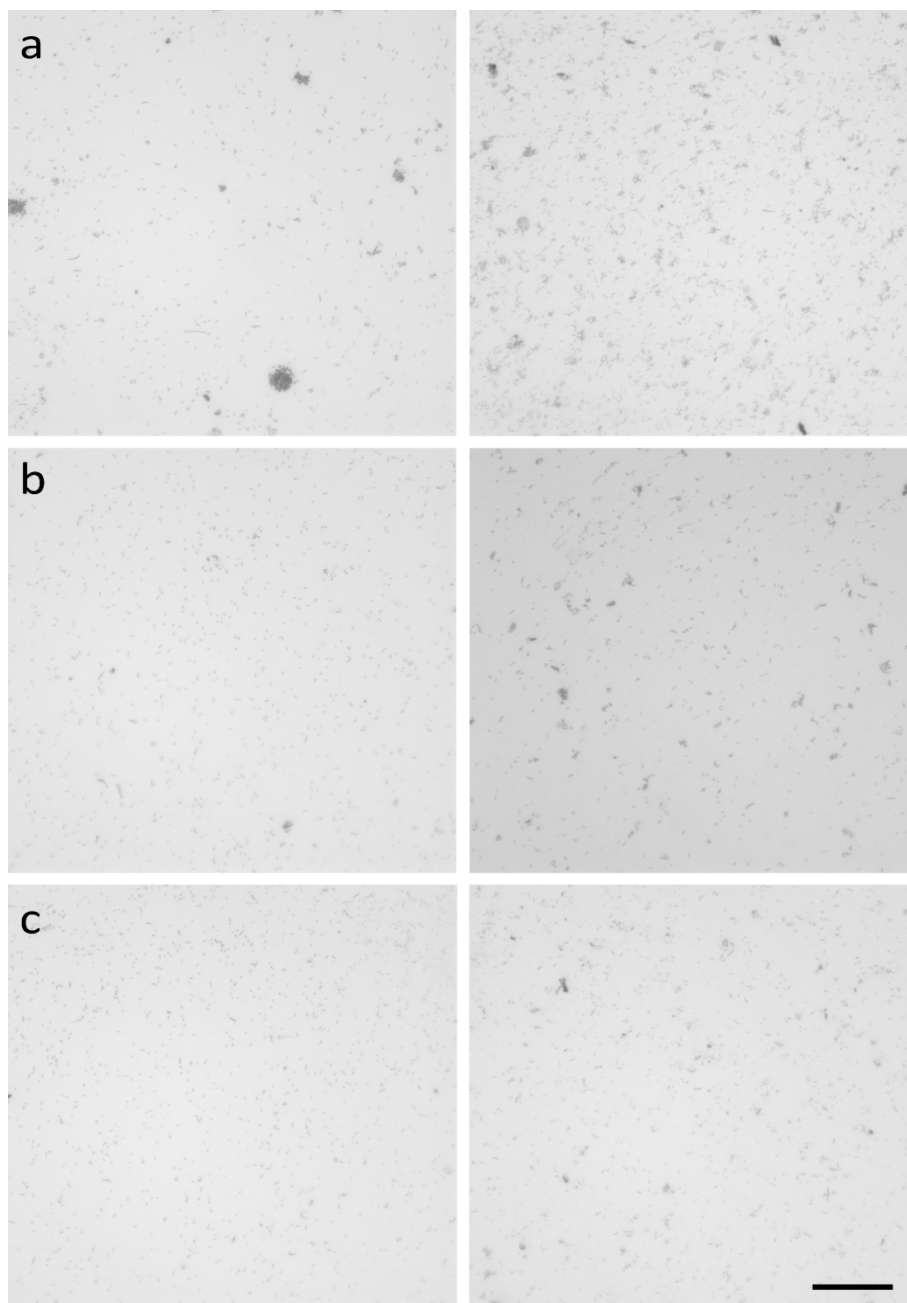


Figure SI 1

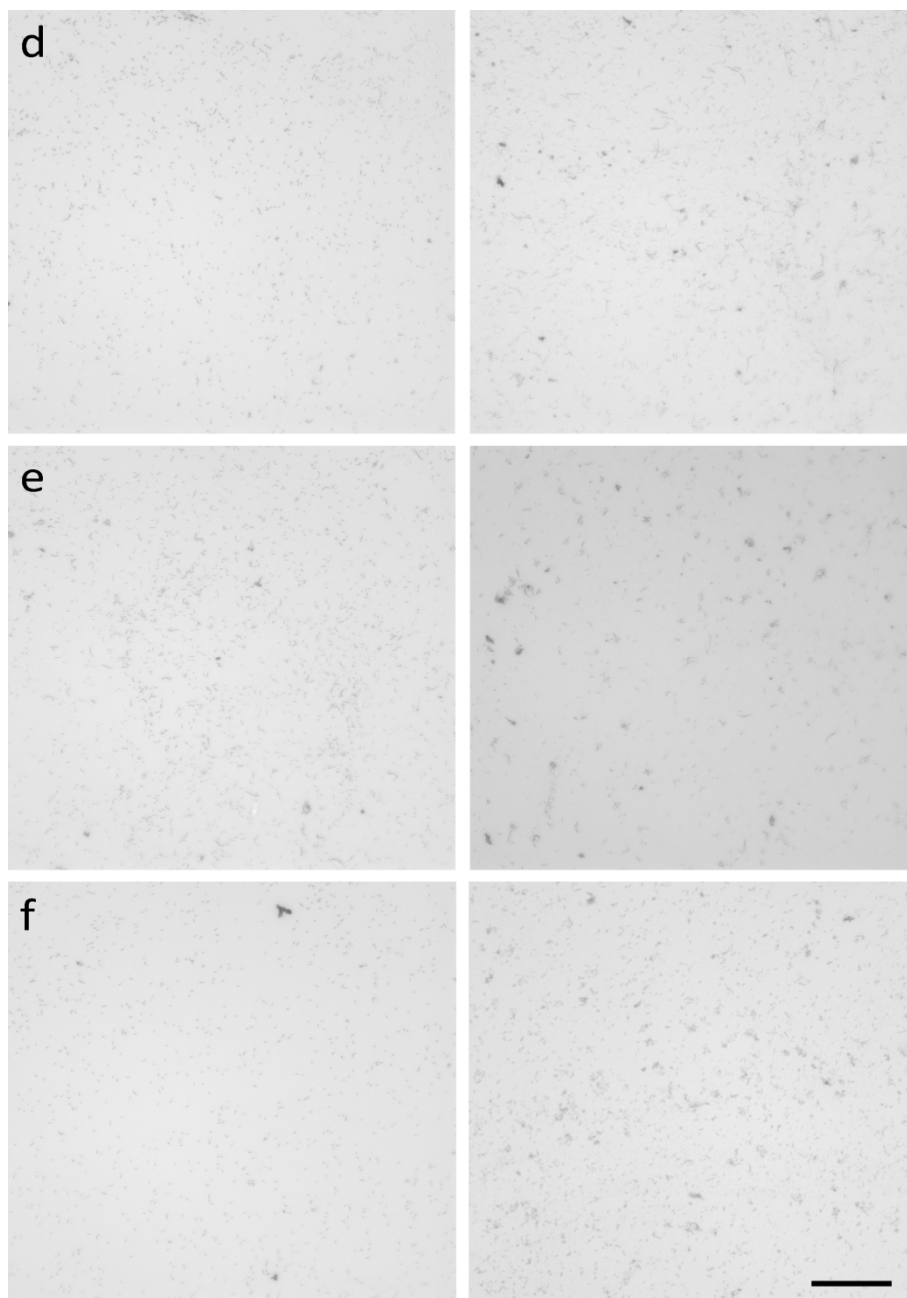


Figure SI 1

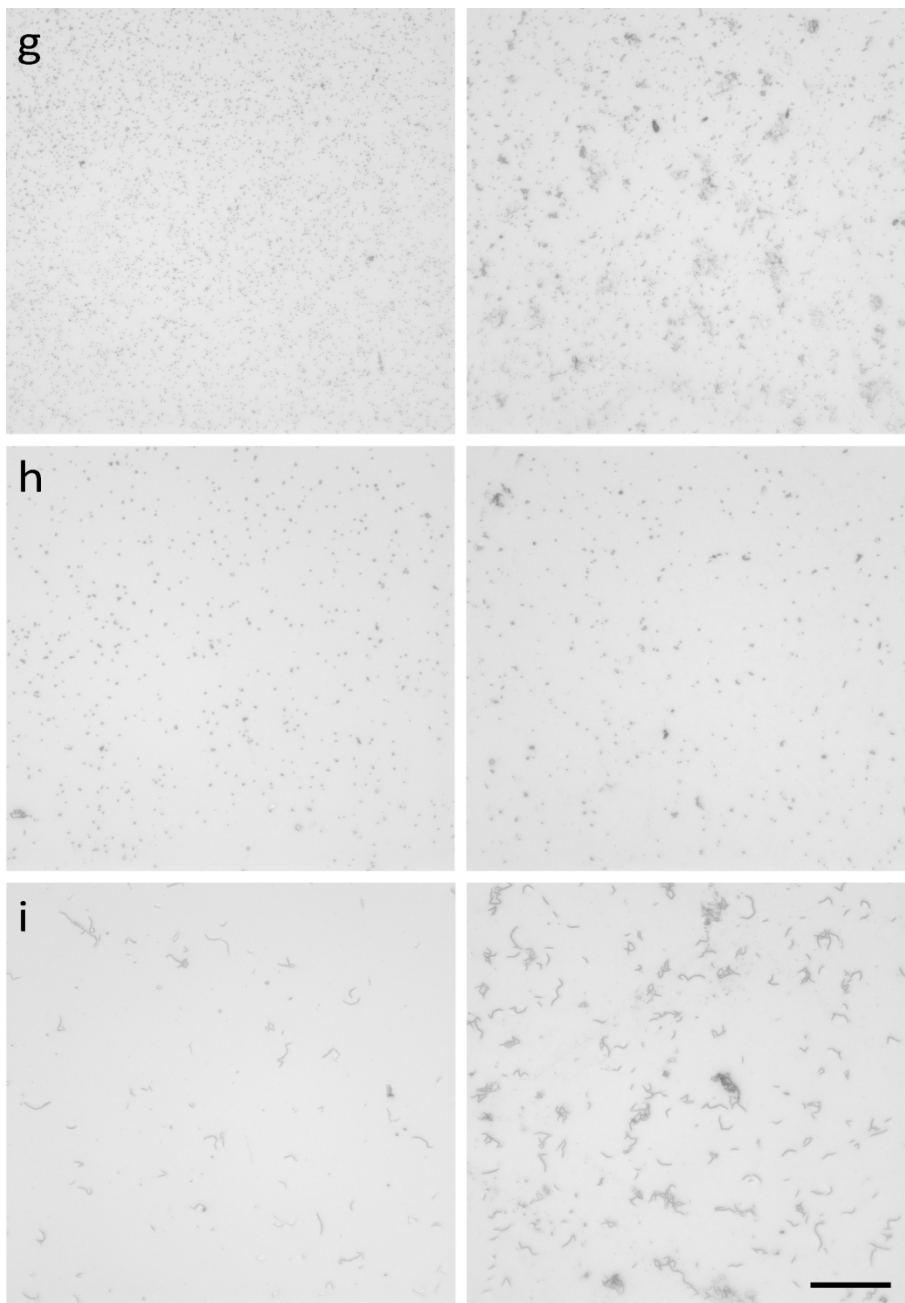
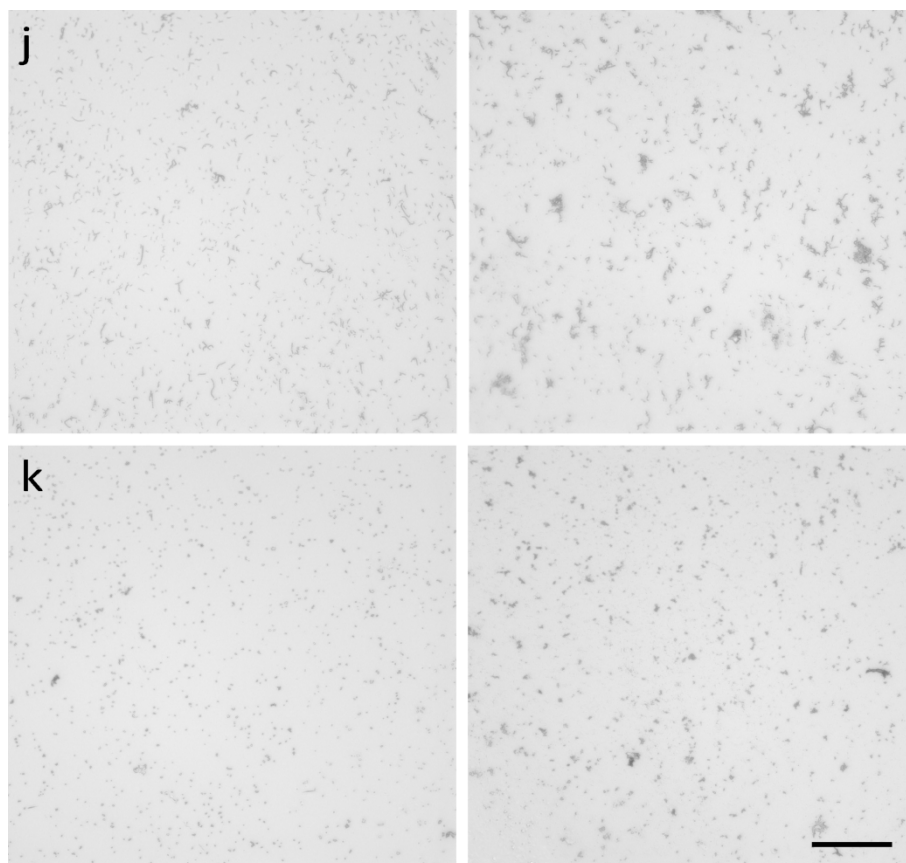


Figure SI 1



**Figure SI 1: Aggregation of bacteria by HM1** – Depicted are the micrographs of several Gram-negative and Gram-positive bacteria in absence (left panels) or presence (right panels) of sub-lethal dosages of HM-1 after 10 min of incubation. HM1 led to the formation of cell aggregates of (a) *C. freundii* NCTC 9750, (b) *K. pneumoniae* ATCC 13883, (d) *Ps. aeruginosa* NCTC 11446, (e) *S. marcescens* NCTC 10211, (f) *Y. enterocolitica* NCTC 11176, (g) *S. aureus* ATCC 6538, (i) *B. megaterium* ATCC 14581, (j) *E. faecalis* ATCC 29212, and (k) *S. epidermidis* ATCC 14990. In comparison, untreated control samples (left panels) show a uniform distribution of bacterial cells. (c) displays *P. mirabilis* ATCC 21100 as representative for Gram-negative bacteria and (h) shows *S. hemolyticus* ATCC 29970 as representative for Gram-positive bacteria which did not show cell aggregation in presence of HM1. Black bar = 100  $\mu\text{m}$ .