**A B**

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**Fig. S5: Bacterial survival of *E. faecalis* V583ΔABC (panel A), Symbioflor 1, Symbioflor transduced with prophage5 and polylysogenic Symbioflor (prophage 1, 2, 5 and 7) (panel B).** To study the relative living cell number Symbioflor strains were grown in Petri dishes and collected after 1, 6 and 24 hours by scraping attached bacteria. The total number of bacteria was determined using a Thoma counting chamber and in parallel, bacteria were plated on TSA plates to quantify the number of colony forming units. Finally, bacterial cell survival was calculated as follows: cfu / total cell number \* 100, to obtain results in percentage.

**Panel A:** After 18h of incubation, no significant differences were seen between viable cell numbers between cultures grown with or without AI-2. At later time points (e.g. 24h and 30h) higher cell counts were observed in cultures without AI-2, indicating that lysis of bacteria by phages may be responsible for this effect.

**Panel B:** Bacterial survival of Symbioflor 1 was compared to polylysogenic strains transduced with either pp5 or pp1, pp5 and pp7. Again, at later timepoints (e.g. 6h and 24h) the transduced strains showed a significant decrease in viable counts when 100 µM AI-2 was added.