

SUPPLEMENTAL MATERIAL

Killing of a Multispecies Biofilm Using Gram-Negative and Gram-Positive Targeted Antibiotic Released from High Purity Calcium Sulfate Beads

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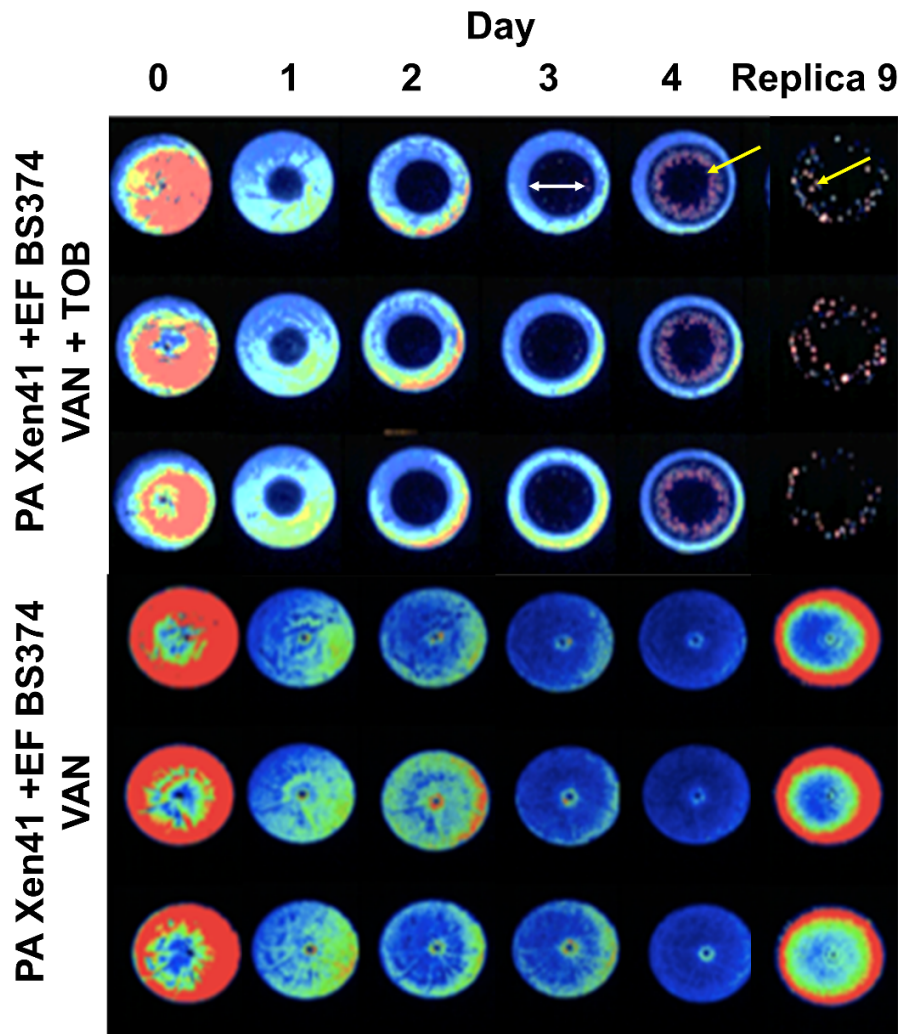


Figure S1. Bioluminescence image of PAXEN41 in a mixed PAXEN41 and EFBS374 agar plate biofilms treated with a bead loaded with either VAN and TOB together or VAN alone. Red = high signal, blue = low signal, black = no signal. Rows for each treatment are triplicate plates. For the VAN + TOB plate a zone of killing (ZOK) increased over time (white arrow) and at day 4 antibiotic tolerant variants grew within this zone (yellow arrow), allowing the PA ZOK and PA tolerant variants within the ZOK to be quantified. Replica plating of the day 9 plate shows a small population of viable cells at the periphery while the area adjacent to the bead has been totally cleared of PA. For the VAN only plate there was some loss of luminescence adjacent to the bead. The general dimming (red to black) over time is due to nutrient

depletion. The replica plate shows that PA in the biofilm was reduced by VAN in a zone adjacent to the bead.