Mannala et al.:

Galleria mellonella as an Alternative *In Vivo* Model to Study Bacterial Biofilms on Stainless Steel and Titanium Implants

Supplementary Data

Fig. S1: Biocompatibility of metallic K-wires in *G. mellonella*
The figure shows the presence of two moths that originated from the pupa that were further originated from larvae that were implanted with K-wire. Red colored marked region shows the presence of K-wire attached to insect body. This K-wire is transferred from larva to pupa and pupa to moth. This indicates that the metal K-wires are well integrated into the insect system.

Tab. S1: Image acquisition and reconstruction parameters for micro-CT analysis

	Control	Stainless steel	Titanium
Image acquisition			
Tube peak voltage (kVp)	40	130	80
Tube current (µA)	200	60	100
Rotation steps (°)	0.25	0.25	0.25
Beam hardening filter	no filter	1 mm Al	1 mm Al
Isotropic image pixel size (µm)	6.11	6.11	6.11
Image reconstruction			
Smoothing Kernel	Symmetrical boxcar	Symmetrical boxcar	Symmetrical boxcar
Smoothing Factor	2	2	1

Tab. S2: List of primer sequences used in this study

Gene	Primer sequence 5´-3´
icaA-for	5´-ATCAAGGCATTAAACAGGCTTC-3´
icaA-rev	5´-TGTAACTGCACCAAGTTTTGGA-3´
clfB-for	5´-AACTCCAGGGCCGCCGGTTG-3´
clfB-rev	5´-CCTGAGTCGCTGTCTGAGCCTGAG-3´
atl-for	5´-GGATGTGCAGGATTCCATCT-3´
atl-rev	5´-AAACAAGCTGGTTGGGACAC-3´
fnbB-for	5´-ACGCTCAAGGCGACGGCAAAG-3´
fnbB-rev	5´-ACCTTCTGCATGACCTTCTGCACCT-3´
fib-for	5´-CGTCAACAGCAGATGCGAGCG-3´
fib-rev	5´-TGCATCAGTTTTCGCTGCTGGTTT-3´
sarA-for	5´-CAAACAACCACAAGTTGTTAAAGC-3´
sarA-rev	5´-TCGTTGTTTGCTTCAGTGATTC-3´
agrA-for	5´-GCCCATTTAGATAACCGTCAAA-3´
agrA-rev	5´-GACAATTCGCTCTTTCGAATCT-3´
fnbA-for	5´-TGGCGTATCAACTGCTAGAAAA-3´
fnbA-rev	5´-AGTTCAGCCGTTACATCAACCT-3´
gyrB-for	5´-GGTGACTGCATTGTCAGATGTAA-3´
gyrB-rev	5´-AACCTCTCTCTGAAGTCGATCCT-3´

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DATA