Mannala et al.: 
*Galleria mellonella* as an Alternative *In Vivo* Model to Study Bacterial Biofilms on Stainless Steel and Titanium Implants

Supplementary Data

![Image](image_url)

**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'-ATCAAGGCATTAACAGGCTTC-3' |
| icaA-rev | 5'-TGTAACTGACACAAAGTGTGGA-3' |
| clfB-for | 5'-AACGCGGGGCCGCGGTTG-3' |
| clfB-rev | 5'-CCTGAGTCGCTGCTGAGCCCTGAG-3' |
| atl-for | 5'-GGATGTGCAAGATTCAATCT-3' |
| atl-rev | 5'-AAAGCAACGTCGTGGGCACAC-3' |
| fnbB-for | 5'-ACGCTCAAGGCACGCGCAAAAG-3' |
| fnbB-rev | 5'-ACGCTTCGATGACCTTGACCT-3' |
| fnb-for | 5'-CGTCAACAGCGAGTGCGAGG-3' |
| fnb-rev | 5'-TGCACTCAGTTTTTCGCTGTGTTT-3' |
| sarA-for | 5'-CAAACACACAAAGTTGATGAAAGC-3' |
| sarA-rev | 5'-TCGTTGTTTTTGTACCAGTAGATGACCT-3' |
| agrA-for | 5'-GCCATATTAAGAACCCTCAAA-3' |
| agrA-rev | 5'-GACAATTGTGCGTCTATTCAATCT-3' |
| fnbA-for | 5'-TGCCGTATCACTGCTGATGAAAGAA-3' |
| fnbA-rev | 5'-AGTTCACGGCGACATCAACCT-3' |
| gyrB-for | 5'-GGTGAATGCTGATGATGTAA-3' |
| gyrB-rev | 5'-AACCTCTCTGAAAGTGCATCCT-3' |

**doi**:10.14573/altex.2003211

This is an Open Access article distributed under the terms of the Creative Commons Attribution 4.0 International license (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution and reproduction in any medium, provided the original work is appropriately cited.