READ ME File For ‘Establishing an invertebrate Galleria mellonella Greater wax moth larval model of Neisseria gonorrhoeae infection’

Dataset <https://doi.org/10.5258/SOTON/D1818>

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This dataset supports the publication:

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TITLE: Establishing an invertebrate Galleria mellonella Greater wax moth larval model of Neisseria gonorrhoeae infection

JOURNAL: Virulence (for submission to)

PAPER DOI IF KNOWN: not known

This dataset contains raw data from experiments used to generate the following figures

Figure 1. Infection of *Galleria mellonella* with *Neisseria gonorrhoeae* strain P9-17.

Figure 2. Histopathology examination of *Galleria mellonella* infected with *Neisseria gonorrhoeae.*

Figure 3. A) Use of a common lesion grading scheme for *Galleria mellonella* infected with *N. gonorrhoeae* strain P9-17. B) Representative images of larvae infected with gonococci showing increasing levels of melanisation with time.

Figure 4. A) Infection of *Galleria mellonella* with different phenotypic variants of *Neisseria gonorrhoeae* strain P9. B) Infection of *Galleria mellonella* with different *Neisseria gonorrhoeae* isolates.

Figure 5. A) The effect of heat-killed and live inocula of *Neisseria gonorrhoeae* on the survival of *G. mellonella.*  B) The effect of *Neisseria gonorrhoeae* P9-17 Outer Membranes (OM) on the survival of *Galleria mellonella*.

Figure 6. Survival of *Galleria mellonella* infected with other *Neisseria* species.

Figure 7. Effects of priming *Galleria mellonella* larvae with *Neisseria gonorrhoeae*.

Figure 8. Effects of treating *Neisseria gonorrhoeae*-infected *Galleria mellonella* with antibiotics ceftriaxone and azithromycin.

Supplemental Material

Figure 1S. Effect of different growth media on *Galleria mellonella* survival.

Figure 2S. Comparison of the effects of infection with sialylated and non-sialylated *N. gonorrhoeae* on the survival of *Galleria mellonella.*

Figure 3S. Infection of *Galleria mellonella* with different doses of *Pseudomonas aeruginosa.*

Figure 4S. A) The effect of infection with different *Lactobacillus species* on survival of *Galleria mellonella*. B) Effect of co-infection with *L. gasseri* and *Neisseria gonorrhoeae* on survival of *Galleria mellonella*.

Figure 5S. The effect of depleting haemocytes with clodronate liposomes and subsequent infection with varying doses of *N. gonorrhoeae* on the survival of *Galleria mellonella*.

Figure 6S. The effect of ceftriaxone and azithromycin antibiotics on the survival of *Galleria mellonella.*

Figure 7S. The effect of a combination treatment of ceftriaxone and azithromycin on survival of *N. gonorrhoeae* infected *Galleria mellonella.*

Figure 8S. Effect of monocaprin and MNBA-AgNCs on the survival of *N. gonorrhoeae­*-infected *Galleria mellonella.*

Date of data collection: Years 2017 - 2021

Information about geographic location of data collection:

University of Southampton and University of Surrey, UK

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