

TruLarv™ *Galleria mellonella*-a model host for infection studies, toxicity testing and drug development

CRACK IT Solutions

Biosystems Technology Ltd. is seeking partners interested in integrating their TruLarv™ *Galleria mellonella* assays into drug and chemical discovery platforms for early stage toxicity and efficacy screening.

What could the Solution be used for?

Galleria mellonella larvae have been shown to have utility for research into microbial infection, for antimicrobial drug screening, to test the toxicity of chemicals and to understand the host response to infection. TruLarv™ are research grade *G. mellonella* larvae initially targeted towards organisations involved in the development of new antimicrobial drugs. However they would have applications in related areas, such as the testing of drugs which modulate immune responses and for chemical toxicity testing.



Need for collaboration

We seek partners who are interested in integrating TruLarv™ into antimicrobial drug discovery platforms and who could provide compounds for validating its utility in efficacy or toxicity testing. We are also interested in expertise in imaging and tracking technologies, which would be used to automate the scoring of large groups of larvae, allowing high throughput screens to be developed.

We would contribute research grade larvae, expertise in handling larvae, and expertise in scoring disease in larvae.

3Rs impact assessment

Used as a preliminary screen, *G. mellonella* larvae can reduce the number of vertebrate animals used in drug development. For example, screening *lactobacilli* strains would normally be carried out in day old chicks, with five chicks being commonly used per strain. In a recent study where 50 *lactobacilli* strains were screened in *Galleria* instead, it was possible to reduce the use of chicks by 80% (~200 chicks).

For more information or to contact the Solution provider: <https://www.crackit.org.uk/trularv-galleria-mellonella-model-host-infection-studies-toxicity-testing-and-drug-development>

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