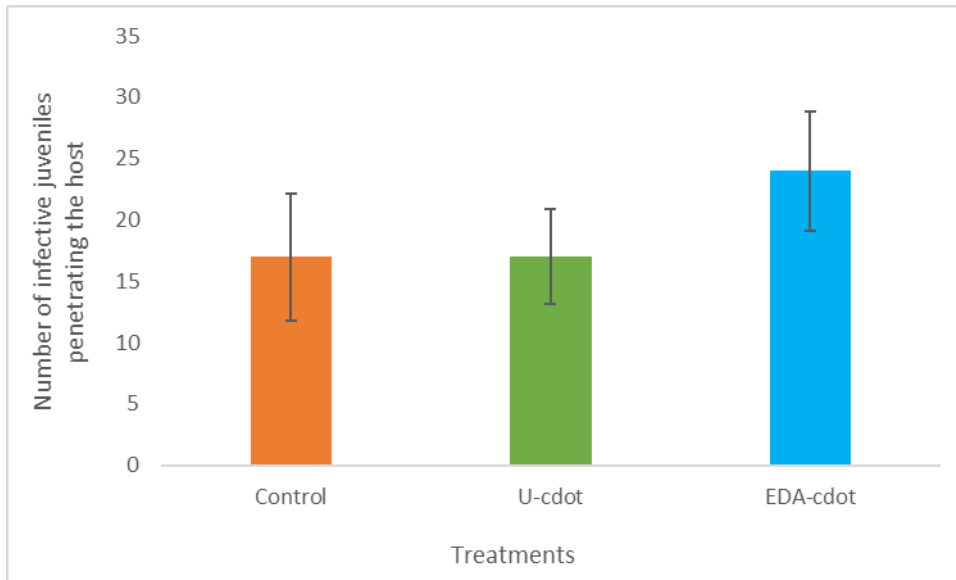
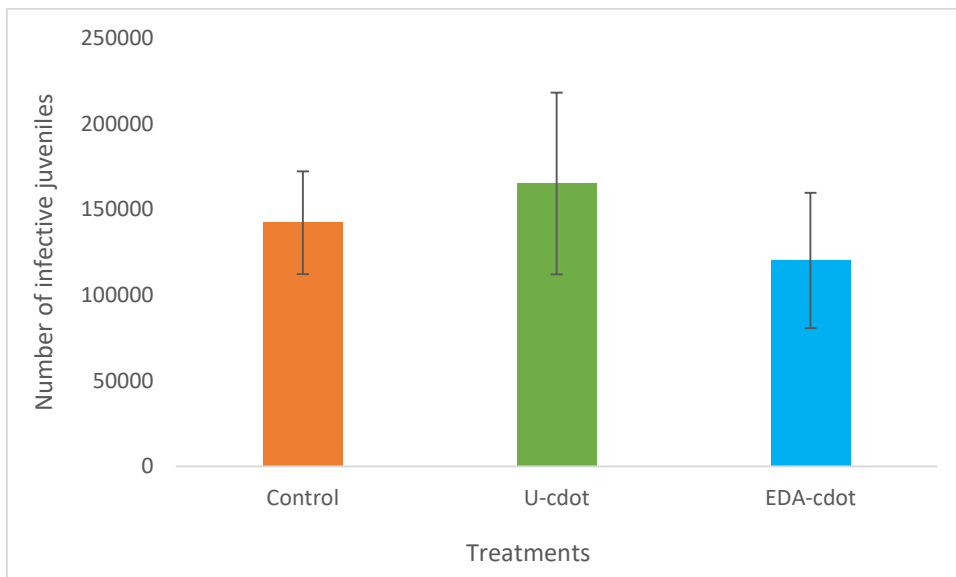


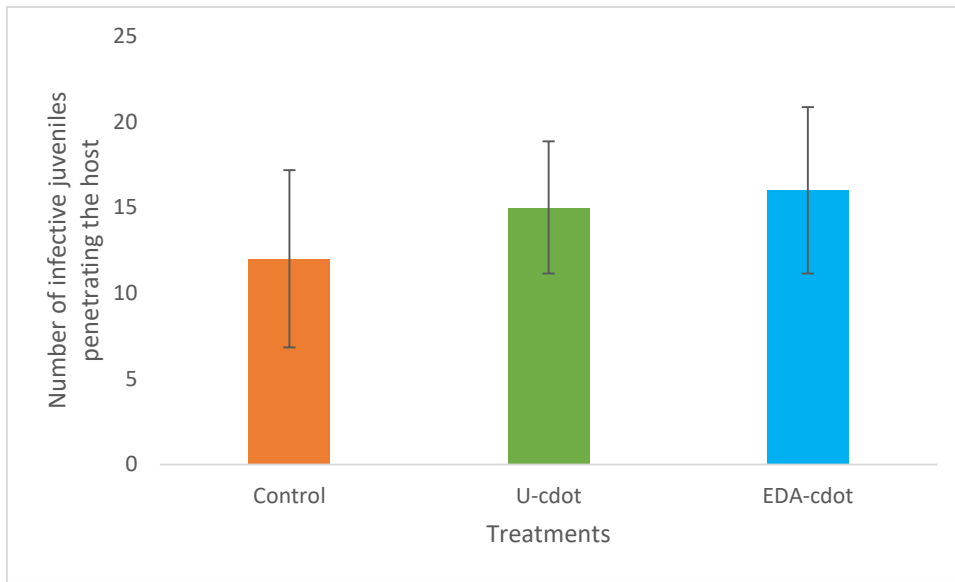
Supplementary material



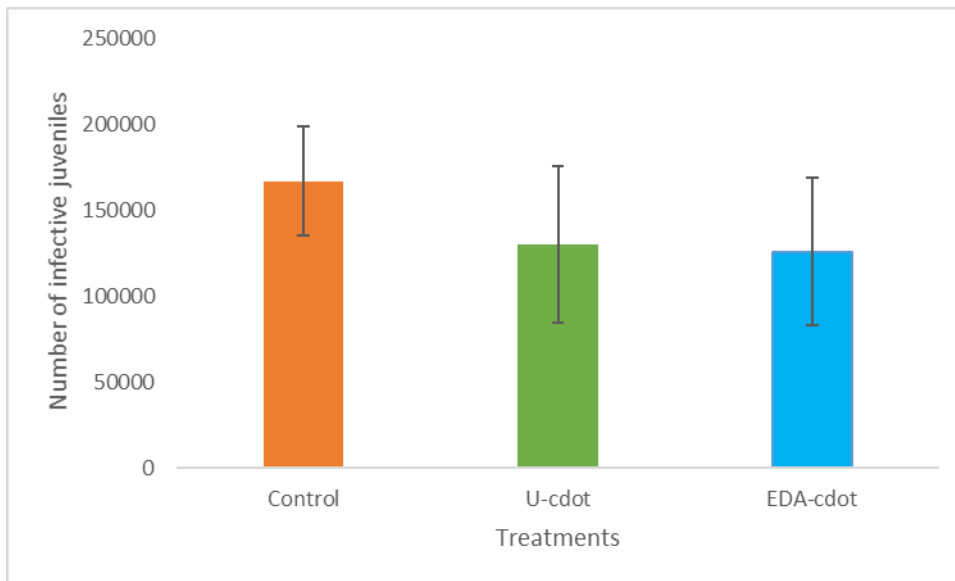
Supplementary Figure 1: number of infective juveniles (median) capable to penetrate *Galleria mellonella* larvae from an infection trial using the offspring produced by nematodes labelled with C-dots, no differences were found between treatments (Laverne's test for medians $F_{(2,42)} = 0.44$, $p = 0.65$, $\alpha = 0.05$)



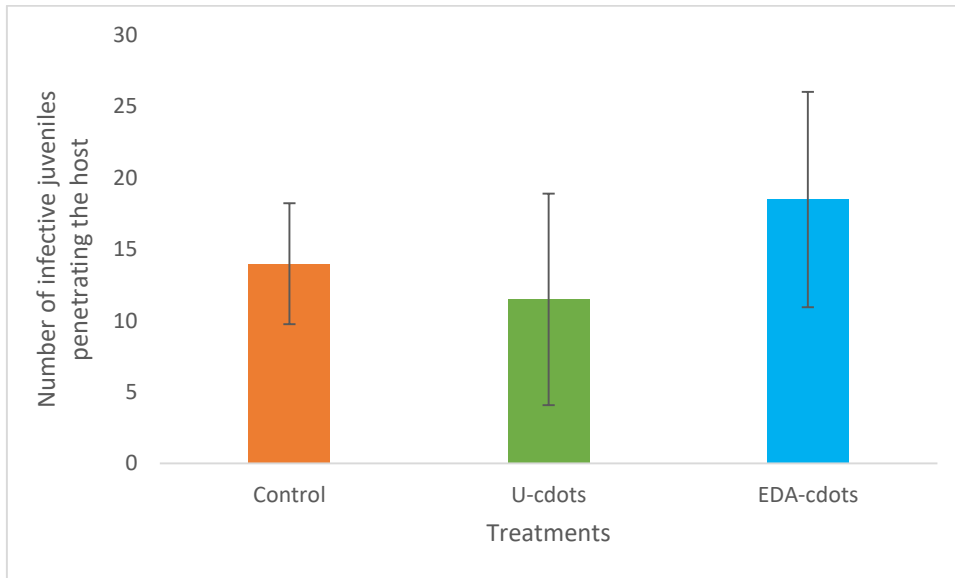
Supplementary Figure 2: number of new infective juveniles from an infection trial using the offspring produced by nematodes labelled with C-dots, no differences were found between treatments (ANOVA $F_{(2,42)} = 0.56$, $p = 0.59$, $\alpha = 0.05$)



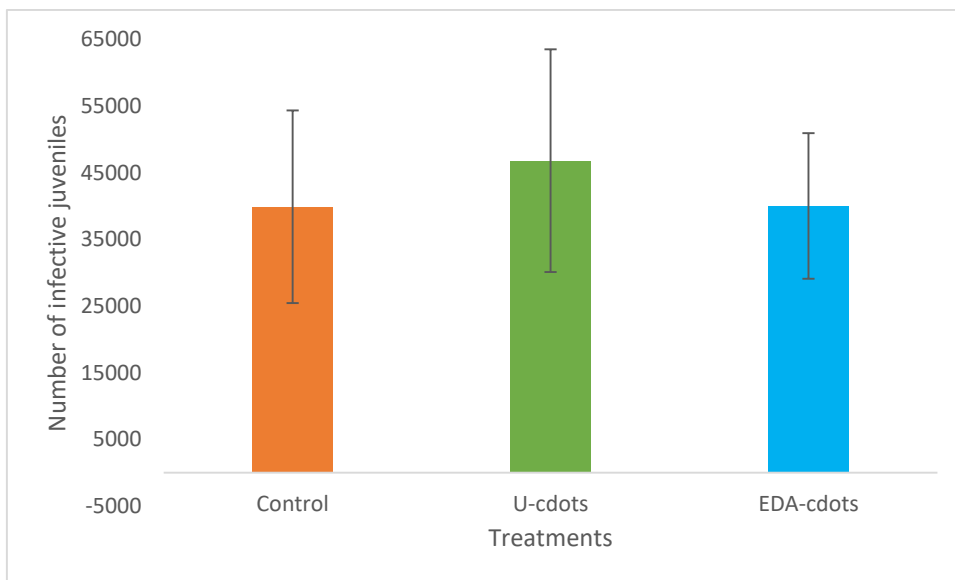
Supplementary Figure 3: number of infective juveniles (median) capable to penetrate *Galleria mellonella* larvae from an infection trial using nematodes soaked in C-dots suspension for 6 months, no differences were found between treatments (Laverne's test for medians $F_{(2,42)} = 0.24$, $p = 0.79$, $\alpha = 0.05$)



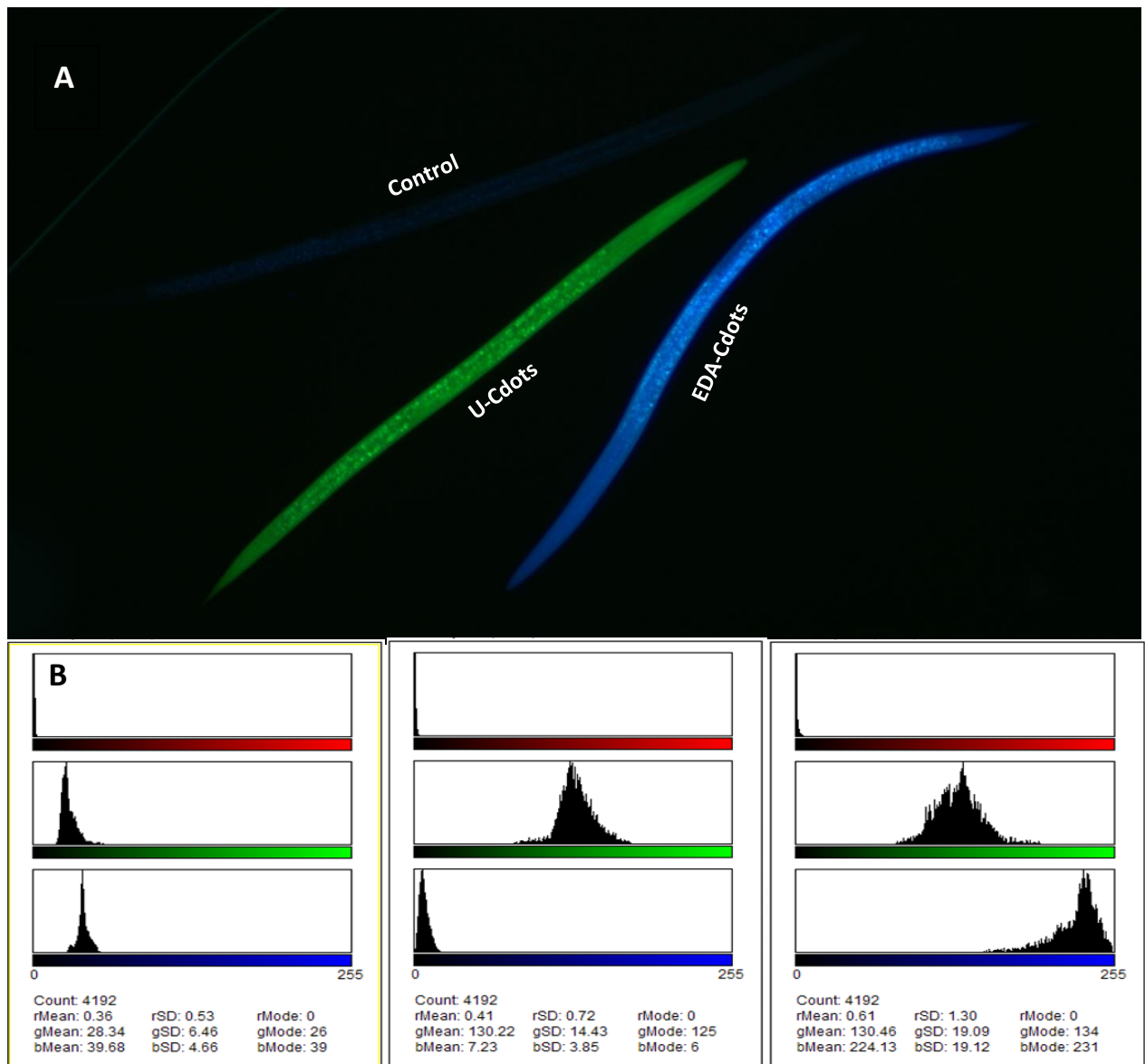
Supplementary Figure 4: number of new infective juveniles from an infection trial using nematodes soaked in C-dots solution for 6 months, no differences were found between treatments (ANOVA $F_{(2,42)} = 1.86$, $p = 0.17$, $\alpha = 0.05$)



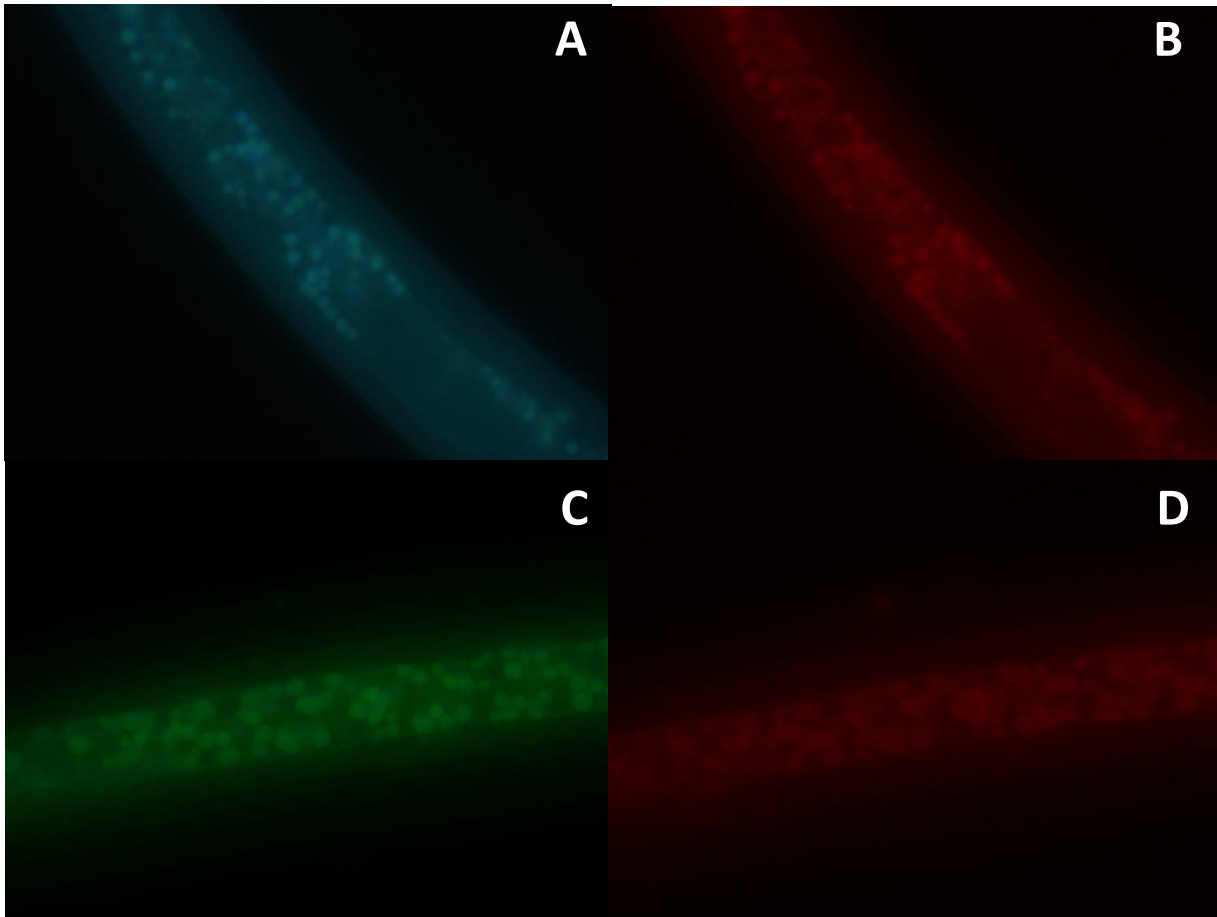
Supplementary Figure 5: number of infective juveniles (median) capable to penetrate *Galleria mellonella* larvae from an infection trial using nematodes soaked in C-dots suspension for 12 months, no differences were found between treatments (Laverne's test for medians $F_{(2,42)} = 0.35$, $p = 0.71$, $\alpha = 0.05$)



Supplementary Figure 6: number of new infective juveniles from an infection trial using nematodes soaked in C-dots solution for 12 months, no differences were found between treatments (ANOVA $F_{(2,42)} = 0.37$, $p = 0.7$, $\alpha = 0.05$)



Supplementary Figure 7: A) Infective juveniles of *Steinernema feltiae* from the three treatments in the same glass slide **B)** RGB colour composition (histograms) of the infective juveniles of *Steinernema feltiae* from control (left panel), U-Cdots (central panel) and EDA-Cdots (right panel)



Supplementary Figure 8: Raw pictures of the colocalization of C-dots and Lysotracker™ deep red in the lysosome-related organelles of infective juveniles of *Steinernema feltiae* A) Strain UOH-010 labelled with EDA-Cdots under UV light or B) green filter (Texas red), C) Strain UOH-011 labelled with U-Cdots under UV light or D) green filter (Texas red). All pictures are under 1000X of magnification.