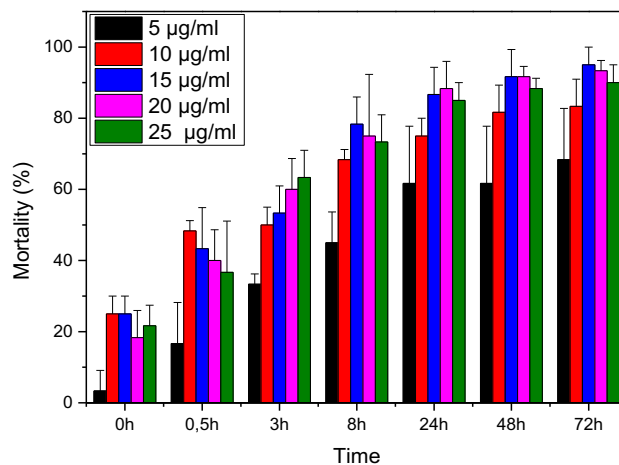
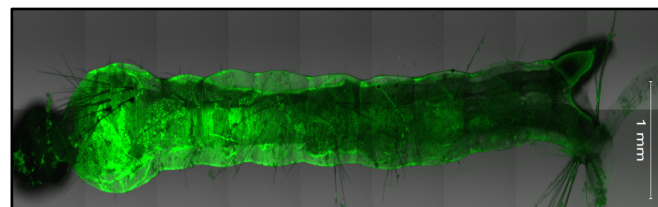
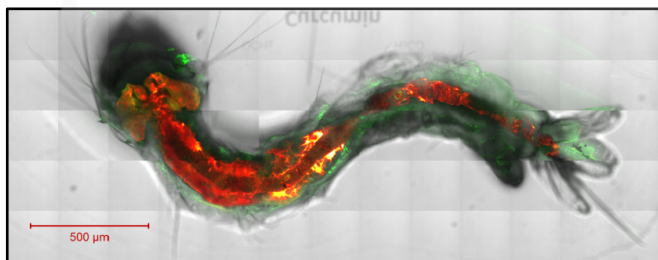
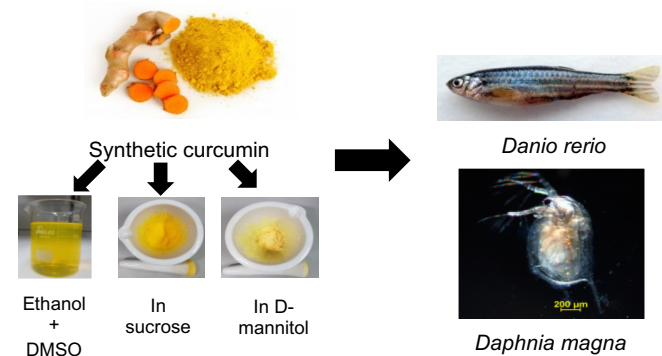
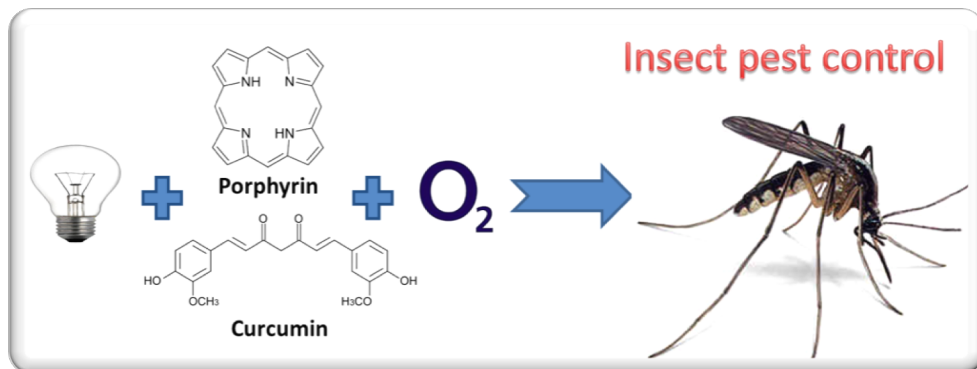
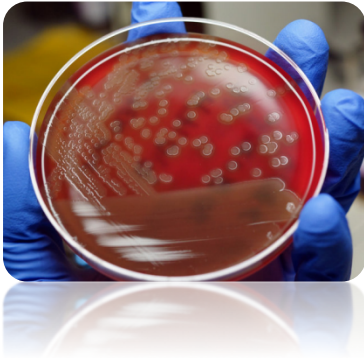




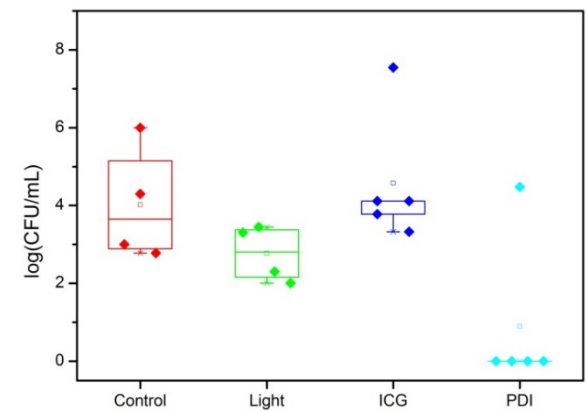
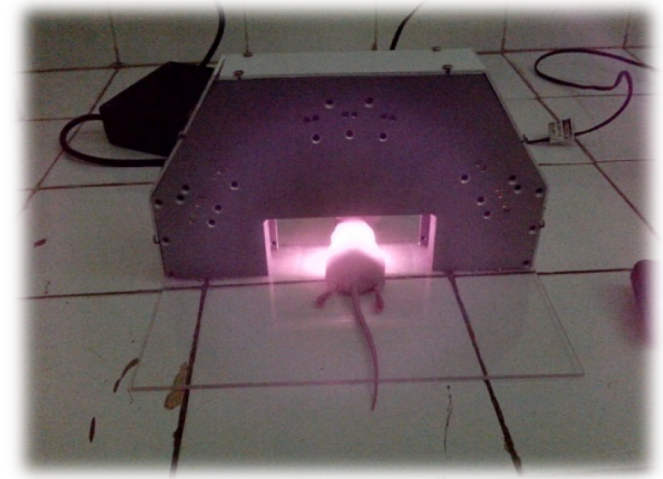
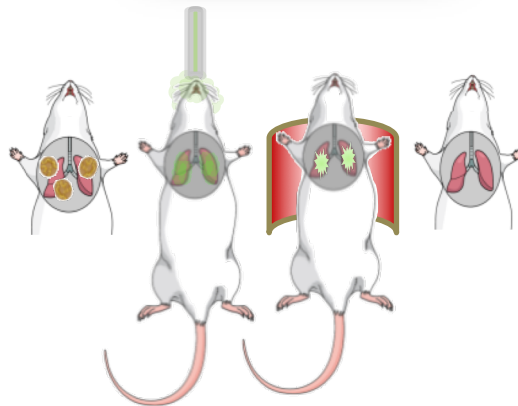
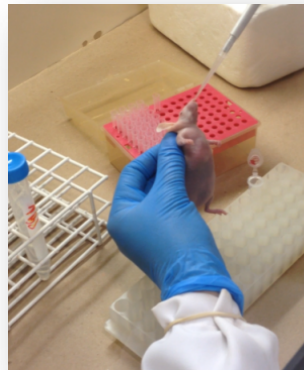
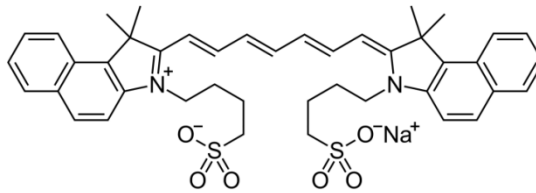
S. pneumoniae



Cell culture irradiation



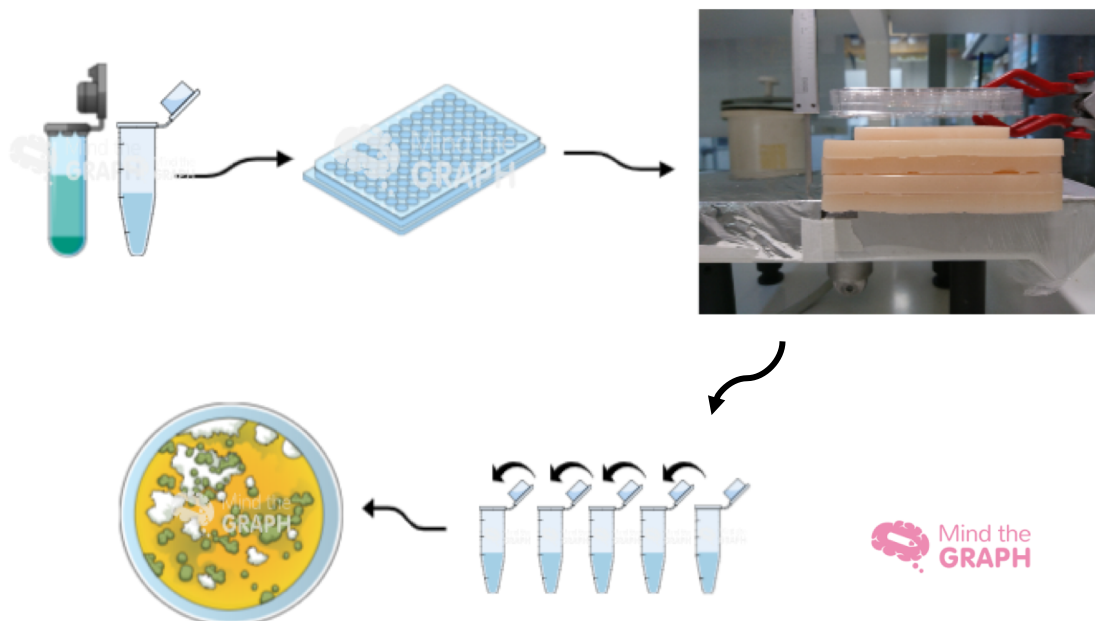
Indocyanine green
(Photosensitizer)



Results and Discussion

Photodynamic inactivation experiment with phantom barriers

- **ICG** (Bac + PBS + PS)
- **Light** (Bac + PBS + Light)
- **PDI** (Bac + PBS + PS + Light)

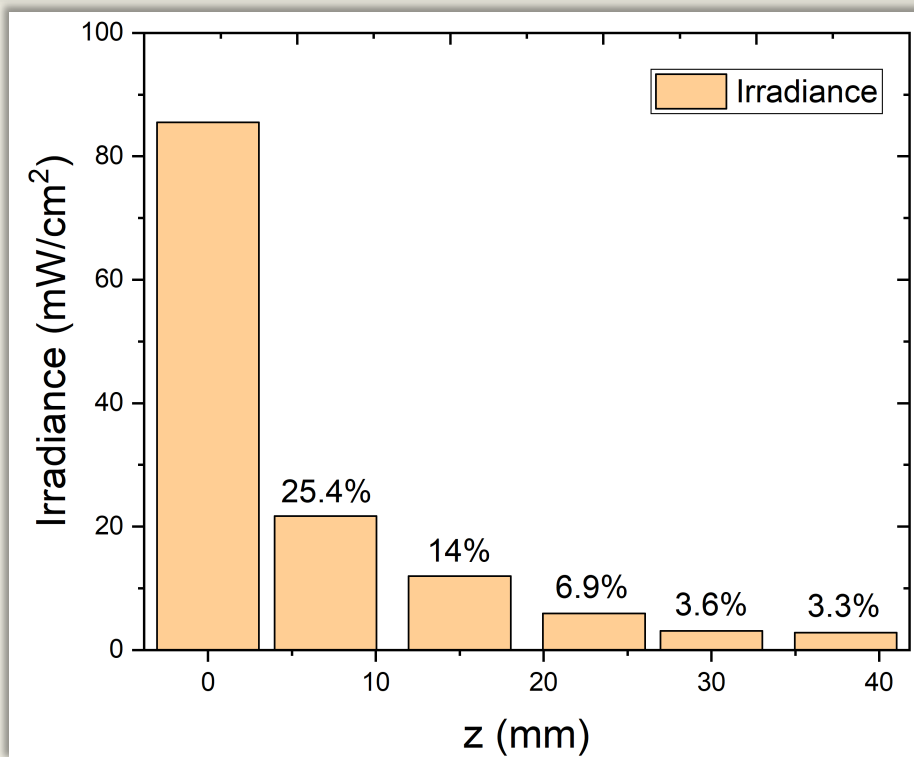


$\lambda = 808 \text{ nm.}$
 $I_0 = 85.5 \pm 4.4 \text{ mW/cm}^2.$
 PS: Indocyanine green (ICG).
 $C_{ps} = 10 \text{ }\mu\text{M.}$
Streptococcus pneumoniae.
 $C = 1 \times 10^7 \text{ CFU/mL.}$

Time (min)	Light dose (J/cm ²)	Barriers thickness (mm)
0	0	0
3.88	20	7.44
8	41	15.02
15	77	23.37
23	118	29.72
33.3	171	37.10
40	205.2	
48	246.2	

Results and Discussion

Infrared images of phantoms



Results and Discussion

ICG (Bac + PBS + PS)

