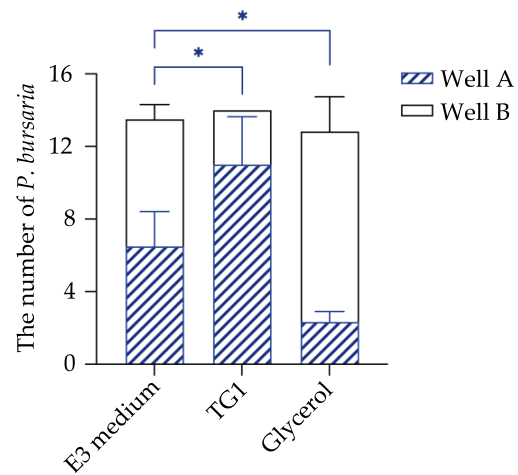


# Supplementary Materials:



**Figure S1** Analysis of prey pursuit and avoidance behaviors using customized two-well testing apparatus. To validate this testing apparatus detailed in Figure 3D, TG1 (food source of *P. bursaria* and served as attractants), 2.5% glycerol (toxic to *P. bursaria* and served as repellents) or E3 medium alone (i.e., control group) was added to well A and untreated *P. bursaria* were placed in canal C, respectively, and then dividers were carefully removed to allow free movement of *P. bursaria*. After 10 min, the number of *P. bursaria* in well A and B was counted. The data are represented as the mean  $\pm$  SD of three independent experiments and asterisks above the line denote significantly different ( $*P < 0.05$ ) between the mean (i.e., mean number of cells in well A) identified by the line.