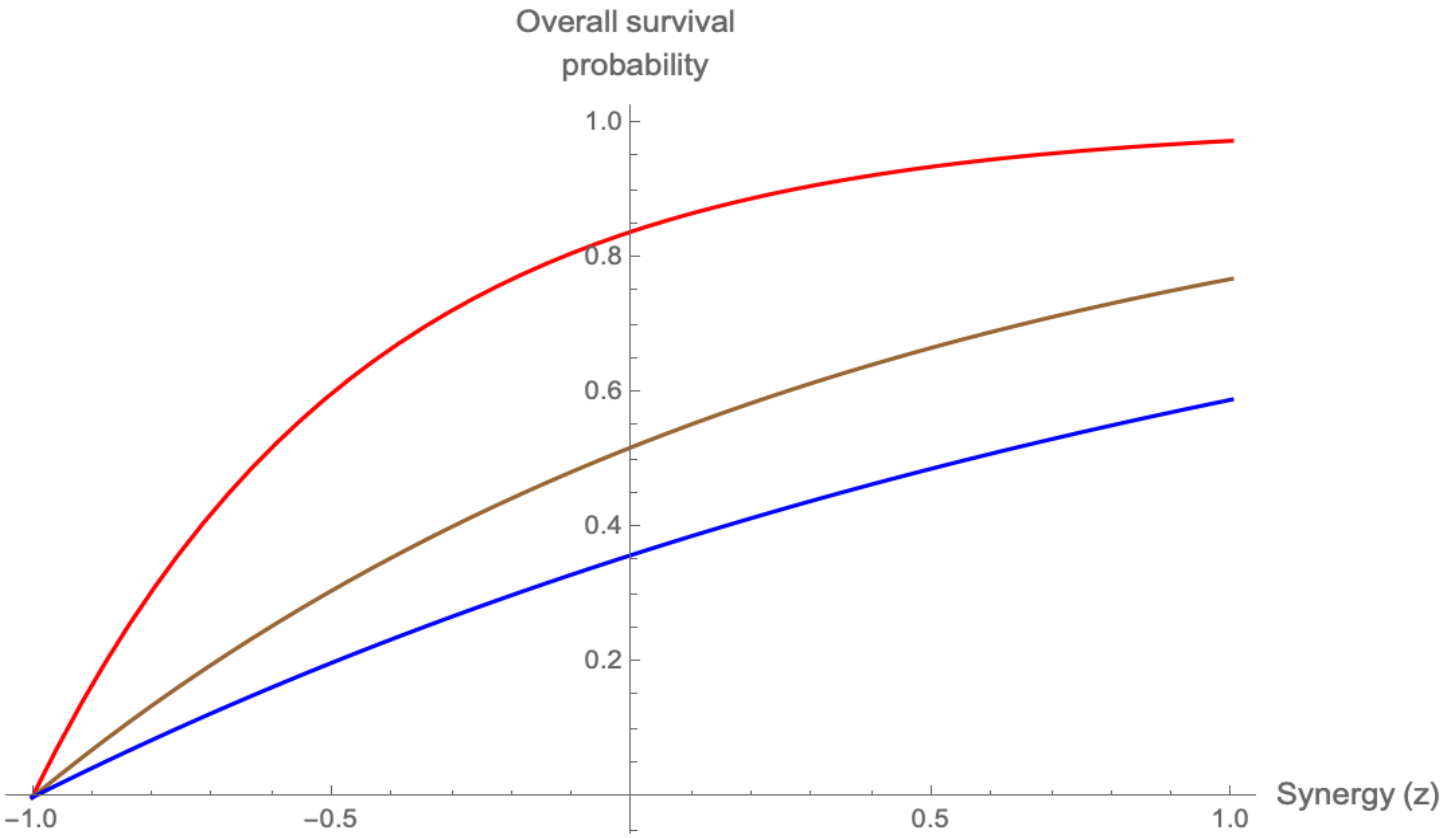

Supplementary Figure 1. Probability of a prey with defences A and B surviving an attack from a predator for different levels of defence synergy z ($z < 0$ implies the probability of survival of a prey with both defences is less than that if they were to act independently; $z > 0$ implies that the combined probability of survival is greater than their independent effects would predict). When $z = -1$, the combined survival probability of a prey with both defences is always 0, when $z = 0$ the defences act independently, and as z increases further the combined survival probability moves towards 1. Here $p_B = 0.2$ and $p_A = 0.8$ (red), 0.4 (brown) or 0.2 (blue). When p_A and/or p_B are low then a much higher level of synergy is required to achieve a given combined survivorship.