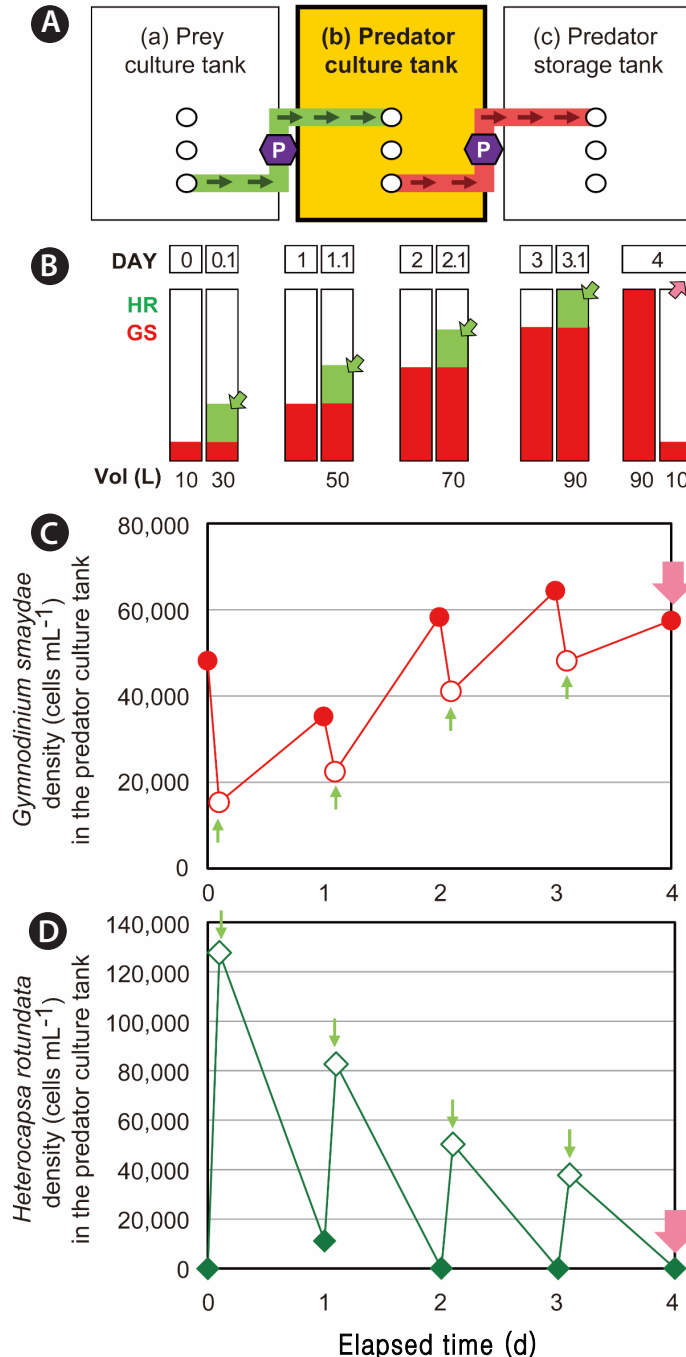


# Supplementary Materials

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**Supplementary Fig. S1.** Schematic diagram showing the water tank used in the semi-continuous cultivation system (A) and changes in water volume (*Gymnodinium smaydae* [GS], *Heterocapsa rotundata* [HR]) (B) in the predator culture tank. Changes in the densities (cells mL<sup>-1</sup>) of GS (C) and HR (D) in the predator culture tank as a function of elapsed incubation time. The culture was used for experiment 3, determining the effects of the rotational speed of the continuous centrifuge on harvesting GS cells. Green arrows in B–D indicate the timing of HR culture input. HR cells were transported daily from the prey culture tank to the predator culture tank, and thus GS was diluted. Pink arrows in B–D indicate the timing of 80-L GS culture output. P in A, the peristaltic pump transporting HR or GS culture to the predator culture or predator storage tank.