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Studies on chill coma recovery in the ladybird, *Harmonia axyridis*: ontogenetic profile, effect of repeated cold exposures, and capacity to predict winter survival

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Abstract

The harlequin ladybird, *Harmonia axyridis*, is one of the most successful invasive insect species worldwide. We investigated whether (i) chill coma recovery time (CCRt) changes during the ontogenetic development of this species, (ii) CCRt varies in response to repeated cold shocks, and (iii) CCRt could be a good predictor of winter survival ability in adults. CCRt decreased during larval development, the lowest CCRt values were observed in teneral

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