

Joint and Separate Effects of Alimentary and Photoperiodic Induction of Diapause in *Coccinella septempunctata* (Coleoptera, Coccinellidae)

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Abstract—An imaginal (reproductive) diapause, peculiar to the aphidophagous lady beetle *Coccinella septempunctata* L. can be induced either by short-day photoperiod or by the lack of aphids as prey. The joint action of these diapause-inducing developmental factors provokes a very stable diapause which cannot be caused by any factor alone. This evidences a strong interaction between photoperiodic and alimentary reactions, testifying to a certain similarity of their physiological backgrounds.