<u>Understanding unpredictability: factors influencing how long antlion larvae play dead as an</u> <u>antipredator behaviour - ScienceDirect</u>

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	Article preview	Animal Behaviour
	Abstract	Using Volume 194, December 2022, Pages 199-204
	Section snippets	
	References (44)	Understanding unpredictability: factors
		influencing how long antlion larvae play dead as
		an antipredator behaviour
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		Remaining immobile for an unpredictable time following contact with a predator
		(postcontact immobility) is a successful tactic to reduce predation. However, the
		mechanisms that may cause this variation are poorly known. We explored whether size, personality, substrate type and predation risk influence the duration of
		postcontact immobility in antiion larvae. Using field experiments on a large
		number of larvae, we detected a highly unpredictable postcontact immobility
		duration. This suggests that motor routines selected to improve the performance of
		this sit-and-wait predator larvae, such as staying immobile for an indefinite period,
		can also be adaptive to avoid predation. Postcontact immobility showed similar duration between low- and high-predation risk levels and was unrelated to larvae
		size. However, larvae showed longer postcontact immobility on compact soils than
		on loose soils. Antlions took longer to bury themselves in compact substrate,
		increasing the probability of being detected by a predator. Hence, it seems
		reasonable that, on compact soils, larvae showed longer postcontact immobility. On
		the other hand, larvae showed some degree of consistency in presenting short or
		long postcontact immobility independently of the nature of the treatments. Since
		repeated inductions of postcontact immobility in the same prey by a predator are rare, unpredictable variation at the population level may be an emergent property of
		consistency in postcontact immobility duration at the individual level. We conclude
		that factors generating unpredictable postcontact immobility duration may be
		intrinsic or extrinsic but are often associated with traits that predators cannot easily
		detect in advance, reinforcing the adaptive value of plaving dead as an antipredator