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Food deprivation and prior anoxic coma have opposite effects on the activity of a visual interneuron in the locust

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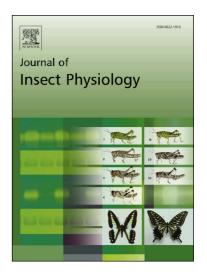
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3 Kevin P. Cross¹, Samantha Britton², Rebecca Mangulins², Tomas G. A. Money², R. Meldrum 4 Robertson^{1, 2} 5 6 ¹Centre for Neuroscience Studies and ²Department of Biology, Queen's University, Kingston, 7 8 Ontario, Canada, K7L 3N6 9 Highlights: 10 Anoxic coma diminishes and food deprivation increases high-frequency firing 11 Anoxic coma reduces supernormal conduction 12 Food deprivation reduces half-width and decay time 13 14 Keywords: high-frequency firing, metabolic stress, axons, DCMD, supernormal conduction 15 Corresponding author: 16 Kevin P. Cross 17 Rm 223, Botterell Hall 18 19 Queen's University Kingston, Ontario, Canada 20 K7L 3N6 21 Tel: 6135727064 22 23 Email: 13kc18@queensu.ca 24 25 Abbreviations: DCMD: descending contralateral movement detector; LGMD: lobula giant

movement detector; CV: conduction velocity; AP: action potential; CNS: central nervous system.

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