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The black soldier fly: A sustainable source of food

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Abstract

The primary objective of this chapter is to explore the potential of black soldier fly (BSF) larvae as a novel and sustainable protein source, while also considering its compliance with halal dietary guidelines. By dissecting the intricacies of BSF biology, nutritional value, farming techniques, and cultural implications, this write-up aims to provide a thought-provoking narrative that captures the interest of students, stimulates the intellectual curiosity of academicians, and motivates the scientific community to delve deeper into this innovative and ethical protein alternative. As we delve into the various facets of BSF utilization, from its ecological significance to its alignment with halal principles, this chapter encourages readers to think critically, challenge established norms, and explore creative solutions to meet the burgeoning demand for protein in a sustainable and ethically sound manner. Together, we can address the global food challenge and pave the way for a more sustainable, halal-compliant future in food production and consumption. © 2026 Elsevier Inc. All rights reserved.

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Abstract

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