

Insects as alternative sources of protein for food and feed

Edited by Adriana Casillas, Tebrio, Spain



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Insects as alternative sources of protein for food and feed

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Endorsement:

“More than ever, efforts are needed to develop a global bioeconomy. Harnessing and industrializing insect biology will create opportunities for recycling organic side streams to generate materials of value while minimizing environmental impacts. Such systems are being developed in Global North and Global South Nations. This new book, which features contributions by experts working in both industry and academia, sets part of the foundation for the recognition and application of such practices.” (Professor Jeffery K. Tomberlin, Texas A&M University, USA)

Description:

With significant concerns about the environmental impact of conventional crop and livestock production, there is a growing interest in utilising novel alternative sources of protein in both human and animal diets. Insects have long been consumed in the wild by an array of species, including poultry, fish and humans.

Insects as alternative sources of protein for food and feed provides a comprehensive overview of the recent research undertaken in this rapidly-expanding area. The book reviews the production and application of black soldier flies, yellow mealworms and other insects as alternative protein sources in poultry, pig and fish feed.

Through its considered approach, the book explores how the safety of extracted proteins can be ensured across the supply chain, as well as how we can better understand the changing attitudes of consumers towards eating protein derived from insects.

Edited by a leading expert in industry, the book will be a standard reference for university and other researchers in animal nutrition, companies involved in the manufacture of animal feed or animal nutrition services, government and other agencies regulating the animal feed sector, as well as farmers interested in utilising animal feed supplemented with insect-derived proteins.

Key features:

- Reviews the nutritional benefits, applications and challenges of using protein from black soldier flies and yellow mealworms in poultry, pig and fish feed
- Considers recent advances in the development of mass breeding/rearing techniques for the major insect species used as food or feed
- Explores some of the key issues currently facing the sector, such as the need to ensure product safety, the development of effective extraction techniques and consumer attitudes towards eating protein derived from insects

Audience:

University and other researchers in animal nutrition; companies involved in the manufacture of animal feed or animal nutrition services; government and other agencies regulating the animal feed sector; as well as farmers interested in utilising animal feed supplemented with insect-derived proteins

Editor details:

Adriana Casillas is co-founder and CEO of Tebrio. Tebrio is Spain's first, award-winning, large-scale manufacturer of insect protein for food, feed, pet food and other applications. Collaborators with Tebrio include the Universities of Almería, Burgos and Granada. Adriana was also Vice-President of the International Platform of Insects for Food and Feed (IPIFF) from 2016-2021 and is currently President of IPIFF.

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