



## HORTICULTURAL SCIENCE HOT TOPIC:

# Organic horticulture

Consumer demand for organic fruits and vegetables has increased steadily over the last 20 years, mainly from those concerned about health and the environment. But some key questions remain unanswered and new problems need new solutions. Sophisticated techniques have been developed to authenticate organic produce, but more research is needed to support claims that organic produce is healthier and tastier than conventional produce, and new and emerging pests need new pest management methods which meet organic standards.

CABI's **Horticultural Science** covers all aspects of pests and diseases of horticultural crops – from breeding and crop management to postharvest, traceability, quality, marketing and consumer preferences.

### CABI's Horticultural Science comprehensively covers hot topics that matter

CABI sources the world literature to provide the complete picture on research and developments in organic horticulture including information on:

- **Crop management:** research on new and approved practices for organic production helps improve yields and quality of organic produce and identify pest control options.  
*Effect of organic fertilizers application on organic horticultural crop yield.*  
*I Congresso Luso-Brasileiro de Horticultura (I CLBHort), Lisboa, Portugal, 1-4 de novembro de 2017*  
*Pest management in organic almond.*  
*Handbook of pest management in organic farming, 2018*
- **Postharvest treatment:** organic standards continue to apply throughout the postharvest period when serious losses can occur. Essential oils have shown significant activity against postharvest pathogens.  
*Postharvest practices for organically grown products.*  
*Contemporary Agriculture, 2018*  
*Control of anthracnose, caused by Colletotrichum musae, on postharvest organic banana by thyme oil.*  
*Postharvest Biology and Technology, 2018*
- **Traceability and authentication:** is it organic? Chemical markers can discriminate between organic and conventional produce.  
*Volatile fraction analysis by HS-SPME/GC-MS and chemometric modeling for traceability of apples cultivated in the Northeast Italy.*  
*Food Control, 2017*  
*Metabolomics for organic food authentication: results from a long-term field study in carrots.*  
*Food Chemistry, 2018*
- **Quality and safety of organic produce:** are claims that organic produce is tastier, healthier and safer than conventional produce justified?  
*Human health implications of organic food and organic agriculture: a comprehensive review.*  
*Environmental Health, 2017*  
*Comparison of the microbiological quality and safety between conventional and organic vegetables sold in Malaysia.*  
*Frontiers in Microbiology, 2017*

# Introducing Horticultural Science

**Horticultural Science** is the leading international collection of abstracts, full text papers, conference proceedings and CABI-commissioned reviews on research on tropical, subtropical and temperate horticultural crops including plantation crops. With over 50,000 abstracts and 10,000 full text documents currently added each year, the collection includes over 1.5 million abstracts dating back to 1930 and over 88,000 full text documents.

Horticultural Science is available on CABI's own platform: [www.cabi.org/horticulture](http://www.cabi.org/horticulture)

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