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Promoting pollination and pollinators in farming

Edited by Emeritus Professor Peter Kevan and Dr D. Susan Willis Chan, University of Guelph, Canada

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## About the book

This book reviews the wealth of research on our current understanding of existing pollination processes and their importance to our global ecosystems. The book considers how pollinators interact with plants, as well as the major threats to pollinator species, including climate change, diseases and pesticide exposure.

## About the editors

Dr Peter Kevan is Emeritus Professor in the School of Environmental Sciences at the University of Guelph, Canada. He is also an Adjunct Professor at the University of Waterloo, Canada.

Dr D. Susan Willis Chan works in the School of Environmental Sciences at the University of Guelph, Canada and is a species expert on the ground-nesting hoary squash bee.
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## Promoting pollination and pollinators in farming

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## Part 1 Understanding pollinators and pollination

1. What is pollination and what are pollinators in agriculture?: Seanne Clemente and Lynn Adler, University of Massachusetts, USA
2. The role and application of olfaction in crop plant-pollinator interactions: Sarah E. J. Arnold, Natural Resources Institute, University of Greenwich, UK and Nelson Mandela African Institution of Science and Technology, Tanzania; Alison S. ScottBrown, University of Cambridge and Royal Botanic Gardens, Kew, UK; and Philip C. Stevenson, Royal Botanic Gardens, Kew and Natural Resources Institute, University of Greenwich, UK
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6. How neonicotinoid insecticides affect bees and other pollinators: D. Susan Willis Chan, University of Guelph, Canada
7. Assessing the impact of pesticides on pollinators: Christian Maus, Bayer AG, Germany; Anne Alix, Corteva Agriscience, UK; and Daniel R. Schmehl, Bayer CropScience LP, USA
8. Assessing the impact of alien bees on native ones: $M$. Zakardjian, H. Jourdan, V. Le Féon and B. Geslin, Aix-Marseille University, Avignon University, CNRS, IRD, IMBE, Marseille, France

## Part 3 Promoting pollinators and pollination

9. The role of habitat conservation and restoration in protecting pollinators in agricultural landscapes: Stephen Buchmann, University of Arizona, USA
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11. Ecological network approaches for promoting pollinators in agriculture: Darren M. Evans and Fredric M. Windsor, Newcastle University, UK
12. Best management practices for pollinator protection in US apple production: Julianna K. Wilson, Michigan State University, USA; David Biddinger, Penn State University, USA; David Epstein, Northwest Horticultural Council, USA; Anne Nielsen, Rutgers University, USA; Ngoc Phan, University of Arkansas, USA; Jim Walgenbach, North Carolina State University, USA; and Neelendra K. Joshi, University of Arkansas, USA
13. Entomovectoring: using pollinators to spread biocontrol agents: Jari Temmermans, Ghent University and Antwerp University, Belgium; Marie Legein and Sarah Leeber, Antwerp University, Belgium; and Guy Smagghe, Ghent University, Belgium;ARS, USA
