

Achieving sustainable cultivation of soybeans

Volume 1: Breeding and cultivation techniques

Edited by Professor Henry T. Nguyen
University of Missouri, USA



 burleigh dodds
SCIENCE PUBLISHING

Publication date

31 May 2018

Price

£140 / \$180 / €170 / A\$250

ISBN

Hardback: 978-1-78676-112-5

PDF: 978-1-78676-115-6

ePub: 978-1-78676-114-9

Mobi: 978-1-78676-113-2

Format

152 × 229 mm / 6 × 9 in, 320 pages

Illustrations

Colour tables, photos and figures

Series

Burleigh Dodds Series in Agricultural
Science: no. 29

BIC/THEMA classification

TVK - Agronomy & crop production,
PSTD - Plant physiology, PSTL - Plant
reproduction & propagation, TVF -
Sustainable agriculture, TVM -
Smallholdings



Print (exc. US and Canada) and e-books
(worldwide) distributed by NBN
International.

Updated 22/05/18

New title information

Achieving sustainable cultivation of soybeans Volume 1

Breeding and cultivation techniques

Edited by Prof. Henry T. Nguyen, University of Missouri, USA

Endorsement:

“This book on soybean will be an internationally-renowned source since it covers important aspects of soybean breeding, cultivation techniques, pest and weed management, as well as the use of soybean for human and animal uses. Written by experts in their fields, this collection represents an outstanding and comprehensive compilation of current knowledge.”

Professor Elvira de Mejia, Assistant Dean for Research and University Scholar, Department of Food Science and Human Nutrition, University of Illinois, USA.

Description:

Soybeans are one of the most widely-grown crops in the world. As the world's main source of vegetable protein, they have a wide range of food and non-food uses. Current yields need to increase significantly to meet growing demand but in a way that reduces input use, does not damage the environment and is resilient to climate change. This collection reviews the wealth of research addressing this challenge.

Volume 1 focuses on breeding and cultivation techniques. Part 1 starts by reviewing our understanding of soybean physiology and genetic diversity. It then discusses advances in conventional and marker-assisted breeding, as well as transgenic techniques, and their use to produce more stress-resistant varieties. Part 2 reviews key advances in cultivation techniques to make the most of these new varieties.

With its distinguished editor and international team of authors, this will be a standard reference for soybean scientists, growers, government and non-government agencies supporting soybean cultivation. It is accompanied by a companion volume that looks at diseases and pests as well as the crop's range of uses.

Key features:

- Reviews latest research on crop physiology and genetic diversity
- Detailed coverage of key advances in breeding and their application to produce more resilient drought, salt and fold-tolerant varieties of soybean
- Summarises good agricultural practices to optimise crop cultivation and make it more sustainable

Audience:

Soybean scientists; soybean growers; government and non-governmental agencies supporting soybean cultivation

Editor details:

Dr Henry T. Nguyen is the Curators' Professor of Genetics and Missouri Soybean Merchandising Council (MSMC) Endowed Chair in Soybean Genomics and Biotechnology at the University of Missouri, USA. He is also Director of the National Center for Soybean Biotechnology responsible for pioneering research into the molecular genetics of plant stress resistance as well as a leading role in mapping the soybean genome.

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