

Achieving sustainable cultivation of cassava

Volume 2: Genetics, breeding, pests and diseases

Edited by Dr Clair Hershey, formerly International Center for Tropical Agriculture (CIAT), Colombia



 burleigh dodds
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TVQ - Tropical agriculture - practice & techniques, PSTD - Plant physiology, PSTL - Plant reproduction & propagation, PSTP - Plant pathology & diseases, PSTS - Plant ecology, TVDR - Irrigation, TVF - Sustainable agriculture, TVG - Organic farming, TVKF - Fertilizers & manures, TVP - Pest control



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New title information

Achieving sustainable cultivation of cassava Volume 2

Genetics, breeding, pests and diseases

Edited by: Clair Hershey, formerly International Center for Tropical Agriculture (CIAT), Colombia

Endorsement:

"This book will provide a thorough state of the art on cassava research. The book benefits from bringing together professionals with a broad interdisciplinary expertise in cassava and a value-chain perspective in their writing. This book will be a welcome source of knowledge to facilitate the sustainable intensification of cassava farming globally." *Rodomiro Ortiz, Professor of Genetics and Plant Breeding, Swedish University of Agricultural Sciences, former Deputy Director General/Director of Research for Development, International Institute of Tropical Agriculture (IITA, Nigeria), and Director at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT, India) and International Center for Maize and Wheat Improvement (CIMMYT, Mexico)*

Description:

Originating in South America, cassava is grown in over 100 countries around the world. It is the third most important source of calories in the tropics after rice and maize. Its caloric value, as well as its ability to tolerate dry conditions and poor soils, makes it a key food security crop in developing countries. As demand for food grows, there is an urgent need to increase yields in the face of such challenges as climate change, threats from pests and diseases and the need to make cultivation more resource-efficient and sustainable.

Drawing on an international range of expertise, this collection focuses on ways of improving the cultivation of cassava at each step in the value chain, from breeding to post-harvest storage. Volume 1 starts by reviewing genetic resources, advances in breeding and their application to produce varieties with desirable traits such as higher yield. It then goes on to review developments in understanding and managing pests and diseases.

Achieving sustainable cultivation of cassava Volume 2: Genetic resources, breeding, pests and diseases will be a standard reference for agricultural scientists in universities, government and other research centres and companies involved in improving cassava cultivation. It is accompanied by Volume 1 which reviews cultivation techniques.

Key features:

- Assesses developments in genetic resources, genomic information and their application in marker-assisted breeding of cassava;
- Reviews advances in breeding new varieties with enhanced properties such as higher yield, enhanced nutritional value and resistance to biotic and abiotic stresses;
- Discusses advances in understanding cassava pests and diseases and integrated pest management techniques

Audience:

Academic researchers in crop science; International and national agencies supporting agricultural development; Companies supplying the agricultural sector (e.g. seed companies)

Editor details:

Dr Clair Hershey is former Cassava Program Leader at the world-famous International Center for Tropical Agriculture (CIAT) in Colombia. With a background in plant breeding, Dr Hershey has previously worked for the FAO and the Global Partnership Initiative for Plant Breeding Capacity Building (GIPB) and was Editor of Plant Breeding News.

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Part 2 Breeding improved cassava varieties

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12. Integrated weed management in cassava cultivation: *Stefan Hauser, IITA, Nigeria;*

Related products:

Achieving sustainable cultivation of cassava Volume 1, 978-1-78676-000-5, 31 May 2017, USD 240.00, EUR 230.00, CAD 325.00, and GBP 190.00