

Achieving sustainable cultivation of oil palm

Volume 1: Introduction, breeding and cultivation techniques

Edited by Professor Alain Rival
Center for International Cooperation in Agricultural Research for Development (CIRAD), France



 burleigh dodds
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Achieving sustainable cultivation of oil palm Volume 1

Introduction, breeding and cultivation techniques

Edited by: Dr Alain Rival, Focal Point for Oil Palm Research - CIRAD, France

Endorsement:

'This collection aims to be as comprehensive as possible in coverage, therefore should be essential reading not only for planters and researchers, but also for those involved with international agencies, governmental institutions, academia and non-profit organisations.' M. R. Chandran, Advisor and former Vice-President, Roundtable on Sustainable Palm Oil (RSPO)

Description:

Oil palm is widely cultivated in tropical countries for use in food processing, personal care products and other applications such as biodiesel. Cultivation faces a range of challenges such as its environmental impact (e.g. in deforestation and biodiversity loss) as well threats from pests and diseases. There is an urgent need to make oil palm cultivation more efficient and environmentally sustainable. This collection reviews the key research addressing this challenge.

Volume 1 begins by reviewing trends in production and key challenges facing the sector. Part 2 focusses on developments in understanding oil palm physiology, genetics and genetic diversity and their application to improved breeding techniques. The final part of the book discusses developments in cultivation practices.

With its distinguished editor and international team of expert authors, this collection will be a standard reference for researchers, oil palm growers, palm oil processors as well as government and non-governmental agencies responsible for more sustainable oil palm cultivation. Volume 1 is accompanied by Volume 2 which covers pests and diseases, quality and sustainability issues

Key features:

- Experts from key organisations such as the RSPO identify key production trends and challenges
- Reviews latest developments in conventional and marker-assisted breeding as well as transgenic approaches
- Assesses ways of assessing and optimising yields through techniques such as better nutrient and soil management

Audience:

Scientists researching oil palm; oil palm growers; palm oil processors; government and non-governmental organisations supporting and monitoring the impact of oil palm cultivation

Editor details:

Professor Alain Rival is Regional Director for South East Asia and Focal Point for Oil Palm Research at CIRAD, the internationally-renowned French Center for International Cooperation in Agricultural Research for Development. Dr Rival is also Professor of Biology and Physiology, He coordinates several international collaborative research projects and has published widely on plant biotechnology.

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