

Book Vegetable grafting



COST action 1204
Status
20 October 2014

Status quo of the book: Vegetable Grafting

1. Background and goal: Date for the completion: 31.12.2016
2. Editorial team:
Giuseppe Colla, Francisco Perez Alfocea, Dietmar Schwarz
3. Publisher
4. Critics to the content proposed
5. New proposal. Chapters and sections.
6. Authors.

3. Publisher

CABI

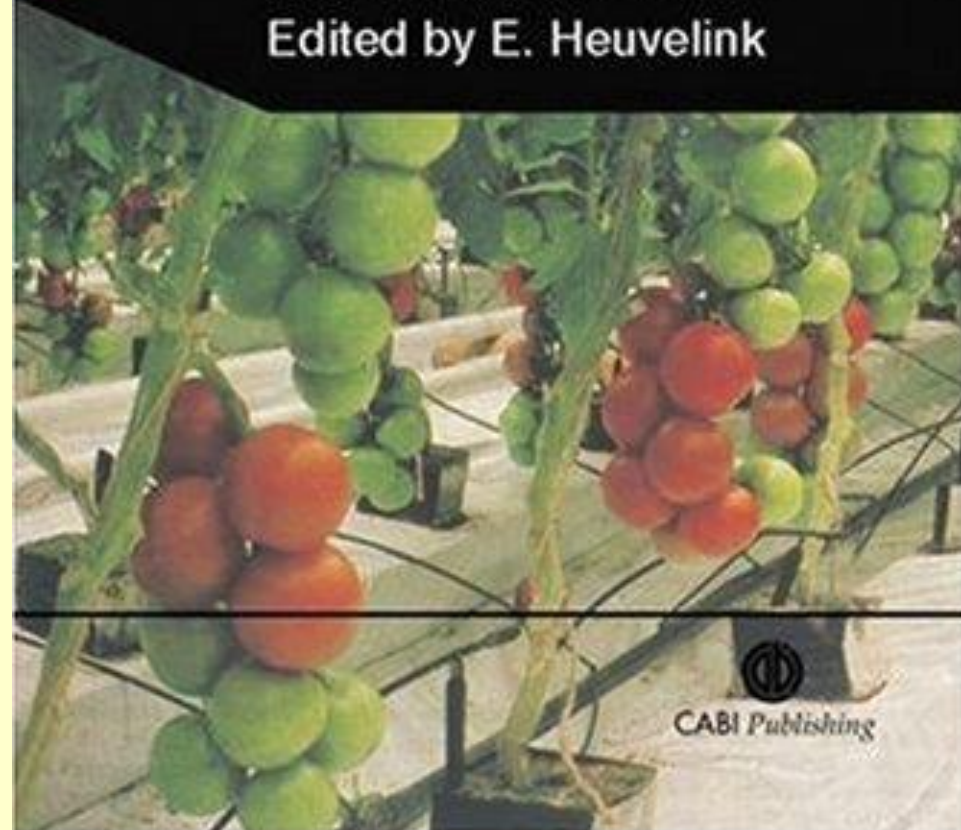
- less commercial
- good price
- good recommendation because of good experiences
- similar topics and series

We delivered a proposal



TOMATOES

Edited by E. Heuvelink



Application

- **Content.** The book will contain a summary of the work on the science and practice of grafting vegetable plants. Starting from the adaptation of the grafting practice from fruit trees to fruit vegetables in the beginning of the last century, we will inform about the reasons, methods, and applications of grafting. The chapters present the current scientific knowledge on the different areas of grafting, breeding, signalling, and physiological including molecular mechanisms of the grafting itself as well as of the beneficial effects caused by grafting. One chapter will cover the side effects related with the grafting on fruit quality.
- **Academic level.** The book will be both: a practical guide for the use and application of grafting methods and a scientific textbook on the mode of action involved in the grafting process. The emphasis will be on the scientific part and most of the contributors are doing research and working in grafting projects for research institutes or universities.
- **Approach:** The editorial team is collaborating with the authors and contributors within a EU COST action 1204 “vegetable grafting” (www.cost.eu/domains_actions/fa/Actions/FA1204). More than 20 EU and neighbourhood countries as well as other specialist from further countries are involved in the action. One of the outcomes of the action we promised is this book (www.vegetablegrafting.unitus.it).

4. Results of the reviews.

Main critics	Our response	Conclusion, proposal for solution
Too much science oriented	Indeed, compromise between applied and basics	P1: Add an introductory chapter and a chapter with a practical manual about how to use grafted vegetables. P2: One booklet on the practical background and one textbook (scientific/"theoretical"). I expect that a combination with one textbook is indeed a compromise difficult to succeed.
Only for Europe (not North America, Asia)	science should be the same but indeed not application	We will ask American and Asian specialist to contribute: General: contributions from North America, Asia Grafting Techniques: Japanese team
Title	We prefer to have a general title.	In case we separate the content into practical and theoretical information, we need to change the titles.
Competing books/titles	I am not aware of such. Who knows?	

Questions to solve

1. New proposal
Decide for P1, P2 or alternative?
2. Proposals for non European contributors
3. Other title and if so, what?
Vegetable Grafting?
4. Hard copy plus e-book (e.g. 1 year later)?

5.1 Former proposal

Preface (Editors)	2
Introduction (Editors)	12
Rootstock breeding: current practices and future technologies and breeding goals (Andrew Thompson and Halit Yetisir).	30
Current and future breeding technologies	
Priority breeding goals	
Breeding barriers and challenges	
Genetic resources for vegetable rootstock breeding (Andrew Thompson and Halit Yetisir)	30
Germplasm collections	
Cucurbitaceae	
Solanaceae	
Others (cardoan, runner beans etc.)	
The sources of genetic material currently in use	
Potential for providing beneficial alleles based on ecological distribution and species barriers	
Rootstock-scion signalling: rootstock-mediated key factors for scion performance (Jan-Henk Venema, Ian Dodd).	30
Current knowledge of chemical, ionic and hydraulic signalling between	
The physical and chemical key regulators	
Physiological and molecular mechanisms underlying graft compatibility (Ana Pina)	30
Rootstock-mediated resistance to environmental stresses (Dietmar Schwarz, Roni Cohen)	40
Biotic stresses	
Abiotic stresses	
Vegetable quality (Leonardi Cherubino, Carmina Gisbert)	30
Definition of product quality	
Rootstock effects on fruit quality	
Mechanisms of fruit quality effects	
Control of quality by grafting, future perspectives	
References (<i>could also be summarized after each chapter</i>)	20
Index	10
	Total ≈250

5.2 New proposal P1 – two more chapter

1. Introduction (more details and focus on application)
Importance and Establishment of grafting worldwide
Grafting methods

Adendum

Rootstocks characteristics

Recommendations for rootstock/scion combinations

Rootstock handling

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5.3 New proposal P2 – two books

1. Booklet on the methods and application of vegetable grafting
2. Scientific book as proposed but with no applications

6. Responsible contributors/authors

Giuseppe Colla:	Preface, introduction, salinity
Francisco Perez Alfocea:	Preface, ?
Andrew Thompson:	Genetics, Breeding
Halit Yetisir:	- “ -
Jan-Henk Venema:	Rootstock-scion signalling
Ian Dodd:	- “ -
Ana Pina:	Physiological and molecular mechanisms
Dietmar Schwarz	Preface, abiotic stresses, Temperature
Roni Cohen:	Biotic stresses
Youssef Roupheel:	Nutrient efficiency
Dimitrios Savvas:	Nutrients
Menahem Edelstein:	Heavy metals
Leonardi Cherubino:	Fruit quality
Carmina Gisbert:	- “ -

7. Time frame

1. New Structure ready 31.10.2014
2. First draft 31.03.2015
3. Chapters submission 30.09.2015
4. first review 01.11.2015
5. Revision 01.02.2015
6. Final submission 01.06.2016
7. Edition 01.08.2016
8. Print 01.11.2016
9. Completion

Further details, question and needs

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