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Titolo	Genetic Improvement of Tropical Crops // by Hugo Campos, Peter D.S. Caligari
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ISBN	3-319-59819-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 320 p. 46 illus., 43 illus. in color.)
Disciplina	631.52 660.6
Soggetti	Plant breeding Plant genetics Trees Plant Breeding/Biotechnology Plant Genetics and Genomics Tree Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part 1 Enabling Technologies -- Chapter 1 Statistical Approaches in Plant Breeding: Maximizing the Use of the Genetic Information -- Chapter 2 Genomic Selection – State of the Art -- Part 2 Crops -- Chapter 3 Tropical Maize (<i>Zea mays</i> L.) -- Chapter 4 Rice (<i>Oryza sativa</i> L.) -- Chapter 5 Cassava (<i>Manihot esculenta</i> Crantz) -- Chapter 6 Sweetpotato, (<i>Ipomoea batatas</i> L.) -- Chapter 7 Bananas and Plantains (<i>Musa</i> spp.) -- Chapter 8 Oil Palm (<i>Elaeis guinensis</i>) -- Chapter 9 Sugarcane (<i>S. officinarum</i> X <i>S. spontaneum</i>).
Sommario/riassunto	This book provides a fresh, updated perspective of the current status and perspectives in genetic improvement of a diverse array of tropical crops. The first part covers aspects which are relevant across crops, namely how to maximize the use of genetic information through modern bioinformatic approaches and how to use statistics as a tool to sustain increased genetic gains and breeding efficiency. The second part of the book provides an updated view of some seed-propagated

crops, such as rice, maize and oil palm, as well as crops propagated through vegetative means such as sweet potato, cassava, banana and sugarcane. Each chapter addresses the main breeding objectives, markets served, current breeding approaches, biotechnology, genetic progress observed, and in addition a glimpse into the future for each of these selected and important tropical crops.
