1. Record Nr. UNINA9910153186203321

| | |
|---|---|
| Titolo | Crop breeding : bioinformatics and preparing for climate change / / edited by, Santosh Kumar, PhD |
| Pubbl/distr/stampa | Oakville, Ontario, Canada ; ; Waretown, N.J. : , : Apple Academic Press, , 2017 |
| ISBN | 1-315-36508-1<br>1-77188-345-6<br>1-315-34212-X |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (371 pages) |
| Altri autori (Persone) | KumarSantosh <1978-> |
| Disciplina | 631.5/233<br>631.5233 |
| Soggetti | Crops - Genetic engineering<br>Plant breeding<br>Crop improvement<br>Crops and climate |
| 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 | pt. I. Crop genomics and climate change -- pt. II. Genomic toolkit for crop genomics -- pt. III. Crop improvement using genomics under changing climate. |
| Sommario/riassunto | This title includes a number of Open Access chapters. Climate change will severely impact the world's food supply unless steps are taken to increase crop resilience. Otherwise, the negative effects on both the yield and the quality of crop plants are predicted to be immense. Plant genomics is a potentially powerful defense against this looming threat. This compendium volume offers a global perspective on the topic, with contributions from 42 eminent researchers from 12 nations around the world. The editor is a respected and published scientist in the bioinformatics field, who has chosen articles in the following topics: An overview of the genetic challenges presented by climate change A genomic toolkit for crop-related research Specific methods of improvement for specific crop by means of genomic applications The |

hand-picked up-to-date research makes this volume an excellent reference not only for university-level academics, but also for policymakers and stakeholders who must tackle the challenge of the world's food security.