

1. Record Nr.	UNISA996206954103316
Titolo	Better crops for food // Ciba Foundation
Pubbl/distr/stampa	London, [England] : , : Pitman Books Ltd., , 1983 Newark, New Jersey : , : CIBA Pharmaceutical Company (Medical Education Division), , [date of distribution not identified] ©1983
ISBN	1-283-57216-8 9786613884619 0-470-72078-6 0-470-71848-X
Descrizione fisica	1 online resource (256 p.)
Collana	Ciba Foundation Symposium ; ; 97
Altri autori (Persone)	O'ConnorMaeve NugentJonathan
Disciplina	631.5
Soggetti	Food crops
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Better crops for food; Contents; 1 Chairman's introduction; 2 Better crop for food - an overview; Crop production systems; The relevance of research; World hunger; REFERENCES; DISCUSSION; 3 Nutritional aspects of improvements in legume seed crops; Dietary considerations; REFERENCES; DISCUSSION; REFERENCES; 4 Status of new nitrogen inputs for crops; Nitrogen and crop production: past, present, future; The knowledge base for nitrogen input; Future technologies for nitrogen input; Summary; REFERENCES; DISCUSSION; REFERENCE 5 Variation in and genetics of certain antinutritional and biologically active components of soybean seedKunitz trypsin inhibitor; Lectin; - Amylase; Lipoxigenase-1; Conclusions; REFERENCES; DISCUSSION; REFERENCES; 6 Crops tolerant of salinity and other mineral stresses; Mineral stresses; A new approach; Salinity; Development of salt-tolerant crops; What shall we aim for?; What means shall we use?; REFERENCES; DISCUSSION; REFERENCES; 7 Intercropping studies with annual crops; Better use of environmental resources; Legume benefits;

Control of weeds, pests and diseases; Yield stability
Intercropping in developed situations REFERENCES; DISCUSSION; 8
Multiple land-use and agroforestry; Multiple land-use systems;
Agroforestry; Plant species for agroforestry; The systems perspective of
agroforestry; Whither agroforestry?; REFERENCES; DISCUSSION;
REFERENCE; 9 An integrated disease and pest management scheme,
EPIPPE, for wheat; The food production dilemma; The ecological
dilemma; Crop protection and food production; Systems analysis in
crop protection; The EPIPPE example; The context problem; Future
prospects; REFERENCES; DISCUSSION; REFERENCE
10 Maximizing hybrid vigour in autotetraploid alfalfa Maximum
heterozygosity in diploids and autotetraploids; Minimizing
heterozygosity for selection in autotetraploids; Novel methods for
maximizing hybrid vigour in autotetraploids; REFERENCES; DISCUSSION;
11 New food legume crops for the tropics; Velvet bean; Rice bean;
Bambara groundnut; Winged bean; Conclusion; REFERENCES;
DISCUSSION; REFERENCES; 12 Germplasm preservation; Maintenance
under minimal growth conditions; Storage of plant cells and tissues in
undercooled conditions; Cryogenic storage of plant cell and tissue
cultures; REFERENCES
DISCUSSION 13 Somaclonal variation and genetic improvement of crop
plants; Somaclonal variation; Presumptive generalities; Origin of
somaclonal variation; Conclusions; REFERENCES; DISCUSSION;
REFERENCES; General discussion; Possible roles of somaclonal variation
in breeding; REFERENCES; 14 Applications of molecular biology in plant
breeding: the detection of genetic variation and viral pathogens;
Cytoplasmic variation and the southern corn leaf blight epidemic in
maize; Detection of mitochondrial DNA variation; Characterization of
plant genotypes using a rapid tissue hybridization method
The detection of viral pathogens by a molecular hybridization assay
