



Genetic and Production Innovations in Field Crop Technology: New Developments in Theory and Practice

By Manjit S. Kang



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Get cutting-edge information to improve crop breeding and productivity!

Crop improvement will become progressively important over the next few decades as the world's population is expected to top 10 billion people, with more than eight billion in developing countries alone. Genetic and Production Innovations in Field Crop Technology: New Developments in Theory and Practice tackles this enormous challenge by detailing the latest available research and innovations for crop breeders and physiologists for the twenty-first century. Respected multidisciplinary scientists comprehensively discuss cutting-edge advances in field crop technology and genetic production as they keep an eye on the goal of providing nutrition to a hungry world.

Genetic and Production Innovations in Field Crop Technology emphasizes an integrated approach to solve global crop production problems and increase crop productivity. Crop research experts review methods of globally improving crop yield, food product efficiency, and providing adequate nutrition in diet. The authors discuss various types of field crops, including corn, soybeans, winter wheat, cassavas, rubber, sunflowers, and barley, as well as review the exciting innovations on the food production horizon. The text is extensively referenced and includes useful graphs and tables to clearly present data.

Genetic and Production Innovations in Field Crop Technology presents:

- visionary articles by authorities in agricultural sciences
- statistical design axioms and modern plot techniques
- discussions of integration of crop physiology and plant breeding
- information on systematic collection and preservation of germplasm
- explanations of genetic diversity in soybeans
- corn breeding and production research—including the economics—in the United States
- research on cassava breeding in less favorable environments to alleviate poverty
- strategies for improving yielding potential of rubber in sub-optimal environments

- information on fine-tuning wheat genotype-by-environment interaction methodology
- reviews of QTL identification, mega-environment classification, and effective strategies for marker-based selection via GGE biplot analyses
- research on statistical properties and practical usefulness of the Scheffe-Calinski and Shukla models relative to genotype-by-environment interaction

Genetic and Production Innovations in Field Crop Technology: New Developments in Theory and Practice belongs in every agricultural university library. Crop breeders, geneticists, agronomists and horticulturists, educators, and students will find this an invaluable research source for now and for the future.

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Review

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