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To face this looming threat, significant progress in developing

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new breeding strategies has been made over the last few decades. The first volume of Genomics and Breeding for Climate-Resilient Crops presents the basic concepts and strategies for developing climate-resilient crop varieties.

## **Genomics and Breeding for Climate-Resilient Crops ...**

Application of genomics-assisted breeding for generation of climate resilient crops: progress and prospects Climate change affects agricultural productivity worldwide. Increased prices of food commodities are the initial indication of drastic edible yield loss, which is expected to increase further due to global warming.

## **Application of genomics-assisted breeding for generation ...**

Climate change is expected to have a drastic impact on agronomic conditions including temperature, precipitation, soil nutrients, and the incidence of disease pests, to name a few. To face this looming threat, significant progress in developing new breeding strategies has been made over the last few decades. The second volume of Genomics and Breeding for Climate-Resilient Crops describes ...

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This chapter focuses on the progress in genomics-assisted

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breeding in peach to break barriers in conventional breeding. Breeding climate-smart (CS) peach trees requires the identification of CS traits used in the adaptation to high levels of temperature, CO<sub>2</sub>, water deprivation and biotic stress. Relevant CS traits, such as those that control flowering time (chilling and heat requirements), biotic and abiotic stress tolerance (pests and diseases; water-nutrient efficiency), require ...

## **Genomic-Based Breeding for Climate-Smart Peach Varieties ...**

Future vegetable varieties must be adaptive to the varying scenarios of climate change, produce higher yields of high-quality food and feed and have multiple uses. To achieve these goals, it is imperative to employ modern tools of molecular breeding, genetic engineering and genomics for 'precise' plant breeding to produce 'designed' vegetable varieties adaptive to climate change.

## **Genomic Designing of Climate-Smart Vegetable Crops ...**

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The abiotic stresses like drought, temperature, cold, salinity, heavy metals etc. affect a great deal on the yield performance of the agricultural crops. To cope up with these challenges, plant breeding programs world-wide are focussing on the development of stress tolerant varieties in all crop species.

## **Genomics Assisted Breeding of Crops for Abiotic Stress ...**

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The genomic data so vital to AI-led breeding programs is also becoming more accessible. "We're really at this point where genomics is cheap enough that you can apply these technologies to hundreds of species, maybe thousands," says Buckler. Plant breeding has "entered the engineered phase," adds Tanksley. And with little time to spare.

## **Inner Workings: Crop researchers harness artificial ...**

The expanding use of nitrogen fertilizers in agriculture is pushing nitrous oxide emissions to levels that jeopardize climate goals and the objectives of the Paris Agreement, according a new study ...

## **Nitrogen fertilizers are jeopardizing climate goals, new ...**

Pre-breeding and genomics-assisted breeding approaches are contributing to the more efficient development of climate-resilient crops. It is anticipated that the integration of several disciplines/technologies will result in the delivery of climate change ready crops in less time.

## **Can genomics deliver climate-change ready crops ...**

To face this looming threat, significant progress in developing new breeding strategies has been made over the last few

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decades. The first volume of Genomics and Breeding for Climate-Resilient Crops presents the basic concepts and strategies for developing climate-resilient crop varieties.

## **Genomics and Breeding for Climate-Resilient Crops : Vol. 1 ...**

In addition, he has edited or co-edited and authored or co-authored 13 books, including Genotype-by-Environment Interaction (CRC), Quantitative Genetics, Genomics and Plant Breeding (CABI), Breeding Major Food Staples (Blackwell), Combating Climate Change (CRC). He is the editor of Journal of Crop Improvement and technical editor of Crop Science

## **Quantitative Genetics, Genomics and Plant Breeding 2nd Edition**

Advances in genomics can accelerate the production of climate ready crops. The changing climate and growing global population will increase pressure on our ability to produce sufficient food. The breeding of novel crops and the adaptation of current crops to the new environment are required to ensure continued food production.

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