Abstract

Biotechnology and genetic Engineering is now able to increase food quality and quantity by introducing modified recombinant genes into the crop plants. Scientists of Hawaii and Cornell University has developed two varieties of papaya which are resistant to papaya ringspot virus by taking genes from virus. Crops like cotton potato have been successfully transformed to make a protein; Cry protein to kill harmful insects. Indian agricultural research institute, New Delhi has also developed many vegetable crops that are rich in vitamin and minerals. Biotechnology and Genetic engineering has developed GM crops like ‘Golden rice’ and ‘Flavr Savr’ which are far better than natural varieties.
References

- Paine Jacqueline A; Shipton, Catherine A; Chagger, Sunandha; Howells, Rhian M; Kennedy, Mike J; Vernon, Gareth; Wright, Susan Y; Hinchliffe, Edward; Adams, Jessica I (2005). Improving the nutritional value of Golden Rice through increased pro vitamin A content. Nature biotechnology 23 (4): 482-7. doi:10.1038/nbt1082. PMID 15793573.
- International rice research Institute: About Golden rice.
- Biofortification: Harnessing agricultural technology to improve the health of the poor, IFPRI and CIAT pamphlet, (2002).
- 13 Segelken, Roger (14 May 1987). Biologists invent gun for shooting cells with DNA.

Index Terms

Computer Science

Applied Science

Keywords
Transformation  Rdna  Biofortification  Genetic Engineering  Agrobacterium