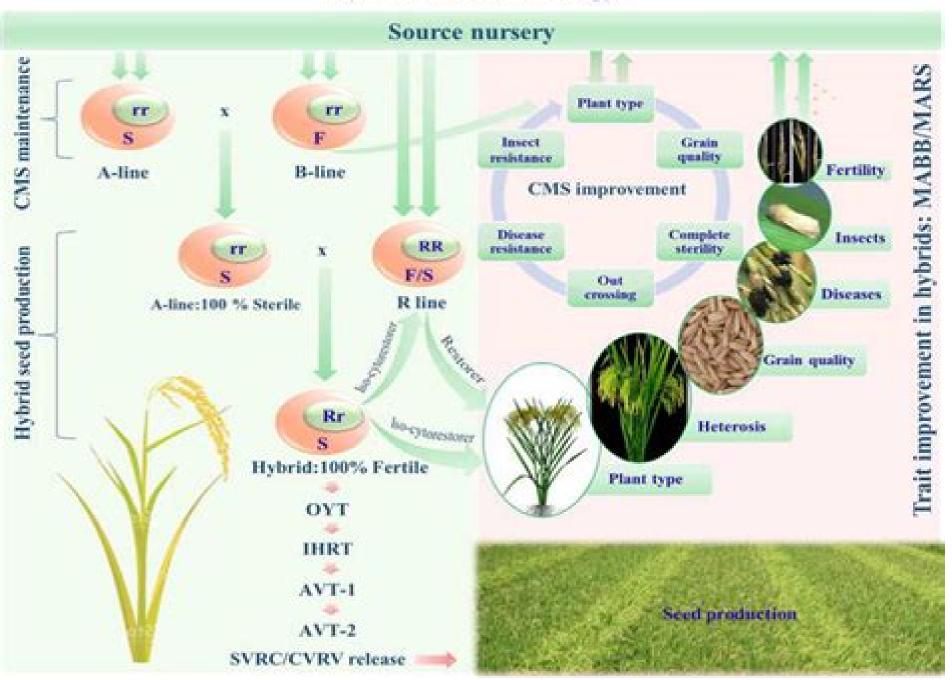
Hybrid rice technology



Technology Of Hybrid Rice Production

Sant S. Virmani, E. A. Siddiq, K. Muralidharan

Technology Of Hybrid Rice Production:

Technology of Hybrid Rice Production Longping Yuan, Xi-Qin Fu, Food and Agriculture Organization of the United Nations, 1995 Heterosis in rice Rice cytoplasmic genetic male sterility system Procedures for breeding hybrid rice Breeding for CMS lines and their maintainers Breeding for restorer lines Hybrid seed production and CMS line multiplication Purifying parental lines and producing foundation seeds hybrid rice cultivation practices Breeding two line system hybrid rice Studies **Hybrid Rice Technology** S. S. Virmani, 1994 This symposium is a follow up on one line system hybrid rice development to one held in China in 1986 Since then considerable progress has been made in research and development of hybrid rice This second international symposium was held under the umbrella of the International Rice Research Conference Eighty scientists and seed production experts from 18 countries IRRI and FAO attended Contributions covered breeding biotechnology seed production agronomy plant physiology plant pathology entomology and economics **Hybrid** rice technology development: Ensuring China's food security Jiming Li, Yeyun Xin, Longping Yuan, **Advances in Hybrid** Rice Technology Sant S. Virmani, E. A. Siddiq, K. Muralidharan, 1998 Hybrid Rice for Food Security, Poverty Alleviation, Hybrid Rice - The Journey Robin and Environmental Protection Sant S. Virmani, C. X. Mao, B. Hardy, 2003 Andrews, 2017-03-17 In 1964 a Chinese rice breeder Yuan Longping discovered a rice plant that was the genetic key to the successful development of high yielding hybrid rice At that time China was a secretive communist state where self pollinating varietal rice was grown on collective farms using highly labor intensive practices Forty years later by 2004 hybrid rice based on Yuan's work was being grown commercially in the United States using mechanized farming practices. This book describes the journey across those four decades and the chain of events and people which resulted in technical success in China by 1976 and in the United States by 2000 Extraordinary political and technological developments occurred during this time and the book describes these and the many serendipitous events and people of different backgrounds that were involved in the successful journey It is estimated that hybrid rice is now 2017 saving the US rice industry as much as 100 million each year

Hybrid Rice Seed Production Technology and Its Impact on Seed Industries and Rural Employment Opportunities in Asia S.S. Virmani,2002 The successful commercialization of hybrid rice in many parts of the word is linked to the development of hybrid seed production technology Although rice is a self pollinated crop a hybrid seed production mechanism has been developed using systems based on cytoplasmic and environmentally sensitive genetic male sterility Chinese seed growers obtain on average 2 5 mt ha seed yields range 1 5 to 7 4 mt ha Outside China in tropical countries mean seed yields are about 1 2 mt ha range 0 5 to 4 0 mt ha Hybrid seed production technology is economically viable in China and other countries with abundant and cheap labor because it requires about 50 mandays ha more labor than normal rice cultivation **Studies on Seed Production and Storage Technology in Hybrid Rice** C. L. Maurya, 2014-07-22 The Asian cultivated rice Oryza sativa L is an economically important crop that is the staple food for more than one half of the world s population Rice

contains a large amount of starch some protein fat minerals and vitamins It provides more calories per hectare than any other cereal crop Brown rice contains 7 5 per cent protein 1 9 per cent fat 1 2 per cent ash 77 4 per cent carbohydrates and 0 9 per cent fibre In addition it also contains 32 mg calcium 22 mg phosphorus 1 6 mg Iron 9 0 mg sodium 0 214 mg potassium 0 34 mg thiamine 0 05 mg riboflavin and 4 7 mg niacin per hundred gram of brown rice Hybrid rice research in china India and elsewhere during the past few years have established the superiority of hybrids over popular traditional varieties in respect of growth grain yield and tolerance to stresses Hybrid varieties yield 15 to 20 per cent higher than the best semi dwarf cultivars Hybrid rice seed production techniques have been standardized in china but in India the technology of hybrid seed production has yet not been perfect to suit its ecologies

Accelerating Hybrid Rice Development,

<u>Rice Research and Production in the 21st Century</u> Walter G. Rockwood,2001 Bob Chandler man manager and inspiration Intensive rice production systems implications and opportunities Developments in genetics future opportunities in rice 21st century institutions for agricultural research

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