

Category	: International Rice Research Conference
Select Theme	: Climate change and environmental sustainability
Endorsement email	:
Keyword 1	: Mitigation of climate change
Keyword 2	: Environmental sustainability
Keyword 3	: Multidimensional sustainability (environment, economic, social, governance)
Title of Entry	: Future emerging problems and prospects of rice breeding
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Affiliation 1	:
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Developing semi dwarf high yielding varieties which lead to attaining self sufficiency in independent India from deficient. Country is now a great exporter of rice. To sustain the gain made, further work on hybrid rice has now sound footing. Lot of work is in progress on developing high yielding varieties including in built resistance to pests and diseases and preferred hybrids etc. But in future, there may be challenging new problems that needs attention of scientists. This includes global warming, value addition, nutritional improvements, organic rice breeding etc. In past one decade the global temperatures are raising. The concentration of methane along with other gases is increasing annually. This would affect global agriculture by affecting rainfall and temperature. Breeding be aimed at decreasing methane production elimination methane emission. New high yielding varieties allow methane to escape from soil more easily than traditional varieties. Breeding need to alter basic architecture of modern varieties. Variety with high oxidative power and higher yield be one aspect and the other being high yielding variety highly stable over varied seasonal condition due to erratic monsoon behavior etc. Rice bran oil has balance of fatty acid composition, rich in vitamin E which is antioxidant helps in weight loss and boost immunity. Among the rice bran oil composition β lineolenic acid i.e., omega 3 needs to be increased to have more practical utility and value addition to rice bran oil. Since rice is principal source of dietary energy and protein of half of the world population. Juliano (1992) stated rice is principal Source of Fe, Ca, and B vitamins, thiamine, riboflavin and niacin. There is enough variation available for protein content. Further, Siddiq (1992) stressed breeding varieties with improved protein digestibility using natural or mutation induced variability. Developing crop varieties suitable for organic farming is essential

for the sustainability of agriculture. Varieties having traits amenable for organic farming are the missing link. Thus emphasis should be on methods and tools available for organic plant breeding. Breeding for varieties/hybrids for puffed rice, pressed rice etc have been discussed.

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