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Category	: International Rice Research Conference
Select Theme	: Genetic improvement
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Keyword 1	: Germplasm Enhancement
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Keyword 3	: Genotype x Environment Interactions
Title of Entry	: Studies on adaptability of basmati rice varieties of Indo-Gangetic plains under sub-mountainous & mid hill conditions of North Indian Himalayas.
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Abstract : Basmati rice, cultivated in the north-western part of the Indo-Gangetic plains of the Indian sub continent, is highly valued due to its unique aroma, grain size and organo-leptic taste. India is the leading exporter of the Basmati rice in the global market, the country has exported 40,00,471.56 MT of Basmati adding to foreign exchequer of Rs. 21,604.58 crores during the year 2016-17. Out of this maximum share is of longest grain variety PB 1121. So far 29 varieties of Basmati rice have been notified. Whole of Himachal Pradesh has been included in Geographical Indication for basmati rice. However, the basmati cultivation in the state is confined to areas below 1000 m altitude owing to the late maturity. Further, diseases like blast takes a heavy toll of the crop and is a serious threat to rice productivity. Keeping this in view, 20 varieties were collected and evaluated for their adaptability in three locations i.e. RWRC Malan, KVK Sundernagar, KVK Una. It was observed that vars. PB 1509, Bas 564, and Ranbir Basmati flowered in < 100 days at Malan whereas, PB 1121, PB 1509, Basmati 370 and VB 24 flowered in <95 days at Mandi. Basmati 564, MB 10-9, VB 21 and VB 24 showed higher yield as compared to check variety HPR 2612 at RWRC Malan. Basmati 564, Improved Basmati 1, PB 1121, PB 1509, VB 21, VB 23 and VB 24 out yielded the check at Sundernagar. Grain length of vars. PB 1509 and PB 1121 was more than 9.5 mm. These were the longest grain varieties with L:B ratio of more than 5. Haryana Basmati 2, MB 10-9, Punjab Basmati 3, PB1509 and VB 23 were moderately resistant to leaf blast at Malan and Una. Vars. VB 21 and VB 24 showed resistant reaction to neck blast whereas, PB 1, PB 1121 and Kasturi were moderately resistant to brown spot under Una conditions. Short duration, early maturing, high yielding varieties with blast resistance may be exploited Himachal Pradesh. Land mark varieties like PB 1121 may be used as promising donor for improving grain length and aroma .

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