

Category	: International Rice Research Conference
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Keyword 1	: Agri-food systems and the food environment
Keyword 2	: The future of food (systems)
Keyword 3	: The future of rice farming
Title of Entry	: Proteomic analysis of traditionally grown rice landraces from Kumaun hills of Uttarakhand India
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**Abstract** : The main objective of the present investigation is to explore the proteomic status of rice landraces collected from high altitudes of Kumaun hills, Uttarakhand. Rice is often instantly linked with wealth and fruitfulness; hence there is the tradition of growing traditional rice in Kumaun hills. Total forty rice samples were collected from local farmers of different high elevation cultivation sites of Kumaun. The collected rice samples were traditionally grown by farmers of hills. Total buffer soluble proteins (TBSP) were quantified with the help of Bradford method. The banding pattern of different protein samples were examined after sodium dodecyl sulfate poly acrylamide gel electrophoresis (SDS-PAGE). It was observed that color of paddy grains rice seed coat and eluron layer was different. Quantification of TBSP showed significant variation in quantity (10 to 15%) and quality (showing 15 to 25 distinct bands). It was concluded that the present work will be helpful for knowing the proteomic status of rice land races from Kumaun. This study would be useful and interesting to researchers working on nutraceuticals and food to food fortification special reference to less known local landraces. Key words: Nutraceuticals, Oryza sativa, Rice landraces and Total buffer soluble protein.

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