

Expression of Interest Abstract

Title: A NON-GMO HIGH PROTEIN RICE

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Short Abstract:

Successful development of non-GMO locally adapted rice (*Oryza sativa*) lines with protein content range of 10 to 12 % (w/w) will be reported. Released varieties typically have grain protein content of 6-7% (w/w). One of the high protein lines is currently being filed for a patent. Improved protein content in the rice grain will help provide improved nutritional regimes in food and cereal products and to better meet personalized nutritional requirements or preferences. It can also be tailored into functional foods to meet the needs for individuals with specific genetic traits. In the more general and broader scale, improved protein content in rice will have a significant value since rice feeds nearly half of the world's population. The impact on helping reduce malnutrition problem in many parts of the region where rice is the major source of food will be most prevalent. Presentation will cover the methods used to develop these lines and their field performances.