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Short Communication Open Access

An Overview of Food Quality, Safety and Nutrition

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Quality isn't invariably simple to outline and it depends on the buyer and also the supposed use. what's thought of to be high-quality rice during a specific social setup or country might not be thought of high-quality rice in another. Quality indicators embrace directly noticeable parameters like wet content, softness, grain color, chalkiness, form and size, aroma and style, and conjointly extraneous matter and defective kernels. These square measure partially determined by underlying chemical characteristics like gelatinization temperature and gel consistency, and partially by edge processes and grading aspects. Vital scientific progress is being created in characteristic and analytic genes to blame for such quality traits that square measure terribly promising for brand spanking new varieties with considerably improved grain quality. Safety is set by the presence/absence of gear unsafe to customers. High concentrations of residues and contaminants will create rice unsafe. Standards are set down each in Codex and ISO to hide safety parameters like chemical residues, significant metals (arsenic, cadmium), aflatoxins and quality parameters. Additionally, as per the sanitary and Phytosanitary (SPS) Agreement, countries will impose extra necessities. Grain quality and safety, hence, rely not simply on the rice selection however on the assembly setting, production practices and post-harvest operations. Thus, the assembly of good-quality rice that meets safety parameters needs controls right from the stage of seed to in-field crop management, harvesting, drying, milling, storage, transportation and selling. Following smart Agricultural Practices (GAP), smart producing Practices (GMP) and smart storage and coating practices is crucial for food safety however certification is also required to assure or demonstrate compliance with the standards set. Countries might have their extra set of safety standards supported their broader safety considerations. Coating is additionally a crucial issue each as a unsafe substance and for its impact on the setting. It's vital to use gases that square measure non-hazardous to humans and also the environment [1].

Thus, varied choices accessible to boost the standard, safety and nutritionary price of rice follow:

- Improve the yield of high-quality ancient varieties like Basmati rice through breeding to include traits that end in higher yield. A very thriving example is Pusa Basmati 1509 discharged in Republic of India in 2013. Extra work on this line is also fascinating.
- Bio fortification of rice varieties with micronutrients (iron, zinc, etc.) and rice fortification.

Relative importance of the farmers' selection choice traits

Each farmer of every gender cluster in every agro ecology rated the relative importance of the twenty three traits exploitation a one to three scale (1 = less vital, two = somewhat vital, three = terribly important). Eleven traits were thought of "very important" by additional than seventieth of the farmers in one or each agro ecologies. 3 of the eleven were scientific discipline traits – high yield, long period of time, and quality for sequent harvest. 5 of the eleven were organic phenomenon and abiotic stress tolerance or resistance traits for drought tolerance, wind and hail harm, late blight, tuber spoilage, and ability to grow in soil with poor fertility (the latter for Litigant only). All 3 traits associated with utilization – quality for boiling, stew, and market demand - were deemed "very important" by farmers [2]. In addition, our scientific discipline information showed that a twelfth attribute, early maturity, is a crucial attribute for Maher season production. Six traits (drought tolerance, late blight resistance, high yield, long period of time, quality for boiling and quality for stew) were thought of "very important" by most farmers in each agro ecologies. Adoption is also hindered for brand spanking new varieties that lack any of those traits [3].

References

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Received March 10, 2021; **Accepted** March 19, 2021; **Published** March 30, 2021

Citation: Ahmad M (2021) An Overview of Food Quality, Safety and Nutrition. J Rice Res 9: 246.