EFFECT OF GERMINATION ON NUTRIENT COMPOSITION OF NIGERIAN FARRO 44 BROWN RICE

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Typical structure of a rice grain

- endosperm
- aleurone cell layer
- endosperm cells with starch granules
- germ (embryo)
- plumule
- scutellum
- radicle
- apex (awn)
- lemma
- hull
- bran
- nucellar tissue
- seed coat (testa)
- pericarp

Paddy → Brown Rice → White Rice
Some Nutritional status of FARRO 44 rice affected by germination conditions.

WR: ungerminated parboiled milled rice; BR: ungerminated brown rice; G35T40: germinated brown rice.
Conclusions and research Applications

The nutritional quality of Nigeria’s grown rice (FARRO 44) was improved by controlled germination process.

The implication of our findings is that GBR will make a better health impact on consumers.

The production process is very simple and can be easily adopted by industries as well as in rural/urban communities.
Thank you!