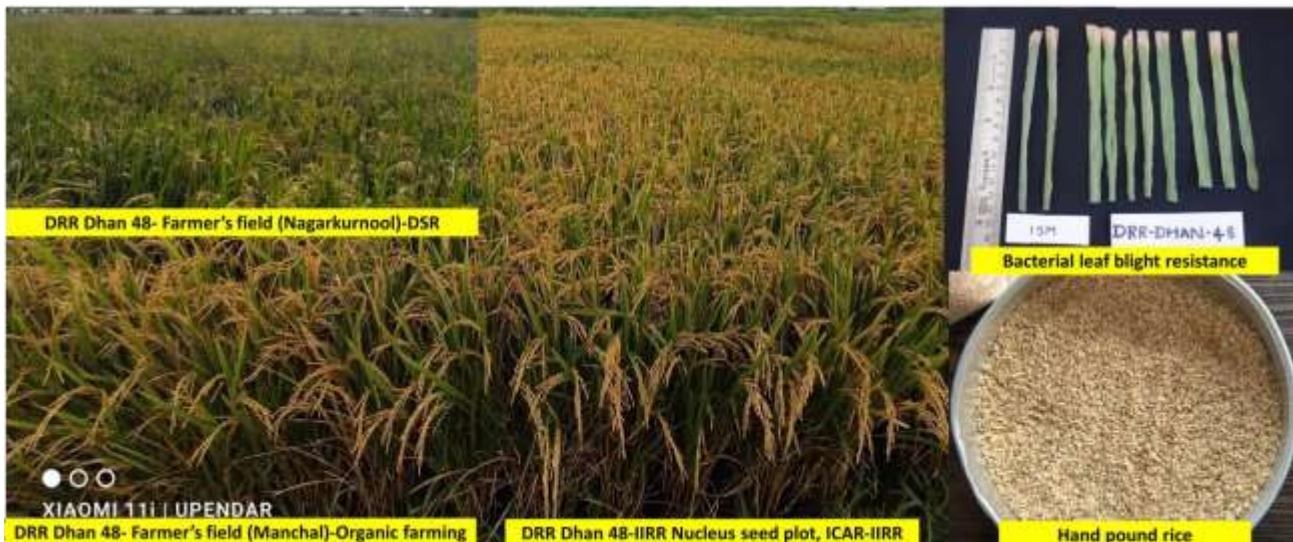
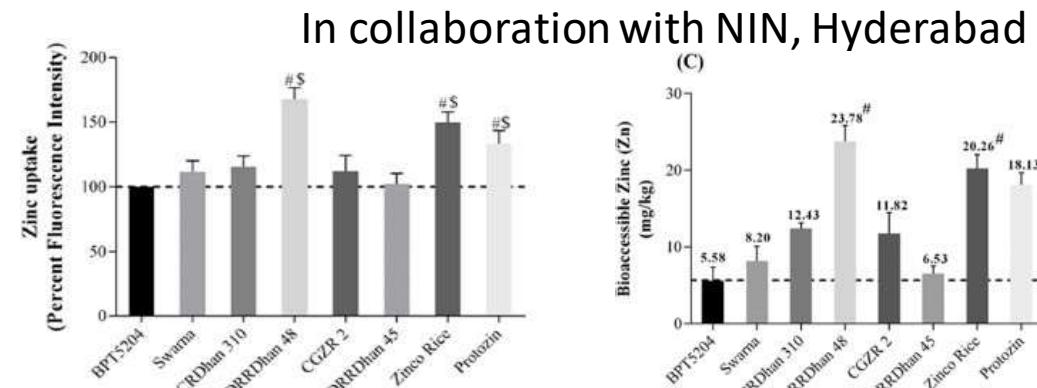
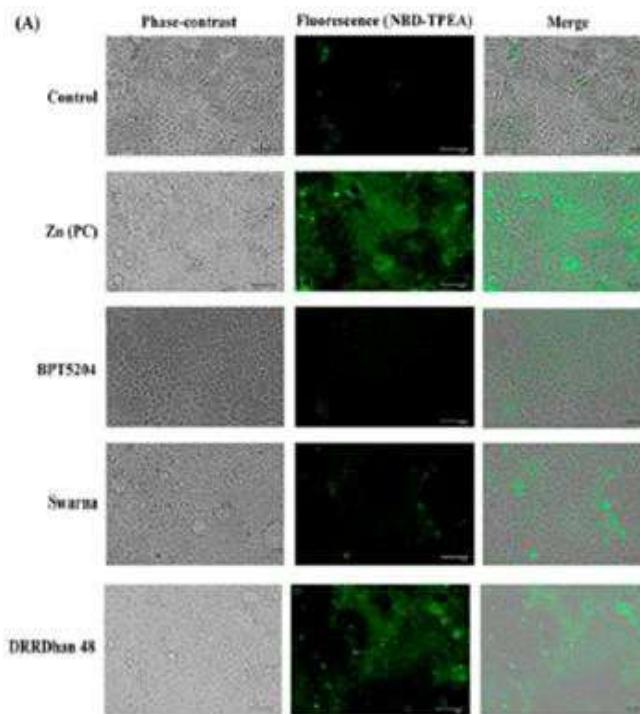


DRR Dhan 48: A Low-Glycaemic Index, Zinc Rich, Climate Resilient, Fine Grain Elite Rice Cultivar with Bacterial Blight Resistance

- Low glycaemic index (51.1) and a high zinc content (24 ppm) in polished grain
- Cross: Improved Samba Mahsuri*1/ CSR 27
- Inherent resistance to bacterial leaf blight (BLB) with three resistance genes (*xa5+xa13+Xa21*)
- Moderate resistance to salinity stress
- Possesses desirable grain quality parameters
 - Medium slender (MS) grains,
 - High milling recovery (69.4%),
 - Head rice recovery (HRR-60.9%)
 - Good cooking quality with intermediate amylose content (AC-24%).



Higher Bio-accessibility and Uptake of Zinc in DRR Dhan 48 compared to other bio-fortified varieties in Caco-2 Cells (*In Vitro*)



DRR Dhan 48-reduces malnutrition by significantly improving the weight and height

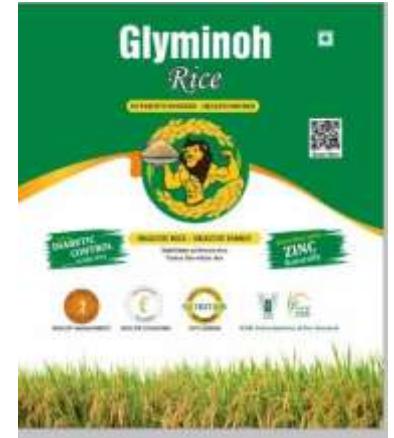


Anthropometry indices

- Anganwadi associated with Krishi Vigyan Kendra (KVK) Madanapuram, Mahabubnagar
- Anthropometry data: Malnourished male infant (<11 months old) with hypothyroidism-fed with DRR Dhan 48 for 20 days (3 times a day - increase of body weight and height.

Sensory evaluation

DRR Dhan 48- Technology License Agreement

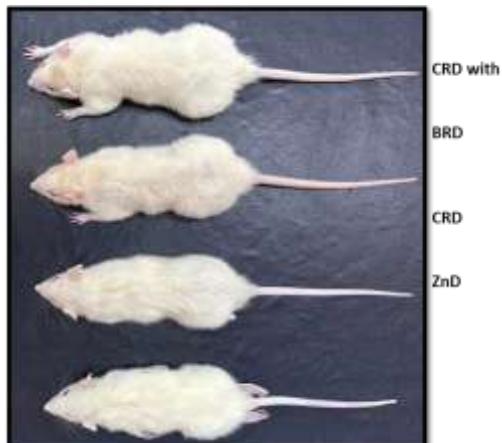
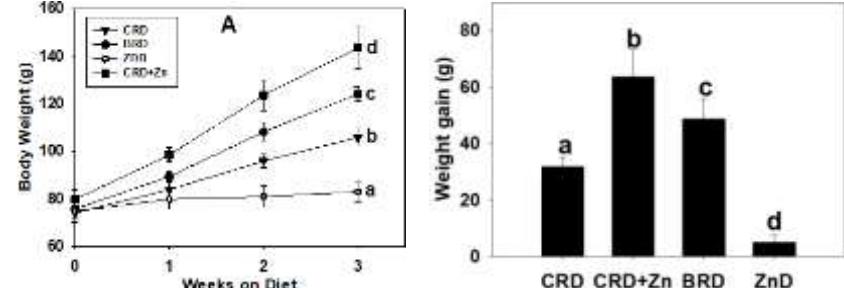


- DRR Dhan 48-commercialized under different brand names: 'Glyminoh rice'; Better grain'
- Hand pound rice with low GI (NIN), high Zn (IIRR), high protein (9.3%) & high fibre (ISARC)



DRR Dhan 48 Improves Growth in Zinc-Deficient Rats

4 weeks dietary zinc depletions followed by 3 week repletion with experimental diet in Wistar Kyoto Rats



CRD: Control Rice, CRD+Zn: Control Rice with added Zn; BRD; Biofortified Rice, ZnD: Zinc deficient diet

- Extensive studies on Public private partnership with M/s Coramandal Fertilizers
- Premium quality rice with greater consumer acceptance and export market potential
- Wide cultivation across various parts of the country

Consumer acceptance of High Zinc Rice DRR Dhan 48:

- The milled rice of Biofortified rice DRR Dhan 48 was distribution under CRP Biofortification project for consumer acceptance of high Zn rice on 11th - 12th January, 2024 at ICAR-IIRR, Hyderabad.

NutriRich (High Zinc Rice Food Fair):

- As part of the CRP Biofortification project, a NutriRich (High Zinc Rice Food Fair) was conducted on 8th January, 2024 at ICAR-IIRR, Hyderabad. Participants from IIRR actively participated in creating various rice recipes using the high-zinc rice variety DRR Dhan 48.



Ref: Annual Report 2024. ICAR-Consortia Research Platform on Biofortification in selected crops for nutritional security. ICAR-Indian Institute of Rice Research, Hyderabad, India. p. 136



దశ ప్రశ్నలకు అన్ని పాఠమున్న
రాశేంద్రసంగ్రహంలోని వార్తలు పరిపూర్వించుని
ద్వారా దిన్ని అందుల్లో విశేషములను వ్యాపించుని



ప్రాంతిక పంచింపులు, కార్బన్లు



କାମ କାହାରୁମୁକ୍ତ ହେବାରୁ ଯଜ୍ଞାକୁ କାହାରୁକୁ
କାହାରୁ ଦେଇ ଦେଇ କାହାରୁ କାହାରୁ କାହାରୁ

ICAR-IIIRR, Industry meet 2024" was organized on 24th November, 2024 at ICAR-IIIRR, Hyderabad for demonstration and display of biofortified and non-biofortified rice varieties released from IIIRR.