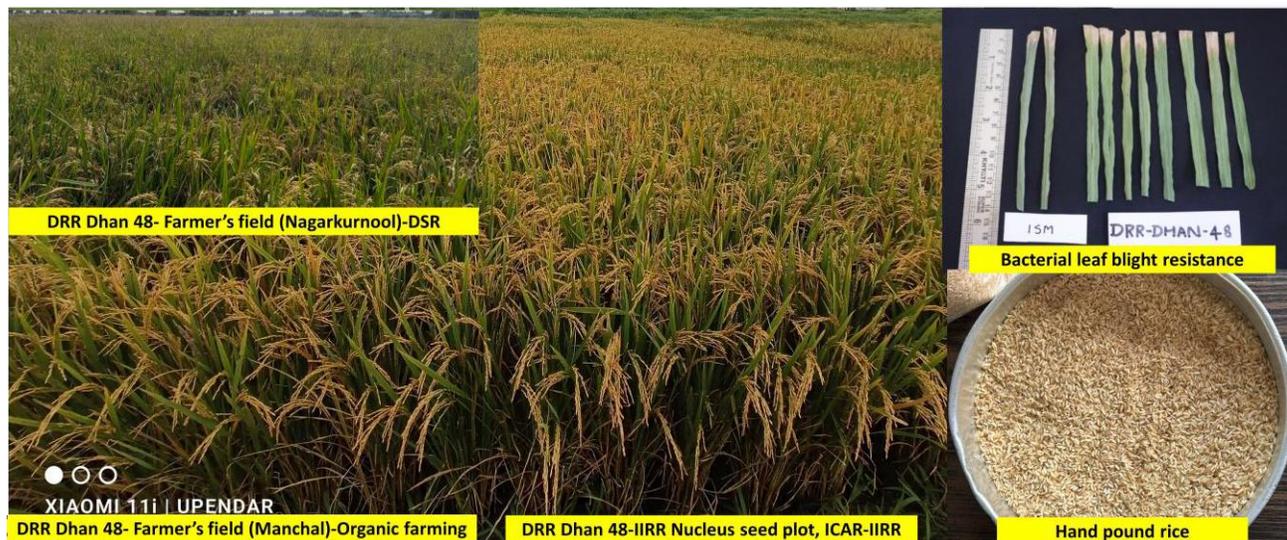
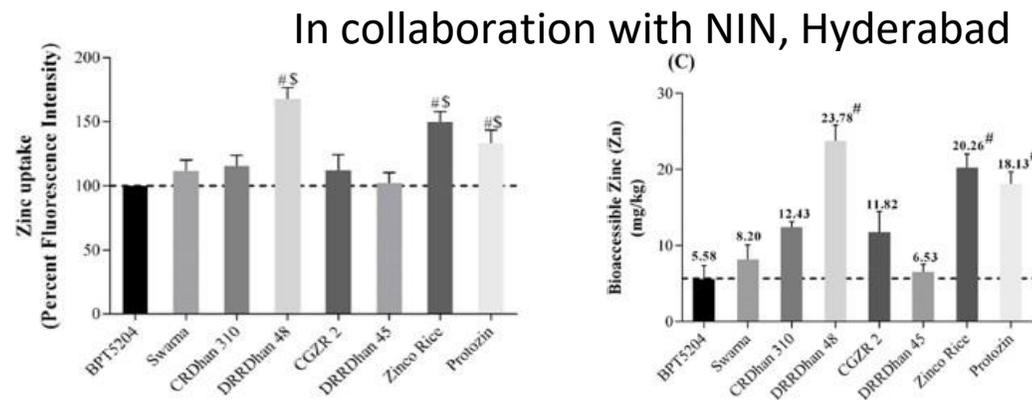
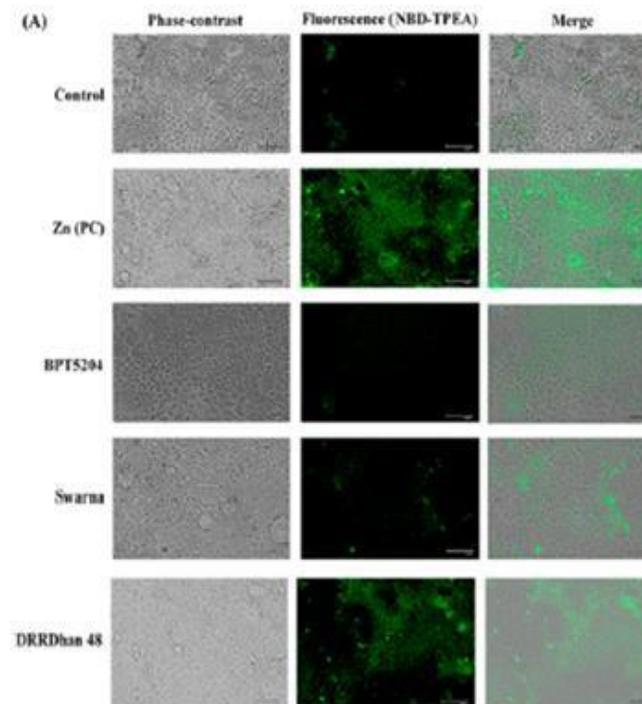


DRR Dhan 48: A Low-Glycaemic Index, Zinc Rich, Climate Resilient, Fine Grain Elite Rice Cultivar with Bacterial Blight Resistance

- 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

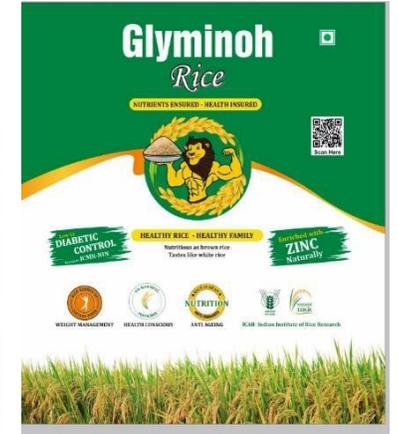


Anthropometry indices

- 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

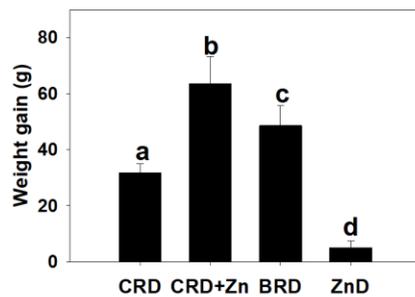
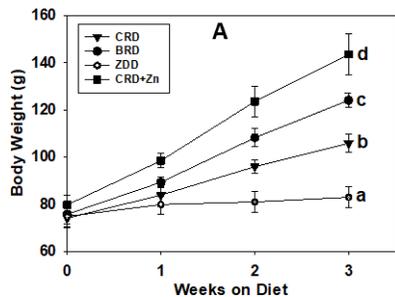
DRR Dhan 48- Technology License Agreement



- 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 with Zn
BRD
CRD
ZnD



- 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

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