



**RESEARCH  
PROGRAM ON**  
Grain Legumes and  
Dryland Cereals

## Focus traits for improvement of GLDC crops through FP4 and FP5 interventions

Crop	Traits for all target regions	Traits specific to target regions
Chickpea	Drought and heat tolerance*, pod borer resistance; high protein, Fe and Zn content	<i>Ascochyta</i> blight resistance (ESA, CWANA), dry root rot resistance (SA), herbicide tolerance* (SA)
Cowpea	Drought tolerance*, aphid and Rhizoctonia resistance	Striga* (WCA); Alectra resistance (ESA)
Groundnut	Drought tolerance*, stem rot resistance, high oil content*, high Fe and Zn content, aflatoxin resistance	Resistance to rosette (WCA, ESA), Early leaf spot (ELS) resistance, fresh seed dormancy (SA)
Lentil	Drought and heat tolerance*; high protein, Fe and Zn content; earliness	Resistance to <i>Ascochyta</i> blight, rust and root diseases, water logging tolerance (Sub-Saharan Africa). Resistance to <i>Stemphylium</i> blight, rust and root diseases, herbicide tolerance, high biomass (South Asia)
Pigeonpea	Resistance to fusarium wilt, sterility mosaic disease and pod borer; high protein, Fe and Zn content	Resistance to sterility mosaic disease and pod fly (SA); resistance to <i>Cercospora</i> and pod sucking bug (ESA)
Soybean	Drought tolerance/escape; shattering, lodging, rust resistance	Seed size, Frogeye resistance, Biological Nitrogen Fixation, day length insensitive (SA and WA)
Finger millet	Drought tolerance, blast resistance; high Fe, Zn and Ca content	Resistance to Striga and downy mildew (ESA)
Pearl millet	Drought tolerance*, downy mildew resistance, high nutritional quality (Fe, Zn), low flour rancidity	Blast resistance (SA), Striga resistance* (WCA and ESA)
Sorghum	Drought tolerance*, nutritional quality (Fe, Zn), fodder digestibility	Striga resistance* (WCA and ESA)
Color codes for the traits: Abiotic stress, biotic stress, grain nutrition value and consumer preferred for market pull. * 'no-regret' traits		