

## **NILs in the genetic background of IR 64 and Sahel108 having introgressed the actpk1 gene that increases ammonia uptake.**

**Project Title:** P1678 - JIRCAS contribution to flagship project 5

**Description of the innovation:** NILs in the genetic background of IR 64 and Sahel108 having introgressed the actpk1 gene that increases ammonia uptake were evaluated under irrigated conditions. Grain yield increased by 11 to 17% in Sahel108-NILs.

**New Innovation:** Yes

**Stage of innovation:** Stage 1: discovery/proof of concept (PC - end of research phase)

**Innovation type:** Genetic (varieties and breeds)

**Geographic Scope:** Global

**Number of individual improved lines/varieties:** 1

**Description of Stage reached:** NILs in the genetic background of IR 64 and Sahel108 having introgressed the actpk1 gene that increases ammonia uptake were evaluated under irrigated conditions. Grain yield increased by 11 to 17% in Sahel108-NILs.

**Name of lead organization/entity to take innovation to this stage:** JIRCAS - Japan International Research Center for Agricultural Sciences

**Names of top five contributing organizations/entities to this stage:** <Not Defined>

**Milestones:**

- 60% of targeted traits/donors/QTLs/genes identification achieved, 100% of the new diversity analysis accessions sequenced

**Sub-IDs:**

- 11 - Adoption of CGIAR materials with enhanced genetic gains
- 12 - Increased conservation and use of genetic resources

**Contributing Centers/PPA partners:**

- JIRCAS - Japan International Research Center for Agricultural Sciences

**Evidence link:**

**Deliverables associated:** <Not Defined>

**Contributing CRPs/Platforms:**

- Rice - Rice