Abstract Template

Title: Identification of new varieties tolerant rice of submergence partial and complete through phenotypic and physiology screening in Benin

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I. Abstract Body (up to 250 words)

The goal of this study was evaluated the response of irrigated and lowland rice varieties to the complete and partial submergence using agro-morphological and physiological traits. Agro-morphological and physiological parameters such as plant height, number of tillers, chlorophyll a and b, the distance of internodes and the number of internodes were measured respectively at 13 days and 45 days. After harvest, some traits such as length, width and thickness of grains, panicle length, number of primary and secondary Branches, the average number of empty grains and full grains per panicle and 1000-grain weight were recorded.Very highly significant ($P \leq 0.0001$) differences were identified between agro morphological and physiological parameters according to the type of submergence. Five rice varieties have been tolerant of submergence stress in Benin. These rice varieties will be used for genetic improvement of rice varietie local which is sensitive to submergence stress.

II. Image:



III. Reference:

1 Balasubramanian V., Sié M., Hijmans R.J.et Otsuka K,.2007. Increasing rice production in Sub-Saharan Africa:challenges and opportunities. Adv. Agron. 55-133.

2 Ismail A. M. et Mackill D.J, 2013.Response to Flooding:Submergence Tolerance in Rice. In M. Jackson, B. Ford-Lloyd and M. Parry (Eds). Plant Genetic Resources and Climate Change. 251-269.

3 Futakuchi, K., Jones, M.P. and Ishii, R. (2001) Physiological and Morphological Mechanisms of Submergence Resistance in African Rice (Oryza glaberrima Steud.). Japanese Society for Tropical Agriculture, 8-14.

IV. Biography:

OTEYAMI Alaye H. Magloire Firmin, Agricultural Engineer, MSc in Genetics and Plant Breeding, PhD Student in Improvement at the University of Abomey-Calavi in Benin. He is the Manager of the VartLaB-Benin start-up, a leading service organization dedicated to developing new varieties for climate change adaptation and food security. He has published three articles in reputable journals and journals and was a member of the Scientific Papers Review Committee. (Up to 100 words)

V. Presenting author details



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