

## [P4] Crop Genetics and Physiology

Thu. Sep 9, 2021 12:15 PM - 2:00 PM Room 4 (Poster) (Crop Genetics and Physiology)

12:15 PM - 1:00 PM

### [P4-01] Genetic Variation of Rice Germplasm Including *Oryza sativa* and *O. glaberrima* in Guinea

<sup>○</sup>Yoshimichi Fukuta<sup>1</sup>, Seiji Ynagaihara<sup>2</sup>, Nhai Nguyen<sup>3</sup>, Oanh Nguyen<sup>3</sup>, Narry Mamadou<sup>4</sup>, Diawara Souleymane<sup>4</sup>, Bah Oumar<sup>4</sup> (1.TARF, Japan International Research Center for Agricultural Sciences, Japan, 2.GRPH, Japan International Research Center for Agricultural Sciences, Japan, 3.AGI, Vietnam, 4.IRAG, Guinea)

Genetic variations of rice including *Oryza sativa* and *O. glaberrima* in Guinea were clarified based on the polymorphism data of SSR markers and heading date.

Cluster analyses were performed with the basis of the polymorphism data of 12 SSR markers, and accessions were classified into three cluster groups; Ia, Ib and II. *O. glaberrima* were mainly classified into cluster Ia, and *O. sativa* were clusters Ib and II. *japonica* Group cultivar, Nipponbare, and *indica* Group cultivar, Kasalath, were categorized into clusters Ib and II, respectively. The days to heading of *O. sativa* were later than *O. glaberrima*. The days to heading in the accessions of cluster II were the latest among three groups.

These results indicated that *O. sativa* and *O. glaberrima* were cultivated widely, and *O. glaberrima* was still conserved in Guinea. The genetic variation of days to heading in *indica* Group accessions was wider than those of *japonica* Group, and the accessions in the late heading type in *japonica* Group were limited. These of *O. glaberrima* also showed similar variation, but they included more late heading accessions in compared with these of *japonica* Group. The accessions of *O. sativa* were mainly classified into cluster groups Ib and II, and these of *O. glaberrima* were into cluster group Ia. The genetic variations of *O. glaberrima* was limited in compare with those of *O. sativa*, might be corresponded with the results of variation in heading date.