FNCA MB Workshop Question & Answer Sheet

Reporter	Question / Comment	Answer / Response
Bangladesh	Dr. A.N.K. Mamun, I just would like to clarify if	Its land race grain is also black even after
(Dr. Mamun)	the black rice that you collected recently is a	cooking.
	pigmented rice. I presume that it is an upland	
	traditional variety or landrace which is an	
	important germplasm material. I am	
	wondering if the black color appears only on	
	the rice hull, but the grains are like your other	
	accessions or the grains remain black even	
	after cooking. (Mr. Aurigue, Philippine)	
China	1) I have a rice mutant line that I showed in	1) Dear Dr. Hase, it will be an honor to work on
(Prof. Shu)	my presentation, but because I have only one	your gene via genomic editing to reconstitute the
	allele, I am thinking of performing genome	mutant phenotype you observed. Please just let
	editing to prove the responsible gene. Is it	me know the gene, the mutation and the
	possible to work together on this gene? I just	phenotype.
	want to check if another allele shows a similar	Thank you very much, Prof. Shu. It is very good
	withering phenotype. Thank you very much	of you to say so. I will write to you after making
	for your consideration. (Dr. Hase, Japan)	sure the segregation ratio after backcrossing to
	2) Thank you very much for sharing with us	the wild type. (Dr. Hase, Japan)
	your recent publication, Prof. Shu! Your report	2) Dear Mr. Aurigue, the hybrid is a cross between
	is very interesting, but I did not understand	Jiang 79S (japonica, an early flowering mutant)
	what you said about the hybrid rice,	and DR610 (indica, a doubled haploid line).
	especially the japonica/indica hybrids. Does	
	any of the parent of the hybrid, whether	
	japonica or indica, a product of mutation	
	breeding or possesses a mutated trait? (Mr.	
	Aurigue, Philippine)	
Indonesia	I am wondering if you obtain other seed colors	Yes Mr. Fernando, we have brown soybeans
(Dr. Puspitasari)	(brown or red) of soybeans aside from black	mutant from gamma irradiation of the
	and white. Do the farmers or consumers like	yellow/white one.
	black soybeans? I hope that seed quality	Black soybeans are needed mostly as raw
	could also be evaluated to determine the	material of soysauce in Indonesia. We use the
	value of mutant soybean varieties in tempe-	yellow one for tempe nowadays, but originally
	making, especially for the black mutant which	tempe was made from black soybeans.
	is expected to have better nutritional value.	Thank you for your interest.
	Thank you, Dr. Winda! (Mr. Aurigue,	
	Philippine)	

Japan	I appreciate your report, Dr. Hase! You	Thank you very much for your comment, Mr.
(Dr. Hase)	spoke very clearly, and your discussion was	Fernando. I do not know how it goes, but I am
	easy to understand. It also shows the	very interested in the hyper-salt-tolerant mutant
	importance of collaboration with other	derived from the salt tolerant variety
	member states. We look forward to the	BRRIdhan47. I am glad if there is something we
	determination of the mechanism for salt	can work together in future.
	tolerance in mutant rice varieties if not due to	
	a novel gene. (Mr. Aurigue, Philippine)	
Korea	Thank you very much, Prof. Si-Yong Kang for	To Dear Mr. Aurigue. Thank you very much for
(Prof. Kang)	sharing with us your two publications and	your interest and response to my presentation
	comparison of the effects of proton beam and	and hop research.
	gamma rays! Your new research on mutation	
	breeding of hops is very interesting! (Mr.	
	Aurigue, Philippine)	
Malaysia	Your report is so inspiring and gives us hope	Dear Mr Aurigue, thank you very much for your
(Dr. Hussein)	that we could succeed too. Thank you very	compliment and kind words. Clearly, the
	much and congratulations, my Friend Sobri!	Philippine team did a very good job as well in
	(Mr. Aurigue, Philippine)	mutation breeding research. Congratulations to
		you too. Thank you to all FNCA members and
		Cabinet Office of Japan for making this FNCA
		project a fruitful one. It is my pleasure to be part
		of this excellent FNCA team.
Mongolia	The changes in seed color and spike type	
(Dr. Noov)	observed at M ₂ would be most interesting to	
	observe in barley. I wish you great success,	
	Dr. Noov, in developing a variety with new	
	seed color or better nutritional value. (Mr.	
	Aurigue, Philippine)	
The Philippines		
(Mr. Cabusora)		
Thailand	We really hope that you will discover a new	We are now trying to prove that the mutant lines
(Mr. Noenplab)	gene for submergence tolerance if it is not	for submergence tolerance carry the Sub1 allele
()	Sub1 gene. We wish you all the best! (Mr.	by comparing the gene sequence to non-mutant
	Aurigue, Philippine)	varieties carrying the Sub1 allele. At the same
	, , , , , , , , , , , , , , , , , , ,	time, we will look for QTLs involving
		submergence tolerance traits by QTL analysis of
	L	Table 19 to to to to take by Q 12 analysis of

		F2:3 populations from crosses between tolerant
		mutant lines and non-mutant susceptible
		genotypes. We hope to discover new QTLs for
		submergence tolerance in the mutant lines.
Vietnam	Instead of albino (white) variation in peanut, I	Dear Mr. Aurigue, many thanks for your comment.
(Dr. Le)	believe that the observed chlorophyll	I also agree with the assessment that some are
	mutation was xantha (yellow) variation. It	xantha, we will continue to evaluate the
	would be interesting to note the chlorophyll	heritability of this trait in the next generation.
	mutations in the succeeding generations. I	Regarding the red seed trait, which is a valuable
	hope that you will also monitor the red seed	trait related to seed quality, we will continue to
	coat color mutant, which might indicate higher	screen these lines along with the yield trait. We
	anthocyanin level or enhanced nutritional	are hoping to be able to submit some new
	value, as well as the mutant lines with more	prospect lines for testing in 2022. Once again
	seeds or larger pods that may contribute to	thank you and best wishes to you and the FNCA
	yield increase. Thank you very much, Dr. Le	members.
	Duc Thao! (Mr. Aurigue, Philippine)	