

Monika S, Vanniarajan C, Vetriventhan M, Sakthivel K, Ramesh T, Meena S. Unveiling the efficiency and effectiveness of two distinct mutagens in early mutant generations of sodic tolerant finger millet [*Eleusine coracana* (L.) Gaertn] genotype. Plant Science Today. <https://doi.org/10.14719/pst.6380>

Supplementary table

Supplementary Table 1. Biological damages caused by the physical and chemical mutagens on TRY 1 finger millet

Treatments	Germination %			Shoot length			Root length			Survival %			Seedling height @30 DAS			Plant height @maturity			Pollen fertility			Spikelet fertility		
	TM	% Con	% Red	Mean	%over control	% reduction	Mean	%over control	% reduction	TM	% Con	% Red	Mean	%over control	% reduction	Mean	%over control	% reduction	TM	% Con	% Red	TM	% Con	% Red
Gamma rays (Gy)																								
Control	80.98	100.00	0.00	8.10	100	0.00	6.02	100	0.000	77.96	100.00	0.00	34.62	100	0.00	78.54	100	0.00	80.90	100.00	0.00	73.90	100	0.00
100	66.42	82.03	17.97	7.60	93.3	6.67	5.20	86.38	13.62	65.61	83.54	16.46	29.12	84.12	15.88	67.85	86.39	13.61	70.85	87.58	12.42	69.08	93.48	6.52
200	57.21	70.65	29.35	6.80	84.0	16.05	4.50	74.75	25.25	56.01	71.85	28.15	27.28	78.79	21.21	61.98	78.92	21.08	63.33	78.28	21.72	62.38	84.40	15.60
300	47.68	58.88	41.12	5.30	65.4	34.57	3.12	51.83	48.17	39.62	50.82	49.18	23.55	68.02	31.98	56.31	71.70	28.30	57.98	71.67	28.33	56.93	77.04	22.96
400	39.23	48.45	51.55	4.10	51.0	49.01	2.51	41.69	58.31	33.99	43.60	56.40	19.56	56.45	43.55	50.23	63.95	36.05	50.69	62.66	37.34	49.15	66.50	33.50
500	21.42	26.45	73.55	3.50	43.2	56.79	2.01	33.39	66.61	18.88	24.22	75.78	17.89	51.68	48.33	42.02	53.50	46.50	39.35	48.64	51.36	40.58	54.91	45.09
EMS (mM)																								
Control	75.80	100.00	0.00	7.90	100	0.00	6.58	100	0.00	70.40	100.00	0.00	36.58	100	0.00	81.20	100	0.00	82.29	100.00	0.00	76.20	100.00	0.00
10	53.10	70.07	29.93	6.80	86.1	13.92	5.32	80.85	19.15	52.13	74.04	25.96	24.09	82.59	17.41	70.21	86.47	13.53	66.29	80.57	19.43	65.81	86.37	13.63
20	34.40	45.44	54.56	5.10	64.6	35.44	4.53	68.85	31.16	33.37	47.39	52.61	22.00	75.59	24.41	60.21	74.15	25.85	55.90	67.93	32.07	55.71	73.11	26.89
30	33.70	40.43	59.57	4.00	50.6	49.37	3.25	49.39	50.61	31.67	44.98	55.02	18.67	58.28	41.72	56.30	69.33	30.67	50.03	60.79	39.21	49.65	65.16	34.89
40	30.70	26.60	64.96	3.90	49.4	50.66	2.41	36.63	63.38	26.46	37.58	62.42	16.54	53.47	46.53	51.86	63.87	36.13	44.93	54.59	45.41	44.03	57.78	42.22
50	14.20	18.70	81.30	2.80	35.4	64.56	1.90	21.16	78.84	12.93	18.37	81.63	14.78	48.00	51.99	45.30	55.79	44.21	39.93	48.43	51.47	39.35	51.64	48.36

TM- Transformed mean; Percentage values converted using arcsine transformation; % Con- percent over control; %Red- percent reduction over control

Supplementary Table 2. Frequency of chlorophyll mutants in M₂ generation of different mutagens

Treatment	Total chlorophyll mutants	Number of chlorophyll mutants							Relative percentage of chlorophyll mutants						
		<i>Albino</i>	<i>Xantha</i>	<i>Viridis</i>	<i>Chlorina</i>	<i>Striata</i>	<i>Xantha viridis</i>	<i>Albo maculata</i>	<i>A</i>	<i>X</i>	<i>V</i>	<i>C</i>	<i>S</i>	<i>XV</i>	<i>AM</i>
Gamma ray (Gy)															
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250	14	3	2	2	2	2	1	2	0.728	0.485	0.485	0.485	0.485	0.243	0.485
350	13	2	2	1	2	1	3	2	0.432	0.432	0.216	0.432	0.216	0.648	0.432
450	23	3	3	0	6	6	2	3	0.602	0.602	0.000	1.205	1.205	0.402	0.602
EMS (mM)															
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	11	1	2	1	3	2	1	1	0.231	0.463	0.231	0.694	0.463	0.231	0.231
15	14	1	3	1	5	2	1	1	0.220	0.659	0.220	1.099	0.440	0.220	0.220
20	13	1	3	0	4	2	3	0	0.239	0.716	0.000	0.955	0.477	0.000	0.000