



## Population structure and association studies for reproductive stage salinity tolerance in rice (*Oryza sativa* L.)

Warraich AS<sup>1,2</sup>, Krishnamurthy SL<sup>1\*</sup>, Sooch BS<sup>2</sup>, Lokeshkumar BM<sup>1</sup>, Vinaykumar NM<sup>3</sup>, Dushyanthkumar BM<sup>4</sup>, Rai V<sup>5</sup>, Singh NK<sup>5</sup> & Sharma PC<sup>1\*</sup>

<sup>1</sup>Indian Council of Agriculture Research- Central Soil Salinity Research Institute, Karnal-132 001, Haryana, India

<sup>2</sup>Department of Biotechnology, Faculty of Life Science, Punjabi University, Patiala-147 001, Punjab, India

<sup>3</sup>Department of Biotechnology, Kuvempu University, Shankaraghatta, Shimvaogga-577 451, Karnataka, India

<sup>4</sup>Department of Genetics and Plant Breeding, University of Agricultural and Horticultural Science, Shimvaogga-577 204, Karnataka, India

<sup>5</sup>ICAR-National Institute for Plant Biotechnology, New Delhi-110 012, India

### Supplementary Data

Supplementary Table 1 — List of 180 rice accessions and their parentage

No.	Genotype	Parentage
G1	RP 5900-28-11-5-3-2-2	Pusa 615-140-10-1/Basmati370//IRRI 128/Wagwag
G2	RP 5900-89-5-3-2-1-1	Pusa 615-140-10-1/Basmati370//IRRI 128/Wagwag
G3	N 22	A selection from Rajbhog
G4	Nagabatta	Landrace
G5	RP 5900-16-8-4-2-1	Pusa 615-140-10-1/Basmati370//IRRI 128/Wagwag
G6	Nirgulebatta	Landrace
G7	MOTI	CR-151-79 / CR-1014
G8	RP Bio 5477-NH 686	Mutant of Nagina 22
G9	CSR 38	Pusa 33/CSR13//CSR12
G10	IR 29	IR833-6-2-1-1/IR1561-149-1//IR1737
G11	CSR 58	CSR27/CSR11
G12	MAUB-2014-2	Type 3/Basmati 370
G13	IR 86359-302-1-1-2-2-B	NERICA 2/POKKALI
G14	Mullubatta	Landrace
G15	Mukkunna	Landrace
G16	Pusa 1485-06-8-10-5-15-11	Pusa 1301/Pusa Basmati 6
G17	CSR 16	CSR 1 Mutant
G18	CSR IR 34	IR 29/Pokkali
G19	IR 64	GP 15/TN 1
G20	MAUB 13	NA
G21	UPR 3805-12-2-7	UPR 3722/Pusa Basmati 1
G22	BC 20	NA
G23	HAZARIDHAN	IR-42/IR-5853-118-5
G24	IR 72	TN1/CH242
G25	BULK 19	CSR27/CSR23
G26	Sugandi	Landrace
G27	CSR 44	KDML 105 / IR 4630-22-2-5-1-3//IR 20925- 33-3-1-28
G28	MAUB-2014-1	Type 3/HBC-19 (Taroari Basmati)
G29	CSR 15	Sipi 661044/Sipi651020
G30	IR 55179-3B-11-3	IR4630-22-2-5-1-3/Nona Bokra
G31	PUSA 1509	Pusa 1301 / Pusa Basmati 1121
G32	CSR 55	CSR23/CSR27
G33	CSR 3	Local selection from Sunderban area
G34	MI 48	Pelita//H4//H501
G35	BULK-22	
G36	NDRK 11-5	BWO 267-3
G37	Misebatta	Landrace
G38	NP-973-3	PRN 55/PRN-46

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<i>Cont.</i>		
No.	Genotype	Parentage
G39	Kempukaaru	Landrace
G40	CSR 27	NONA BOKRA/IR5657-33-2
G41	CSR 45	IR2070-245-3-15-6/IR944-102-2-3-2
G42	CSR 56	CSR 21/CSR 10
G43	FL 478	IR29/Pokkali
G44	WAYRAREM	Upland adapted variety of Indonesia
G45	R 86359-302-1-1-2-2-B	NERICA 2/POKKALI
G46	CSR 29	IR14632-22-3/IR19799-17-3-1-1
G47	JAYA	T(N)1 / T-141
G48	CSR 47	Jaya / CSR 13
G49	CSR 50	O perrenis/ CSR21
G50	CSR 59	CSR27/CSR11
G51	Aalur sanna	Landrace
G52	CSR 43	KDML 105 / IR 4630-22-2-5-1-3//IR 20925- 33-3-1-28
G53	CSR 52 L	CSR23/CSR27
G54	CSR 92063	IR64//IR4630-22-2-5-1-3/IR9764-45-2-2
G55	PUSA 1592	Pusa Suganth 5/Pusa 1460//Pusa Sugandh 2
G56	Agami-MI	Traditional japonica rice cultivar of egypt
G57	CSR 34	Mahsuri//IR11418-19-2-3
G58	CSR 39	IR10206-29-2-1/IR29337-36-3
G59	NDR 6158	PB-1/Kasturi/Taravari Basmati
G60	PR123	PR 116//PR 108/IRRI 76//PR 106-P2
G61	SRJ 70-3-2	Vasumati/Taroari Basmati
G62	CSR 37	CSR11/Bas. 370
G63	CSR 49	IR5711-3B-7-B-9-1-8/NDRK 5032
G64	PS-5	Pusa 3A / Haryana Basmati
G65	Trichy	Landrace
G66	CSR 22	IR64//IR4630-22-2-5-1-3/IR9764 45 2 2
G67	CSR 33	IR64//IR4630-22-2-5-1-3/IR9764-45-2-2
G68	CSR 52 E	CSR23/CSR27
G69	CSR 57	CSR21/CSR10
G70	CSR-RIL-01-IR-165	NA
G71	IR 84649-320-21-1-B	IR05F102/IR 66946-3R-178-1-1
G72	CSR 14	Milyang 23/Milyang 30
G73	CSR 31	Somaclonal variant of Pokkali
G74	IR 87938-1-2-2-1-3-B	IR 4630-22-2-5-1-3/IR05N204
G75	IR 84649-305-6-1-B	IR05F102/IR 66946-3R-178-1-1
G76	CSR 10	M-40-431-24-114 x JAYA
G77	CSR 11	M40-431-24-114/Bas.370
G78	NDR 359	BG-90-2-4/08677
G79	CSR 23	IR64//IR4630-22-2-5-1-3/IR9764 45 2 2
G80	CSR 48	Jaya / CSR 23
G81	CSR 51	CSR23/CSR27
G82	PAU 201	NA
G83	PR 121	PR 116//PR 108/IRRI 76//PR 106- P2
G84	CSR-RIL-06-178	NA
G85	SRJ 129-2-2	IR 75483385-2-2/PB-1//P 2511
G86	IR 87938-1-1-3-2-1-B	IR 4630-22-2-5-1-3/IR05N204
G87	CR 3699-16-4	Pusa Sugandh 2/Basmati 386
G88	Holesaale chipiga	Landrace
G89	HRK 126	Namsagni19/IR4215-301-2-2-6 IR-5953-162-1-3
G90	IR 87937-6-1-3-2-2-B	IR 4630-22-2-5-1-3/IR05N173
G91	CSR 25	IR17494-32-3-1-1-3/IR4432 52 6 4
G92	CSR 26	NONA BOKRA/IR5657-33-2
G93	IR 84645-305-6-1-1-1	CHERIVIRUPPU/IR05F101
G94	IR 87938-1-1-3-1-2-B	IR 4630-22-2-5-1-3/IR05N204
G95	PUSA 44	IARI-5901-2 / IR-8
G96	NP-973-8	NP-36/Taraori Basmati

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No.	Genotype	Parentage
G97	Aadribatta	Landrace
G98	CSR 20	CSR 5/Palaman 579
G99	CSR 32	KDM105/IR4630-22-2-5-1-3//IR20925-33-3-1-1-28
G100	CSR 42	IR37255-21-3-3-2/TCCP266-2-49-2B-3
G101	APO	UPLRI 5/IR12979-24-1
G102	CSR 19	CSR 1/Bas. 370
G103	UPR 3889-7-1-1	Pusa Basmati 1/ IR 36
G104	AMALMANA	Pankaj/ SR 26B
G105	CSR 24	IR58/CHETTIVIRUPPU
G106	CSR 54	CSR10/CSR27
G107	PUSA 1121	Pus 614-1-2 x Pusa 614-2-4-3
G108	CSR 18	RPA 5829/CSR 5
G109	CSR 36	CSR13/Panvel 2//IR36
G110	PUSA 1460	Pusa Basmati 1/IRBB55//Pusa Basmati 1
G111	CSR 5	TKM 6/IR8
G112	KMR-1-41	Mutant of Bas-370
G113	SRJ 76-1-1	HKR 02-486/Saanwal Basmati
G114	BC-14	NA
G115	CSR 8	CSR 1 Mutant
G116	PB-1	Pusa-150 x Karnal Local
G117	CSR 13	CSR 1/Bas.370//CSR 5
G118	IR 87952-1-1-1-2-3-B	IR 4630-22-2-5-1-3/IR 72046-B-R-8-3-1-3
G119	BC-11	NA
G120	PR 122	PR 108/IRRI-76//PR 106-P1
G121	kanadathumba	Landrace
G122	SARJOO 52	TNI/Kashi
G123	Kichadi saayi	Landrace
G124	CSR 12	CSR 1/Bas.370//CSR
G125	CSR 21	IR5657-33-2/IR4630-22-2-5-1-3
G126	NDRK 11-14	CSR(s)-2-1-7/N.Usar 3//N.Usar 3
G127	IR 85212-21-2-1-1	CHERIVIRUPPU/IR05F101//IR05F102/IR 66946-3R-178-1-1
G128	NDRK 11-2	Selection from traditional landrace Gujarat-70
G129	CSR 28	IR42/IR4630-22-2-5-1-3
G130	CSR 35	CSR18/Panvel 2
G131	CSR 40	TCCP6533-8-4-2-AC204-2//IR10206-29-2-1
G132	PUSA 1401	Pusa Basmati 1 / Pusa 1121-92-8-2-7-1
G133	CSR 9	CSR 1/Bas. 370//CSR 5
G134	Rathna chudi	Landrace
G135	PB-3	Bas 386/IET 17948//Bas 386
G136	Aaravattelu	Landrace
G137	CSR 41	IR9884-54-3-1E-P1/ Kuantik Putih
G138	CSR 53	CSR23/CSR27
G139	IR 87880-B-SDO1-2-3-B	BR 40/IR 73571-3B-14-1
G140	Kempudoddi	Landrace
G141	Jeerige samba	Landrace
G142	Rp Bio 4918-24K	Swarna/O. nivara ILs
G143	Siggi kaima	Landrace
G144	CSR 30	BR4-10/Basmati 386
G145	Bangarugandu	Landrace
G146	RP Bio 5478-185M	Madhukar/Swarna
G147	SAMBA MAHSURI	GEB-24 / T(N)1 // Mahsuri
G148	Siddisanna	Landrace
G149	CSR 1	Local selection from Sunderban area
G150	CST 7-1	Damodar (CSR1) / IR-24
G151	Kempudodda gidda	Landrace
G152	CSR 2	Local selection from Sunderban area
G153	Bagyajyothi	Landrace
G154	Balaji	Landrace

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<i>Cont.</i>		
No.	Genotype	Parentage
G155	Pokalli	Landrace
G156	Raychur sanna	Landrace
G157	CARI Dhan 4	Somaclonal variant of Pokkali
G158	Bilijaddu	Landrace
G159	Baratharatnachudi	Landrace
G160	Kalanamak NRCPB	Landrace
G161	Kalanamak DRR	Landrace
G162	Kaagisaale	Landrace
G163	Aanekombinabatta	Landrace
G164	Gourisanna	Landrace
G165	Nona Bokra	Landrace
G166	Maranellu	Landrace
G167	Puttabatta	Landrace
G168	Karijaddu	Landrace
G169	Buddabatta	Landrace
G170	Kiruvaani	Landrace
G171	Yelatakkigidda	Landrace
G172	Gajagunda	Landrace
G173	Ipputtu	Landrace
G174	Nettibatta	Landrace
G175	Beema saale	Landrace
G176	Rajabog	Landrace
G177	Karimunduga	Landrace
G178	Padma rekha	Landrace
G179	Bangarusanna	Landrace
G180	Kempu jaddu	Landrace

Supplementary Table 2 — List of markers, alleles discovered during genotyping and their respective positions on chromosome. The genotypes were scored on the basis of polymorphism detected; +, - represents 5<sup>th</sup> and 6<sup>th</sup> level of scoring

Sr. No.	Markers	Alleles	Chromosome No.	Position (mb)
1	SKC	A	1	1.25
2	G11A	G/A	1	9.30
3	AP3206	A/G	1	11.20
4	RM3412	C/G/T/A	1	11.58
5	RM10748	G/A/C	1	11.77
6	RM493	A/G/C/T	1	12.28
7	RM10793	A/C/T/G	1	12.57
8	RM10825	G/C/A	1	13.32
9	RM10829	G/A	1	13.34
10	RM10843	C/G/A	1	13.79
11	RM10852	G/A	1	13.98
12	OsCML11	A/C/G/T	1	19.40
13	OsCAX	G/C/T/A/+	2	2.30
14	OsCAX	G/A/C/T/+/-	2	2.30
15	OsRacB	G/C/A/T/+	2	3.81
16	RM3732	G/A	2	4.41
17	RM423	G/A	2	4.52
18	RM174	G/A	2	7.01
19	RM145	G/C/A	2	7.71
20	OsGMST1	C/A/G/T	2	10.92
21	RM341	A/T/G/C/+	2	20.71
22	RM262	A/G/C	2	20.79
23	RM475	C/G/A/T	2	22.06
24	RM240	A/C/G	2	31.50

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Sr. No.	Markers	Alleles	Chromosome No.	Position (mb)
25	RM213	G/A/C/T	2	34.65
26	OsPEX11M1	G/A	3	1.19
27	RM1022	G/A/C/T	3	7.23
28	RM6283	A/G	3	16.97
29	RM6832	G/A/C	3	22.40
30	RM5626	C/A/G/T	3	24.86
31	RM504	G/A/C	3	28.13
32	RM186	G/A/C	3	28.81
33	RM422	G/+/T/A/C	3	33.71
34	RM7389	A/C/G/T	3	36.16
35	RM551	T/C+/G/A/-	4	0.18
36	RM518	C/A/G/T/+	4	2.03
37	RM261	G/C/A/T	4	6.57
38	RM5687	T/G/A/C/+/-	4	15.74
39	RM273	G/A	4	22.44
40	RM241	G/C/A+/T/-	4	26.86
41	RM5473	+/T/C/G/A	4	31.49
42	RM348	G/A/C	4	32.65
43	RM3310	C/G/T/A	4	34.55
44	RM507	G	5	0.10
45	RM6320	G/C/A/T/+	5	0.47
46	RM413	T/G/C/A/+/-	5	2.21
47	RM405	G/A	5	3.07
48	RM289	T+/A/C/-/G	5	7.81
49	RM421	G/A/C	5	23.98
50	RM480	C+/G/A/T/-	5	27.31
51	RM276	T/A/C/G/-/+	6	6.23
52	RM20224	G/C/T/A	6	20.98
53	RM3827	C/T+/G/-/A	6	22.30
54	RM5371	C/G/A	6	25.83
55	RM528	C/G/T/A/+	6	26.55
56	RM340	C+/G/A/T	6	28.60
57	OsCPK17	C/A/G	7	3.18
58	RM214	G/A/T/C	7	12.78
59	RM445	G/A/C	7	17.46
60	RM432	A/G/C/T/+	7	18.96
61	RM11	G/A/C/T	7	19.26
62	ATSL_15	G/A	7	20.88
63	RM478	C/A/G/T	7	25.95
64	RM134	A/G	7	26.64
65	RM248	A/G/C/T	7	29.34
66	RM3572	C/G/A/T	8	3.93
67	RM3395	C/G/T/A/+	8	10.29
68	RM404	G/C/T/A/+	8	15.44
69	RM223	G/C/T/A/+	8	20.65
70	RM80	G/C/A/T	8	24.48
71	RM281	A/G/C	8	27.90
72	OsZIP71	G/C/A	9	7.87
73	RM296	C/G/A	9	9.29
74	RM434	C/G/A/T/+	9	15.66
75	RM7175	C/G/T/A/+	9	16.87
76	RM257	T/C/A+/G/-	9	17.72
77	RM278	G/A/C/T	9	17.96
78	RM288	A	9	18.56
79	RM201	G/A/T/C	9	20.17
80	RM215	G/A/C/T	9	21.19
81	OsCML8	G/A/C/T	10	11.20
82	RM271	G/C/A/T	10	15.28

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Sr. No.	Markers	Alleles	Chromosome No.	Position (mb)
83	RM258	G/A/C/T	10	18.01
84	RM3773	C/G/A/T	10	19.90
85	RM484	A	10	21.07
86	RM590	G/C/A/T	10	23.04
87	RM286	C/G/A	11	0.38
88	RM332	G/A/C	11	2.84
89	OsNac5	T/G/C/A	11	4.12
90	RM552	C/A/G/T	11	4.84
91	RM27933	G/A/C	12	10.43
92	RM1337	A/C/G/T/+	12	11.93
93	RM1261	C/G/T+/A/-	12	17.53
94	RM17	C/T/A/G	12	22.53