Supplementary Figures and Tables

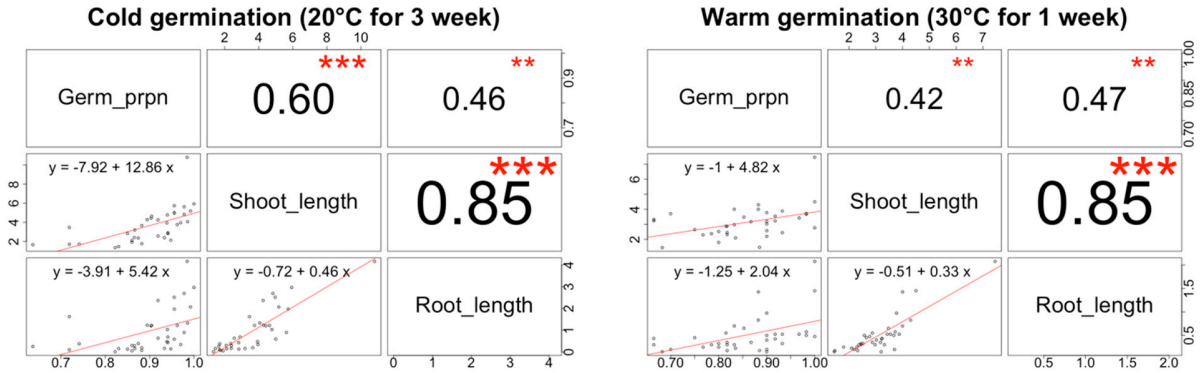

Figure S1. Correlations between germination proportion, shoot length and root length for 36 rice (*Oryza sativa*) cultivars tested with cold germination (20°C for 3 weeks) and warm germination (30°C for 1 week). Asterisks indicate significant correlation at ** $p < 0.01$, *** $p < 0.001$.

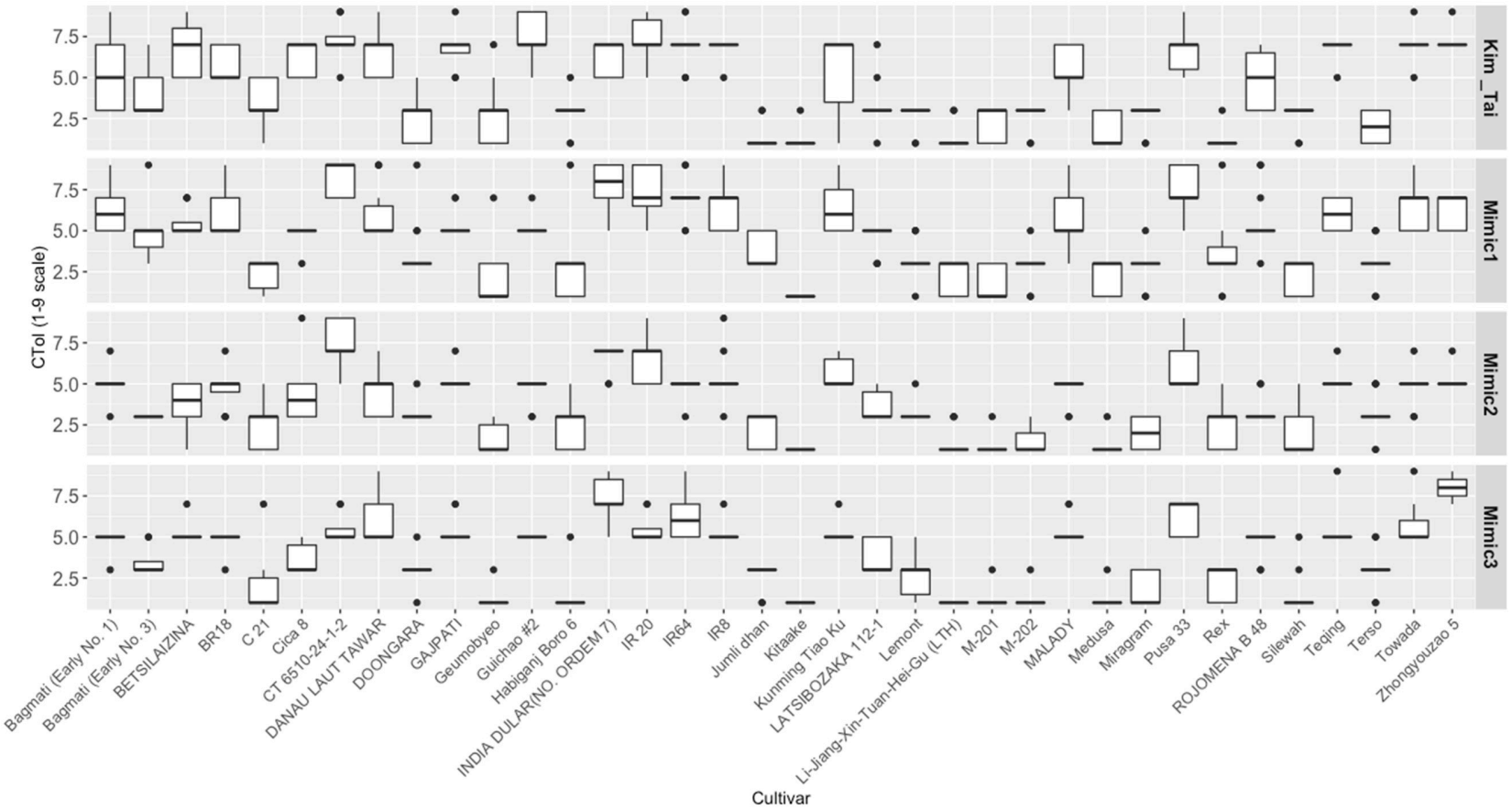

Figure S2. Boxplots of seedling stage cold tolerance (CTol[a]) scores for 36 rice (*Oryza sativa*) cultivars evaluated via four different seedling-stage low temperature treatment protocols. [a]CTol score; 1=seedlings dark green, 3=seedlings light green, 5=seedlings yellow, 7=seedlings brown, 9=seedlings dead.

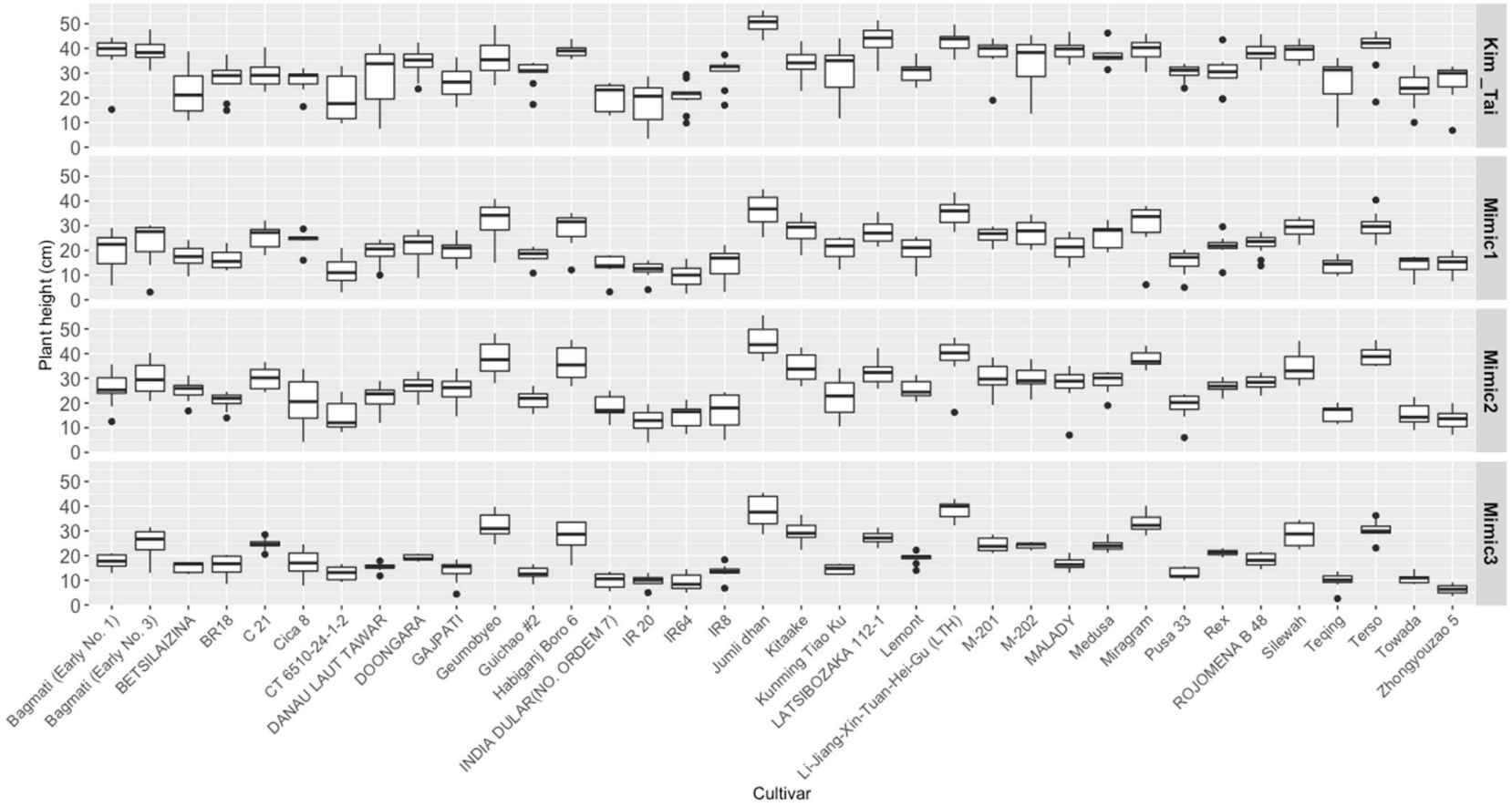

Figure S3. Boxplots of plant height (cm) for 36 rice (*Oryza sativa*) cultivars evaluated via four different seedling-stage low temperature treatment protocols.

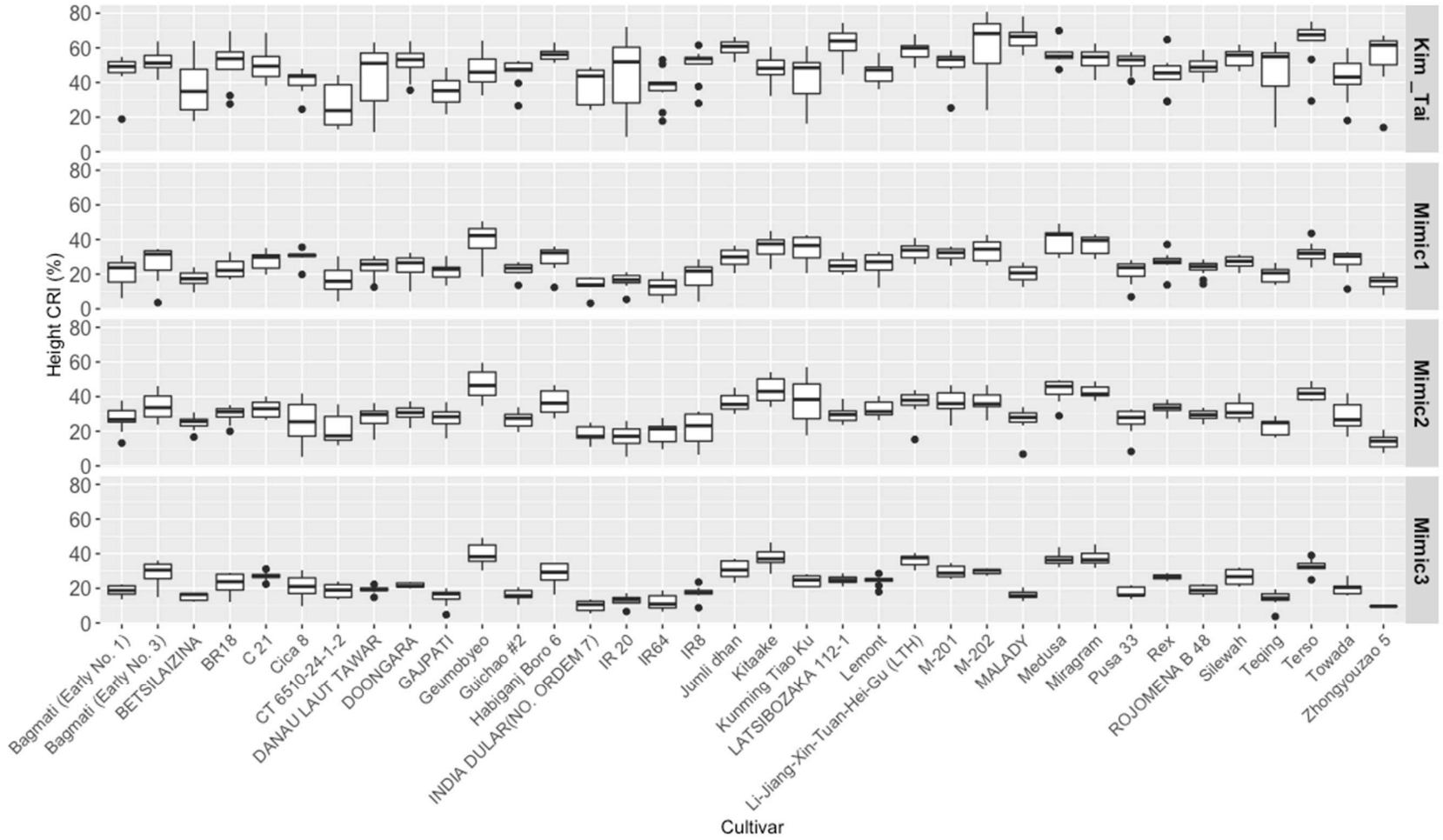

Figure S4. Boxplots of height CRI (%, = cold response index = (value under stress/value under normal conditions) × 100) for 36 rice (*Oryza sativa*) cultivars evaluated via four different seedling-stage low temperature treatment protocols.

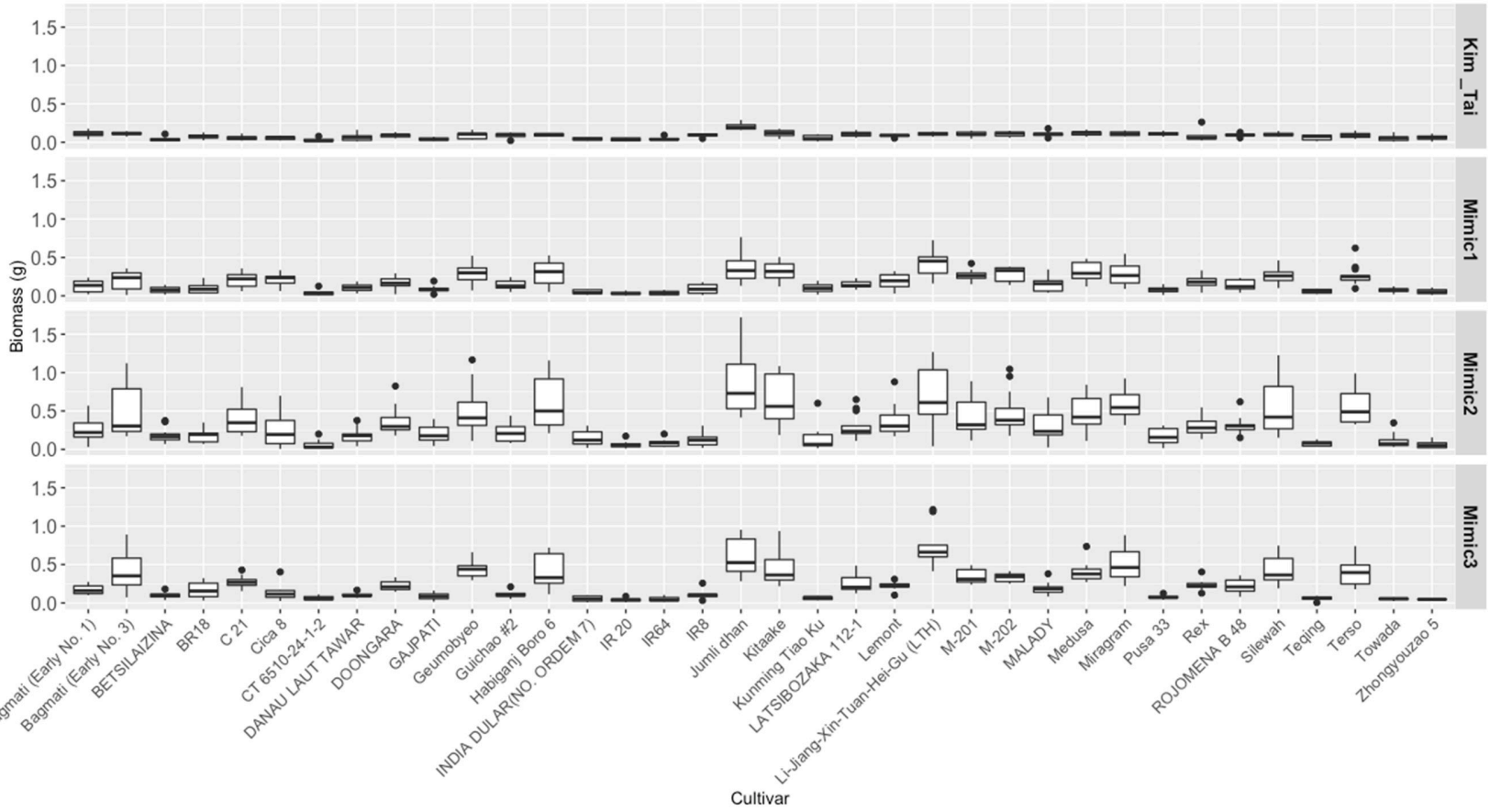

Figure S5. Boxplots of biomass (g) for 36 rice (*Oryza sativa*) cultivars evaluated via four different seedling-stage low temperature treatment protocols.

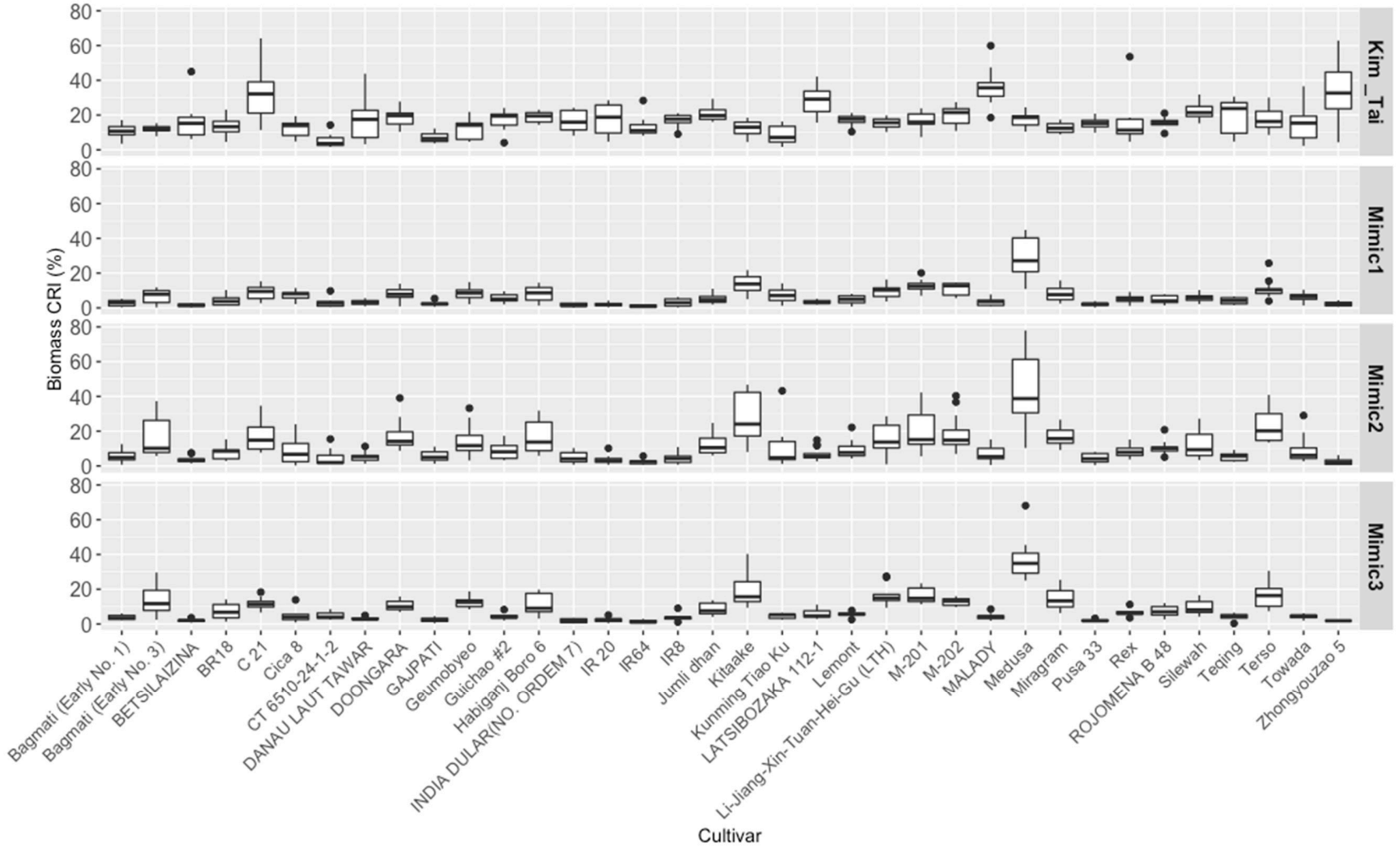

Figure S6. Boxplots of biomass CRI (%, = cold response index = (value under stress/value under normal conditions) × 100) for 36 rice (*Oryza sativa*) cultivars evaluated via four different seedling-stage low temperature treatment protocols.

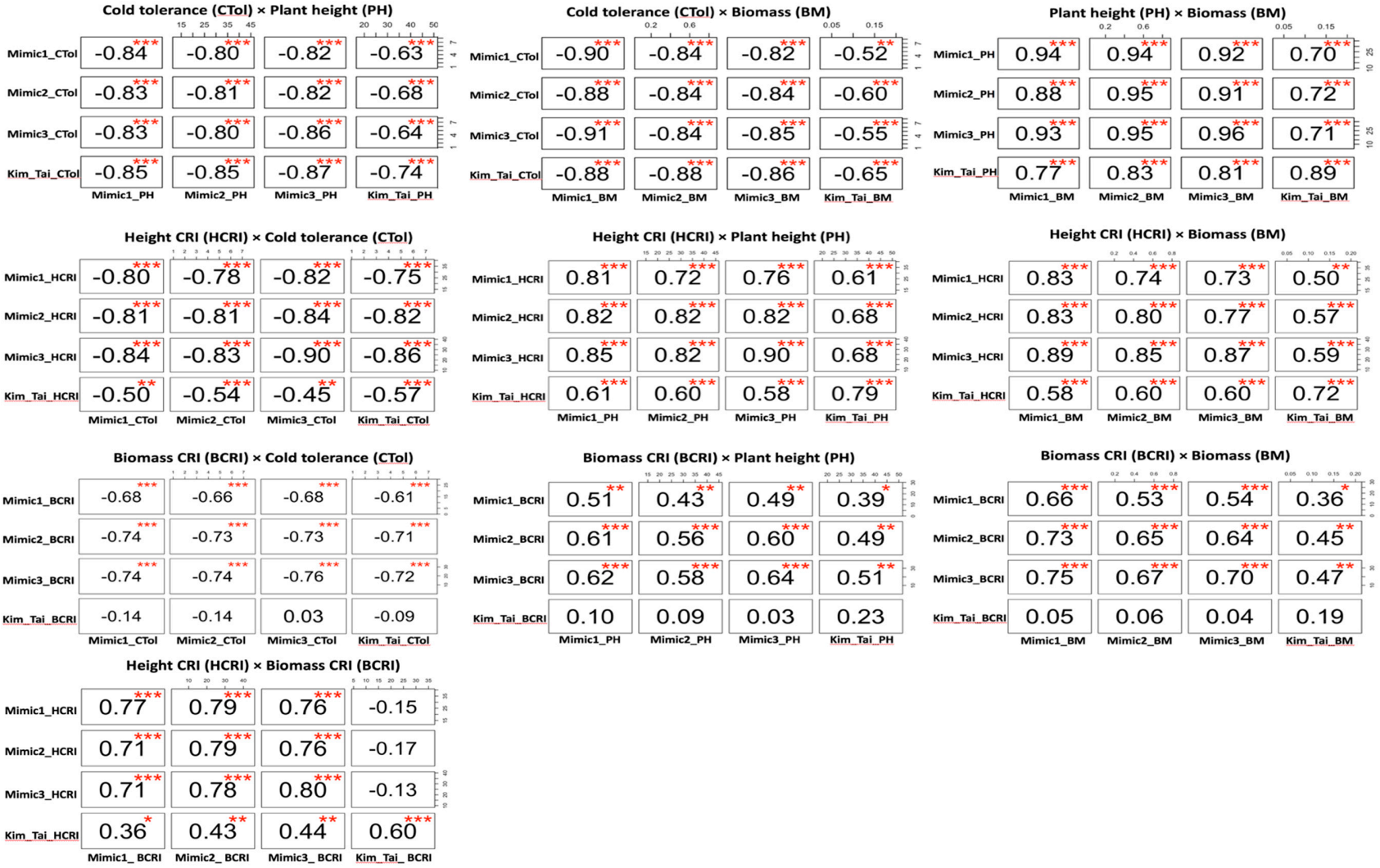

Figure S7. Correlations for each pairwise combination of traits for each of four low temperature treatments. CTol score: 1=seedlings dark green, 3=seedlings light green, 5=seedlings yellow, 7=seedlings brown, 9=seedlings dead. CRI (%) = cold response index = (value under stress/value under normal conditions) × 100. Asterisks indicate significant correlation at * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Table S1. Rice (*Oryza sativa*) cultivars (n = 36) used to compare different protocols (Mimic1, Mimic2, Mimic3, Kim and Tai, Cheng et al. and their warm controls) for determining seedling-stage tolerance to low temperatures.

Cultivar name	Source	ID	Sub-species	Origin	Expected cold response
Bagmati (Early No. 1)	USDA	PI 208447	*indica*	Nepal	Tolerant
Bagmati (Early No. 3)	USDA	GSOR 311534	*indica*	Nepal	Tolerant
Betsilaizina	IRRI	GERVEX 8405	*japonica*	Madagascar	Tolerant
BR18	USDA	PI 574674	*indica*	Bangladesh	Tolerant
C 21	IRRI	IRGC 331	*japonica*	China	Tolerant
Cica 8	USDA	PI 439199	*indica*	Colombia	Tolerant
CT 6510-24-1-2	IRRI	IRIS 179-1298652	*indica*	Colombia	Tolerant
Danau Laut Tawar	IRRI	IRIS 179-1298653	*indica*	Indonesia	Tolerant
Doongara	IRRI	IRIS 251-65497	*japonica*	Australia	Tolerant
Gajpati	IRRI	IRGC 58981	*indica*	Nepal	Tolerant
Geumobyeo	USDA	GSOR 301052	*japonica*	South Korea	Tolerant
Guichao no. 2	USDA	GSOR 311480	*indica*	China	Sensitive
Habiganj Boro 6	USDA	GSOR 301334	*indica*	Bangladesh	Tolerant
India dular	IRRI	IRGC 26070	*aus*	India	Sensitive
IR 20	IRRI	IRIS 179-1298654	*indica*	Philippines	Sensitive
IR 64	USDA	GSOR 311793	*indica*	Philippines	Sensitive
IR 8	USDA	GSOR 301065	*indica*	Philippines	Sensitive
Jumli dhan	USDA	GSOR 310702	*japonica*	Nepal	Tolerant
Kitaake	USDA	GSOR 300034	*japonica*	Japan	Tolerant
Kunming Tiao Ku	USDA	PI 159725	*japonica*	China	Tolerant
Latsibozaka 112-1	IRRI	GERVEX 8233	*indica*	Madagascar	Tolerant
Lemont	USDA	GSOR 100725	*japonica*	USA	Tolerant
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	USDA	GSOR 312018	*japonica*	China	Tolerant
M-201	USDA	CIor 9980	*japonica*	USA	Tolerant
M-202	IRRI	IRGC 77142	*japonica*	USA	Tolerant
Malady	IRRI	GERVEX 8402	*indica*	Madagascar	Tolerant
Medusa	USDA	GSOR 310707	*japonica*	Italy	Tolerant
Miragram	USDA	PI269940		Pakistan	Tolerant
Pusa 33	USDA	GSOR 310576	*indica*	India	Sensitive
Rex	MAFES	PI 661111	*japonica*	USA	Tolerant
Rojomena B 48	IRRI	GERVEX 8433	*indica*	Madagascar	Tolerant
Silewah	USDA	PI 419449	*javanica*	Indonesia	Tolerant
Teqing	USDA	GSOR 311366	*indica*	China	Sensitive
Terso	USDA	PI 612583	*japonica*	USA	Tolerant
Towada	USDA	PI 388586	*japonica*	Japan	Sensitive
Zhongyouzao 5	USDA	GSOR 311502	*indica*	China	Sensitive

Table S2. Protocols used in this study to evaluate transplanted rice seedlings for tolerance to low temperature (average temperatures for each week shown).

Week	Calendar weeks from which the mimic protocols were based using weather data from Bangladesh	After germination at 20°C for 3 weeks prior to transplanting				After germination at 30°C for 1 week prior to transplanting		
		Mimic1 temp (°C)	Mimic2 temp (°C)	Mimic3 temp (°C)	Warm_30/25 °C_9wk temp control (°C)	Kim _Tai temp (°C)	Cheng temp (°C)	Warm_25 °C_5wk control temp (°C)
1	Dec1-Dec7	19.4	19.4	18.6	27.5	25.0	25.0	25.0
2	Dec8-Dec14	18.4	18.4	16.3	27.5	25.0	25.0	25.0
3	Dec15-Dec21	17.7	19.1	15.3	27.5	25.0	25.0	25.0
4	Dec22-Dec28	15.4	16.4	14.4	27.5	9.0	4.0	25.0
5	Dec29-Jan4	13.1	13.1	14.7	27.5	9.0	25.0	25.0
6	Jan5-Jan11	10.6	13.2	11.6	27.5			
7	Jan12-Jan18	10.8	11.9	10.0	27.5			
8	Jan19-Jan25	10.8	11.2	14.1	27.5			
9	Jan26-Feb1	15.3	15.5	15.2	27.5			
Avg		14.6	15.4	14.4	27.5	18.6	20.8	25
Min		7.0	4.6	5.3	25	9.0	4.0	25

Table S3. Mimic1 protocol to screen rice (*Oryza sativa*) seedlings for tolerance to low temperatures (°C), based on the lowest average temperature at 3 hr intervals each week in December 2002 through January 2003 in Rajshahi, Bangladesh, in which cold caused extensive damage to the boro season rice crop.

Week		**0.00**	**3.00**	**6.00**	**9.00**	**12.00**	**15.00**	**18.00**	**21.00**	**Avg**
Dec1-Dec7	1	13.8	18.7	26.0	27.6	20.6	17.0	16.8	14.4	19.4
Dec8-Dec14	2	12.0	17.6	24.3	27.0	19.6	16.4	15.4	15.0	18.4
Dec15-Dec21	3	17.2	17.7	19.2	21.4	18.8	14.8	16.2	16.6	17.7
Dec22-Dec28	4	15.3	15.5	17.5	19.2	17.0	13.5	12.2	12.8	15.4
Dec29-Jan4	5	11.5	11.2	15.2	19.8	15.5	11.3	10.0	10.5	13.1
Jan5-Jan11	6	8.4	9.3	11.2	15.4	13.0	10.0	9.6	8.2	10.6
Jan12-Jan18	7	8.8	10.0	11.0	15.4	14.0	9.6	9.2	8.6	10.8
Jan19-Jan25	8	7.4	7.7	14.4	17.4	14.2	10.2	8.0	7.0	10.8
Jan26-Feb1	9	10.4	13.0	21.5	25.2	18.8	12.6	11.0	9.8	15.3
Average		11.6	13.4	17.8	20.9	16.8	12.8	12.0	11.4	14.6

Table S4. Mimic2 protocol to screen rice (*Oryza sativa*) seedlings for tolerance to low temperatures (°C), based on the lowest minimum temperature at 3 hr intervals each week in December 2002 through January 2003 in Rajshahi, Bangladesh, in which cold caused extensive damage to the boro season rice crop.

Week		**0.00**	**3.00**	**6.00**	**9.00**	**12.00**	**15.00**	**18.00**	**21.00**	**Avg**
Dec1-Dec7	1	13.8	18.7	26.0	27.6	20.6	17.0	16.8	14.4	19.4
Dec8-Dec14	2	12.0	17.6	24.3	27.0	19.6	16.4	15.4	15.0	18.4
Dec15-Dec21	3	14.4	18.8	25.0	26.5	20.2	17.0	15.5	15.1	19.1
Dec22-Dec28	4	11.3	15.0	21.6	24.0	18.4	15.0	13.4	12.8	16.4
Dec29-Jan4	5	11.5	11.2	15.2	19.8	15.5	11.3	10.0	10.5	13.1
Jan5-Jan11	6	6.8	10.2	17.2	20.6	16.0	13.2	12.0	9.4	13.2
Jan12-Jan18	7	7.4	11.4	13.2	15.6	14.0	9.8	12.2	11.2	11.9
Jan19-Jan25	8	4.6	8.5	14.5	19.5	15.0	11.0	8.5	8.0	11.2
Jan26-Feb1	9	8.6	14.0	21.5	23.2	18.7	14.0	12.8	11.4	15.5
Average		10.0	13.9	19.8	22.6	17.6	13.9	13.0	12.0	15.4

Table S5. Mimic3 protocol to screen rice (*Oryza sativa*) seedlings for tolerance to low temperatures (°C), based on the lowest average temperature at 3 hr intervals each week in December 2010 through January 2011 in Rajshahi, Bangladesh, in which cold caused extensive damage to the boro season rice crop.

Week		**0.00**	**3.00**	**6.00**	**9.00**	**12.00**	**15.00**	**18.00**	**21.00**	**Avg**
Dec1-Dec7	1	12.9	17.4	24.0	26.3	19.7	17.4	16.4	15.0	18.6
Dec8-Dec14	2	12.0	15.2	22.7	24.0	17.6	14.2	12.6	12.1	16.3
Dec15-Dec21	3	10.1	14.9	21.0	23.4	17.4	12.8	11.4	11.0	15.3
Dec22-Dec28	4	9.0	12.8	20.2	22.7	16.6	12.4	11.5	9.6	14.4
Dec29-Jan4	5	11.9	14.0	18.5	20.1	16.5	12.4	12.3	11.6	14.7
Jan5-Jan11	6	6.9	10.0	15.0	18.4	14.4	10.2	9.0	8.8	11.6
Jan12-Jan18	7	6.6	9.0	13.2	16.0	12.7	9.5	7.4	5.3	10.0
Jan19-Jan25	8	9.0	12.2	18.8	21.4	17.0	12.4	11.0	10.6	14.1
Jan26-Feb1	9	9.1	14.8	22.0	24.0	18.5	12.9	10.9	9.7	15.2
Average		9.7	13.4	19.5	21.8	16.7	12.7	11.4	10.4	14.4

Table S6. Control temperature (°C) protocol for the Mimic1, Mimic2 and Mimic3 protocols.

Week		0.00	3.00	6.00	9.00	12.00	15.00	18.00	21.00	Avg
Dec1-Dec7	1	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
2Dec8-Dec14	2	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Dec15-Dec21	3	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Dec22-Dec28	4	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Dec29-Jan4	5	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Jan5-Jan11	6	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Jan12-Jan18	7	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Jan19-Jan25	8	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Jan26-Feb1	9	25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5
Average		25.0	25.0	30.0	30.0	30.0	30.0	25.0	25.0	27.5

Table S7. Temperature (°C) for the Kim and Tai [15] protocol to screen rice (*Oryza sativa*) seedlings for tolerance to low temperatures.

Week	0.00	3.00	6.00	9.00	12.00	15.00	18.00	21.00	Avg
1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Average	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6

Table S8. Temperature (°C) for the Cheng et al. [16] protocol to screen rice (*Oryza sativa*) seedlings for tolerance to low temperatures.

Week	0.00	3.00	6.00	9.00	12.00	15.00	18.00	21.00	Avg
1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Average	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8

Table S9. Control temperature (°C) protocol for the Kim and Tai and Cheng et al. protocols.

Week	0.00	3.00	6.00	9.00	12.00	15.00	18.00	21.00	Avg
1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
3	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
4	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Average	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Table S10. Least squares means of germination proportion, shoot length and root length for 36 rice (*Oryza sativa*) cultivars tested with cold germination (20°C for 3 weeks) and warm germination (30°C for 1 week).

	Germination Proportion			Shoot Length (cm)			Root Length (cm)		
Cultivar	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk
Bagmati (Early No. 1)	0.97	0.88	1.1	4.0	4.3	0.9	0.3	0.8	0.4
Bagmati (Early No. 3)	0.94	0.83	1.1	3.9	3.0	1.3	0.5	0.3	1.6
BETSILAIZINA	0.85	0.70	1.2	2.8	3.7	0.8	0.1	0.2	0.7
BR18	0.86	0.79	1.1	2.1	2.4	0.9	0.3	0.3	1.0
C 21	0.92	0.84	1.1	2.6	2.1	1.2	0.6	0.2	2.9
Cica 8	0.83	0.89	0.9	1.5	1.5	1.0	0.2	0.2	0.9
CT 6510-24-1-2	0.86	0.80	1.1	1.9	1.8	1.1	0.1	0.3	0.2
DANAU LAUT TAWAR	0.87	0.90	1.0	3.2	2.2	1.5	0.2	0.2	0.8
DOONGARA	0.89	0.85	1.0	4.3	3.5	1.2	1.2	0.7	1.9
GAJPATI	0.88	0.67	1.3	3.7	3.2	1.1	0.2	0.4	0.5
Geumobyeo	0.99	1.00	1.0	5.2	2.8	1.9	2.1	0.5	4.4
Guichao #2	0.87	0.75	1.2	2.4	2.7	0.9	0.4	0.5	0.9
Habiganj Boro 6	0.98	0.98	1.0	5.6	3.7	1.5	0.9	0.5	1.8
INDIA DULAR(NO. ORDEM 7)	0.93	0.68	1.4	2.4	1.5	1.6	0.2	0.2	1.1
IR 20	0.82	0.82	1.0	1.3	2.3	0.6	0.0	0.2	0.1
IR 64	0.88	0.82	1.1	1.8	2.5	0.7	0.1	0.3	0.3
IR 8	0.87	0.83	1.0	2.4	4.0	0.6	0.3	0.7	0.4
Jumli dhan	0.98	1.00	1.0	10.8	7.5	1.4	4.2	2.1	2.0
Kitaake	1.00	1.00	1.0	5.9	4.5	1.3	3.0	1.5	2.0
Kunming Tiao Ku	0.95	0.90	1.1	2.1	3.2	0.7	0.1	0.2	0.9
LATSIBOZAKA 112-1	0.90	0.87	1.0	4.6	3.2	1.5	1.2	0.4	3.5
Lemont	0.94	0.93	1.0	2.9	2.5	1.2	0.7	0.3	2.2
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	0.96	0.88	1.1	5.7	4.0	1.4	2.0	1.4	1.4
M-201	0.98	0.97	1.0	4.8	3.4	1.4	2.7	0.5	5.2
M-202	0.96	0.90	1.1	5.0	3.8	1.3	2.5	1.0	2.6

Table S10. (Cont.)

	Germination Proportion			Shoot Length (cm)			Root Length (cm)		
Cultivar	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk	20°C_3wk lsmean	30°C_1wk lsmean	Ratio 20°C_3wk/ 30°C_1wk
MALADY	0.94	0.82	1.1	4.8	2.8	1.7	1.0	0.6	1.9
Medusa	0.96	0.90	1.1	3.8	2.6	1.5	1.2	0.5	2.4
Miragram	0.99	0.98	1.0	4.1	3.7	1.1	1.3	0.6	2.3
Pusa 33	0.94	0.93	1.0	2.8	3.9	0.7	0.4	0.5	0.8
Rex	0.72	0.67	1.1	3.5	3.3	1.0	1.6	0.3	5.4
ROJOMENA B 48	0.90	0.90	1.0	4.4	3.0	1.5	1.2	0.4	3.0
Silewah	0.96	0.92	1.0	5.0	3.6	1.4	0.6	0.5	1.1
Teqing	0.72	0.82	0.9	1.7	2.9	0.6	0.1	0.4	0.3
Terso	0.92	0.92	1.0	4.3	3.2	1.3	2.4	0.4	5.6
Towada	0.74	0.80	0.9	1.7	2.5	0.7	0.4	0.3	1.2
Zhongyouzao 5	0.64	0.77	0.8	1.7	2.3	0.7	0.3	0.3	1.0
Mean	0.90	0.86	1.1	3.6	3.1	1.1	1.0	0.5	1.8
Range	0.36	0.33	0.6	9.5	6	1.3	4.2	1.9	5.5
SE	0.03	0.07		0.3	0.5		0.2	0.2	

Table S11. Variance accounted for by analysis of variance models for discerning differences among 36 rice (*Oryza sativa*) cultivars in responses to seven different temperature treatments.

Treatment	Variance (R^2) CTol[a]	Variance (R^2) Plant Height	Variance (R^2) Biomass	Variance (R^2) Height CRI	Variance (R^2) Biomass CRI
Mimic1	0.7042461	0.6444311	0.5511561	0.5983123	0.6925985
Mimic2	0.7621950	0.7200447	0.4784368	0.6205200	0.5572647
Mimic3	0.7901679	0.8548602	0.6635745	0.8161622	0.7346278
Kim_Tai	0.7583423	0.5629784	0.5404061	0.3853328	0.4452541
Cheng	0.5003589	0.7003988	0.3391914		
Warm_30/25°C_9wk	0.4962797	0.7023645	0.5815563		
Warm_25°C_5wk	0.4993065	0.5116454	0.6581484		

[a] Cold Tolerance score; 1=seedlings dark green, 3=seedlings light green, 5=seedlings yellow, 7=seedlings brown, 9=seedlings dead. CRI (%) = cold response index = (value under stress/value under normal conditions) × 100.

Table S12. Least square means of cold tolerance (CTol[a]) scores (1-9 scale) for 36 rice (*Oryza sativa*) cultivars tested with seven different temperature treatment protocols.

	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
Cultivar	**CTol**	**SE**	**CTol**	**SE**	**CTol**	**SE**	**CTol**	**SE**	**CTol**	**SE**	**CTol**	**SE**	**CTol**	**SE**
Bagmati (Early No. 1)	6.1	0.3	5.0	0.3	4.8	0.3	5.2	0.4	9	8E-15	1	7.9E-16	1	9.6E-16
Bagmati (Early No. 3)	4.7	0.3	3.0	0.3	3.5	0.4	4.1	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
BETSILAIZINA	5.5	0.4	3.8	0.3	5.4	0.5	6.7	0.5	9	8E-15	1	9.2E-16	1	9.6E-16
BR18	6.2	0.4	4.7	0.3	4.7	0.4	5.9	0.4	9	8E-15	1	7.9E-16	1	9.6E-16
C 21	2.4	0.3	2.5	0.3	2.0	0.3	3.7	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Cica 8	4.7	0.5	4.5	0.4	3.7	0.4	6.1	0.5	9	9E-15	1	9.2E-16	1	2.1E-15
CT 6510-24-1-2	8.1	0.5	7.7	0.3	5.5	0.4	7.3	0.5	9	9E-15	1	7.1E-16	1	1.2E-15
DANAU LAUT TAWAR	6.0	0.3	4.5	0.3	5.9	0.4	6.3	0.4	9	9E-15	1	7.1E-16	1	1.1E-15
DOONGARA	3.7	0.3	3.1	0.3	3.0	0.3	2.4	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
GAJPATI	5.4	0.4	5.1	0.3	5.4	0.3	6.8	0.5	9	8E-15	1	7.1E-16	1	9.6E-16
Geumobyeo	1.9	0.3	1.6	0.3	1.2	0.3	2.8	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Guichao #2	5.2	0.4	4.7	0.3	5.0	0.4	7.4	0.4	9	8E-15	1	7.1E-16	1	1.2E-15
Habiganj Boro 6	2.5	0.3	2.3	0.3	1.4	0.3	2.8	0.4	9	8E-15	1	7.1E-16	1	1.1E-15
INDIA DULAR(NO. ORDEM 7)	7.7	0.4	6.6	0.3	7.2	0.3	6.2	0.6	9	8E-15	1	7.1E-16	1	1.1E-15
IR 20	7.3	0.5	6.5	0.4	5.5	0.4	7.4	0.4	9	8E-15	1	1.6E-15	1	9.6E-16
IR 64	7.0	0.4	4.8	0.3	6.3	0.4	7.0	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
IR 8	6.3	0.4	5.4	0.3	5.3	0.4	6.8	0.4	9	8E-15	1	7.9E-16	1	1.1E-15
Jumli dhan	3.7	0.3	2.3	0.3	2.6	0.3	1.4	0.4	9	8E-15	1	7.9E-16	1	9.6E-16
Kitaake	1.0	0.3	1.0	0.3	1.0	0.3	1.2	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Kunming Tiao Ku	6.5	0.6	5.7	0.4	5.4	0.5	5.4	0.4	9	8E-15	1	1.6E-15	1	9.6E-16
LATSIBOZAKA 112-1	4.6	0.3	3.6	0.3	3.8	0.3	3.4	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Lemont	3.3	0.3	3.1	0.3	2.6	0.3	2.6	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	2.1	0.3	1.4	0.3	1.0	0.4	1.4	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
M-201	1.7	0.3	1.1	0.3	1.2	0.3	2.2	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
M-202	2.9	0.3	1.5	0.3	1.3	0.4	2.6	0.4	9	8E-15	1	7.1E-16	1	9.6E-16

Table S12. (Cont.)

Cultivar	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
	CTol	SE	CTol	SE	CTol	SE	CTol	SE	CTol	SE	CTol	SE	CTol	SE
MALADY	5.9	0.3	4.7	0.3	5.4	0.3	5.4	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Medusa	2.1	0.3	1.1	0.3	1.2	0.3	1.8	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Miragram	2.9	0.3	2.0	0.3	1.8	0.3	2.6	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Pusa 33	7.3	0.4	6.3	0.3	6.1	0.4	6.8	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Rex	3.5	0.3	2.4	0.3	2.2	0.3	1.2	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
ROJOMENA B 48	5.5	0.3	3.3	0.3	4.6	0.3	4.8	0.4	9	8E-15	1	7.1E-16	1	1.1E-15
Silewah	2.3	0.3	1.9	0.3	1.6	0.3	2.6	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Teqing	6.0	0.5	5.3	0.4	5.6	0.4	6.8	0.4	9	9E-15	1	1.6E-15	1	1.5E-15
Terso	3.1	0.3	3.1	0.3	3.0	0.3	2.0	0.4	9	8E-15	1	7.1E-16	1	9.6E-16
Towada	6.5	0.4	4.8	0.3	5.9	0.4	7.0	0.5	9	8E-15	1	9.2E-16	1	1.1E-15
Zhongyouzao 5	6.1	0.5	5.3	0.4	8.0	0.7	7.3	0.5	9	1E-14	1	1.1E-15	1	1.5E-15
Mean	4.7	0.11	3.8	0.09	3.9	0.12	4.5	0.14	9	2E-14	1	1.6E-15	1	2.1E-15
Range	7.1		6.7		7.0		6.2		0		0		0	

[a] Cold Tolerance score; 1=seedlings dark green, 3=seedlings light green, 5=seedlings yellow, 7=seedlings brown, 9=seedlings dead.

Table S13. Least square means of plant height (cm) for 36 rice (*Oryza sativa*) cultivars tested with seven different temperature treatment protocols.

	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
Cultivar	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE
Bagmati (Early No. 1)	20.2	1.4	26.4	1.4	17.7	1.1	37.8	2.2	50.5	2.7	94.6	5.1	81.2	4.7
Bagmati (Early No. 3)	23.6	1.3	29.8	1.4	25.2	1.3	39.3	2.3	40.5	2.7	87.4	4.6	74.8	4.7
BETSILAIZINA	17.6	1.5	25.0	1.5	15.3	1.6	22.5	2.6	33.9	2.7	100.8	5.9	60.6	4.7
BR18	16.2	1.5	20.9	1.5	15.9	1.5	27.2	2.3	34.4	2.7	70.1	5.1	54.0	4.7
C 21	25.7	1.4	30.3	1.3	24.7	1.1	29.8	2.3	38.2	2.7	91.4	4.6	58.9	4.7
Cica 8	24.2	2.0	20.5	1.8	16.9	1.5	26.8	2.6	33.1	3.0	80.7	5.9	66.8	10.6
CT 6510-24-1-2	11.6	2.0	14.6	1.6	12.9	1.3	19.8	2.4	35.3	3.0	69.2	4.6	74.3	6.1
DANAU LAUT TAWAR	19.2	1.4	22.4	1.4	15.3	1.2	28.2	2.3	30.5	3.0	79.9	4.6	66.2	5.3
DOONGARA	22.0	1.3	27.0	1.3	19.1	1.1	34.2	2.2	34.3	2.7	88.0	4.6	66.4	4.7
GAJPATI	20.3	1.6	25.6	1.3	13.8	1.1	26.2	2.4	39.7	2.7	92.3	4.6	74.8	4.7
Geumobyeo	32.1	1.3	38.1	1.4	32.2	1.1	36.1	2.2	48.1	2.7	80.9	4.6	77.1	4.7
Guichao #2	18.2	1.6	21.3	1.4	12.8	1.5	29.8	2.3	29.7	2.7	79.6	4.6	65.2	6.1
Habiganj Boro 6	28.9	1.3	36.1	1.3	27.9	1.1	39.2	2.2	43.3	2.7	97.8	4.6	69.4	5.3
INDIA DULAR(NO. ORDEM 7)	13.9	1.5	18.8	1.6	9.9	1.1	20.3	3.1	25.4	2.7	99.8	4.6	53.1	5.3
IR 20	12.0	1.8	12.6	1.8	9.8	1.3	17.9	2.2	11.8	2.7	75.5	10.3	39.8	4.7
IR 64	9.7	1.6	14.5	1.4	9.3	1.3	20.8	2.2	30.2	2.7	77.0	4.6	55.4	4.7
IR 8	14.8	1.6	17.1	1.7	13.5	1.3	30.5	2.2	37.6	2.7	77.6	5.1	60.8	5.3
Jumli dhan	36.2	1.4	45.1	1.3	37.9	1.1	50.3	2.2	56.6	2.7	122.8	5.1	83.5	4.7
Kitaake	28.4	1.3	34.1	1.4	29.4	1.1	34.1	2.2	36.0	2.7	78.5	4.6	70.9	4.7
Kunming Tiao Ku	20.3	2.6	22.4	2.1	14.6	1.6	31.5	2.2	35.6	2.7	59.6	10.3	72.3	4.7
LATSIBOZAKA 112-1	27.3	1.3	32.5	1.4	27.2	1.1	43.4	2.2	42.8	2.7	109.2	4.6	69.1	4.7
Lemont	19.9	1.3	25.6	1.3	19.0	1.1	30.3	2.2	35.2	2.7	77.8	4.6	66.5	4.7
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	35.5	1.3	39.0	1.3	38.1	1.2	42.5	2.2	45.7	2.7	106.3	4.6	73.2	4.7
M-201	26.1	1.3	30.6	1.3	24.4	1.1	37.8	2.2	40.6	2.7	82.6	4.6	75.1	4.7
M-202	27.3	1.3	30.1	1.3	24.0	1.4	34.7	2.2	36.1	2.7	81.0	4.6	56.2	4.7

Table S13. (Cont.)

Cultivar	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE	Plant height	SE
MALADY	20.8	1.4	27.5	1.4	16.6	1.1	39.4	2.2	44.5	2.7	103.0	4.6	59.8	4.7
Medusa	25.8	1.4	29.0	1.4	24.1	1.1	37.1	2.2	33.7	2.7	65.7	4.6	66.1	4.7
Miragram	31.0	1.3	37.7	1.4	33.2	1.1	39.2	2.2	47.8	2.7	88.5	4.6	73.6	4.7
Pusa 33	15.3	1.4	19.0	1.6	12.8	1.2	30.2	2.2	32.2	2.7	72.3	4.6	58.7	4.7
Rex	21.8	1.3	26.7	1.4	21.2	1.1	30.1	2.2	35.6	2.7	79.7	4.6	67.2	4.7
ROJOMENA B 48	22.8	1.3	28.3	1.3	18.3	1.1	38.5	2.2	38.0	2.7	96.3	4.6	77.8	5.3
Silewah	28.7	1.4	34.1	1.3	28.6	1.1	38.7	2.2	34.9	2.7	107.5	4.6	71.1	4.7
Teqing	13.9	2.1	15.7	2.0	9.7	1.4	26.7	2.3	29.1	3.0	70.0	10.3	57.0	10.6
Terso	29.8	1.3	39.0	1.3	30.5	1.1	39.8	2.2	40.1	2.7	92.8	4.6	62.5	4.7
Towada	13.9	1.6	15.3	1.5	10.7	1.4	23.5	2.4	29.3	2.7	53.5	5.9	55.4	5.3
Zhongyouzao 5	14.6	2.0	13.4	2.1	6.3	2.6	25.8	2.6	19.6	3.5	95.5	7.3	48.7	7.5
Mean	21.9	0.39	26.3	0.44	20.0	0.51	32.2	0.54	36.4	0.74	85.7	1.33	65.7	1.06
Range	26.5		32.5		31.8		32.4		44.8		69.3		43.7	

Table S14. Least square means of plant height cold response index (Plant height CRI*, %, = cold response index = (value under stress/value under normal conditions) × 100) for 36 rice (*Oryza sativa*) cultivars tested with four protocols for evaluating tolerance to low temperature.

	Mimic1		Mimic2		Mimic3		Kim_Tai	
	Plant height		Plant height		Plant height		Plant height	
Cultivar	CRI	SE	CRI	SE	CRI	SE	CRI	SE
Bagmati (Early No. 1)	21.4	1.6	27.9	1.6	18.7	1.3	46.6	3.5
Bagmati (Early No. 3)	27.0	1.5	34.1	1.6	28.8	1.5	52.5	3.7
BETSILAIZINA	17.4	1.7	24.8	1.8	15.2	1.8	37.2	4.2
BR18	23.1	1.7	29.8	1.8	22.6	1.7	50.4	3.7
C 21	28.1	1.6	33.1	1.6	27.0	1.3	50.7	3.7
Cica 8	29.9	2.2	25.4	2.2	20.9	1.7	40.2	4.2
CT 6510-24-1-2	16.8	2.2	21.1	1.9	18.6	1.5	26.6	3.9
DANAU LAUT TAWAR	24.0	1.6	28.1	1.7	19.2	1.4	42.6	3.7
DOONGARA	25.0	1.5	30.6	1.6	21.7	1.3	51.5	3.5
GAJPATI	22.0	1.8	27.8	1.6	15.0	1.3	35.0	3.9
Geumobyeo	39.7	1.5	47.1	1.6	39.8	1.3	46.8	3.5
Guichao #2	22.8	1.8	26.8	1.6	16.1	1.7	45.7	3.7
Habiganj Boro 6	29.5	1.5	36.9	1.6	28.5	1.3	56.4	3.5
INDIA DULAR(NO. ORDEM 7)	13.9	1.7	18.8	1.9	9.9	1.3	38.2	5.0
IR 20	15.9	2.1	16.7	2.2	13.0	1.5	44.9	3.5
IR 64	12.7	1.8	18.8	1.7	12.1	1.5	37.5	3.5
IR 8	19.0	1.8	22.1	2.1	17.4	1.5	50.1	3.5
Jumli dhan	29.5	1.6	36.7	1.6	30.9	1.3	60.2	3.5
Kitaake	36.2	1.5	43.4	1.6	37.4	1.3	48.2	3.5
Kunming Tiao Ku	34.1	2.9	37.5	2.5	24.4	1.8	43.5	3.5
LATSIBOZAKA 112-1	25.0	1.5	29.8	1.6	24.9	1.3	62.8	3.5
Lemont	25.5	1.5	32.9	1.6	24.4	1.3	45.6	3.5
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	33.4	1.5	36.7	1.6	35.9	1.4	58.1	3.5
M-201	31.6	1.5	37.0	1.6	29.5	1.3	50.3	3.5
M-202	33.7	1.5	37.1	1.6	29.7	1.6	61.7	3.5
MALADY	20.2	1.6	26.7	1.6	16.2	1.3	66.0	3.5
Medusa	39.3	1.6	44.1	1.6	36.6	1.3	56.2	3.5
Miragram	37.0	1.6	42.6	1.6	37.5	1.3	53.3	3.5
Pusa 33	21.2	1.6	26.3	1.9	17.7	1.4	51.4	3.5
Rex	27.3	1.5	33.5	1.6	26.6	1.3	44.8	3.5
ROJOMENA B 48	23.7	1.5	29.3	1.6	19.0	1.3	49.5	3.5
Silewah	26.7	1.6	31.8	1.6	26.6	1.3	54.5	3.5
Teqing	19.8	2.4	22.4	2.3	13.9	1.6	46.9	3.7
Terso	32.2	1.5	42.1	1.6	32.9	1.3	63.6	3.5
Towada	27.3	1.9	28.7	1.8	20.0	1.6	42.5	3.9
Zhongyouzao 5	15.3	2.2	14.0	2.5	9.6	4.1	53.0	4.2
Mean	25.8	0.42	30.6	0.45	23.3	0.52	49.0	0.74
Range	27.0		33.2		30.2		39.4	

* Plant height CRI (%) = (plant height under stress/plant height under normal conditions) × 100

Table S15. Least square means of dry biomass (g) for 36 rice (*Oryza sativa*) cultivars tested with seven different temperature treatment protocols.

	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
Cultivar	**Biomass**	**SE**	**Biomass**	**SE**	**Biomass**	**SE**	**Biomass**	**SE**	**Biomass**	**SE**	**Biomass**	**SE**	**Biomass**	**SE**
Bagmati (Early No. 1)	0.13	0.03	0.27	0.06	0.17	0.04	0.11	0.01	0.24	0.03	4.52	0.56	1.03	0.08
Bagmati (Early No. 3)	0.21	0.03	0.48	0.06	0.41	0.05	0.11	0.01	0.14	0.03	3.01	0.50	0.94	0.08
BETSILAIZINA	0.08	0.03	0.18	0.06	0.10	0.06	0.04	0.01	0.08	0.03	4.97	0.64	0.24	0.08
BR18	0.09	0.03	0.17	0.06	0.17	0.06	0.07	0.01	0.15	0.03	2.29	0.56	0.56	0.08
C 21	0.21	0.03	0.39	0.06	0.27	0.04	0.06	0.01	0.10	0.03	2.34	0.50	0.18	0.08
Cica 8	0.21	0.04	0.26	0.08	0.15	0.06	0.06	0.01	0.09	0.04	2.91	0.64	0.46	0.19
CT 6510-24-1-2	0.04	0.04	0.06	0.07	0.06	0.05	0.03	0.01	0.10	0.04	1.29	0.50	0.55	0.11
DANAU LAUT TAWAR	0.11	0.03	0.18	0.06	0.10	0.05	0.06	0.01	0.08	0.04	3.35	0.50	0.37	0.09
DOONGARA	0.17	0.03	0.36	0.06	0.22	0.04	0.09	0.01	0.12	0.03	2.11	0.50	0.48	0.08
GAJPATI	0.09	0.03	0.20	0.06	0.09	0.04	0.04	0.01	0.10	0.03	3.56	0.50	0.59	0.08
Geumobyeo	0.29	0.03	0.51	0.06	0.45	0.04	0.09	0.01	0.11	0.03	3.51	0.50	0.75	0.08
Guichao #2	0.15	0.03	0.22	0.06	0.11	0.06	0.09	0.01	0.13	0.03	2.54	0.50	0.53	0.11
Habiganj Boro 6	0.30	0.03	0.58	0.06	0.42	0.04	0.10	0.01	0.11	0.03	3.64	0.50	0.52	0.09
INDIA DULAR(NO. ORDEM 7)	0.05	0.03	0.15	0.07	0.06	0.04	0.04	0.02	0.07	0.03	2.98	0.50	0.26	0.09
IR 20	0.03	0.03	0.06	0.08	0.04	0.05	0.04	0.01	0.04	0.03	1.69	1.11	0.21	0.08
IR 64	0.04	0.03	0.08	0.06	0.05	0.05	0.04	0.01	0.10	0.03	3.53	0.50	0.33	0.08
IR 8	0.09	0.03	0.13	0.07	0.11	0.05	0.09	0.01	0.16	0.03	2.84	0.56	0.54	0.09
Jumli dhan	0.35	0.03	0.85	0.06	0.60	0.04	0.21	0.01	0.15	0.03	6.95	0.56	0.99	0.08
Kitaake	0.32	0.03	0.63	0.06	0.44	0.04	0.12	0.01	0.16	0.03	2.32	0.50	0.95	0.08
Kunming Tiao Ku	0.10	0.05	0.17	0.09	0.06	0.06	0.06	0.01	0.07	0.03	1.39	1.11	0.66	0.08
LATSIBOZAKA 112-1	0.15	0.03	0.30	0.06	0.25	0.04	0.11	0.01	0.11	0.03	4.35	0.50	0.38	0.08
Lemont	0.19	0.03	0.37	0.06	0.22	0.04	0.09	0.01	0.13	0.03	3.97	0.50	0.51	0.08
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	0.42	0.03	0.71	0.06	0.73	0.05	0.11	0.01	0.14	0.03	4.43	0.50	0.71	0.08
M-201	0.26	0.03	0.42	0.06	0.35	0.04	0.11	0.01	0.16	0.03	2.10	0.50	0.64	0.08
M-202	0.28	0.03	0.47	0.06	0.33	0.05	0.11	0.01	0.13	0.03	2.59	0.50	0.55	0.08

Table S15. (Cont.)

Cultivar	Mimic1		Mimic2		Mimic3		Kim_Tai		Cheng		Warm_30/25°C_9wk		Warm_25°C_5wk	
	Biomas	SE	Biomas	SE	Biomas	SE	Biomas	SE	Biomass	SE	Biomass	SE	Biomass	SE
MALADY	0.14	0.03	0.30	0.06	0.19	0.04	0.11	0.01	0.12	0.03	4.43	0.50	0.30	0.08
Medusa	0.31	0.03	0.48	0.06	0.41	0.04	0.12	0.01	0.11	0.03	1.08	0.50	0.68	0.08
Miragram	0.29	0.03	0.58	0.06	0.50	0.04	0.11	0.01	0.14	0.03	3.47	0.50	0.89	0.08
Pusa 33	0.08	0.03	0.17	0.07	0.08	0.05	0.11	0.01	0.15	0.03	3.81	0.50	0.73	0.08
Rex	0.18	0.03	0.30	0.06	0.23	0.04	0.08	0.01	0.11	0.03	3.60	0.50	0.49	0.08
ROJOMENA B 48	0.14	0.03	0.31	0.06	0.22	0.04	0.10	0.01	0.29	0.03	2.98	0.50	0.61	0.09
Silewah	0.26	0.03	0.54	0.06	0.43	0.04	0.10	0.01	0.12	0.03	4.50	0.50	0.46	0.08
Teqing	0.06	0.04	0.08	0.08	0.06	0.05	0.06	0.01	0.08	0.04	1.42	1.11	0.33	0.19
Terso	0.26	0.03	0.56	0.06	0.40	0.04	0.09	0.01	0.09	0.03	2.42	0.50	0.51	0.08
Towada	0.07	0.03	0.11	0.06	0.05	0.05	0.06	0.01	0.09	0.03	1.19	0.64	0.36	0.09
Zhongyouzao 5	0.06	0.04	0.06	0.09	0.05	0.13	0.06	0.01	0.04	0.04	2.50	0.79	0.18	0.13
Mean	0.17	0.01	0.33	0.01	0.24	0.01	0.09	0.01	0.12	0.01	3.07	0.12	0.54	0.02
Range	0.39		0.79		0.69		0.18		0.25		5.87		0.85	

Table S16. Least square means of biomass cold response index (Biomass CRI*, %, = cold response index = (value under stress/value under normal conditions) × 100) for 36 rice (*Oryza sativa*) cultivars tested with four protocols for evaluating tolerance to low temperature.

	Mimic1		Mimic2		Mimic3		Kim_Tai	
	Biomass		Biomass		Biomass		Biomass	
Cultivar	CRI	SE	CRI	SE	CRI	SE	CRI	SE
Bagmati (Early No. 1)	2.8	1.0	6.0	2.1	3.8	1.5	10.8	2.4
Bagmati (Early No. 3)	6.9	0.9	16.0	2.1	13.7	1.6	12.0	2.6
BETSILAIZINA	1.6	1.0	3.7	2.2	2.1	2.1	17.3	2.9
BR18	4.1	1.0	7.6	2.2	7.4	1.9	13.1	2.6
C 21	9.0	1.0	16.8	2.0	11.7	1.5	32.2	2.6
Cica 8	7.2	1.4	8.8	2.8	5.1	1.9	12.2	2.9
CT 6510-24-1-2	3.2	1.4	4.7	2.3	4.9	1.6	5.4	2.7
DANAU LAUT TAWAR	3.2	1.0	5.4	2.2	3.1	1.6	17.5	2.6
DOONGARA	8.0	0.9	17.0	2.0	10.6	1.5	18.4	2.4
GAJPATI	2.4	1.1	5.7	2.0	2.4	1.5	7.1	2.7
Geumobyeo	8.3	0.9	14.5	2.1	12.8	1.5	11.9	2.4
Guichao #2	5.7	1.1	8.8	2.1	4.5	1.9	16.9	2.6
Habiganj Boro 6	8.3	0.9	15.9	2.0	11.5	1.5	18.9	2.4
INDIA DULAR(NO. ORDEM 7)	1.7	1.0	4.9	2.3	1.9	1.5	16.5	3.4
IR 20	2.0	1.3	3.8	2.8	2.4	1.6	18.0	2.4
IR 64	1.1	1.1	2.3	2.2	1.5	1.6	13.3	2.4
IR 8	3.2	1.1	4.6	2.6	3.9	1.6	16.7	2.4
Jumli dhan	5.1	1.0	12.2	2.0	8.6	1.5	20.9	2.4
Kitaake	13.8	0.9	27.3	2.1	19.0	1.5	12.3	2.4
Kunming Tiao Ku	7.4	1.8	12.4	3.2	4.6	2.1	8.7	2.4
LATSIBOZAKA 112-1	3.4	0.9	6.8	2.1	5.8	1.5	28.7	2.4
Lemont	4.7	0.9	9.3	2.0	5.7	1.5	16.9	2.4
Li-Jiang-Xin-Tuan-Hei-Gu (LTH)	9.6	0.9	16.0	2.0	16.6	1.6	15.2	2.4
M-201	12.4	0.9	20.1	2.0	16.4	1.5	16.9	2.4
M-202	10.8	0.9	18.2	2.0	12.8	1.8	19.9	2.4
MALADY	3.3	1.0	6.8	2.1	4.4	1.5	36.3	2.4
Medusa	28.9	1.0	44.5	2.1	37.6	1.5	17.5	2.4
Miragram	8.2	1.0	16.8	2.1	14.5	1.5	12.5	2.4
Pusa 33	2.1	1.0	4.5	2.3	2.0	1.6	15.1	2.4
Rex	5.0	0.9	8.4	2.1	6.5	1.5	15.9	2.4
ROJOMENA B 48	4.8	0.9	10.3	2.0	7.4	1.5	15.7	2.4
Silewah	5.8	1.0	12.0	2.0	9.6	1.5	22.3	2.4
Teqing	4.1	1.5	5.3	2.9	4.2	1.8	18.6	2.6
Terso	10.8	0.9	23.0	2.0	16.5	1.5	17.9	2.4
Towada	6.2	1.1	9.1	2.2	4.3	1.8	15.8	2.7
Zhongyouzao 5	2.2	1.4	2.6	3.2	1.9	4.7	33.8	2.9
Mean	6.3	0.29	11.4	0.52	8.4	0.49	17.2	0.53
Range	27.8		42.2		36.2		30.9	

* Biomass CRI (%) = (biomass under stress/biomass under normal conditions) × 100