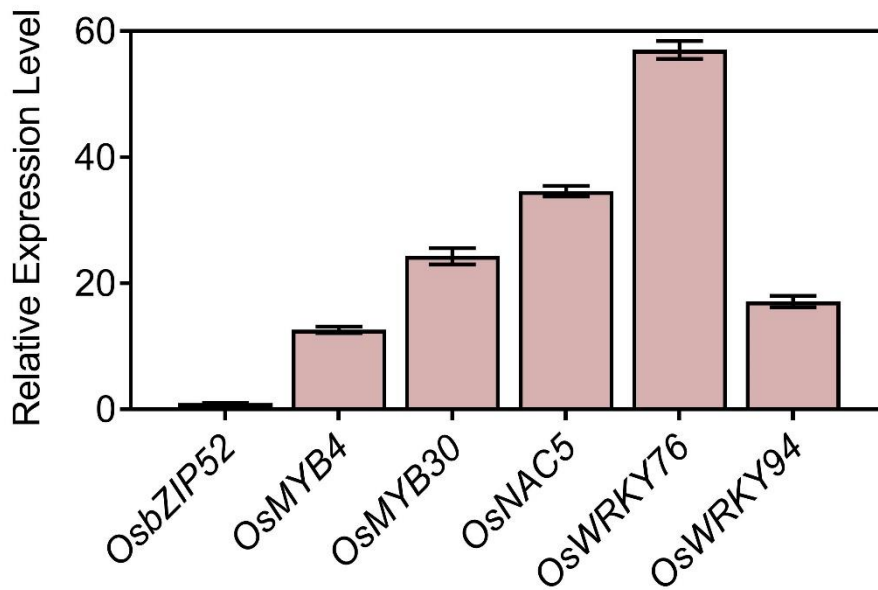


**Figure S1. Expression profiles of antioxidant enzymes genes in rice leaves.** The expression levels were first normalized to the rice internal control gene *UBQ5* and reported relative to *OsCu/ZnSOD1* expression level of control (assigned a value of 1). All analyses were performed with three replicates.



**Figure S2. Expression profiles of chilling response transcription factors genes in rice leaves.** The expression levels were first normalized to the rice internal control gene *UBQ5* and reported relative to *OsCu/ZnSOD1* expression level of control (assigned a value of 1). All analyses were performed with three replicates.

**Table S1. Characterization details of ZnO NPs.**

NPs	Size nm	Zeta potential mV	Mobility $\mu\text{mcm/Vs}$	Conductivity mS/cm
ZnO	30	6.697	0.525	0.010

**Table S2. Primers used in the present study.**

Gene Name	LOC No.	Forwad Primer Sequence (5'→3')	Reverse Primer Sequence (5'→3')
<i>UBQ5</i>	<i>Os06g0650100</i>	CCGACTACAACATCCAGAAGGAG	AACAGGAGCCTACGCCTAAGC
<i>OsCu/ZnSOD1</i>	<i>Os03g0351500</i>	ATCCTGATGATCTTGAAAGGG	AAAACACATAGTTCATTGGGCG
<i>OsCu/ZnSOD2</i>	<i>Os07g0665200</i>	CTTAGCAAGACCACTGGAAATG	TGTTGGAAAGTTGAGACGTCTA
<i>OsCu/ZnSOD3</i>	<i>Os08g0561700</i>	CACCCTTTTGTGTCATCTTCGAG	TTACTGTGAGACGAACGATCAA
<i>OsPRX11</i>	<i>Os01g0294700</i>	TACCGCGACCTCCTCAACTA	GAAGCCCGGCATGAACCT
<i>OsPRX65</i>	<i>Os05g0134400</i>	CTCCCGGACTCCACCTTCA	GGAGCAGTGGCCGACG
<i>OsPRX89</i>	<i>Os06g0681600</i>	TTCCACGACTGCTTCGTCAG	TCTCGACCACGCTCTTGATG
<i>OsCATA</i>	<i>Os02g0115700</i>	TCCAGTGTGATGAGTCGTTGG	TCTTCACATGCTTGGCTTCACG
<i>OsCATB</i>	<i>Os06g0727200</i>	TCCTACTGGTCCGAGTGTGATG	TTTCAGGTTGAGACGTGAAGCC
<i>OsZIP52</i>	<i>Os06g0662200</i>	CTGTTAGAAGCAGAGAGGAGTC	TTCAGATAACTGTGCCTGCTTT
<i>OsMYB4</i>	<i>Os04g0517100</i>	GTGAAGCAAAGCTAAAATGGGT	GGGGGATCAGATCAGATAAGTC
<i>OsMYB30</i>	<i>Os02g0624300</i>	CTTCTGGCTCAAGCTGTTTCATC	AATGAACAAGAGATCGACCCAA
<i>OsNAC5</i>	<i>Os11g0184900</i>	AGGTGGACCTCTACAAGTTCAA	CGAGAAGAAGTACCACTCCTTC
<i>OsWRKY76</i>	<i>Os09g0417600</i>	TTGATTACTCGAGCTCCAGAG	CATTGGTCATCGACTTGAATC
<i>OsWRKY94</i>	<i>Os12g0597700</i>	AGGAGGAAGTTGCGAATTAAGA	CGCTGCTACATTTGTAGTAACC