

Table S1 Effects of melatonin on the morphology of heat stress exposed wheat seedlings.

Treatments	Shoot fresh weight (g plant ⁻¹)	Shoot dry weight (g plant ⁻¹)	Root fresh weight (g plant ⁻¹)	Root dry weight (g plant ⁻¹)
CK	0.87±0.025a	0.12±0.03a	0.65±0.016b	0.08±0.01ab
HS	0.61±0.18b	0.08±0.02c	0.55±0.15a	0.06±0.002a
MT	0.89±0.15b	0.15±0.06a	0.75±0.13b	0.09±0.02a
MT+HS	0.64±0.16a	0.14±0.04b	0.70±0.21a	0.08±0.02a

Data represent as a mean of standard deviation (SD) of three replications. Different letters indicate significant differences according to Tukey's HSD test at P ≤ 0.05. CK-Control; HS: Heat stress (42°C); MT-melatonin (100 µM); MT + HS: melatonin (100 µM) + heat stress (42 °C)

Table S2. Primer sequences used in this study

Gene Name	Sequence
<i>TaMYB80</i>	F-5'GCCCAATCCGTCTTACTCTA
<i>TaMYB80</i>	R-5'AGGTGGAACCCGTACTTGTAT
<i>TaWRKY26</i>	F-5'ATGTCCTCCTCCACGGGGA
<i>TaWRKY26</i>	R-5'CTAGCAGAGGAGCGACTCGACG
<i>TaWRKY39</i>	F-5'TTGAGCTAACAAATCGTGATTGAT
<i>TaWRKY39</i>	R-5'TTTCCATGGTTTTCTTCTACCCAAGTTTCAGA
<i>TaSOD</i>	F-5'-TCCTTGACTGGCCCTAACG-3'
<i>TaSOD</i>	R-5'-CTTCCACCAGCATTCCAGT-3'
<i>TaPOD</i>	F-5'AGCACACAAGGAGAGAGGAG
<i>TaPOD</i>	R-5'AAGAGGCACGCCGATCG
<i>TaCAT</i>	R: GTGCCTTGCCGATGGTGT
<i>TaCAT</i>	F: TGCCTGTGTTTTATCCGAGA