

Supplementary Material

Comparative transcript abundance of gibberellin oxidases genes in two barley (*Hordeum vulgare*) genotypes with contrasting lodging resistance under different regimes of water deficit

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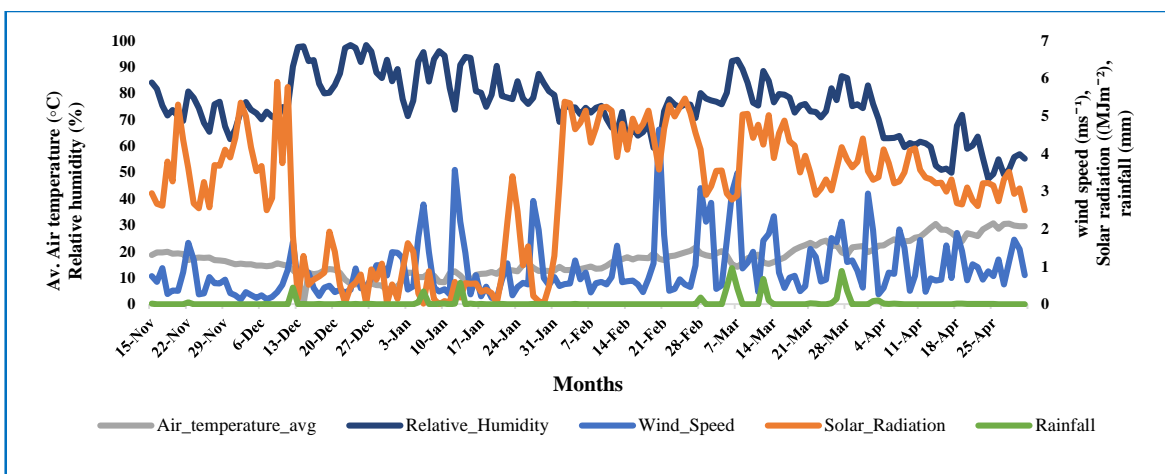


Fig. S1: Daily average climatic parameters during barley growing season 2019-20. Maximum rainfall was recorded 6.08 mm during 1st week of march and the maximum wind speed of 4.63m/s was observed in the last week of February.

Table S1: List of primers sequences of *HvGA20ox*, *HvGA3ox* and *HvGA2ox* transcripts in barley.

Primer	Original ID.	CDS size	Annealing temperature (°C)	5'F	5'R
<i>HvGA20ox.1</i>	HORVU3Hr1G090980.3	1245	59	ATGGTGCTCCAGACCGCTCA	TCAGGCCGCTCCTGGCCGA
<i>HvGA20ox.2</i>	HORVU3Hr1G090980.1	267	62	ATGCAGGCTCTGTGCAACGG	TCAGGCCGCTCCTGGCCGAGGA
<i>HvGA3ox.5</i>	HORVU3Hr1G022840.6	933	59	ATGCCGACGCCGTCGCACCTGAGC	AATTGCACCCGCCGCC
<i>HvGA2ox.2</i>	HORVU1Hr1G029520.1	204	57	ATGGTGAACAACATCCAACCG	CTAGTTGGTGGTCTCGAAGTGGCA
<i>UBQ5</i>	XM_015783851.1 NCBI	773	57	ATGCAGATCTTCGTGAGACC	CTAGGCCTTCTGGTTGTAGA

Table S2: List of reagents and their quantity used in semi-qPCR.

Chemical Reagent	Quantity
Template (cDNA)	1.0µl (40 ng)
Primer F (1:10)	0.5µl (2.5 mM)
Primer R (1:10)	0.5µl (2.5 mM)
Magnesium Chloride (MgCl ₂)	1.6µl (mM)
dNTP Mix 10 mM	1µl (10 mM)
Buffer (10x)	2µl
Taq Polymerase 5U/µl	0.2µl (5U/L)
Water	8.2 µl
Total Volume	15 µl

Table S3: Semi-qPCR conditions

Sr. No.	Steps	Temperature (°C)	Duration	Cycles
01	Initial Denaturation	94	04:00 min	36 cycles
02	Denaturation	94	00:30 s	
03	Annealing	Primer specific	01:00 min	
04	Extension	72	01:00 min	
05	Final Extension	72	05:00 min	