

Table S3. Original real-time quantitative qRT-PCR data of JA-treated tomato plants are shown as relative expression of *SIJAZ/SITUB*. Values are the average of three replicates; standard deviation is also reported. The log(10) transformation values are shown below.

Chini et al., PONE-D-17-04489

Identification of *TIFY/JAZ* family genes in *Solanum lycopersicum* and their regulation in response to abiotic stresses

Relative expression (average)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.02	1.00	1.00	1.00	1.01	1.00	1.00
12h	39.10	10.65	0.81	15.93	15.71	1.27	0.34	13.74
24h	38.98	7.85	0.53	12.41	17.80	1.31	0.25	21.26
48h	20.87	5.29	0.51	8.99	16.45	1.56	0.21	35.10
72h	13.64	2.80	0.49	8.55	4.64	2.62	0.20	31.27

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.09	1.00	1.00	1.00	1.00	1.00	1.00
12h	6.70	4.01	0.63	9.09	11.33	0.68	0.56	0.47
24h	4.70	3.97	0.56	4.24	10.08	0.39	0.60	0.45
48h	1.11	2.20	0.46	3.46	5.64	0.98	0.68	0.47
72h	1.10	1.16	0.34	3.29	5.27	1.04	0.71	0.44

Standard Deviation (Relative expression)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.06	0.25	0.02	0.06	0.08	0.15	0.08	0.06
12h	0.10	0.08	0.09	0.06	0.08	0.04	0.04	0.05
24h	0.18	0.07	0.06	0.04	0.18	0.05	0.06	0.07
48h	0.15	0.07	0.07	0.06	0.09	0.08	0.04	0.07
72h	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.07	0.56	0.09	0.09	0.08	0.04	0.04	0.08
12h	0.08	0.09	0.02	0.06	0.08	0.06	0.09	0.03
24h	0.06	0.07	0.02	0.06	0.18	0.08	0.04	0.01
48h	0.04	0.05	0.05	0.04	0.09	0.05	0.04	0.09
72h	0.07	0.04	0.08	0.06	0.07	0.03	0.08	0.09

log10-transform vales

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12 h	1.59	1.03	-0.09	1.20	1.20	0.10	-0.47	1.14
24 h	1.59	0.90	-0.28	1.09	1.25	0.12	-0.60	1.33
48 h	1.32	0.72	-0.29	0.95	1.22	0.19	-0.68	1.55
72 h	1.13	0.45	-0.31	0.93	0.67	0.42	-0.69	1.50

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
12 h	0.83	0.60	-0.20	0.96	1.05	-0.17	-0.25	-0.33
24 h	0.67	0.60	-0.26	0.63	1.00	-0.41	-0.22	-0.34
48 h	0.05	0.34	-0.34	0.54	0.75	-0.01	-0.17	-0.33
72 h	0.04	0.06	-0.47	0.52	0.72	0.02	-0.15	-0.36

Table S3. Original real-time quantitative qRT-PCR data of ABA-treated tomato plants are shown as relative expression of *SIJAZ/SITUB*. Values are the average of three replicates; standard deviation is also reported. The log(10) transformation values are shown below.

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Identification of *TIFY/JAZ* family genes in *Solanum lycopersicum* and their regulation in response to abiotic stresses

Relative expression (average)								
root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.01	1.00	1.03	1.00	1.00
12h	0.70	0.63	2.44	0.53	1.04	1.42	1.56	1.96
24h	0.66	0.63	4.87	0.48	1.61	1.44	1.65	2.88
48h	0.58	0.60	2.28	0.44	2.31	1.60	2.22	4.70
72h	0.53	0.32	1.88	0.32	1.18	4.71	3.07	4.27

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12h	0.64	1.07	0.59	1.19	15.49	0.80	1.04	1.69
24h	0.32	0.96	0.49	0.90	17.16	1.39	1.52	1.82
48h	0.26	0.88	0.49	0.75	11.13	1.52	1.57	2.26
72h	0.26	0.31	0.45	0.72	7.09	0.61	2.90	4.99

Standard Deviation (Relative expression)								
root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.06	0.07	0.07	0.05	0.08	0.08	0.03	0.06
12h	0.01	0.04	0.08	0.08	0.07	0.03	0.08	0.06
24h	0.03	0.09	0.05	0.05	0.06	0.09	0.07	0.04
48h	0.07	0.07	0.06	0.08	0.09	0.07	0.02	0.02
72h	0.05	0.05	0.07	0.06	0.09	0.03	0.02	0.04

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.08	0.08	0.03	0.07	0.07	0.03	0.04	0.07
12h	0.02	0.07	0.07	0.06	0.08	0.06	0.04	0.03
24h	0.06	0.08	0.03	0.03	0.04	0.04	0.03	0.05
48h	0.03	0.08	0.04	0.08	0.10	0.08	0.07	0.07
72h	0.06	0.03	0.04	0.09	0.07	0.07	0.07	0.08

log10-transform vales								
root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
12 h	-0.15	-0.20	0.39	-0.28	0.02	0.15	0.19	0.29
24 h	-0.18	-0.20	0.69	-0.32	0.21	0.16	0.22	0.46
48 h	-0.24	-0.22	0.36	-0.36	0.36	0.20	0.35	0.67
72 h	-0.28	-0.49	0.27	-0.49	0.07	0.67	0.49	0.63

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 h	-0.20	0.03	-0.23	0.07	1.19	-0.10	0.02	0.23
24 h	-0.50	-0.02	-0.31	-0.04	1.23	0.14	0.18	0.26
48 h	-0.59	-0.05	-0.31	-0.13	1.05	0.18	0.19	0.35
72 h	-0.59	-0.51	-0.35	-0.14	0.85	-0.22	0.46	0.70

Table S3. Original real-time quantitative qRT-PCR data of NaCl-treated tomato plants are shown as relative expression of *SIJAZ/SITUB*. Values are the average of three replicates; standard deviation is also reported. The log(10) transformation values are shown below.
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Identification of *TIFY/JAZ* family genes in *Solanum lycopersicum* and their regulation in response to abiotic stresses

Relative expression (average)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.00
12h	0.47	1.03	1.98	0.79	1.61	0.66	0.72	1.45
24h	0.26	0.59	1.88	0.63	1.72	0.69	0.62	1.45
48h	0.19	0.58	1.60	0.48	2.23	1.23	0.59	1.56
72h	0.14	0.26	1.35	0.30	2.46	1.62	0.53	1.63

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12h	1.57	4.66	0.79	0.82	14.45	0.67	1.80	1.02
24h	0.33	3.30	0.71	0.42	9.78	0.66	1.96	1.05
48h	0.30	3.28	0.63	0.31	2.96	1.18	2.62	1.15
72h	0.16	0.87	0.54	0.21	2.83	1.41	2.48	1.46

Standard Deviation (Relative expression)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.06	0.07	0.09	0.06	0.08	0.08	0.03	0.06
12h	0.08	0.08	0.08	0.09	0.03	0.04	0.06	0.08
24h	0.01	0.02	0.05	0.01	0.06	0.08	0.08	0.04
48h	0.03	0.07	0.06	0.08	0.09	0.08	0.01	0.06
72h	0.09	0.05	0.06	0.03	0.05	0.08	0.02	0.04

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.08	0.08	0.03	0.09	0.07	0.03	0.04	0.07
12h	0.03	0.08	0.07	0.06	0.08	0.07	0.05	0.07
24h	0.02	0.05	0.03	0.05	0.02	0.03	0.04	0.06
48h	0.01	0.05	0.04	0.09	0.08	0.08	0.08	0.03
72h	0.02	0.05	0.04	0.01	0.09	0.07	0.06	0.08

log10-transform vales

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
12 h	-0.33	0.01	0.30	-0.10	0.21	-0.18	-0.15	0.16
24 h	-0.58	-0.23	0.27	-0.20	0.23	-0.16	-0.21	0.16
48 h	-0.73	-0.24	0.20	-0.32	0.35	0.09	-0.23	0.19
72 h	-0.86	-0.59	0.13	-0.52	0.39	0.21	-0.28	0.21

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 h	0.20	0.67	-0.10	-0.09	1.16	-0.18	0.25	0.01
24 h	-0.48	0.52	-0.15	-0.37	0.99	-0.18	0.29	0.02
48 h	-0.52	0.52	-0.20	-0.50	0.47	0.07	0.42	0.06
72 h	-0.81	-0.06	-0.27	-0.68	0.45	0.15	0.39	0.16

Table S3. Original real-time quantitative qRT-PCR data of mannitol-treated tomato plants are shown as relative expression of *SIJAZ/SITUB*. Values are the average of three replicates; standard deviation is also reported. The log(10) transformation values are shown below.
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Relative expression (average)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.00	1.00	1.03	1.00	1.00
12h	0.53	0.46	0.56	0.86	1.73	0.36	0.31	1.75
24h	0.21	0.37	0.48	0.73	1.74	0.37	0.39	0.82
48h	0.15	0.31	0.85	0.48	1.72	0.82	0.39	0.82
72h	0.13	0.19	0.93	0.25	1.76	0.84	0.21	0.73

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12h	1.02	0.84	2.51	1.12	2.28	2.48	0.55	0.38
24h	0.39	0.79	1.73	1.12	2.75	1.94	0.35	0.39
48h	0.36	0.36	0.59	1.10	7.62	1.85	0.32	0.66
72h	0.33	0.32	0.28	1.11	6.99	1.38	0.24	0.77

Standard Deviation (Relative expression)

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.06	0.07	0.09	0.06	0.08	0.08	0.03	0.06
12h	0.02	0.06	0.03	0.02	0.05	0.06	0.07	0.03
24h	0.03	0.09	0.05	0.05	0.04	0.09	0.09	0.02
48h	0.03	0.09	0.03	0.01	0.05	0.02	0.01	0.03
72h	0.05	0.03	0.04	0.02	0.05	0.09	0.04	0.01

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
Control	0.08	0.08	0.03	0.09	0.07	0.03	0.04	0.07
12h	0.08	0.04	0.07	0.03	0.03	0.04	0.05	0.02
24h	0.04	0.08	0.03	0.05	0.06	0.05	0.02	0.04
48h	0.03	0.07	0.09	0.03	0.06	0.07	0.02	0.01
72h	0.09	0.07	0.03	0.05	0.06	0.08	0.04	0.04

log10-transform vales

root	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
12 h	-0.27	-0.34	-0.25	-0.07	0.24	-0.44	-0.52	0.24
24 h	-0.69	-0.44	-0.32	-0.14	0.24	-0.43	-0.41	-0.09
48 h	-0.82	-0.51	-0.07	-0.32	0.24	-0.08	-0.41	-0.09
72 h	-0.87	-0.71	-0.03	-0.60	0.24	-0.08	-0.67	-0.14

Leaves	SIJAZ1	SIJAZ3	SIJAZ5	SIJAZ6	SIJAZ7	SIJAZ9	SIJAZ10	SIJAZ11
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 h	0.01	-0.08	0.40	0.05	0.36	0.39	-0.26	-0.42
24 h	-0.41	-0.10	0.24	0.05	0.44	0.29	-0.46	-0.41
48 h	-0.44	-0.44	-0.23	0.04	0.88	0.27	-0.49	-0.18
72 h	-0.49	-0.49	-0.56	0.04	0.84	0.14	-0.63	-0.11