

Table S1. Changes in the ration of variable and minimal fluorescence (Fv/F0) during the growing season in different parts of the leaves (with mean \pm standard error)

Days after forcing	Location A (30 mm from the tip)		Location B (65 mm from the tip)		Location C (100 mm from the tip)		Location D (135 mm from the tip)		Location E (170 mm from the tip)	
<i>N. pseudonarcissus</i> ‘Dutch Master’										
17	nm		5.03±0.08	a	nm		nm		nm	
21	nm		4.72±0.06	b	nm		nm		nm	
27	nm		4.76±0.05	b	nm		nm		nm	
35	4.85±0.08	aA	4.63±0.10	bB	4.64±0.10	aB	4.58±0.16	aB	nm	
40	4.58±0.05	bC	4.64±0.05	bBC	4.71±0.06	aAB	4.74±0.06	abA	4.8±0.06	aA
49	4.59±0.05	bB	4.63±0.05	bB	4.67±0.06	aB	4.80±0.04	abA	4.8±0.06	aA
56	4.33±0.05	cC	4.40±0.05	cBC	4.47±0.07	bB	4.59±0.05	abA	4.65±0.05	bA
62	3.85±0.25	dD	4.12±0.18	dCD	4.28±0.14	bcBC	4.44±0.08	abB	4.65±0.10	bA
69	4.25±0.08	cC	4.55±0.15	cB	4.46±0.11	cB	4.65±0.07	abA	4.74±0.06	bA
76	3.65±0.1	dD	3.94±0.12	cC	4.20±0.09	bcB	4.46±0.08	abA	4.51±0.08	abA
82	2.98±0.34	eC	4.02±0.10	cB	4.14±0.10	bcAB	4.18±0.09	cAB	4.29±0.08	cA
91	2.81±0.43	eB	3.60±0.14	dA	3.63±0.17	eA	3.71±0.14	dA	3.83±0.11	dA
Trend curve equation and fit strength	y = -0.0006x ² + 0.0375x + 4.025 R ² = 0.902		y = -0.0002x ² + 0.0134x + 4.4932 R ² = 0.7903		y = -0.0003x ² + 0.0215x + 4.3033 R ² = 0.8994		y = -0.0005x ² + 0.0498x + 3.5373 R ² = 0.8907		y = -0.0006x ² + 0.0567x + 3.3618 R ² = 0.928	
<i>N. poeticus</i> :										
16	5.11±0.03	aA	5.08±0.04	aA	5.13±0.04	aA				
22	4.99±0.05	aB	5.00±0.04	aB	5.03±0.05	aAB	5.10±0.03	aA	5.01±0.03	aB
29	4.92±0.03	aD	4.99±0.04	aC	5.11±0.04	aA	5.14±0.04	aA	4.98±0.09	aB
35	4.67±0.04	bC	4.81±0.04	bB	4.95±0.05	aA	4.95±0.03	aA	4.92±0.04	aA
42	4.77±0.10	bC	4.89±0.09	abB	5.05±0.11	aAB	5.04±0.10	aAB	5.08±0.08	aA
48	4.39±0.12	cC	4.63±0.06	abB	4.68±0.09	bAB	4.80±0.09	bA	4.71±0.08	bAB
57	4.02±0.13	dB	4.52±0.11	bcA	4.60±0.13	bA	4.67±0.13	bA	4.52±0.16	abA
64	3.91±0.34	dB	4.45±0.13	bcA	4.42±0.18	bcA	4.58±0.13	bA	4.39±0.20	cAB
70	3.62±0.16	deB	4.07±0.12	dA	4.18±0.13	bcA	4.24±0.14	cA	4.20±0.24	dA
77	3.33±0.24	eB	4.02±0.14	dA	4.22±0.16	bcA	4.34±0.23	cA	4.20±0.24	cA
85	2.37±0.33	fC	3.68±0.15	eB	4.01±0.15	bcA	4.13±0.18	cA	4.03±0.15	cA
92	2.20±0.26	fC	3.27±0.12	fB	3.59±0.11	bcA	3.61±0.13	dA	3.60±0.18	eA
Trend curve equation and fit strength	y = -0.0005x ² + 0.0139x + 4.894 R ² = 0.9747		y = -0.0003x ² + 0.0111x + 4.8956 R ² = 0.9876		y = -0.0002x ² + 0.0009x + 5.1707 R ² = 0.9685		y = -0.0002x ² + 0.0062x + 5.0888 R ² = 0.9647		y = -0.0002x ² - 0.0013x + 5.1749 R ² = 0.9322	

next to the mean and standard deviation, the different letters represent the difference between the cultivars or the treatment solution at the $p < 0.05$ level. different lower-case letters: significant difference between the measuring dates in the same location; different capital letters: significant difference between the measuring places on the leaf in the same day. nm= not measurable in non-destructive way

Table S2. Change of relative chlorophyll content (CCI) during the growing season in different parts of the leaves (with mean \pm standard error)

Days after forcing	Location A (30 mm from the tip)		Location B (65 mm from the tip)		Location C (100 mm from the tip)		Location D (135 mm from the tip)		Location E (170 mm from the tip)	
<i>N. pseudonarcissus</i> ‘Dutch Master’										
17	nm		92.84±3.07	bc	nm		nm		nm	
21	nm		101.55±2.22	ab	nm		nm		nm	
27	nm		115.93±4.54	a	nm		nm		nm	
35	82.11±4.59	bAB	92.24±3.00	bcB	98.48±3.52	abAB	107.23±5.43	aA	nm	
40	106.79±2.72	aA	100.79±2.36	abAB	100.83±3.33	abA	89.06±2.75	aC	88.06±6.02	aC
49	107.16±5.96	aA	102.42±4.11	abAB	100.52±3.86	abAB	94.93±4.18	bB	83.75±4.22	bcC
56	107.24±5.83	aA	111.13±2.85	aA	107.70±3.23	aA	106.44±4.95	bA	92.70±5.09	aB
62	93.21±9.79	abA	98.96±7.99	abA	94.65±5.13	abA	89.42±4.76	bcA	82.53±4.18	bcB
69	99.48±5.69	aAB	107.82±4.96	abA	103.88±3.70	aAB	95.63±5.17	bcB	79.81±6.11	bcC
76	73.74±5.01	cB	92.74±4.93	bcA	94.84±5.08	abA	81.25±4.17	cB	72.10±5.64	cdB
82	70.72±4.22	cBC	82.40±3.08	dA	77.53±2.83	cAB	67.67±3.71	dC	57.58±3.61	eD
91	26.82±7.57	dA	36.43±7.40	eA	38.71±6.06	dA	35.94±4.60	eA	30.88±3.60	fA
Trend curve equation and fit strength	y = -0.0454x ² + 4.5249x - 3.9921 R ² = 0.9521		y = -0.0568x ² + 6.4224x - 70.509 R ² = 0.9194		y = -0.0503x ² + 5.6019x - 48.113 R ² = 0.9087		y = -0.051x ² + 5.7095x - 59.138 R ² = 0.9541		y = -0.0372x ² + 3.8644x - 10.227 R ² = 0.9681	
<i>N. poeticus</i> :										
16	87.08±4.82	aA	72.82±3.13	bcB	68.68±4.00	b				
22	63.34±6.65	bBC	83.39±4.31	aA	78.01±3.52	aA	69.51±3.37	aB	61.24±4.77	aC
29	64.94±5.24	bBC	77.09±5.35	aA	70.37±4.44	bAB	69.03±4.47	aAB	58.22±4.04	aC
35	59.14±5.83	bC	77.09±4.54	aA	80.74±4.34	aA	70.36±3.70	aB	60.72±3.94	aC
42	53.39±4.99	cdB	56.51±4.89	dB	66.28±3.77	bA	51.31±3.68	dB	52.63±4.26	aB
48	56.06±4.94	bcCD	72.88±4.44	bcA	69.39±3.19	bAB	64.74±3.06	aBC	53.09±3.92	aD
57	53.42±4.36	bcC	59.79±5.11	dABC	65.71±3.30	bA	61.53±3.26	bcAB	54.88±3.69	aBC
64	51.04±3.87	cdA	52.18±4.39	dA	52.88±5.00	cA	47.66±3.85	dA	40.43±3.37	deB
70	41.97±3.69	eAB	54.29±3.52	dA	58.70±3.66	cA	54.31±3.46	dA	44.62±4.36	bcB
77	34.74±3.86	fC	50.03±5.09	eAB	55.24±5.12	cA	48.07±4.15	dAB	44.62±4.36	bcB
85	26.76±4.68	gC	36.01±3.32	fB	44.18±3.18	dA	43.71±3.59	deA	40.25±3.05	deA
92	9.23±1.38	hC	11.85±1.65	gB	15.49±2.29	eAB	16.81±2.02	fA	18.86±2.18	fA
Trend curve equation and fit strength	y = -0.0127x ² + 0.7187x + 51.882 R ² = 0.9684		y = -0.0104x ² + 0.3361x + 75.717 R ² = 0.8789		y = -0.0139x ² + 0.8565x + 61.716 R ² = 0.8765		y = -0.0149x ² + 0.9745x + 58.341 R ² = 0.8771		y = -0.0082x ² + 0.4455x + 52.892 R ² = 0.8281	

next to the mean and standard deviation, the different letters represent the difference between the cultivars or the treatment solution at the $p < 0.05$ level. different lower case letters: significant difference between the measuring dates in the same location; different capital letters: significant difference between the measuring place on the leaf in the same day.

nm= not measurable