TABLE s1. Regression results for the effects of different climate parametres on leaf morphological traits of *Pancratium maritimum*. Coefficients of independent variables and R^2 of the multiple regression equation, as well as their *P*-values are shown.

Dependent variable[1]	**Summary measures**			**Regression coefficients**		
	R^2	**F**	***P***	**Independente variable**[2]	**β coefficient**	***P***
Leaf thickness						
CBH	0.28	13.63	<0.0001	MAP	-0.18	n.s.
				MAT	-0.95	0.003
				MMT	1.23	<0.0001
ET_{AB}	0.37	20.34	<0.0001	MAP	0.22	n.s.
				MAT	1.73	<0.0001
				MMT	-1.44	<0.0001
IBH	0.28	13.52	<0.0001	MAP	-0.24	n.s.
				MAT	-0.79	0.01
				MMT	1.11	<0.0001
LTE	0.24	11.035	<0.0001	MAP	0.29	0.05
				MAT	0.25	n.s.
				MMT	0.31	n.s.
LTM	0.17	7.45	0	MAP	-0.11	n.s.
				MAT	-0.2	n.s.
				MMT	0.56	0.04
PT_{AB}	0.17	7.09	0	MAP	-0.4	0.01
				MAT	-0.08	n.s.
				MMT	-0.27	n.s.
PT_{AD}	0.21	9.43	<0.0001	MAP	0.093	n.s.
				MAT	-0.65	0.04
				MMT	0.32	n.s.
ST	0.3	15.32	<0.0001	MAP	0.11	n.s.
				MAT	0.09	n.s.
				MMT	0.5	0.05
Stomatal traits						
SD_{AB}	0.11	4.3	0.007	MAP	-0.359	0.02
				MAT	-0.035	n.s.
				MMT	-0.066	n.s.
SD_{AD}	0.24	11.12	<0.0001	MAP	-0.62	<0.0001
				MAT	-0.62	0.05
				MMT	0.094	n.s.
SL_{AB}	0.4	23.74	<0.0001	MAP	-0.38	0.004
				MAT	-0.2	n.s.
				MMT	0.62	0.009
SL_{AD}	0.4	23.81	<0.0001	MAP	0.15	0.03
				MAT	0.33	<0.0001
				MMT	0.38	n.s.
SW_{AB}	0.52	38.17	<0.0001	MAP	-0.44	<0.001
				MAT	0.33	n.s.
				MMT	0.04	n.s.

[1] Subscripts AD and AB: adaxial and abaxial face, respectively; CBH: height of costal bands; ET: thickness of epidermis-cuticle complex; IBH: height of intercostal bands; LTE: total thickness of lamina at edge; LTM: total thickness of lamina at midrib; PT: thickness of palisade cells; SD: stomatal density (N/mm^2); SL: length of stomata; ST: thickness of spongy cells; SW: width of stomata.

[2] MAP: mean annual precipitation; MAT: mean annual temperature; MMT: mean maximum temperature.

TABLE s2. Principal component analysis for twenty-nine (29) leaf morphological treats in *Pancratium maritimum*. Variables with highest loading in each of the principal component are indicated in bold.

Variables[(1)]	**PC1**	**PC2**	**PC3**	**PC4**	**PC5**	**PC6**	**PC7**	**Communality**
CBH	**0.86**	0.15	-0.34	0.02	-0.28	0.02	0.04	0.97
CBN	0.11	-0.47	0.43	**0.6**	-0.43	0.04	-0.1	0.98
CBW	**0.83**	0	-0.28	-0.11	0.05	0.21	-0.34	0.95
CD_{AB}	-0.18	**0.75**	0.31	0	0.29	0.18	-0.3	0.9
CD_{AD}	-0.33	**0.7**	0.37	-0.14	-0.12	-0.11	-0.41	0.96
CL_{AB}	-0.36	-0.16	**0.58**	-0.47	-0.3	0.39	-0.11	0.96
CL_{AD}	**0.67**	0.11	0.26	-0.56	-0.13	0.05	-0.1	0.88
CW_{AB}	0.53	-0.16	**0.78**	0.11	0.26	-0.07	0.06	1
CW_{AD}	0.52	-0.26	**0.74**	0.05	0.28	-0.02	0.12	0.97
ET_{AB}	0.13	-0.4	-0.2	-0.48	**0.61**	-0.26	0.13	0.91
ET_{AD}	0.26	-0.27	0.03	-0.1	**0.76**	-0.33	-0.26	0.9
IBH	**0.93**	0.15	-0.14	0	-0.27	0.11	0.07	1
IBN	0.01	**-0.67**	0.26	0.6	-0.29	-0.01	-0.18	1
IBW	**0.61**	-0.27	0.58	-0.04	0.37	0.13	0.08	0.95
LTE	**0.92**	0.15	-0.13	-0.03	0.04	0.15	-0.13	0.94
LTM	**0.97**	0.13	0.07	0.02	0.07	0.19	0	0.99
PT_{AB}	0.04	0.2	-0.24	-0.52	**0.53**	0.4	0.32	0.92
PT_{AD}	0.13	-0.24	-0.09	-0.04	0	**0.94**	0.07	0.97
SD_{AB}	-0.26	**0.65**	0.54	-0.42	-0.01	0.02	-0.17	0.99
SD_{AD}	-0.54	**0.61**	0.42	-0.28	-0.02	0.03	0.18	0.95
SL_{AB}	0.23	-0.57	0.24	**-0.65**	-0.28	-0.18	0.13	0.99
SL_{AD}	0.37	-0.38	-0.23	**-0.61**	-0.22	-0.44	-0.17	0.98
ST	**0.87**	0.02	0.13	0.09	0.14	0.01	-0.35	0.93
SW_{AB}	0.09	0.04	0.59	**-0.68**	-0.31	-0.18	0.15	0.97
SW_{AD}	-0.2	-0.57	0.25	**-0.61**	-0.28	0.15	-0.05	0.9
VD_{AB}	**0.59**	0.56	-0.29	-0.19	-0.37	-0.18	-0.03	0.95
VD_{AD}	**0.6**	0.49	-0.39	-0.16	-0.29	-0.12	0.29	0.96
VW_{AB}	0.39	0.46	0.43	**0.54**	0.18	-0.2	0.22	0.97
VW_{AD}	0.46	0.3	**0.58**	0.43	-0.21	-0.13	0.33	1
Eigenvalue	8.27	4.81	4.49	4.24	2.77	1.94	1.17	
Variance (%)	28.53	16.59	15.47	14.62	9.55	6.68	4.05	
Cumulative variance (%)	28.53	45.12	60.59	75.21	84.77	91.45	95.49	

[(1)] Subscripts AD and AB: adaxial and abaxial face, respectively; CBH: height of costal bands; CBN: number of costal bands; CBW: width of costal bands; CD: density of epidermis cells (N/mm^2); CL: length of epidermis cells; CW: width of epidermis cells; ET: thickness of epidermis-cuticle complex; IBH: height of intercostal bands; IBN: number of intercostal bands; IBW: width of intercostal bands; LTE: total thickness of lamina at edge; LTM: total thickness of lamina at midrib; PT: thickness of palisade cells; SD: stomatal density (N/mm^2); SL: length of stomata; ST: thickness of spongy cells; SW: width of stomata; VD: distance between primary veins ; VW: width of primary veins.

TABLE s3. Results of discriminant analysis for twenty-nine (29) leaf morphological treats in *Pancratium maritimum*. Data represent the standardized canonical discriminant function coefficients.

Variables[(1)]	**F1**	**F2**	**F3**	**F4**	**Wilks' Lambda**	**F** *
CBH	-0.19	-0.03	0.24	-0.36	0.18	46.49
CBN	0.32	-0.12	0.49	0.15	0.04	253.86
CBW	0.18	0.11	-0.01	0.21	0.11	78.31
CD_{AB}	-0.09	0.24	-0.18	-0.31	0.08	111.44
CD_{AD}	-0.25	-0.08	0.02	-0.5	0.13	68.84
CL_{AB}	0.09	-0.03	-0.15	0.13	0.38	16.35
CL_{AD}	0.11	0.01	0.18	-0.03	0.58	7.1
CW_{AB}	0.67	-0.23	-0.18	-0.24	0.01	1065.89
CW_{AD}	0.61	-0.06	-0.23	0.02	0.01	742.81
ET_{AB}	-0.27	-0.15	-0.67	0.46	0.05	185.28
ET_{AD}	-0.27	-0.30	-0.12	0.43	0.05	194.29
IBH	-0.19	0.35	0.18	-0.02	0.26	27.72
IBN	0.23	-0.35	0.61	0.16	0.02	399.77
IBW	0.35	-0.21	-0.09	0.01	0.03	354.71
LTE	0.2	0.65	0.14	0.25	0.08	108.37
LTM	0.51	0.77	0.17	0.22	0.02	472.96
PT_{AB}	-0.08	0	-0.13	0.03	0.18	44.15
PT_{AD}	-0.25	-0.58	0.12	0.12	0.09	105.37
SD_{AB}	0.26	-0.35	-0.22	-0.28	0.12	69.71
SD_{AD}	0.08	-0.27	0.41	-0.12	0.23	32.79
SL_{AB}	0.21	0.21	0.22	0.06	0.2	40.38
SL_{AD}	-0.11	0.26	0.08	0.11	0.3	22.81
ST	0.22	0.52	0.19	-0.02	0.09	98.56
SW_{AB}	0.06	-0.17	-0.21	0.02	0.11	76.73
SW_{AD}	-0.17	-0.28	-0.19	0.44	0.07	133.88
VD_{AB}	-0.08	0.32	-0.14	0.02	0.11	77.85
VD_{AD}	-0.03	0.3	-0.09	0.05	0.1	84.71
VW_{AB}	-0.24	-0.11	-0.06	-0.26	0.07	126.14
VW_{AD}	0.01	-0.04	-0.09	-0.27	0.14	63.09
Eigenvalue	308.8	124.71	73.82	52.18		
Variance (%)	47.14	19.04	11.27	7.96		
Cumulative variance (%)	47.14	66.17	77.44	85.41		

*All values are significant at p <0.0001

[(1)] Subscripts AD and AB: adaxial and abaxial face, respectively; CBH: height of costal bands; CBN: number of costal bands; CBW: width of costal bands; CD: density of epidermis cells (N/mm^2); CL: length of epidermis cells; CW: width of epidermis cells; ET: thickness of epidermis-cuticle complex; IBH: height of intercostal bands; IBN: number of intercostal bands; IBW: width of intercostal bands; LTE: total thickness of lamina at edge; LTM: total thickness of lamina at midrib; PT: thickness of palisade cells; SD. stomatal density (N/mm^2); SL.: length of stomata; ST: thickness of spongy cells; SW: width of stomata; VD: distance between primary veins ; VW: width of primary veins.

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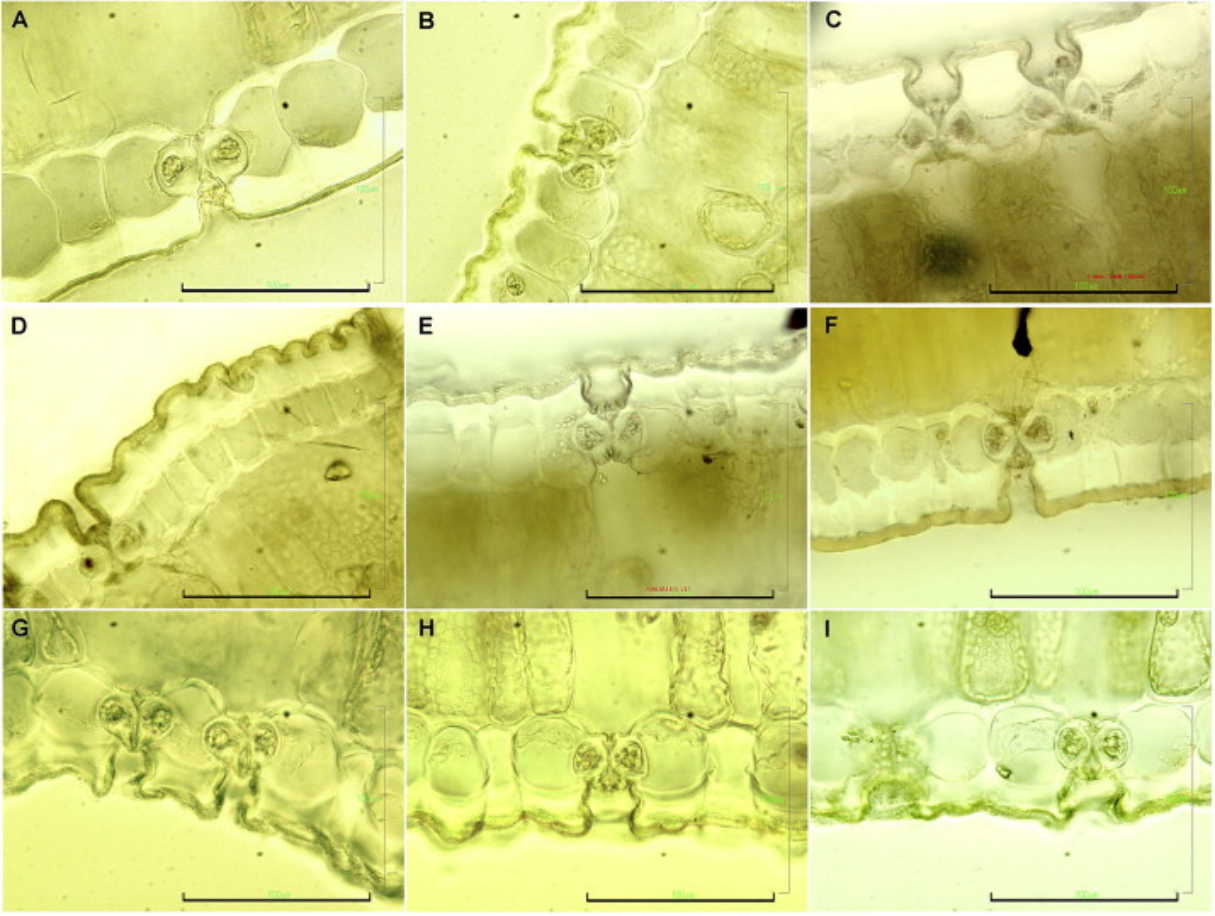
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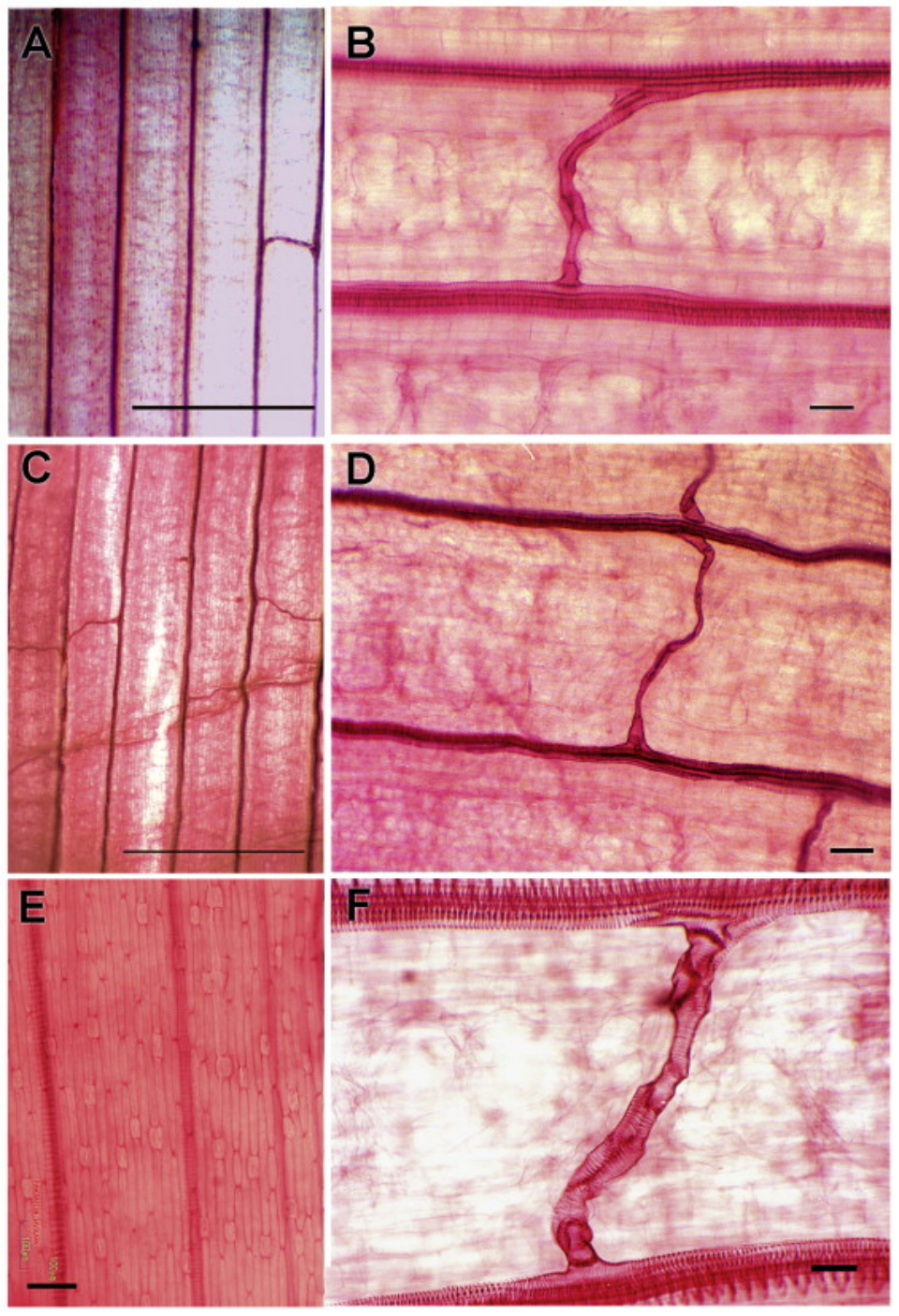
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