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Supplementary Material

Histo-anatomical leaf variations related to depth in *Posidonia oceanica*

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Table S1. Correlations among histo-anatomical characters correlation. In the bottom–left hemimatrix are correlation values (Pearson, r, but for N° Ribs column and line where values are in Sperman, ρ); in the upper–righth hemimatrix are significance values (p)

	N° epi cells C.L.	N° meso cells/ u.m. C.L.	N° meso cells from epi u. to epi l. C.L.	Layers of meso cells from epi to central rib C.L.	Layers of meso cells from epi u. to epi l. C.L.	N° epi cells M.L.	N° meso cells/ u.m. M.L.	N° meso cells from epi u. to epi l. M.L.	Layers of meso cells from epi u. to epi l. M.L.	Layers of meso cells from epi to 5 th rib	N° Ribs
N° epi cells C.L.	0	0.194	0.353	0.058	0.487	0.000	0.037	0.051	0.132	0.058	0.047
N° meso cells/ u.m. C.L.	0.166	0	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.084
N° meso cells from epi u. to epi l. C.L.	0.119	0.873	0	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.025
Layers of meso cells from epi to central rib C.L.	0.240	0.467	0.579	0	0.000	0.043	0.000	0.000	0.000	0.000	0.062
Layers of meso cells from epi u. to epi l. C.L.	0.089	0.678	0.885	0.621	0	0.023	0.000	0.000	0.000	0.000	0.020
N° epi cells M.L.	0.537	0.396	0.342	0.256	0.285	0	0.000	0.000	0.005	0.005	0.002
N° meso cells/ u.m. M.L.	0.264	0.642	0.692	0.583	0.611	0.437	0	0.000	0.000	0.000	0.000
N° meso cells from epi u. to epi l. M.L.	0.247	0.627	0.682	0.586	0.604	0.428	0.999	0	0.000	0.000	0.000
Layers of meso cells from epi u. to epi l. M.L.	0.192	0.619	0.773	0.637	0.759	0.347	0.765	0.753	0	0.000	0.000
Layers of meso cells from epi to 5thrib	0.240	0.594	0.705	0.665	0.726	0.347	0.538	0.532	0.655	0	0.108
N° Ribs	0.251	0.220	0.283	0.237	0.293	0.388	0.462	0.462	0.474	0.204	0

Table S2. Summary statistics of histo-anatomical characters in *P. oceanica*

Variable	Mean	StdDev	Min	Max	Range	Lower ith %tile	Upper ith %tile	-5 m Mean (StdDev)	-15 m Mean (StdDev)	-25 m Mean (StdDev)
N° epi cells C.L	23.4444	2.71066	17	30	13	20	27	22,048 (±2,156)	24,13 (±3,181)	24,158 (±2,089)
N° meso cells/ u.m. C.L.	24.5635	5.88909	15	51	36	18	31	21,262 (±4,742)	25,783 (±6,592)	26,737 (±4,665)
N° meso cells from epi u. to epi l. C.L.	26.0238	8.76597	15	66	51	18	33.6	21,643 (±5,189)	27 (±9,709)	29,684 (±9,043)
Layers of meso cells from epi to central rib C.L.	1.87302	0.683729	1	4	3	1	3	1,524 (±0,602)	2,043 (±0,562)	2,053 (±0,78)
Layers of meso cells from epi u. to epi l. C.L.	4.60317	1.47604	3	11	8	3	6.2	4 (±1,14)	4,652 (±1,229)	5,211 (±1,843)
N° epi cells M.L	21.9365	2.81054	15	30	15	18	25.2	19,524 (±2,205)	23,261 (±2,261)	23 (±2,309)
N° meso cells/ u.m. M.L.	23.3413	4.82084	11	38	27	17.8	29.2	19,69 (±4,214)	25,391 (±4,629)	24,895 (±3,264)
N° meso cells from epi u. to epi l. M.L.	23.373	4.89154	11	38	27	17.8	29.2	19,786 (±4,54)	25,391 (±4,629)	24,895 (±3,264)
Layers of meso cells from epi to 5thrib	1.85714	0.668584	1	4	3	1	2.2	1,619 (±0,74)	2 (±0,522)	1,947 (±0,705)
Layers of meso cells from epi u. to epi l. M.L.	4.12698	0.851792	3	7	4	3	5	3,524 (±0,512)	4,391 (±0,891)	4,474 (±0,772)
N° Ribs	64.127	0.496274	6	7	1	6	7	6,095 (±0,301)	6,478 (±0,511)	6,684 (±0,478)