

## Supplemental material 2: Morphometric data of the biological model

### Learning from plant movements triggered by bulliform cells: the biomimetic cellular actuator

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**Table S1.** Morphometric data measured in leaves of *Sesleria nitida*. Median values (med) with interquartile ranges (IQR), means (mean)  $\pm$  one standard deviation (sd), minima (min) and maxima (max), and the sample sizes ( $n$ ) for each parameter are given.

	med	IQR	mean	sd	min	max	$n$
<b>Chlorenchyma cells</b>							
Major diameter ( $\mu\text{m}$ )	26.93	12.52	28.19	8.03	15.23	44.86	50
Minor diameter ( $\mu\text{m}$ )	19.73	4.81	19.81	4.18	12.93	30.63	50
Aspect ratio (/)	1.46	0.91	1.50	0.56	0.50	2.93	50
Cell wall thickness ( $\mu\text{m}$ )	2.32	0.90	2.42	0.69	1.22	4.47	50
<b>Bulliform cells</b>							
Major diameter ( $\mu\text{m}$ )	49.04	25.73	49.20	18.18	19.71	78.43	19
Minor diameter ( $\mu\text{m}$ )	4.21	4.21	10.13	2.80	5.08	14.41	19
Aspect ratio (/)	4.96	3.11	5.07	1.95	2.07	8.96	19
Abaxial and mediolateral cell wall thickness ( $\mu\text{m}$ )	0.98	0.23	0.98	0.15	0.66	1.29	25
Adaxial cell wall thickness ( $\mu\text{m}$ )	3.16	0.79	3.18	0.45	2.47	4.04	25
<b>Opening angle</b>							
Fresh leaves ( $^\circ$ )	94.52	14.32	90.63	10.91	72.60	109.19	10
Dried leaves ( $^\circ$ )	24.93	29.31	36.30	20.32	18.67	71.50	10