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**Table 1.** Features of the stomata of a selection of bryophytes showing the lack of any clear cut relationships between guard cell numbers, sizes, aperture sizes and genome sizes. The size and numbers data are our own except where indicated otherwise. (1) Temsch *et al.*, 1998; (2) Renzaglia *et al.*, 1995; (3) Voglmayr, 2000; (4) Rensing *et al.*, 2008; (5) Bainard & Villarreal, 2013; (6) Chater *et al.*, 2011; (7) Hartung *et al.*, 1987. NA = Data Not Available.

Taxon	Number/ sporophyte	Size Length x Width	Position	Spacing	Orientation	Pore type	Aperture surface area $\mu\text{m}^2$	Guard cell number	Subsidiary cells	+/- calyptra	1C- value pg
<b>Mosses</b>											
Sphagnales											
<i>Sphagnum palustre</i>	c 400	42.7 $\pm$ 4.2 x 43.2 $\pm$ 6.0	Superficial	Regular	Longitudinal	absent	-	2	-	+	0.92 (1) 0.57 (2)
<i>Sphagnum tenellum</i>	c 200	33.2 $\pm$ 5.1 x 34.7 $\pm$ 6.6	Superficial	Regular	Longitudinal	absent	-	2	-	+	0.47 (1)
Oedipodiales											
<i>Oedipodium griffithianum</i>	c 60	46.8 $\pm$ 7.4 x 36.5 $\pm$ 7.0	Superficial	Regular	Longitudinal	Long	NA	2	+/-	-	NA
Polytrichales											
<i>Atrichum undulatum</i>	0	-	-	-	-	-	-	-	+	+	0.73-1.95 (3)
<i>Polytrichum formosum</i>	180-200	72.4 $\pm$ 8.9 x 48.7 $\pm$ 9.3	Superficial	Irregular	Mainly longitudinal	Long	NA	2 (3,4)	+	+	0.53 (3)
<i>Polytrichum juniperinum</i>	42- <del>49</del> -55	83 $\pm$ 1.2 x 57 $\pm$ 1.1	Superficial	Irregular	Mainly longitudinal	Long	176.6 $\pm$ 12.6	2 (3,4)	+	+	0.42 (3)
Funariales											
<i>Funaria hygrometrica</i>	160 - <del>178</del> - 220	41 $\pm$ 0.74 x 33 $\pm$ 0.59	Superficial	Regular	Longitudinal	Long	90.5 $\pm$ 1.9 [17-29 (6)]	1	+	-	0.40- 0.94 (2,3)

<i>Physcomitrella patens</i>	12-14	29.9 ± 1.1 x 25.1 ± 2.2	Superficial	Slightly irregular	Random	Round	Green 39.4 ± 1.6 Mature 42.2 ± 1.5 [13-17 μm <sup>2</sup> (6)]	1	-	-	0.55 (4)
<b>Bryales</b>											
<i>Mnium hornum</i>	21- <del>30</del> -38	45 ± 0.7 x 41 ± 0.8	Sunken	Slightly irregular	Random	Round	26.2 ± 1.5	2	+	-	0.88 (3) 0.53 (2)
<i>Plagiomnium cuspidatum</i>	60	28-32 x 25-28	Sunken	Slightly irregular	Random	Round	NA	2	+	-	1.3 (3)
<b>Hornworts</b>											
<i>Anthoceros punctatus</i>	Low density 3- 4.5/mm <sup>2</sup>	Large 55 ± 0.7 x 34 ± 0.3	Superficial	Regular	Longitudinal	Long	159.5 ± 8.9	2	-	Inside involucre	0.18 (5)
<i>Phaeoceros laevis</i>	Low density 2.5- 4/mm <sup>2</sup>	Large 67 ± 1.0 x 38 ± 0.6	Superficial	Regular	Longitudinal	Long	242.8 ± 9.2	2	-	Inside involucre	0.24 (5)