

BUDKE, JESSICA M., CYNTHIA S. JONES, AND BERNARD GOFFINET. 2007. Development of the enigmatic peristome of *Timmia megapolitana* (Timmiaceae; Bryophyta). *American Journal of Botany* 94(3): 460-467.

Appendix S1. Quantification of cell wall alignments in the inner peristome layer (IPL) based on published moss peristome studies. Not all of the cells in the IPL of examined section had divided and thus were not scored in our analysis.

Species	Reference	Characterized in study	Number of divisions examined and scored	Aligned	1-33% offset	34-66% offset	Average % offset	Range of % offset	Number of divisions that were not scored
<i>Aphanorrhema serratum</i> (Hook and Wilson) Sull.	Schwartz 1994	Symmetric	7	71.4%	28.6%	-	5%	0-17	5
<i>Bryum bicolor</i> Dicks (= <i>Bryum dichotomum</i> Hedw.)	Shaw et al., 1989a	Asymmetric	8	25.0%	62.5%	12.5%	23.5%	0-40	-
<i>Bryum pseudocapillare</i> Besch.	Shaw et al., 1989a	Asymmetric	14	21.4%	64.3%	14.3%	25.9%	0-36	1
<i>Dicranum scoparium</i> Hedw.	Shaw et al., 1989b	Asymmetric	5	-	20%	80%	39%	33-46	1
<i>Diphyscium foliosum</i> (Hedw.) D. Mohr	Shaw et al., 1987	Asymmetric	8	-	-	100%	43%	35-50	-
<i>Ditrichum pallidum</i> (Hedw.) Hampe	Shaw et al., 1989b	Asymmetric	10	-	20%	80%	40.5%	33-57	3
<i>Funaria hygrometrica</i> Hedw.	Shaw et al., 1989a Schwartz 1994	Symmetric	24	100%	-	-	0%	0	-
<i>Physcomitrium pyriforme</i> (Hedw.) Hampe	Schwartz 1994	Symmetric	9	44.4%	55.5%	-	9%	0-23	6

<i>Schlotheimia rugifolia</i> (Hook.) Schwägr.	Goffinet et al., 1999	Asymmetric	7	-	100%	-	24%	13-29	-
<i>Tetraphis pellucida</i> Hedw.	Shaw and Anderson 1988	Slightly asymmetric	20	-	90%	10%	22%	11-36	4
<i>Trematodon longicollis</i> Michx.	Shaw et al. 1989b	Asymmetric	7	-	-	100%	46%	38-55	1
<i>Ulota crista</i> (Hedw.) Brid.	Goffinet et al. 1999	Clearly Asymmetric	9	-	66.7%	33.3%	25.1%	10-45	2
<i>Ulota hutchinsiae</i> (Sm.) Hammar	Goffinet et al. 1999	Clearly Asymmetric	14	7.1%	92.9%	-	19.8%	0-27	6