

Table S1. Summary showing the pollen grains dimensions (LM) in *Blumea* and *Cyathocline*.

Species	P (μm) (Meant±SD, range)	E (μm) (Meant±SD, range)	P/E (Meant±SD, range)	P*E (Meant±SD, range)	Polar grain shape
<i>Blumea aromatica</i>	20.81±1.44 (18.59–23.66)	21.41±1.46 (18.59–23.31)	0.97±0.05 (0.91–1.09)	329.55±56.83 (356.17–545.91)	Spherical
<i>Blumea balsamifera</i>	16.70±0.91 (14.65–18.59)	15.91±1.19 (14.09–19.16)	1.05±0.06 (0.90–1.12)	231.50±32.28 (222.22–356.13)	Spherical, few triangular
<i>Blumea clarkei</i>	17.43±0.89 (14.65–18.59)	17.15±1.24 (13.75–19.12)	1.0±0.06 (0.89–1.20)	299.60±33.08 (227.26–356.19)	Spherical
<i>Blumea densiflora</i>	18.24±1.12 (16.34–20.2)	18.09±1.19 (16.33–20.00)	1.01±0.05 (0.93–1.08)	300.83±39.13 (266.85–405.64)	Spherical, triangular
<i>Blumea duclouxii</i>	16.03±1.87 (12.53–19.43)	14.47±1.85 (11.50–18.29)	1.11±0.15 (0.89–1.39)	232.00±46.6 (180.37–323.69)	Spherical, few triangular
<i>Blumea eberhardtii</i>	17.67±1.08 (16.06–19.12)	17.53±1.05 (15.94–19.44)	1.01±0.05 (0.87–1.11)	310.37±33.33 (260.27–366.83)	Spherical
<i>Blumea fistulosa</i>	17.09±0.94 (15.21–18.87)	15.94±1.24 (14.65–18.59)	1.08±0.07 (0.95–1.17)	237.33±32.12 (222.81–350.89)	Spherical
<i>Blumea hieraciifolia</i>	18.38±1.10 (17.18–20.85)	17.28±1.54 (14.65–20.85)	1.07±-0.06 (0.98–1.21)	289.90±46.79 (260.00–434.51)	Spherical
<i>Blumea hookeri</i>	19.87±1.41 (16.73–22.82)	18.74±1.21 (16.74–21.11)	1.06±0.04 (1.00–1.16)	373.64±48.25 (280.03–466.83)	Spherical
<i>Blumea lacera</i>	19.72±1.13 (17.53–21.13)	19.03±1.02 (16.90–21.1)	1.04±0.05 (0.96–1.16)	326.97±37.19 (290.41–440.39)	Spherical
<i>Blumea martiniana</i>	21.37±0.94 (19.72–22.82)	20.13±1.05 (18.27–22.31)	1.06±0.06 (0.95–1.13)	430.33±32.00 (366.60–488.79)	Spherical
<i>Blumea megacephala</i>	21.71±1.10 (19.16–23.66)	20.77±1.22 (18.72–22.25)	1.05±0.04 (0.99–1.17)	451.79±45.63 (361.51–514.18)	Spherical
<i>Blumea napifolia</i>	23.69±1.38	23.09±1.30	1.03±0.03	476.85±60.57	Spherical

	(21.13–25.92)	(21.11–25.07)	(0.99 –1.08)	(441.60–664.31)	
<i>Blumea riparia</i>	18.42±0.83 (16.53–19.62)	17.84±1.43 (15.74–20.56)	1.04 -0.08 (0.86–1.14)	328.97±33.93 (276.65–393.88)	Spherical
<i>Blumea repanda</i>	20.00±1.40 (16.93–22.25)	20.06±1.25 (17.47–21.69)	1.00±0.05 (0.89–1.07)	350.00±48.84 (295.23–482.81)	Spherical
<i>Blumea sessiliflora</i>	17.63±1.05 (15.49–19.44)	16.75±1.28 (13.15–18.31)	1.06±0.05 (0.98–1.18)	257.71±37.43 (204.24–330.09)	Spherical
<i>Blumea sinuata</i>	22.27±1.30 (19.72 –24.30)	21.91±1.58 (19.52–23.90)	1.02±0.05 (0.93–1.10)	425.75±60.67 (408.50–609.88)	Spherical
<i>Blumea paniculata</i>	18.32±1.10 (16.90–21.13)	17.84±0.97 (16.73–20.56)	1.03±0.04 (0.94–1.14)	297.86±36.30 (283.31–434.43)	Spherical, few triangular
<i>Blumea virens</i>	20.43±1.41 (18.03–22.82)	19.66±1.40 (17.18–21.41)	1.04±0.06 (0.96–1.17)	403.15±52.43 (350.41–476.57)	Spherical
<i>Cyathocline purpurea</i>	15.64±0.80 (14.14 – 17.13)	15.07±0.97 (13.15 – 16.33)	1.04±0.04 (0.96 – 1.11)	236.24±25.72 (185.94 – 279.78)	Spherical

Note: All the data are measured in LM (400×), P=Polar axis, E=Equatorial diameter.

Table S2. Pollen characters for the species examined in this study by SEM (only great variable characters are shown).

Species	Number of aperture	Spine's length (μm) (Mean, range)	Spines number (Mean, range)	The apices of spines	Interspinular microperforations	Pollen grain shape
<i>Blumea aromatica</i>	3	4.15 (3.61–4.86)	31 (29–32)	blunt	dense	spherical
<i>Blumea balsamifera</i>	3	3.29 (2.71–4.18)	34 (31–37)	blunt	sparse	spherical
<i>Blumea clarkei</i>	3	4.25 (3.83–4.70)	34 (30–37)	acute	dense	spherical
<i>Blumea densiflora</i>	3	2.78 (2.09–3.43)	27 (20–32)	acute	dense	triangular, spherical
<i>Blumea duclouxii</i>	3	3.37 (3.0–3.4)	39 (33–43)	acute	dense	spherical, few triangular
<i>Blumea eberhardtii</i>	3	4.23 (4.05–4.57)	29 (28–30)	acute	sparse	spherical
<i>Blumea fistulosa</i>	3	4.85 (4.22–5.39)	44 (41–49)	blunt	dense	spherical
<i><u>Blumea hieraciifolia</u></i>	3	3.79 (3.39–4.19)	34 (25–42)	blunt	dense	spherical
<i>Blumea hookeri</i>	3	4.38 (4.20–4.61)	29 (26–30)	blunt	dense	spherical
<i>Blumea lacera</i>	3	4.46 (3.47–5.5)	33 (29–37)	acute	sparse	spherical
<i>Blumea martiniana</i>	3	3.75 (3.22–4.46)	32 (28–40)	blunt	dense	spherical
<i>Blumea megacephala</i>	3	4.25 (3.68–5.22)	29 (26–30)	blunt	dense	spherical
<i>Blumea napifolia</i>	3	4.72 (3.57–5.30)	44 (39–58)	blunt	sparse	spherical
<i>Blumea riparia</i>	3	3.93 (3.21–4.35)	26 (23–35)	blunt	dense	spherical
<i>Blumea repanda</i>	3	4.52 (4.03–5.75)	33 (31–36)	acute	sparse	spherical
<i>Blumea sessiliflora</i>	3	3.20 (2.51–3.48)	34 (28–37)	blunt	sparse	spherical
<i>Blumea sinuata</i>	3	5.23 (4.47–6.13)	67 (62–79)	acute	dense	spherical
<i>Blumea paniculata</i>	3	3.91 (3.33–4.41)	40 (35–44)	blunt	dense	spherical
<i>Blumea virens</i>	3	4.07 (3.60–4.64)	33 (30–36)	blunt	dense	spherical
<i>Cyathocline purpurea</i>	3	4.23 (3.46–4.56)	24 (21–28)	acute	dense	spherical

Note: All the values calculated based on the measured mean value magnified by 8400 times.