

- 21a. Grains elliptic, with a short colporate aperture on each psilate face, the edges of each face and the apices with a distinct (homobrochate) textured ornamentation. (~ POLYGONUM)
- 21b. Grains otherwise, not featuring a mix of ornamentations independent of the apertures.
- 22a. Ornamentation perforate, the three colpi very short, their longest axis parallel to the equator rather than perpendicular. These colpi often times almost appearing to be slightly raised on an annulus like feature (~ LONICERA)
- 22b. Grains not as described in all aspects of the above.
- 23a. Apertures colporate
- 24a. Outline of grain in equatorial view circular, ornamentation smooth. (~MORPHOTYPE A).
- 24b. Grains otherwise
- 25a Grains distinctly triangular from polar view (go 26)
- 25b Grains elliptic (go 27)
- 26a Grains very large, clearly strongly triangular in cross section. (~ GERANIUM)
- 26b Grains smaller (SIZE), weakly triangular in cross section (~ POTENTILLA/DASIPHORA in part)
- 27a Grains elliptic to weakly circular (~MORPHOTYPE B)
- 27b Grains elliptic, much longer pole to pole than across equator.
- 28a Grains with evident protrusions of the pore, colpi short, scarcely noticeable (~ APIACEAE)
- 23b. Apertures colpate
- 30a Ornamentation psilate (~MORPHOTYPE C).
- 30b Ornamentation otherwise
- 31a Ornamentation homobrochate (~ MORPHOTYPE D)
- 31b Ornamentation otherwise
- 32a. Ornamentation bacculate, grains large, (~LINUM)
- 32b. Ornamentation otherwise
- 33a. Ornamentation of minor cross-corrugated grooves (fossulate) (~CORYDALIS)
- 33b. Ornamentation of scarcely perceptible irregular features (scabrate) (~RANUNCULUS IN PART)

34a: Annula subtending the apertures – making grains appear more or less triangular; Pollen often with viscin threads (ONAGRACEAE)

34b: Apertures not annulate – grains appear more or less circular (~ERICACEAE)

Morphotype A: Trifolium, Lupinus, Glycyrrhiza, Mitella, Geum

Morphotype B: Lupinus, Lathyrus, Potentilla, Androsace, Bistorta, Vicia

Morphotype C: Jeffersonia, Micranthes, Prunus, Delphinium, Androsace, Penstemon, Orthocarpus, Scutellaria, Aquilegia, Castilleja, Draba)

Morphotype D: Salix, Boechera