*Taphrina deformans*, cause of peach leaf curl, produces naked asci on the leaf surface.
Naked asci of *Taphrina deformans* on peach leaf surface
Apothecia of tar spot of maple caused by *Rhytisma acerinum*
Apothecium e.g. *Monilinia* and *Peziza* (hymenium only)
Perithecia e.g. *Venturia inaequalis* cause of apple scab
Perithecia e.g. *Apiosporina morbosa*, cause of black knot of *Prunus*.
Perithecia e.g. *Nectria spp.* cause of perennial canker
Perithecium e.g. *Sordaria*

Sac Fungi

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Powdery mildew affected leaves with cleistothecia

Sac Fungi

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More powdery mildew affected leaves: Gerbera, Rhododendron, Lonicera, Betula
Cleistothecia from leaves with powdery mildews
Lichens: crustose (grow closely appressed to a surface), foliose (thallus is flat and leafy), or fruticose (miniature shrub-like, erect or hanging, branched)
Physcia: note fungal apothecium and green algae cells