

Key to the Genus *Arcangeliella* in California

by Herb Saylor, with modifications by Michael Wood

1. Distribution coastal, in mixed hardwood-coniferous forests **2**
1. Distribution montaine, in mixed hardwood-coniferous forests **3**
 2. Taste acrid; latex white, unchanging and non-staining; peridium of repent filamentous hyphae **A. variegata** Thiers
 2. Taste mild to bitter; latex white and staining tissues pinkish to salmon; peridium a non-gelatinous trichodermium **A. desjardinii** Thiers
3. Gastrocarps smaller than 1 cm; peridial context lacking sphaerocysts **A. saylorii** Thiers
3. Gastrocarps typically larger than 1 cm; peridial context with numerous sphaerocysts **4**
 4. Peridial epicutis an ixocutis with scattered dermatocystidia **A. lactarioides** Zeller
 4. Not as above
4. Gastrocarps typically epigeous to subepigeous **A. crassa** Singer & Smith
4. Gastrocarps totally hypogeous, up to 2.5 cm deep in sandy soil **A. parva** Thiers

References:

Singer, R. & A. H. Smith. (1960). Studies on secotiaceous fungi. IX. The astrogastraceous series. *Mem. Torrey Bot. Club* 21(3): 1-122.

Thiers, H.D. (1984). The Genus *Arcangeliella* Cav. in the Western United States. *Sydowia* 37: 296-308.

Zeller, S.M. (1947). More notes on Gasteromycetes. *Mycologia* 39: 282-312.

Key to *Arcangeliella* in the Western United States

by Dr. H. D. Thiers (*Sydowia* 37: 298)

1. Pileus small, rarely more than 3 cm broad; subalpine; hypogeous; peridium not breaking free from stipe, or only slightly so **2**
1. Pileus 5 cm or more broad; subalpine or coastal; subepigeous to epigeous; peridium typically breaking free from stipe at maturity . . **3**
 2. Basidiospores 5.5-8.2 X 5-5.8µm; pileus rarely more than 1 cm broad, pinkish to orange-pink or pinkish brown **A. saylorii**
 2. Basidiospores 7.5-9.6 X 5.5-7 rim; pileus up to 3 cm broad, white to pale yellow **A. parva**
3. Subalpine; pileus pinkish buff to pinkish cinnamon; stipe often reduced and obscure **A. crassa**
3. Coastal; pileus gray to olive to dark brown; stipe well developed . . **4**
 4. Pileus olive buff to olive with yellow to yellowish spots; taste acrid; tramal plates not stained by latex **A. variegata**
 4. Pileus dark brown to dark olive without yellowish spots; taste mild; tramal plates stained brown to reddish by latex **A. desjardinii**