

= *Scutellinia scutellata* =

*Scutellinia scutellata* , commonly known as the eyelash cup , the Molly eye @-@ winker , the scarlet elf cap , the eyelash fungus or the eyelash pixie cup , is a small saprophytic fungus of the genus *Scutellinia* . It is the type species of *Scutellinia* , as well as being the most common and widespread . The fruiting bodies are small red cups with distinct long , dark hairs or " eyelashes " . These eyelashes are the most distinctive feature and are easily visible with a magnifying glass . The species is common in North America and Europe , and has been recorded on every continent . *S. scutellata* is found on rotting wood and in other damp habitats , typically growing in small groups , sometimes forming clusters . It is sometimes described as inedible , but its small size means it is not suitable for culinary use . Despite this , it is popular among mushroom hunters due to its unusual " eyelash " hairs , making it memorable and easy to identify .

= = Taxonomy = =

*S. scutellata* was first described in 1753 by Carl Linnaeus in his book *Species Plantarum* as *Peziza scutellata* , and it was given its current name by Jean Baptiste Émil Lambotte in *Memoires societe royale des sciences de Liege* in 1887 . It was also named *Patella scutellata* in 1902 . The specific name *scutellata* is from the Latin for " like a small shield " . Common names include the eyelash fungus , the eyelash cup , the scarlet elf cap , the Molly eye @-@ winker and the eyelash pixie cup .

The *Scutellinia* genus is currently placed in the *Pyronemataceae* family . However , genera of the *Pyronemataceae* lack unifying macroscopic or microscopic characteristics ; this lack of uniting characters has led various authors to propose a variety of classification schemes . A 1996 study of British specimens of *Scutellinia* revealed that the species *S. crinita* , originally described as *Peziza crinita* in 1789 by French botanist Jean Baptiste François Pierre Bulliard , was synonymous with *S. scutellata* .

= = Description = =

The fruiting body of *S. scutellata* is a shallow disc shape , typically between 0 @. @ 2 to 1 cm ( 0 @. @ 1 to 0 @. @ 4 in ) in diameter . The youngest specimens are almost entirely spherical ; the cups open up and expand to a disc during maturity . The inner surface of the cup ( the fertile spore @-@ bearing surface , known as the hymenium ) is bright orange @-@ red , while the outer surface ( the sterile surface ) is pale brown . The flesh is red and thin . The outer surface is covered in dark coloured , stiff hairs , measuring up to 1 centimetre ( 0 @. @ 4 in ) in length . At the base , these hairs are up to 40 µm ( 0 @. @ 0016 in ) thick , and they taper towards the pointed apices . The hairs form distinctive " eyelashes " on the margin of the cup that are visible to the naked eye. or easily visible through a magnifying glass . *S. scutellata* is sessile ? it does not have a stalk .

= = = Microscopic features = = =

*S. scutellata* has asci of approximately 300 µm by 25 µm in size , and releases elliptical spores measuring 18 to 19 µm by 10 to 12 µm . The translucent ( hyaline ) ascospores have a rough exterior , ( with very small warts ) and contain small droplets of oil . They are white when present in large numbers , like a spore print . The paraphyses are cylindrical in shape and feature septa partitioning the hypha into distinct cells . Electron microscopy of the top of the ascus has revealed a roughly delimited operculum ( a flap @-@ like covering of the ascus ) and ascostome ( a pore in the apex of the ascus ) , and a subapical ring .

= = Edibility = =

While some list *S. scutellata* as inedible , others list it as having an unknown edibility . David Arora

considers it too small to be of any culinary interest , and it lacks a distinctive smell or taste .

= = Distribution and habitat = =

*S. scutellata* is common in both Europe , where it can be found from late spring to late autumn , and North America , where it fruits in winter and spring . It has also been collected in Cameroon , Colombia , East Asia , India , Iceland , Israel , New Guinea and the Solomon Islands , Russia , and Turkey .

A saprobic species , it grows generally in subalpine regions , fruiting on rotten wood and damp soil , and can also sometimes be found on ashes , wet leaves or bracket fungi . In Alaska it has been found growing on humus in the tundra . A six @-@ year study of the succession of fungal flora appearing on freshly cut stumps of Poplar trees ( *Populus canadensis* ) showed that *S. scutellata* appeared roughly in the middle of the fungal succession ( about 2 ? 4 years after the tree had been cut ) , along with the species *Ascocoryne sarcoides* , *Scutellinia cervorum* , and *Lasiosphaeria spermoides* . When growing on wood , it is often obscured by surrounding moss . Though sometimes found alone , they typically fruit in groups , sometimes forming dense clusters on rotting wood or other plant detritus . Due to its small size , it is often overlooked , but mycologist Vera Evenson has observed that " the discovery of the Eyelash Cup is always a great pleasure " , due to " the beauty of the eyelashes " . Vera McKnight describes it as " a most attractive little fungus " , and claims it is easy to notice due to its bright colouration .

= = Carotenoids = =

The carotenoids are pigmented molecules found naturally in plants , and some types of fungi , including *S. scutellata* . A 1965 study reported the carotenoid composition of this fungus , found to contain a high proportion of monocyclic carotenes ? carotenes with only one cyclohexene ring , such as beta @-@ carotene . Also present were minor amounts of xanthophyll , a molecule structurally related to the carotenes .

= = Similar species = =

Of more than a dozen species of *Scutellinia* , *S. scutellata* is the most common and widespread , though a microscope is required to differentiate between some of them . It is also the type species of the genus . It is differentiated from most other *Scutellinia* by its larger size , and its distinctive " eyelashes " . Although David Arora describes *S. scutellata* as " easily recognizable " , it can be mistaken for *S. umbrarum* ( which has a larger fruiting body and larger spores , as well as having shorter , less obvious hairs ) *S. erinaceus* ( which is slightly smaller , and orange to yellow in colour , with smooth spores ) , *Cheilymenia crucipila* ( which is much smaller , with short , pale hairs and spores lacking oil droplets ) and *Melastiza chateri* , which is bright orange with small brown hairs . The " Pennsylvania eyelash cup " ( *S. pennsylvanica* ) is a smaller North American version that has smaller hairs and spores that are more coarsely warted than *S. scutellata* . *S. barlae* is very similar as well , and can only be reliably distinguished by its roughly spherical ascospores that are typically 17 ? 23 µm in diameter . Species from the *Lamprospora* genus are smaller and hairless . Similar fungi that favour dung over rotting wood include *Cheilymenia coprinaria* , *C. theleboides* , and *Coprobria granulata* while species such as *Anthracobia macrocystis* , *Anthracobia melaloma* , *Trichophaea abundans* , *Pyronema omphalodes* , *Pulvinula carbonaria* and *Pulvinula archeri* are cup fungi that favour burned @-@ over ground .