

## Conservation Status Assessment

**Scientific Name:** *Galerina heterocystis*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G4Q**

**Rank Date:** 3/9/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: PNW collections may represent *G. subclavata* or unnamed species (originally described as *G. heterocystis* var. B by Singer & Smith). Gulden (2010) refers this variety to *G. subclavata* Kühner. Thorough taxonomic revision needed for this complex. Reported (as *heterocystis*) from BC (Ceska 2012). (Gulden, Gro. 2010. *Galerinas* in cold climates. *North American Fungi* 5(5): 125–157. ; Ceska, Oldriska. 2012 (March). A survey of macrofungi on Observatory Hill: Spring 2011 and Winter 2011/2012 (records from Vancouver Island, BC, site are cumulative). By the author)

**Range Extent:** H = >2,500,000 sq km (> 1,000,000 sq mi)

Comments: Found in North America and a couple of known occurrences outside North America (Japan, United Kingdom, Norway). In 2002 assessment Norvell said "Given the taxonomic uncertainty surround this species and the few collections verified from the ISMS 2002 database or verified by Norvell during the S&M evaluation work, GAHE10 should not be ranked at this time. Comments based on concept described in Smith & Singer (1964): "Wide ranging species from North America, South America, Asia, and the West Indies, GAHE10 occurs in mossy areas where graminoid vascular plants are prominent, such as fens and grassy lawns. In Europe reported in rich bog sites with some Sphagnum. [Redhead. 1979]. "a fungal weed" [Roger 1998. pers. comm.]"

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** D = 81 - 300

Comments: According to Index Fungorum, *Galerina heterocystis* and *Galerina clavata* are the same species. There are around 90 *Galerina heterocystis* and 22 *Galerina clavata* occurrences.

**Area of Occupancy:** E = 26-125 4-km<sup>2</sup> grid cells

Comments: Upper range of E. Around 90 to 115 occurrences, mostly in one grid cell each.

**Good Viability:** D = Some (13-40) occurrences with excellent or good viability or ecological integrity

Comments: Around 10 occurrences are located in protected areas. Gordon Bay Provincial Park, Cowichan Garry Oak Reserve, Marble Mountain Wilderness, Wilderness State Park, Tahquamenon Falls State Park, Great Smoky Mountains National Park, Mount Rainier National Park, Quinault Research Natural Area, Big Basin Redwoods State Park. Around 10% of the occurrences are in protected areas. Based on Norvell's comments in 2002 assessment though it seems likely that there are more occurrences, and the protection for any European occurrences is unknown.

**Environmental Sensitivity:** Not Evaluated

Comments: None

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** U = Unknown

Comments:

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Calculated Rank:** G4

**Rank Author:** Caitlin Lawrence

**Rank Reviewer:** Lorelei Norvell; Lindsey Wise

**References:**

No additional references listed.

**Definitions and Resources:**

**Rank Prefixes**

- G Global rank, applied to taxon's full geographic range
- S State rank, applied to taxon's range within the designated state

**Rank Values**

- 1 Critically imperiled
- 2 Imperiled
- 3 Vulnerable
- 4 Apparently secure, uncommon but not rare
- 5 Secure, common, abundant, and widespread

**Suggested citation:**

Oregon Biodiversity Information Center. 2017. Fungi Conservation Status Assessments. Institute for Natural Resources, Portland State University and Oregon State University. Portland, Oregon and Corvallis, Oregon.

More assessments available at <http://inr.oregonstate.edu/orbic/rare-species/ranking-documentation>

Element rank calculator resources at <http://www.natureserve.org/conservation-tools/conservation-rank-calculator>

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