Mushroom Observer

and the Role of Observations

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Who am I?

✦ Naturalist
✦ Citizen Mycologist
✦ Software Professional
✦ Creator of Mushroom Observer
✦ Director of Biodiversity Informatics for EOL
✦ Director of the MBL Center for Library and Informatics
Community-based
Global
Open:
Source
Content
to Change

Clavaria sulcata (Overeem) R.H. Petersen
New Zealand
© 2007 Inski
Mushroom Observer

http://mushroomobserver.org

- Records:
  - Who
  - What
  - Where
  - When
  - Images
  - Notes

Auriscalpium vulgare Gray
California, USA
© 2004 Darvin DeShazer††
Licensing & Data Reuse

File usage

The following pages on the English Wikipedia link to this file:
- Agaricaceae
- Agaricales
- Agaricus
- Agaricus campestris
- List of Agaricaceae genera
- List of Agaricales families
- List of Agaricus species

Global file usage

The following other wikis use this file:
- Usage on ar.wikipedia.org
- Usage on az.wikipedia.org
- Usage on be.wikipedia.org
- Usage on cs.wikipedia.org
- Usage on en.wikipedia.org
- Usage on fr.wikipedia.org
- Usage on ko.wikipedia.org
- Usage on nl.wikipedia.org
- Usage on pl.wikipedia.org
- Usage on pt.wikipedia.org
- Usage on ru.wikipedia.org
- Usage on zh.wikipedia.org

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Automated Data Sharing

Mushroom Observer
Last updated 2 days ago

Mushroom Observer is a collaborative mycology-related website. The community supporting Mushroom Observer is committed to sharing and expanding people's knowledge of Fungi at all levels from beginners to world authorities. Users provide content to the site in the form of observations, species descriptions, discussions, voting and expert review. All copyrighted content on the Mushroom Observer is available under one of the Creative Commons licenses and all source code for the site is open source. Last indexed July 11, 2012
Species Treatments

Diagnostic Description:

**Cap:** 2-10cm wide; usually overlapping or in a row or a rosette; kidney shaped, also described as fan shaped, sometimes fused laterally; can be flat to wavy; multicolored concentric zoning on the upper surface; zones alternate between velvety and smooth; color varies quite a bit, shades of brown, orange, tan, and gray are the most common, and colors alternate light and dark; flesh is leathery, 1-3mm thick; caps are stalkless.

**Pore surface:** whitish-gray; normally 3-5 pores per mm; pores are angular to circular; tubes are 1-2 mm long.

**Spores:** spores 5-6 × 1.5-2um; cylindrical to sausage-shaped; smooth; hyaline. Spore print is white.

**Hyphal system:** trimitic; generative hyphae are thin-walled with clamps, 2.5-3 um in diameter; skeletal hyphae thick-walled, nonseptate, 4-6 um in diameter; binding hyphae are also thick-walled, nonseptate, heavily branched, 2-4 um in diameter.

**Sexuality:** Heterothallic

**Type of rot:** White
Computable Descriptions

Class: SV1235

   EquivalentTo:
   Fungus
   and (hasOverallShape some Shelf)
   and (hasHymenophoreShape some Pored)
   and (hasHymenophoreColor some White)
   and ((hasSurfaceColor some Brown)
        or (hasSurfaceColor some DarkBrown)
        or (hasSurfaceColor some LightBrown)
        or (hasSurfaceColor some Orange)
        or (hasSurfaceColor some Gray))
   and (hasSporePrint some Obtainable)
   and (hasSporePrintColor some White)
   and (hasTaste some Mild)

SubClassOf:
   FungusDescriptiveVernacular
Identifications & Dialog

Proposed Names: [Propose Another Name]  [Update Votes]

<table>
<thead>
<tr>
<th>Proposed Name</th>
<th>User</th>
<th>Community Vote</th>
<th>Your Vote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calvatia indigo</td>
<td>pg_harvey</td>
<td>9% (6)</td>
<td>[Doubtful]</td>
</tr>
<tr>
<td>Bovista indigo</td>
<td>shroomydan</td>
<td>-51% (5)</td>
<td>[Doubtful]</td>
</tr>
</tbody>
</table>

Recognized by sight

For each name listed above select your opinion of how well that name applies to this observation. Select 'Propose Another Name' if you want to suggest another option. See the [How to Use] page for more details on how the votes are tallied.

= Observer’s choice  
= Current consensus

Comments: [Add Comment]

Created: 2011-04-01 14:23:15 EDT (-0400)
By: else
Summary: i love the first of April!
People

✦ “If you treat them as your most important asset, they will return the favor by becoming your most important asset”

✦ Enjoy the struggle, encourage humor
People

- We are generally lazy
- Avoid anonymity & privacy
- Deal carefully with conflicts
- What do we mean by expertise?
- Dealing with garbage
Keeping It Fresh!

✦ Make it easy to find what’s new
✦ Design for change
✦ Adding new features
✦ Computable descriptions
✦ Mobile app

(alpha test tomorrow, Android only)

Erik Lilleskov
http://mushroommapper.org
What is a species?

- Concept: “A group of organisms capable of interbreeding and producing fertile offspring”

- Definition: Type specimen, a name, and a circumscription that is believed to describe the species that specimen belongs to
What is a species?

✧ "Without a sequenced specimen, it’s a rumor."
✧ With one it is still only a hypothesis

*Agaricus subrufescens* Peck
California, USA
© 2002 Nathan Wilson
What is an observation?

✦ Just the Facts
✦ ‘Metadata’: Who, When and Where
✦ Images & Notes
✦ Observed Features
✦ Sequence Data

Digital Photomicrograph of *Amylosporus campbellii* (Berk.) Ryvarden
California, USA
© 2007 Darvin DeShazer†
Summary

People - Observations - Specimens

Phenotypes - Genotypes - Species

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Acknowledgements

✦ Nancy Wilson
✦ Margaret McKinney
✦ David Arora
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✦ Mushroom Observer Community
✦ Jason Hollinger
✦ Marine Biological Laboratory & EOL
✦ and many more...

Cantharellus californicus Arora & Dunham
California, USA
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