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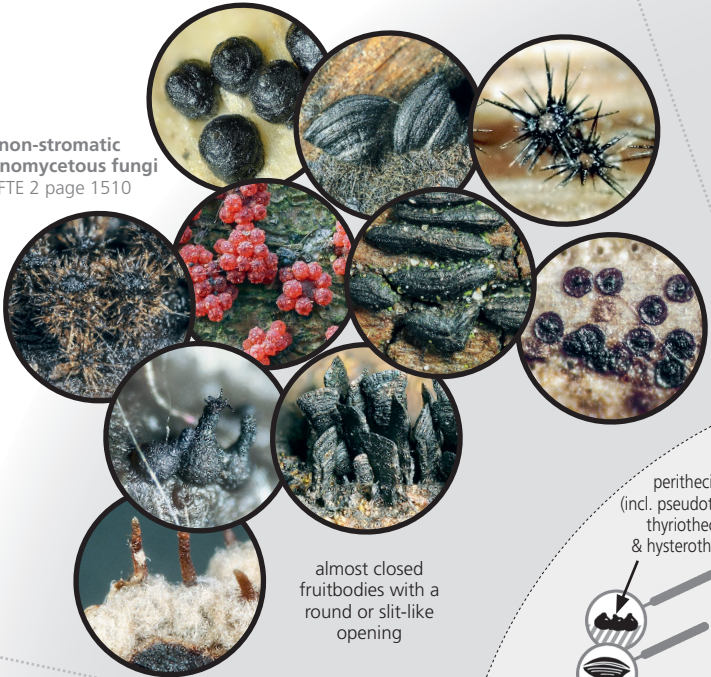
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Form groups with external production and active dispersal of the sexual spores (meiospores) from hymenia are found on the previous page spread, and groups with internal spore production are covered on this page spread.

On this page spread, the groups with spores that are actively released are shown at the upper/left side; the groups with fruitbodies that have passive spore dispersal, or have a powdery or slimy inner spore mass, are represented in the lower/ right side of the wheel. For passive spore dispersal to take place an external force is often required, e.g. rain drops or animal activity.

The wheels here and throughout this publication can be used in various ways. By checking the images in the outer "rim", a quick overview can be obtained of the variation in the fungal groups covered. Images in the pale blue sections (see, e.g., the wheel on p. 44) represent fungi that in some way recall species from the form group covered by the wheel, and which are treated in other wheels in this publication (or in *Fungi of Temperate Europe*, volume 2); the relevant page number is given for ease of cross-referencing. The inner part of the wheel shows other features that could be considered, particularly microscopic characters such as spore morphology (see, e.g., the wheel on page 636).

non-stromatic
pyrenomycetous fungi
FTE 2 page 1510



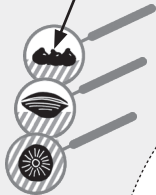
almost closed
fruitbodies with a
round or slit-like
opening

stromatic
pyrenomycetous fungi
FTE 2 page 1510

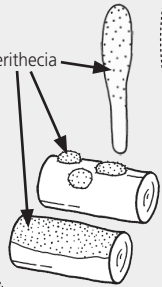


perithecia in a
fleshy structure –
a stroma; surface
dotted with
openings (ostioles)

perithecia
(incl. pseudothecia,
thyriothecia
& hysterothecia)



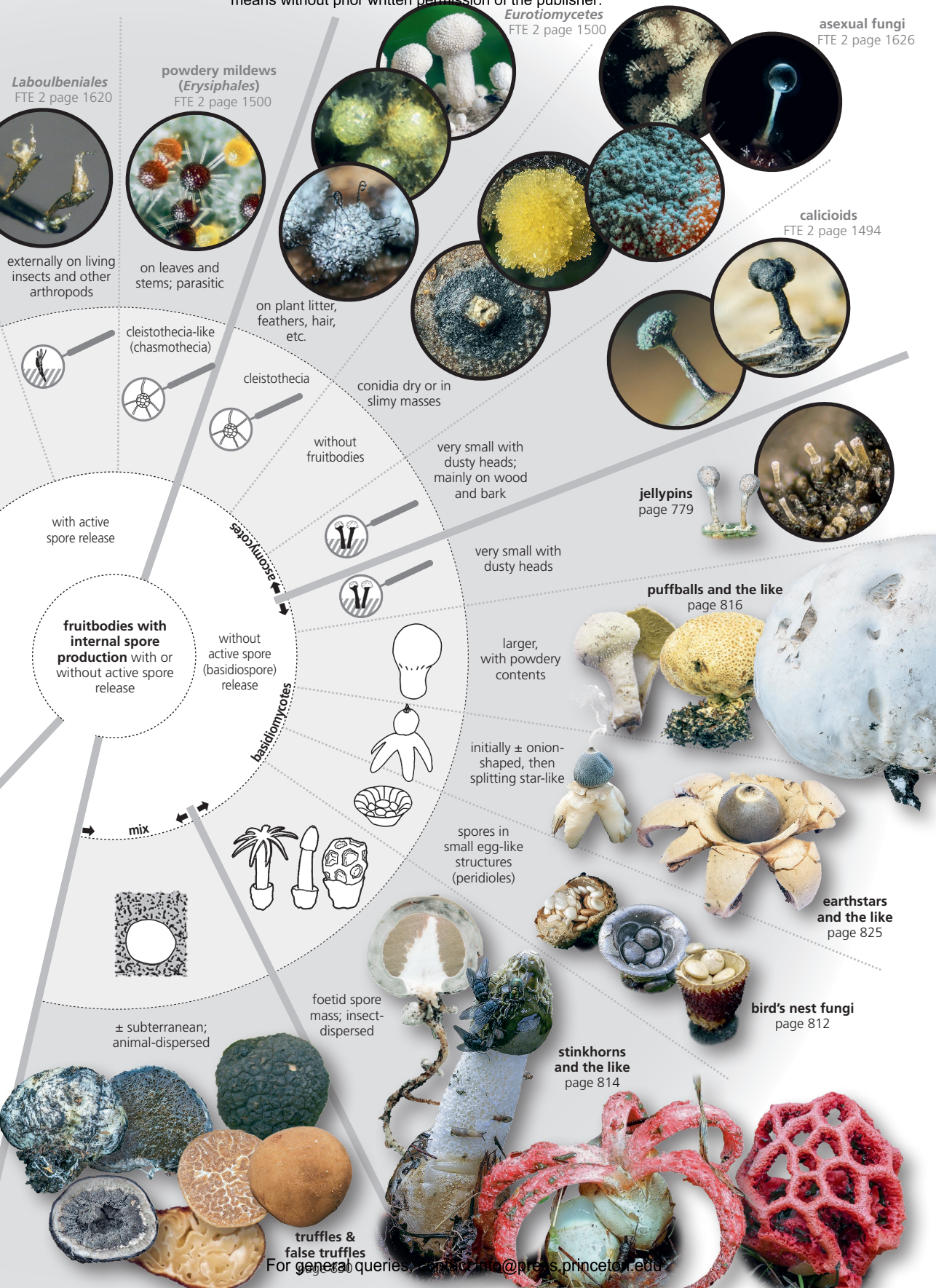
perithecia



ascomyetes

fruitbodies with external
spore production
and active spore release





Key to form groups of fruitbody-forming fungi

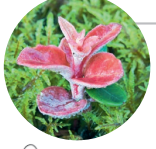
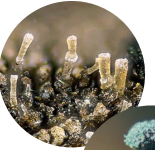
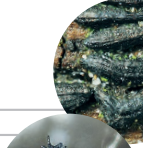
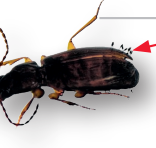
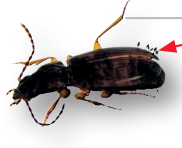
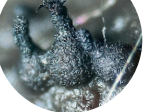
The key covers the form groups as defined in the identification wheels.

Keyed out fruitbody-forming basidiomycotes are marked in **black**, not included groups are **grey**. Identification wheels for the excluded groups are found in the book *Fungi of Temperate Europe*, vol. 2 (FTE).

1. With fruitbodies 2
Without fruitbodies, typically plant parasites 3
2. Fruitbodies with external spore formation **key A**
Fruitbodies with internal spore formation **key B**
3. Spores formed in asci; host mostly showing deformed leaves, fruits or witches' brooms *Taphrinales*, FTE 2 p. 1622
Spores formed on basidia; host deformed or not 4
4. Deforming living herbs and dwarf bushes, which typically turn red *Exobasidiales*, FTE 2 p. 1214
Emerging as yellow, brown or blackish, often powdery spots on living plants or as internal spore powder in killed seeds, etc. **rusts and smuts**, FTE 2 p. 1198

Key A – fruitbodies with external spore production

1. With a hymenophore of veins or gills 2
Hymenophore different 3
2. Hymenophore of low, branched veins, which are $\pm$ triangular in section **chanterelles**, p. 44
Hymenophore of plate-like gills **agarics**, p. 48
3. Fruitbodies tube-, cup-, goblet-, disc- or slit-shaped 4
Fruitbodies different 7
4. Spores formed on basidia; fruitbodies usually $\pm$ pendulous; typically less than 5 mm wide **cyphelloids**, p. 730
Spores formed in asci; fruitbodies upright or without orientation; small to large 5
5. Symbiotic with green algae or cyanobacteria that typically form a layer within the fruitbodies or in the surrounding flesh (the thallus) **lecanoralean lichens**, FTE 2 p. 1484
Without built-in green algae or cyanobacteria 6
6. Asci with an operculum; fruitbodies often large, usually on soil, wood, moss or dung **operculate cup fungi**, FTE 2 p. 1278
Asci without an operculum, but typically with an internal "plug"; fruitbodies usually small, usually on wood or herbaceous stems and other debris **inoperculate cup fungi**, FTE 2 p. 1348
7. With a hymenophore of tubes or pores 8
Hymenophore different 9
8. Hymenophore of tubes that are not well attached to the flesh and usually also not to each other **boletes**, p. 564
Hymenophore of tubes that are fully fused with the flesh and with each other **polypores**, p. 580
9. With a hymenophore of spines 10
Hymenophore plane, warty or wrinkled 12
10. Fruitbody with a cap and a stem or as a large branched or rounded structure **hydroids**, p. 720
Resupinate, possibly with a protruding cap margin 11
11. Fruitbodies more than 10 mm thick **hydroids**, p. 720
Thinner **corticoids**, p. 632
12. Fruitbodies fully resupinate or with a protruding cap margin 13
Fruitbodies different 15

	13. As a layer of basidia on living leaves and stems of species of <i>Ericaceae</i> that become deformed and typically turn red . . . <i>Exobasidiales</i> , FTE 2 p. 1214 Different 14	
	14. Basidia 1-celled; spores not repeating corticoids , p. 632 Basidia 2–4-celled or otherwise deviant <i>and/or</i> spores repeating jelly fungi , p. 774	
	15. Fruitbodies elastic and tough or jelly-like; basidia 2–4-celled or otherwise deviant <i>and/or</i> spores repeating 16 Fruitbodies not especially tough; basidia 1-celled; spores not repeating 17	
	16. Basidia tuning-fork-shaped or cylindrical <i>Dacrymycetales</i> , p. 768 Basidia not tuning-fork-shaped, 2–4-celled or otherwise deviant jelly fungi , p. 774	
	17. Fruitbodies club-shaped, coral-shaped or as hanging spines 18 Fruitbodies lobed or rosette-, cone-, funnel-, fan- or spatula-shaped 20	
	18. Spores formed on basidia clavarioids , p. 740 Spores formed in asci 19	
	19. Fruitbodies less than 10 mm wide; asci with a plug <i>earthtongues and the like</i> , FTE 2 p. 1350 Fruitbodies more than 10 mm wide; asci with an operculum <i>morels and the like</i> , FTE 2 p. 1280	
	20. Fruitbodies lobed or rosette-, fan- or spatula-shaped; with basidia rosette fungi , p. 628 Fruitbodies cone- to funnel-shaped; with basidia or asci 21	
	21. Fruitbodies ± funnel-shaped; spores formed on basidia chanterelles , p. 44 Fruitbodies cone-shaped; spores formed in asci <i>operculate discomycetes</i> , FTE 2 p. 1278	
	Key B – fruitbodies with internal spore production and passive spore release	
	1. Fruitbodies like ± underground tubers . . . truffles and false truffles , p. 830 Fruitbodies different 2	
	2. With a foul-smelling fly-dispersed spore mass stinkhorns and the like , p. 814 Different 3	
	3. Fruitbodies as small cups with “eggs” inside (peridioles) bird’s nest fungi , p. 812 Different 4	
	4. Fruitbodies rather large to very large fleshy structures with a powdery spore mass puffballs and the like , p. 816 Different 5	
	5. Like tiny pins with spore-forming, sometimes dusty tips 6 Different 7	
	6. Spores formed on basidia jellypins , p. 779 Spores formed in asci calicioids and myocalicioids , FTE 2 p. 1494	
	7. Like small, completely enclosed spheres that may split open when mature mildews and cleistothecial fungi , FTE 2 p. 1500 Different 8	
	8. Tiny, erect structures on living insects, millipedes and other arthropods <i>Laboulbeniales</i> , FTE 2 p. 1620 Different 9	
	9. Fruitbodies with a slit-like opening hysteroioid fungi , FTE 2 p. 1614 Fruitbodies with a ± round opening pyrenomycetous fungi , FTE 2 p. 1510	

Chanterelles and the like

Species in this form group have rather fleshy fruitbodies with a $\pm$ central stem and a deeply decurrent hymenophore, which may be completely smooth or of $\pm$ branched veins to wrinkles. The fruitbodies can be massive or hollow.

The core group consists of *Craterellus* and *Cantharellus*. These genera belong in *Cantharellales* and both form ectomycorrhiza.

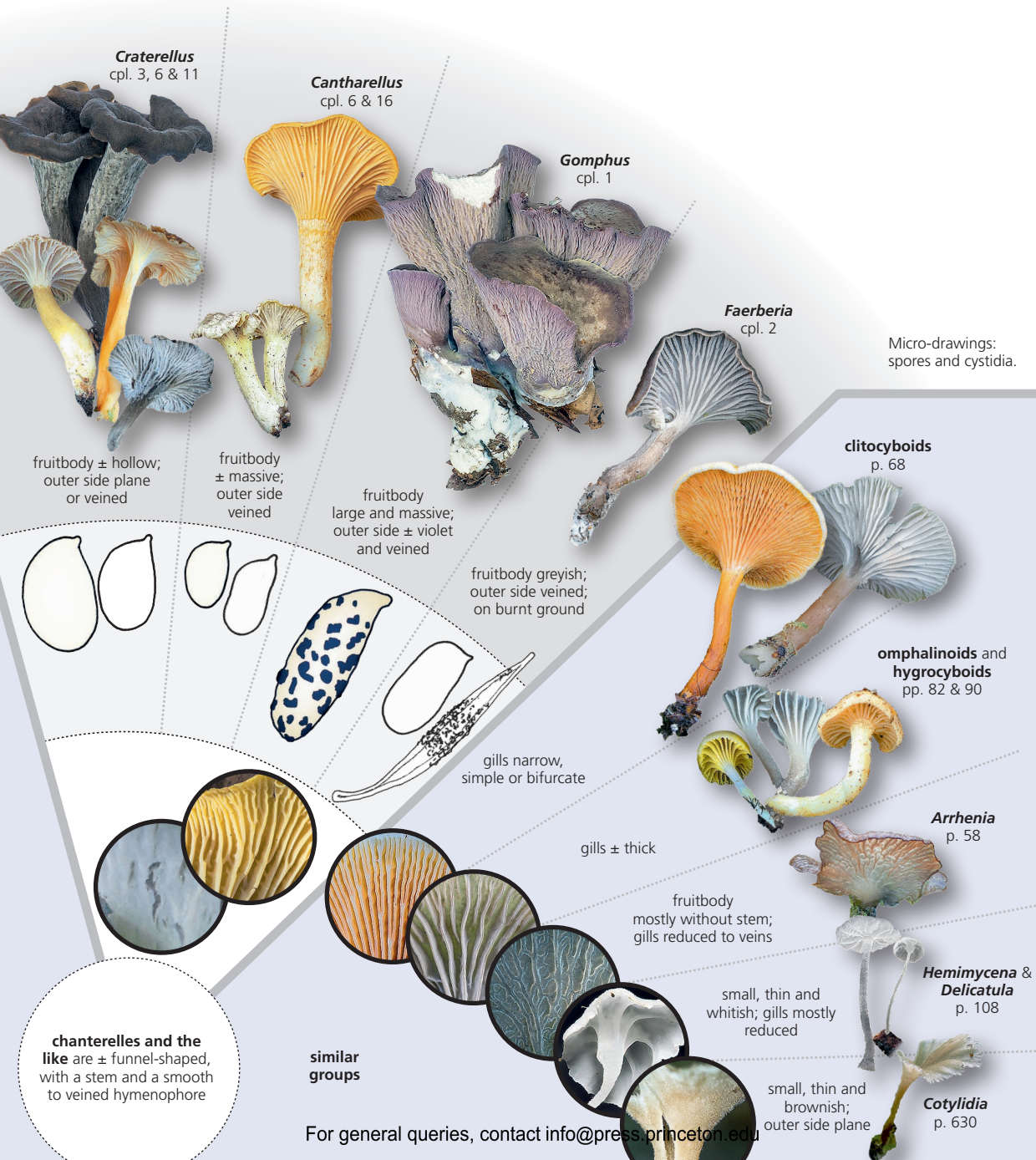
Gomphus clavatus, which belongs in *Gomphales*, also forms ectomycorrhiza, while *Faerberia carbonaria*, which is situated in *Polyporales*, is a decomposer.

SIMILAR GROUPS:

- clitocyboids have normal gills, which may be forked (page 68).
- some pleurotoids have a veined

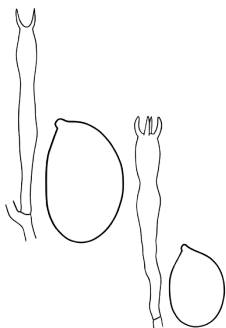
hymenophore, but are smaller with reduced stems (page 54).

- funnel-shaped hygrocyboids and omphalinoids have decurrent, normal gills (pages 82 & 90).
- some mycenas (e.g. *Hemimycena*) may look similar, but are small, fragile and whitish (page 108).



Chanterelles and the like

1. Hymenophore with violet colours (◀  ); spore deposit cinnamon-buff (◉ ); spores coarsely warted. Fruitbody very thick-fleshed; spores 10–15.5 × 4–7 μm, with cyanophilous warts; on ± calcareous soil with *Fagus* and *Picea* in forests with long continuity; rare with *Fagus* in the lowlands, more common with *Picea* at higher altitudes and latitudes *Gomphus clavatus*
- Hymenophore without violet colours; spore deposit white to cream (◉  ); spores smooth 2
2. On burnt ground; with thick-walled cystidia with crystalline encrustations. Cap dark greyish brown, finely scaly; spores 7–11 × 4–5 μm; rare, more common towards southwest. *Faerberia carbonaria*
- Not on burnt ground; without thick-walled cystidia with crystalline encrustations 3
3. Fruitbodies without clear differentiation into stem and cap; opening as a funnel all the way down 4
- Fruitbodies with an obvious stem and cap; not open all the way down, but possibly with hollow stem 5
4. Hymenophore ± plane; spores 9.5–13 × 6–9 μm; basidia 2-spored. Upper/inner side dark mouse grey to black, rarely olivaceous buff, as dry usually greyish brown and scaly; without clamps; on clayey/calcareous soil primarily with *Fagus* and *Picea*; rather common *Craterellus cornucopioides*
- Hymenophore of distinct, branched veins; spores 7–8.5 (–9) × 5–6 (–6.5) μm; basidia 4–6-spored. Without clamps; with deciduous and coniferous trees; rare (N) *Craterellus caeruleofuscus*
5. All parts ash grey to dark grey (◉    ) 6
- With whitish, brownish, yellowish or orange colours (◉     ), but possibly blackening 7
6. Spores subglobose, 9.5–10.5 × 8.5–9.5 μm, Q 1.08–1.18; with clamps; cap depressed, but probably never perforated and stem almost or entirely solid; veins below the cap distinctly chanterelle-like; smell distinctly fruity. With deciduous and coniferous trees; rare (S) *Cantharellus atrofuscus*
- Spores broadly ellipsoid, 9–10 × 5–6 μm, Q 1.70–1.80; without clamps; cap sometimes perforated down to the ± hollow stem; veins may be indistinct; smell faintly aromatic. On clayey soil, preferably with *Fagus* and often accompanied by *C. cornucopioides*; scattered to rare (W) *Craterellus cinereus*
7. With regularly bifurcate gills 8
- Not with regularly bifurcate gills 9
8. Cap ash grey (◉  ); gills reddening; spores amyloid see *Cantharellula umbonata*, p. 70
- Cap cream, pale buff, orange to orange-brown or with brownish rose shades (◉     ); gills without colour change; spores inamyloid, but may be dextrinoid see *Hygrophoropsis* and *Aphroditeola*, p. 70
9. With deep, cross-veined, thick vaxy gills see *Musumecia*, p. 71
- With low, irregularly branched veins 10





10. Stem $\pm$ hollow; spores $\pm$ ellipsoid, usually without a depression below the apiculus [*Craterellus* p.p.] . 15
 Stem solid; spores constricted (violin-case-shaped) to ellipsoid with a depression below the apiculus [*Cantharellus* p.p.] . 16



11. Hymenophore of distinct gill-like veins 12
 Hymenophore folded-wrinkled or entirely plane 14



12. Small and thin; cap up to 25 mm wide; never with yellow colours; hymenophore of rudimentary, low veins see *Craterellus undulatus*, cpl. 15
 More robust; cap up to 60 mm wide; stem typically cinnamon-buff (☐ ■); hymenophore of gill-like veins 13



13. Flesh (and usually also the hymenophore) slowly blackening when bruised. With clamps; spores $8-11 \times 6-7.5 \mu\text{m}$; on clayey soil, preferably with *Fagus*; rare (N), scattered (S) *Craterellus melanoxeros*
 Flesh and hymenophore unchanging. With clamps; spores $10-13 \times 7-9 \mu\text{m}$, Q $1.18-1.33$; both on poor and clayey soil, but usually on nutrient-poor soil with mor formation, usually with *Picea*, *Abies* or *Fagus*; common to scattered *Craterellus tubaeformis*



14. Hymenophore (underside of cap) yellow to apricot orange (☐ ■). Spores $9-12 \times 6.5-9 \mu\text{m}$; Q $1.36-1.59$; with clamps; with *Picea* in damp, calcareous coniferous forests and plantations; scattered (N and higher altitudes in the S) to rare (SW) *Craterellus lutescens*
 Hymenophore pale grey to pinkish buff (☐ ■) 15



15. Hymenium downy from protruding, scattered, well defined cystidia (lens!); cap margin usually frayed; spores up to $8.5 \times 2.8 \mu\text{m}$ see *Cotylidia*, p. 630

Hymenium without protruding cystidia; cap margin entire, but wavy; spores $8.5-12 \times 5-8 \mu\text{m}$. Without clamps; on clayey/calcareous soil preferably with *Fagus*, *Quercus* and *Corylus*; scattered *Craterellus undulatus*



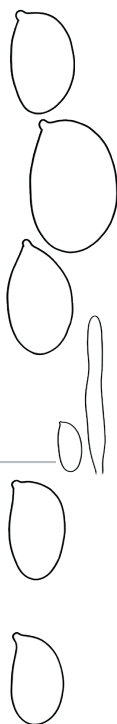
16. Fruitbodies very delicate; cap up to 30 (–50) mm wide and in places with striking reddish hue (apricot orange to coral – ☐ ■ ■); the hyphae of the cap cuticle are thin-walled (up to $0.4 \mu\text{m}$ thick). Flesh pale rose with FeSO_4 ; spores $8.5-10.5 \times 4-5 \mu\text{m}$; with clamps; in mature deciduous forests with *Fagus*, *Quercus*, etc.; rare *Cantharellus friesii*
 Fruitbodies more robust; mature caps usually wider and white, straw yellow, buff-yellow to orange-yellow (☐ ■ ■ ■ ■), rarely pale pinkish; the hyphae of the cap cuticle thick-walled (more than $0.8 \mu\text{m}$ thick) 17

17. Fruitbodies entirely white (☐), but may turn brown when bruised . 18
 Fruitbodies mostly with yellow to orange-yellow (■ ■ ■) colours, rarely pale pinkish 19

18. Cap surface as young covered by loosely interwoven hyphae (lens!); fruitbodies rather robust and thick-fleshed; on neutral to calcareous, usually clayey soil see *Cantharellus pallens*, cpl. 21
 Cap surface as young glabrous or finely downy; fruitbodies rather delicate; on acidic to neutral, usually $\pm$ sandy soils see *Cantharellus cibarius*, cpl. 20



19. Cap surface with a felty layer that breaks up in small scales, usually with a greyish violet (☐ ■) hue; spores $9-13 \times 5-7.5 \mu\text{m}$; flesh rosy with FeSO_4 . With clamps; scattered on rich soil; scattered *Cantharellus amethysteus*
 Cap surface without greyish violet scales; spores $6.5-11 \times 4-6.5 \mu\text{m}$; flesh greyish with FeSO_4 20





20. Hymenophore usually unchanged or at most weakly and slowly brown when bruised; fruitbodies rather delicate; cap usually less than 60 mm wide; on acidic to neutral, usually light/sandy soil with both deciduous and coniferous trees. Cap surface as young glabrous or finely downy; with clamps; spores $7-9.5 \times 4-6 \mu\text{m}$; common to scattered *Cantharellus cibarius*
- Hymenophore on fresh fruitbodies strikingly and quickly turning brown when bruised; fruitbodies delicate or robust; on neutral to calcareous, usually clayey soil, with deciduous trees or rarely with *Abies* 21
21. Hymenophore on young specimens whitish to cream (☐); cap surface as young glabrous or finely downy; spore deposit cream; fruitbodies relatively delicate; cap up to 50 mm wide; spore Q 1.6–2.3. With clamps; spores $7-11 \times 4-6 \mu\text{m}$; mostly in deciduous forest; mostly towards SW, scattered *Cantharellus ferruginascens*
- Hymenophore on young specimens distinctly buff-yellow (☐), at least near the cap margin; cap surface as young whitish-downy from loosely interwoven hyphae (lens!); spore deposit buff-yellow to orange-yellow; fruitbodies robust; cap up to 100 (–150) mm wide; spore Q 1.5–1.9. With clamps; spores $6.5-10 \times 4-6 \mu\text{m}$; typically with *Fagus*, but also with *Quercus* and *Corylus* on better soils; common to scattered *Cantharellus pallens*



Agarics

The gilled mushrooms comprise a very large group of macrofungi, with more than 3,000 species in temperate Europe. They are characterized by having vertical gills under a horizontal cap. Most species also have a stem, but in the pleurotoid agarics the stem is reduced or absent.

Spore colour

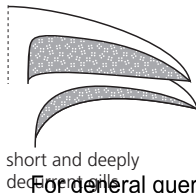
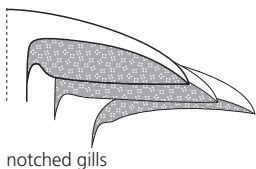
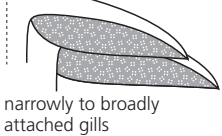
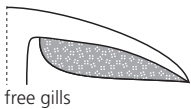
The colour of spore deposits is a key character for dividing the agarics into manageable groups: white, cream to yellow (this page spread) or brownish, rose-brown to black (next page spread). In addition, a few species have green or lilac spore deposits (next page spread).

Veil

In some agarics the gills develop freely – a naked development. Others have a protecting tissue over the young gills – a partial veil. Some have the entire fruitbody covered in a protective universal veil. *Amanita phalloides*, for example, has a membranous version of both veil types: the partial veil is seen as a ring on the stem at maturity, while the universal veil is seen as a volva at the stem base. In *Cortinarius*, the two veil types can be threadlike and in others, e.g. *Gomphidius*, they are present as slimy layers; see pages 24–26.

Gill attachment

The way the gills attach to the stem is an important character for separating species and genera. The gills may be free (of the stem), narrowly or broadly attached, notched or decurrent.



I+ = may be amyloid
I+ (dex.) = may be dextrinoid

tricholomatoids
page 134

mycenoids
page 108

robust,
medium-sized to
large; gills ± notched

slender, mostly small
and fragile; mostly with
convex caps and variable
gill attachment; often
with amyloid spores

hygrocyboids
page 90

with thick,
waxy
gills

small and
fragile; with
decurrent gills

omphalinoids
page 82

fleshy;
with decurrent
gills

clitocyboids
page 68

pleurotoids
page 54

without or with
reduced or
eccentric stems

collybiids and marasmioids
page 156

cystoderroids
page 176

leptotoids
page 178

small to medium, rather tough;
gills narrowly to broadly attached
or meeting in a collarium

with grainy
surfaces
(universal veil)

with free gills;
often with
partial veil

with free gills;
with slimy universal
veil

with free or
narrowly attached
gills and a
membranous
universal veil

limacelloids
page 192

amanitoids
page 194

spore deposit
white to cream

agarics
with $\pm$ soft-fleshed
fruitbodies with a cap
and with gills below

spore deposit
white to
yellowish

with grainy
surfaces
(universal veil)

fragile;
flesh with
spherical cells;
without milk

fragile; flesh with
spherical cells;
with milk

Phaeolepiota
page 176

**other
similar
fungi**

other spore
colours

with decurrent veins,
chanterelles, page 44

leathery, broadly
attached fruitbodies,
polypores, page 580

lactarioids
page 230

russulas
page 204

Microscopic characters

Many species of agarics have cystidia on the stem (caulocystidia), cap surface (pileocystidia) or on the gills. The gill cystidia are divided into those in the hymenium (pleurocystidia) and those on the edges (cheilocystidia). The cystidia are very important in species identification. It is advisable to use a dissection microscope when making preparations, to ensure that the appropriate part of the gill is studied.

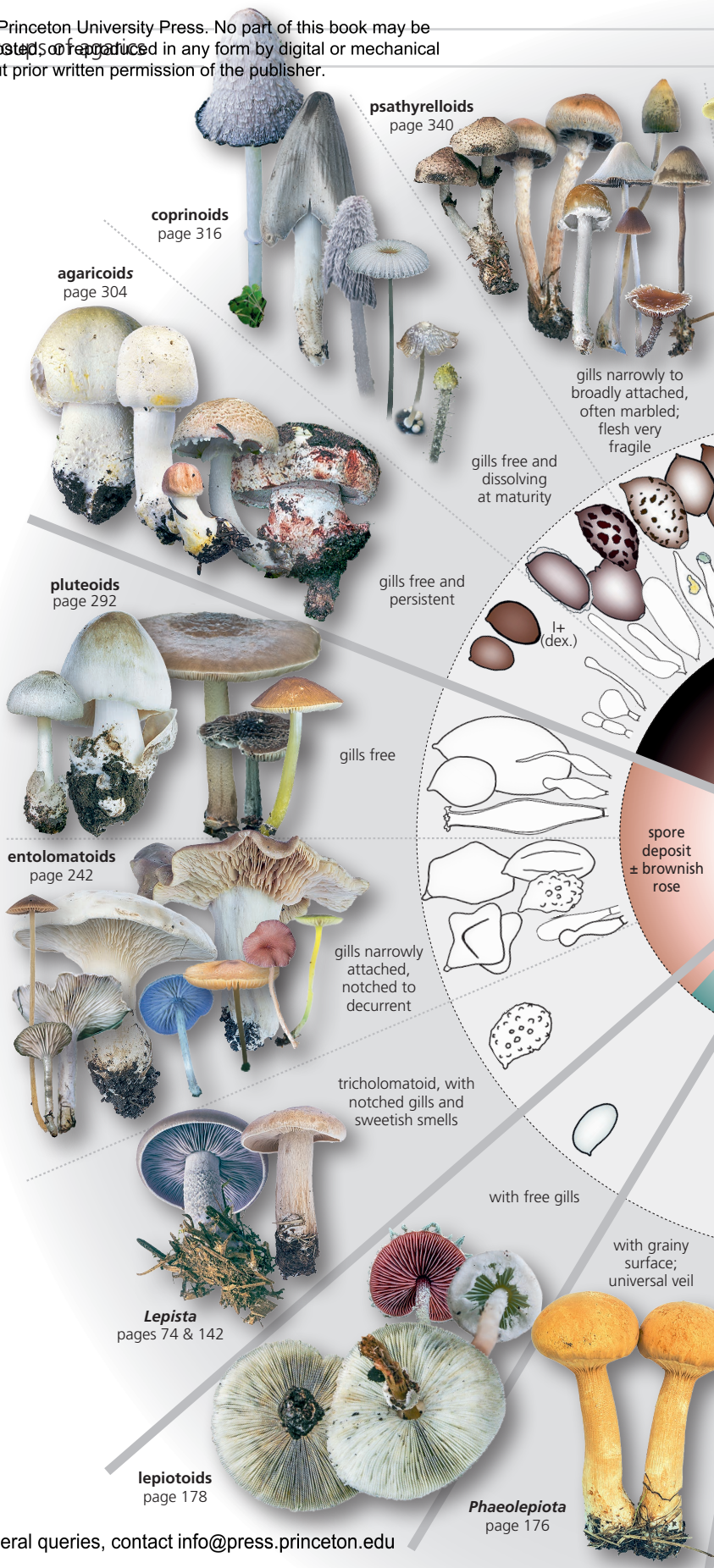
Agarics have a huge range of spore types: smooth, angular, spiny, thin- to thick- or double-walled, with or without germ pore, etc. Some spores stain $\pm$ blue with Melzer's reagent (termed amyloid, or I+). When studying microscopic characters, always check for amyloidity and surface ornaments (use oil immersion and $\times 1,000$).

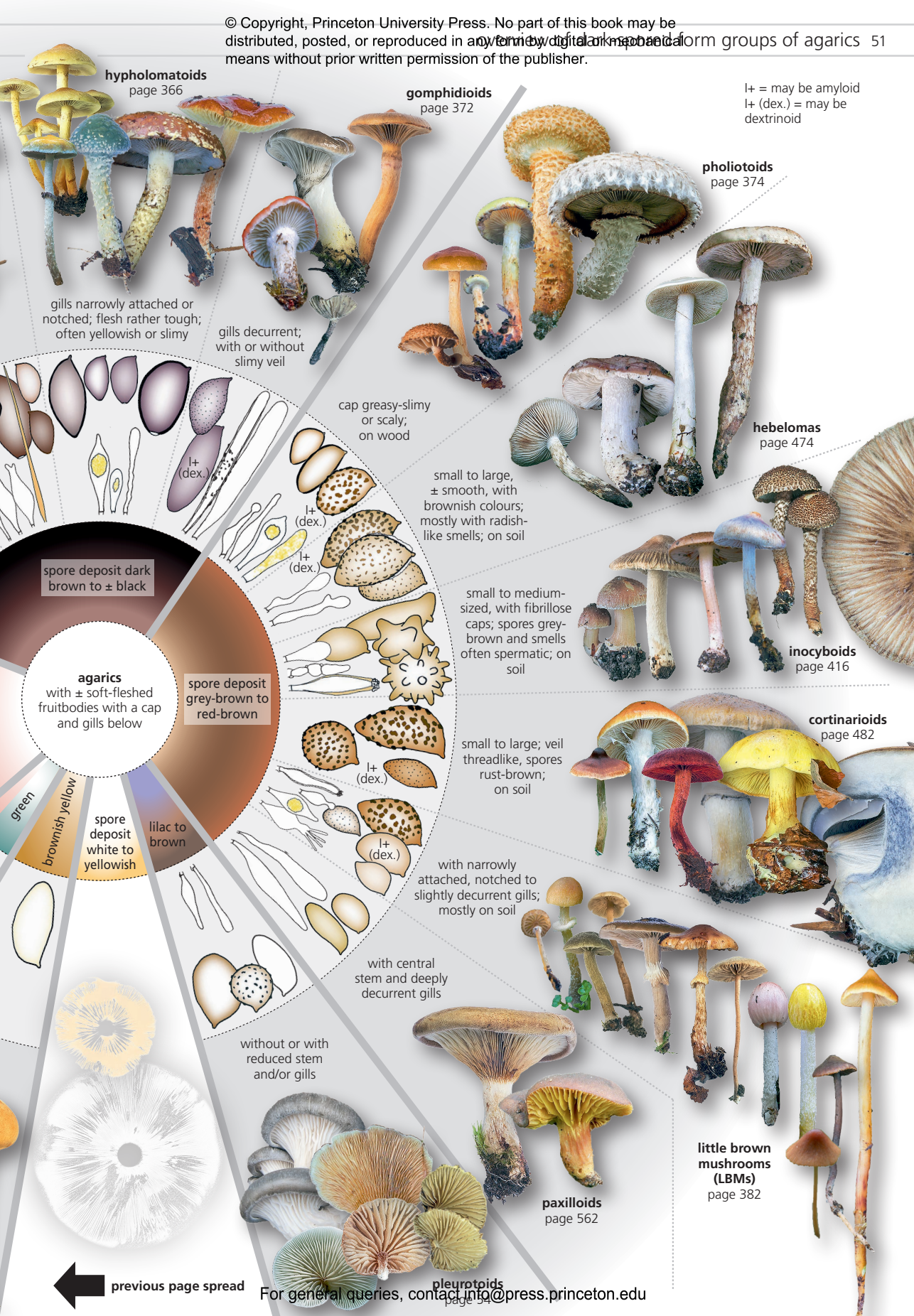
Relationships

The agarics constitute a "form group" – an artificial assemblage. The biggest monophyletic groups of agarics are the *Agaricales*, the *Russulales* and the *Hymenochaetales*, each of which also includes many species that are not agarics, e.g. corticioids, clavarioids, puffballs and polypores.

OTHER SIMILAR FUNGI:

- chanterelles do not have proper gills but, instead, sinuose, branching veins or wrinkles (page 44).
- certain polypores have gill-like hymenophores, but these structures are very tough compared with agaric gills (page 580).



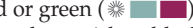


Key to form groups of agarics

The groups of agarics are based more on experience and intuition than on scientific characteristics. The key below is therefore not sharply defined (as analytical keys ideally should be) but paints with broader strokes. Moreover, many species do not fit neatly into a specific morphological group, so in the following keys in this book, we strive to cross-reference these species wherever we believe they may appear.

1. Stem lateral or absent **pleurotoids, p. 54**
Stem $\pm$ centrally positioned 2
2. Spore deposit white, cream, buff- to orange-yellow (☼) 3
Spore deposit greenish, reddish, brownish or black (☼) 14
3. The flesh of the stem brittle (with many globose cells – breaking as a dry cheese); spores with distinctly amyloid ornament of spines and veins; spore deposit white, cream, buff- to orange-yellow (☼) 4
The flesh of the stem fibrous; spores smooth or ornamented, possibly by amyloid warts; spore deposit white to cream (☼) 5
4. With milk; all species with both long and short gills **lactarioids, p. 230**
Without milk; many species only have long gills **russulas, p. 204**
5. Cap and lower stem finely granular; usually with pale buff, cinnamon-buff, orange-brown, brownish orange to coral (☼) colours **cystodermatoids, p. 176**
Cap and lower stem different; colours often different 6
6. Gills $\pm$ free; with a threadlike, powdery to membranous partial *and/or* universal veil 7
Gills narrowly to broadly attached, notched to decurrent; veils mostly absent 9
7. Universal veil membranous **amanitoids, p. 194**
Universal veil threadlike or slimy 8
8. Cap greasy to slimy **limacelloids, p. 192**
Cap dry **lepiotoids, p. 178**
9. Mostly small, elegant and fragile mushrooms with $\pm$ convex caps and rather thin stems; most species with amyloid spores; usually with cystidia, which may be branched **mycenoids, p. 108**
Different 10
10. With striking thick, usually waxy gills; usually with splendid colours or a slimy cap; basidia usually very long and slender (Q 6–9) **hygrocyboids, p. 90**
Different 11
11. With $\pm$ decurrent gills; cap usually flat, with a central navel or depressed 12
With narrowly to broadly attached or notched gills 13
12. Small, elegant and fragile fungi; cap often with with a central navel **omphalinoids, p. 82**
More robust fungi; cap convex, flat to depressed **clitocyboids, p. 68**
13. Rather robust fungi with $\pm$ notched gills **tricholomatoids, p. 134**
Small to large fungi with narrowly to broadly attached gills **collybioids and marasmioids, p. 156**



	14. Spore deposit dull red or green (* ) leptotoids, p. 178 Spore deposit ± salmon, brownish or black (* ) 15	
	15. Spore deposit brownish rose to salmon (* ) 16 Spore deposit ± brownish to black (* ) 18	
	16. Gills free pluteoids, p. 292 Gills ± attached, notched or decurrent 17	
	17. Spores finely warty; flesh with a perfumed, sweetish smell see <i>Lepista</i> and others, pp. 142 & 74 (key D) Spores angular, nodulose, striated or if finely warty then without a sweetish smell entolomatoids, p. 242	
	18. Spore deposit dark chocolate brown to black (* ) 19 Spore deposit paler brownish (* ) 23	
	19. Gills ± ink-like, dissolving at maturity coprinoids, p. 316 Gills not dissolving 20	
	20. Gills entirely free agaricoids, p. 304 Gills ± attached, notched to decurrent 21	
	21. Gills decurrent gomphidioids, p. 372 Gills ± attached to notched 22	
	22. Fruitbodies rather fragile; gills ± attached; fruitbodies mostly with brown to ash-grey colours; with cystidia, but these usually without yellow content psathyrelloids, p. 340 Fruitbodies not strikingly fragile; gills attached to notched; fruitbodies usually with yellow, orange-brown or green colours; mostly with cystidia with yellow content hypholomatoids, p. 366	
	23. Gills distinctly decurrent; stem more than 10 mm thick but with rather brittle flesh paxilloids, p. 562 Gills ± attached to notched or rarely slightly decurrent; stem thinner and/or with distinctly longitudinally fibrous flesh 24	
	24. Rather robust fungi, mostly growing on wood and usually with scaly caps; usually with cystidia, which may have yellow content pholiotoids, p. 374 Different 25	
	25. Spore deposit ± greyish brown (* ); ectomycorrhizals 26 Spore deposit ± yellowish brown to orange-brown (* ); ectomycorrhizals or decomposers 27	
	26. Cap felty, glabrous, greasy to slimy; usually rather large; often with a striking soil- to radish-like smell; spores finely warty, usually dextrinoid hebelomas, p. 474 Cap dry and radially fibrous to scaly; often with a spermatic smell; spores smooth, nodulose or almost star-shaped inocyboids, p. 416	
	27. Ectomycorrhizal species; with ± threadlike universal and partial veil; fruitbodies usually medium to large; spore deposit vivid orange-brown (* ); rarely with cheilocystidia cortinarioids, p. 482 Decomposers, less commonly ectomycorrhizal species; with or without a veil; fruitbodies rather small; spore deposit orange-brown or paler and less intensely coloured (* ); typically with cheilocystidia and possibly also other types of cystidia little brown mushrooms (LBMs), p. 382	

Pleurotoids

The pleurotoid agarics are either fan- or tongue-shaped and have an eccentric to lateral stem or lack the stem entirely. Some are attached on the back side, with the gills forming a radiating pattern. Some have the gills reduced to veins or wrinkles, or may even have an almost plane hymenophore. Species with a completely smooth hymenophore and no stem are treated under the cyphelloid fungi (page 730).

Most pleurotoids are decomposers, and the majority grow on wood, even though some are in addition nematophagous. A few occur on herbaceous stems: *Gloiocephala*, *Metacampanella*, and some of the *Hohenbuehelia* species, one species of *Lentinellus*, one *Clitopilus*, several *Entoloma*, some *Deconica* and a few *Crepidotus* species.

Pleurotoids have variable spore colours. The majority are white- to cream-spored, but a smaller group is rose- or brown-spored, and *Pleurotus ostreatus* can have a greyish-violet spore deposit. The different spore colours reflect the fact that the species concerned have completely different phylogenies. The spore colour is used to divide species into groups in the wheel and the keys.

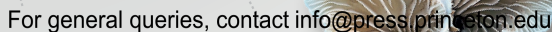
Some pleurotoids are remarkably tough, e.g. *Panus* and *Neofavolus*, and also older fruitbodies of *Lentinellus* and *Pleurotus*. Others, e.g. *Schizophyllum*, *Hohenbuehelia* and *Sarcomyxa*, have a gelatinous or rubbery flesh.

OTHER SIMILAR FUNGI:

- the cyphelloid fungi have small fruitbodies without gills and mostly with a reduced or absent stem. They are typically attached on the upper side of the fruitbody (page 730).
- the clitocyboids may have deeply decurrent gills, but have ± central stems (page 68).

Micro-drawings:
spores and cystidia.





Key to groups of pleurotoid fungi

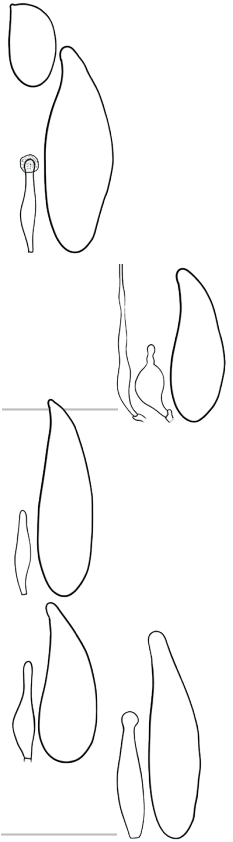
1. Hymenophore plane, veined or with longitudinally divided gills; spores hyaline (white) **key A**
Hymenophore with normally developed gills; spores hyaline or coloured 2
2. Spore deposit whitish or rarely greyish violet ( ) . . . **key B**
Spore deposit brownish rose to ± brown ( ) . . . **key C**

Key A – pleurotoid fungi with reduced or abnormal gills

1. Gills longitudinally divided and in dry condition rolled together; cap surface rough-haired. Cap up to 40 mm wide; spores $7.5\text{--}10 \times 2.5\text{--}3\text{ }\mu\text{m}$; on sun-baked wood, on silage bales, old whale bones, etc.; common *Schizophyllum commune*
Without longitudinally divided gills; cap surface not rough-haired . . . 2
2. Hymenophore plane; fruitbody without stem . . see cyphelloids, p. 730
Hymenophore ± veined and/or fruitbody with an obvious stem 3
3. On wood (bark); hymenophore of radial, wavy, branched veins. Cap up to 20 mm wide; spores sausage-shaped, $2.8\text{--}4.5 \times 1\text{--}1.3\text{ }\mu\text{m}$; on deciduous wood, rarely coniferous wood; common, more rare towards NE *Plicatura crispa*
On herbaceous stems or mosses; hymenophore plane or veined 4
4. On mosses 5
On herbs, grasses, etc. 9
5. Fruitbody white () 6
Fruitbody greyish cream, greyish to brownish (  ) [*Arrhenia* p.p.] . . 7
6. With an obvious stem; hymenophore plane; spores $3\text{--}4.5\text{ (–}5\text{)} \times 2.2\text{--}3\text{ }\mu\text{m}$ see *Muscinupta laevis*, p. 630
Without a stem; hymenophore veined to gill-like; spores $6\text{--}7.5 \times 5\text{--}6\text{ }\mu\text{m}$ see *Rimbachia bryophila*, p. 734
7. Cap pale greyish to pale greyish brown ( ); cap 1–5 (–10) mm wide. Hymenophore initially plane, later veined, coloured like the cap; spores (5–) $6\text{--}10\text{ (–}11.5\text{)} \times 3\text{--}6\text{ (–}7\text{)}\text{ }\mu\text{m}$; clamps absent; common, less to the S, often in late season *Arrhenia retiruga*
Cap darker greyish to brownish ( ); cap wider 8
8. On mosses in springheads and other wet habitats; with clamps. Cap up to 50 mm wide; spores $5\text{--}10\text{ (–}15\text{)} \times 4\text{--}8.5\text{ }\mu\text{m}$; scattered to rare *Arrhenia lobata*
Mostly on the moss *Syntrichia ruraliformis* in dry habitats like dunes and sandy grasslands; without clamps. Cap up to 15 (–25) mm wide; spores $(5.5\text{–})\text{ }6\text{--}10\text{ (–}10.5\text{)} \times 4\text{--}6.5\text{ }\mu\text{m}$; scattered to locally common *Arrhenia spathulata*

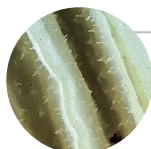
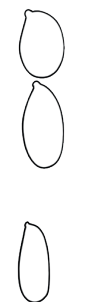
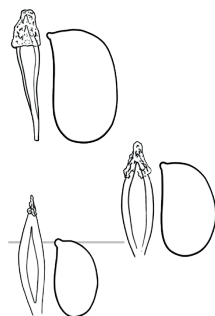


9. Fruitbodies pale pinkish buff to greyish and usually with glaucous green or bluish shades (); gills cross-connected to an almost pore-like structure; on coarse grass stems in dunes and other grass communities; without prominent cystidia. Cap up to 17 mm wide; spores (6.5–) 7.5–9.5 (–10) $\times$ 4–5.5 (–6) μm ; rare or overlooked, absent in N parts *Metacampanella caesia*
- Fruitbodies without greenish or bluish shades; hymenophore not pore-like; not in dunes; $\pm$ downy from cystidia [*Gloiocephala*] . . 10
10. On *Typha*; cap surface $\pm$ pale brown (). Cap up to 15 mm wide; spores 15–22 $\times$ 5.5–7.5 μm ; rare, but probably very overlooked, apparently absent in N parts *Gloiocephala menieri*
- On *Carex* or *Cladium*; cap surface $\pm$ white or very pale brown () 11
11. On *Cladium*; hymenium plane or wrinkled. Cap up to 4 mm wide, white or tinged in brown; spores 12–18 $\times$ 3.5–6.5 μm ; with thick-walled caulo- and pileocystidia; rare or overlooked – probably delimited by host *Gloiocephala cornelii*
- On *Carex*; with $\pm$ rudimentary to rather well-developed gills 12
12. Cap pure white (); basidia 2-spored. Cap up to 5 mm wide; spores 16.5–22.5 (–24.5) $\times$ (4.5–) 5–6.5 μm ; cystidia in the hymenium, 25–62 $\times$ 4–12 μm , cylindrical, spindle-, bottle- or bowling-pin-shaped; found on leaves and stems of *Carex paniculata*, *C. rostrata* and possibly *C. acutiformis*; rare or overlooked *Gloiocephala caricis*
- Cap very pale olivaceous buff (); basidia 4-spored 13
13. Spores to 18 (–22) μm long; cheilo- and pileocystidia probably not capitate, to 56 μm long. Cap 1–3 mm wide; spores (11.5–) 14–18 (–22) $\times$ 4.5–6 (–7) μm ; cheilocystidia 27–56 $\times$ 5–9 (–12) μm , spindle- to flask-shaped, rarely slightly capitate; on leaves of *Carex* spp., rare (Scotland) *Gloiocephala pseudocaricis*
- Spores up to 27 $\times$ 6 μm ; cheilo- and pileocystidia capitate, up to about 90 μm long. Cap up to 8 mm wide; found on leaves of *Carex acutiformis*; rare and undescribed *Gloiocephala caricoides* nom. prov.



Key B – pleurotoid fungi with gills and white to greyish violet spores

1. On grasses, sedges and rushes or seemingly on soil 2
On dicotyledonous herbaceous stems, wood, sawdust or wood chips
or deeply rooting in forest soil 11
2. With thick-walled, crystal-encrusted pleurocystidia; fruitbodies rather
robust and with a gelatinous flesh layer [*Hohenbuehelia* p.p.] ... 3
Cystidia absent; fruitbodies fragile and without gelatinous flesh
[*Arrhenia* p.p.] ... 7
3. On grasses 4
Seemingly on soil 5
4. Fruitbodies dark grey (■ ■ ■), up to 25 (–40) mm wide. Spores (8–)
9–12 (–14) × (4.5–) 5–7 (–7.5) μm; with thick-walled, crystal-encrusted
pleurocystidia; on *Ammophila*; rare (W) or overlooked
Hohenbuehelia culmicola
Fruitbodies cinnamon-buff to pale vinaceous brown (■ ■ ■), up
to 75 mm wide. Spores 7–10.5 × (3.5–) 4.5–6 μm; with thick-walled,
crystal-encrusted pleurocystidia; on grasses (but not *Ammophila*) or
seemingly on soil; rare *Hohenbuehelia bonii*
5. Spores 5–7.5 (–8.5) × 3.5–4.5 (–5) μm; with many thick-walled, spindle-
shaped pileocystidia see *Hohenbuehelia petaloides*, cpl. 31
Spores larger; with rather few, thick-walled, spindle-shaped pileocyst-
idia 6
6. Fruitbodies cinnamon-buff to pale vinaceous brown (■ ■ ■)
..... see *Hohenbuehelia bonii*, cpl. 4
Fruitbodies dark greyish brown (■ ■ ■)
..... see *Hohenbuehelia tremula*, cpl. 31
7. Spores subglobose, Q 1.1–1.3. Cap up to 25 mm wide, greyish brown;
spores 5.5–7.5 × 5–6.5 μm; amongst mosses on soil; rare
Arrhenia subglobisemen
Spores more elongated, Q more than 1.3 8
8. On rushes, sedges and grasses 9
On soil with mosses, possibly mixed with wood chips 10
9. Basidia 2-spored. Cap 35 (–40) mm wide, greyish brown; spores 8.5–12.5
(–17.5) × 4–5.5 μm; on rushes and grasses; rare
Arrhenia acerosa var. *tenella* ss. auct.
Basidia 4-spored. Cap 18 mm wide, greyish brown; spores 7–10 × 3.5–6 μm;
on rushes and *Carex*; rare or overlooked *Arrhenia juncorum*
10. Spores ellipsoid, 5.5–8 × 3–5.5 μm, av. 6.6 × 4 μm, Qav. 1.7. Cap up to
10 mm wide, pale brown to pale greyish blue, solitary or in dense clus-
ters; on soil, grass and moss debris and decomposed wood chips; rare
or overlooked *Arrhenia glauca*
Spores elongated drop-shaped, 7–9 × 3.5–4 μm, av. 7.4 × 3.8 μm, Qav. 2.
Cap 35 (–40) mm wide, greyish brown; on soil and decaying pieces of
wood; scattered *Arrhenia acerosa* var. *acerosa*
11. Smell extremely strongly of aniseed; typically high up in bushes
in *Salix* carrs; gill sides with protruding hyphal pegs. Cap up to 50
(–100) mm wide; with cinnamon-buff to straw-yellow colours; with
thick-walled binding hyphae; spores 7–8 × 3.5–4 μm; rare or almost
absent towards W–SW *Neofavolus suavissimus*
Smell insignificant or different; not high up in *Salix* carrs; gill sides not
with hyphal pegs 12
12. Gill edge serrated (lens!) 13
Gill edge not serrated 21



13. Spores more than 6 μm long, inamyloid, smooth; taste mild or acidic. 14
 Spores very small, less than 6 μm long, strongly amyloid, finely wart-like; taste very bitter or hot/acrid [Lentinellus] . . 16



14. On deciduous wood, typically entirely or partly submerged; white-rotter. Cap up to 80 mm wide; cap and stem with greyish brown scales; with thick-walled binding hyphae; spores 6–10 $\times$ 2–3 μm ; usually on *Salix* or *Populus*; absent to rare (N) to common going S *Lentinus tigrinus*
 On less wet, deciduous or coniferous wood; brown-rotter 15



15. Cap whitish, at maturity pale pinkish buff (☞ ) with darker, coarse scales; typically on very dry coniferous wood, e.g. old railway sleepers or sun-exposed stumps; spores 8–14 $\times$ 3.5–5 μm , cylindrical. Cap up to 150 mm wide; flesh very tough; both in cities and in plantations; scattered *Neolentinus lepideus*



- Cap pale brown to brown (☞ ) finely fluffy to scaly; on wood of *Populus*. Cap up to 150 mm wide; spores 10–14 $\times$ 3.5–5 μm ; rare (N & W), scattered E–S *Neolentinus degener*



16. On herbaceous stems (e.g. *Chamaenerion angustifolium*); fruitbodies up to 15 mm wide; without clamps. Spores 4.5–5.5 $\times$ 3.5–4.5 μm ; pleurocystidia spindle-shaped to blunt, 22–33 $\times$ 5–11 μm ; rare or overlooked *Lentinellus herbarum*



- On wood; fruitbodies larger; with clamps 17

17. Fruitbodies $\pm$ sideways split; surface almost smooth; with or without an obvious smell of aniseed; usually in large clusters on stumps or dead roots of *Fagus*, rarely other deciduous trees. Cap up to 90 mm wide; spores 4–5 $\times$ 3–4 μm ; with oil-cystidia from deep within the flesh, but without typical pleuro- and cheilocystidia; with thick-walled resting spores in the flesh; common to rare (NE) *Lentinellus cochleatus*



- Fruitbodies $\pm$ depressed to convex; surface smooth or at maturity hairy-felty from the base and outwards; never with a smell of aniseed; usually on fallen trunks or smaller branches 18

18. With a distinct, $\pm$ excentric stem; cap with a $\pm$ central navel and glabrous; spores 5–6 $\times$ 3–4.5 μm . Cap up to 40 mm wide; flesh black in Melzer's reagent; with 26–34 $\times$ 5–13 μm sized oil-cystidia from deep within the flesh, but without typical pleuro- and cheilocystidia; on coniferous wood, less commonly on deciduous wood; scattered (N) to rare towards S & W *Lentinellus flabelliformis*



- Without or almost without a stem; cap convex and glabrous to hairy; spores smaller 19

19. Cap surface almost glabrous and rather pale; flesh not or almost not coloured in Melzer's reagent; without dark separating line between the cap surface and the flesh; with oil-cystidia from deep within the flesh, but without typical pleuro- and cheilocystidia. Cap up to 70 mm wide; spores 4–5 $\times$ 3–4 μm ; on deciduous wood; scattered (N) to rare *Lentinellus vulpinus*

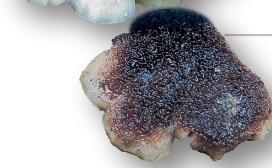
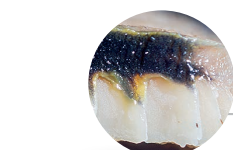


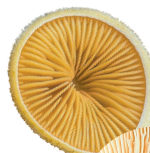
- Cap surface rather felty; flesh on slightly older specimens immediately black in Melzer's reagent; usually with a dark zone between the cap surface and the flesh; with pleuro- and cheilocystidia 20

20. With $\pm$ knobby skeletal hyphae. Cap up to 70 mm wide; spores 3.5–4.5 $\times$ 2.5–3.5 μm ; pleurocystidia 16.5–20 (–30) $\times$ 5–6 μm ; with oil-cystidia; on deciduous and less commonly coniferous wood, often in forests with seminatural appearance; common to scattered *Lentinellus ursinus*



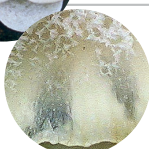
- Without distinctly knobby skeletal hyphae. Cap up to 120 mm wide; spores 3.5–4.5 $\times$ 2.5–3.5 μm ; pleurocystidia 20–48 $\times$ 3.5–5 μm ; with oil-cystidia; on deciduous and coniferous wood; distribution and abundance uncertain *Lentinellus castoreus*





21. Fruitbodies white (□) 22
Fruitbodies in places cream (□) or darker 26
22. Fruitbodies 30–120 mm wide, funnel-shaped. Spores globose, 5–7.5 × 4–6 μm; on coniferous stumps and wood chips; common (N and at higher altitudes), rare in the lowlands to S ... *Pleurocybella porrigens*
Fruitbodies smaller, usually convex 23
23. With crowded, slightly rubbery gills that end in a well-defined zone; without cheilocystidia see *Panellus mitis*, cpl. 42
Gills different; with cheilocystidia 24
24. On coniferous wood; spores 5.5–7 × 2.5–3 μm. Cap 3–8 mm wide; cheilocystidia ± knotted, with or without a sticky drop at the top; cap cuticle with cystidia with similar sticky drops; rare *Hohenbuehelia lateralis*
On deciduous wood; spores broader 25
25. Cap surface and margin rough-haired; rather tough. Cap up to 20 mm wide; spores 7–9 × 5–6 μm; cheilocystidia 12–55 × 5–15 μm; on deciduous wood, e.g. *Clematis* and *Lonicera*, desiccation-adapted; scattered, only S–SW *Chaetocalathus craterellus*
Cap surface and margin glabrous; rather fragile. Cap up to 15 mm wide; spores globose, 5–6 × 4.5–5.5 μm; cheilocystidia 40–110 × 2–4 μm; on deciduous branches; in damp forests with a long continuity; common (N), rare towards S *Cheimonophyllum haedinum*
26. Gills or stem with ± cinnamon-buff to yellow (□□□□) colours 27
Gills and stem not cinnamon-buff or yellow 28
27. Without a stem; cap surface in mature specimens hairy; spores 4–6 × 2–3 μm, inamyloid see *Phyllotopsis nidulans*, C3
With a stem where the gills end in a well-defined, transverse zone; cap initially hairy but when mature greasy and glabrous; spores 4–6.5 × 1–2 μm, amyloid. Cap up to 100 mm wide; pleuro- and cheilocystidia 40–60 × 7.5–16 μm; almost always on deciduous wood and mostly in late season; common *Sarcomyxa serotina*
28. As young with an obvious, lilac to violet (■) mycelial felt at the base of the stem, usually also with lilac to violet colours on the cap 29
Without lilac and violet colours 30
29. Cap surface finely felt. Cap 40–120 mm wide; with skeletal hyphae; spores 5.5–7 × 2.5–3.5 μm; pleuro- and cheilocystidia 30–60 × 6–16 μm; on deciduous wood, usually *Populus* stumps; common to scattered *Panus conchatus*
Cap surface with coarse hairs. Cap 40–80 mm wide; with skeletal hyphae; spores 4.5–6.5 × 2.5–4 μm; on deciduous wood; rare (S) *Panus rudis*
30. On needle litter, sawdust or wood chips, possibly also rooting to pieces of wood deep in the soil 31
On branches, stumps or trunks 32
31. Spores 5–7.5 (–8.5) × 3.5–4.5 (–5) μm; with many thick-walled, spindle-shaped pileocystidia. Cap 18–85 mm wide; spores broadly ellipsoid to ellipsoid, Q 1.4–1.7; with a 100–475 μm thick, gelatinous layer in the cap flesh; without capitate pileocystidia; mostly on deciduous wood; in calcareous, deciduous forests or on piles in sawmills, etc.; rare to scattered *Hohenbuehelia petaloides*
Spores (7–) 7.5–9.5 × (4–) 4.5–5 (–5.5) μm; with rather few thick-walled, spindle-shaped pileocystidia. Cap up to 100 mm wide; spores ellipsoid, Q 1.7–1.9; with a 50–100 μm thick, gelatinous layer in the cap flesh; with thin-walled, capitate pileocystidia with goo; on coniferous wood or rooting to pieces of wood, in parks; rare *Hohenbuehelia tremula*



-  32. Fruitbodies rather large to large, fleshy 33
Fruitbodies small to medium-sized, not fleshy 39
33. Cap surface densely covered with hairs; flesh with a 1–2 mm thick, gelatinous layer above the gills. Cap up to 70 (–100) mm wide, cream to pinkish buff; gills ± cream; spores 7.5–8.5 × 3.5–4.5 µm; cheilocystidia slightly wavy, about 40 × 5 µm; with clamps; on *Fagus* and *Populus*; rare (S & E) *Resupinatus vetlinianus*
Cap surface not hairy; without a thick, gelatinous layer 34
-  34. Young fruitbodies with a veil covering the gills. Cap surface felty, up to 130 (–180) mm wide; spores 8.5–15.5 (–17) × (2.5–) 3–5 (–5.5) µm; on deciduous wood, e.g. *Fagus* or fruit trees, rare on coniferous wood; common *Pleurotus dryinus*
Almost or entirely without a veil 35
35. On the roots of *Eryngium*. Cap up to 120 (–150) mm wide; stem ± central; spores 10–13 × 4–5.5 µm; rare (S–SW) *Pleurotus eryngii*
On wood 36
-  36. Young specimens dark grey to bluish grey (♀ ■ ■ ■); mostly appearing after the first frost and until April in the north. Cap up to 150 (–350) mm wide; spores (7–) 8–12.5 × (2–) 3–4.5 (–5.5) µm, spore deposit greyish violet; mostly on deciduous wood, often *Fagus*, rare on coniferous wood; common *Pleurotus ostreatus*
Young fruitbodies paler; appearing in the warm season 37
-  37. Fruitbodies rather small (less than 50 mm) with an excentric stem; cap surface ± brownish rose (♀ ■ ■ ■); on relatively thin branches in *Salix* carrs. Cap up to 60 mm wide; spores (6.5–) 7–12 × 3.5–4.5 (–5) µm; rare or overlooked *Pleurotus ostreatus* var. *praecox*
Larger or with centrally positioned stem; cap usually with other colours; mostly on larger trunks 38
-  38. Fruitbodies distinctly funnel-shaped with very deeply decurrent and cross-connected (anastomosing) gills. Cap up to 100 (–150) mm wide; spores 7–11 (–12) × 3.5–5 µm; on deciduous wood, often *Ulmus*; rare (N–E), scattered S–SW *Pleurotus cornucopiae*
Fruitbodies somewhat funnel-shaped to more convex; gills not distinctly cross-connected down the stem. Cap up to 110 (–180) mm wide; spores (7.5–) 8–11 (–12.5) × 3–4.5 µm; on larger deciduous trunks, often *Fagus*; common *Pleurotus pulmonarius*
-  39. Fruitbodies without an obvious gelatinous cap cuticle; cap smooth to flaky; in species with lateral stems the gills end in a well-defined zone across the stem; spores amyloid [*Panellus*] 40
-  Fruitbodies with gelatinous cap cuticle; cap usually hairy, especially towards the base; without well-defined transition between gills and stem; spores inamyloid 44
-  40. With a veil. Cap up to 20 mm wide, attached to substrate on the upper side; spores 3–5.5 × 1–1.5 µm; cheilocystidia somewhat thick-walled, 16–30 × 4–10 µm; mostly on *Alnus* wood; rare (N and higher altitudes in the S) *Tectella patellaris*
Without a veil 41
-  41. Taste bitter. Cap up to 30 (–45) mm wide, surface cracking; spores 4–5 × 2–2.5 µm; cheilocystidia irregularly club-shaped, 40–90 × 5–8 µm; on wood of *Quercus*, less commonly *Fagus*, *Betula* and other deciduous trees and very rarely on coniferous wood; common *Panellus stipticus*
Taste mild 42

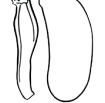
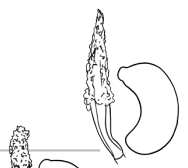
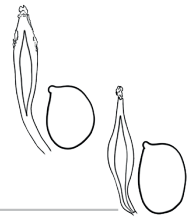


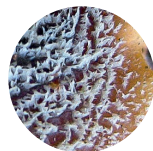
42. With a distinct, lateral stem; young fruitbodies ± white (□); spores $3.5\text{--}6 \times 1\text{--}1.5 \mu\text{m}$. Cap up to 25 mm wide; cheilocystidia absent; almost exclusively on coniferous wood, mostly twigs of *Picea*; common, mostly late in autumn *Panellus mitis*
- Cap usually attached to substrate on the upper side and totally without stem; fruitbodies already from the beginning clay-pink to ± brownish rose (■ ■ ■ ■); spores larger 43
43. Spores $5\text{--}7 \times 1\text{--}2 \mu\text{m}$. Cap up to 30 mm wide; cheilocystidia $21\text{--}33 \times 4\text{--}6.5 \mu\text{m}$; on deciduous wood, rarely on coniferous wood, usually on still attached branches; scattered (N), rare (S) *Panellus ringens*
- Spores $6.5\text{--}10 \times 2.5\text{--}3.5 \mu\text{m}$. Cap up to 15 mm wide; cheilocystidia $22\text{--}35 \times 3\text{--}5 \mu\text{m}$; on *Salix* and other deciduous trees, rarely on coniferous wood; rare (S, higher altitudes) *Panellus violaceofulvus*
44. With narrow-necked, branched cheilocystidia, but without thick-walled pleurocystidia with crystals (metuloids); spores usually globose to ellipsoid, rarely sausage-shaped [*Resupinatus* p.p.] 45
- With both narrow-necked cheilocystidia and thick-walled pleurocystidia with crystals; spores nearly always elongated [*Hohenbuehelia* and others] 52
45. Spores sausage-shaped. Cap 1–9 mm wide, pale mouse grey to dark grey; gills dark at maturity; spores $6\text{--}7 \times 3\text{--}3.5 \mu\text{m}$, Q 1.7–2.3; on deciduous and coniferous wood; rare (S) *Resupinatus europaeus*
- Spores globose to ellipsoid 46
46. Spores ellipsoid, $6\text{--}7.5 \times 3.7\text{--}4.6 \mu\text{m}$, Q 1.4–1.9 see *Resupinatus niger*, cpl. 57
- Spores globose to subglobose, spore Q 1–1.3 47
47. Cap whitish to pale grey (◐ ◑ ◒); spores $5.5\text{--}6.5 \mu\text{m}$ long. Cap up to 8 mm wide, but usually smaller; gills few and distant, whitish to pale grey; spores $5.5\text{--}6.5 \times 4.5\text{--}6 \mu\text{m}$, Q 1.04–1.26; on *Vitis*, *Juniperus* and possibly other hosts; rare or overlooked *Resupinatus hausknechtii*
- Cap darker (◓ ◔ ◕ ◖ ◗ ◘ ◙) and/or spores shorter 48
48. Fruitbodies up to 4 mm wide 49
- At least some fruitbodies more than 4 mm wide 50
49. Cap not striped or at most striped when very old; on deciduous trees (*Fagus* and *Quercus*). Cap 1–3 mm wide, attached on the back as a small cyphelloid, greyish to light reddish grey; gills usually few, distant, paler than the cap; spores $5\text{--}5.5 \times 4\text{--}4.5 \mu\text{m}$, Q 1.1–1.3; rare or overlooked *Resupinatus kavinae*
- Cap distinctly striped; on coniferous wood (*Pinus*). Cap usually obliquely attached, 1–4 mm wide, clay-pink, greyish violet to vinaceous brown; gills distant, paler than the cap; spores $5\text{--}5.5 \times 4\text{--}5 \mu\text{m}$, Q 1–1.2; rare (S) *Resupinatus striatulus*
50. Fruitbodies 15–25 mm wide; spore width $3.5\text{--}4.5 \mu\text{m}$. Cap with mouse-grey hairs; gills mouse grey; spores $4.4\text{--}5.2 \times 3.5\text{--}4.5 \mu\text{m}$, av. 4.8×4.2 , Q 1.07–1.25; on *Fagus*; rare (S) *Resupinatus rouxii*
- Fruitbodies smaller; spore width $4.5\text{--}5.5 \mu\text{m}$ 51
51. Cap on older fruitbodies with prominent, black felt at the inner parts. Cap up to 12 mm wide, not striped, greyish; gills medium spaced, typically slightly paler than the cap; spores $4.5\text{--}6 \times 4\text{--}5.5 \mu\text{m}$, Q 1–1.17; mostly on deciduous wood, e.g. in old hedges, mostly during winter; common *Resupinatus trichotis*
- Cap felt sparse, ash grey to greyish brown. Cap up to 8 mm wide, only weakly striped, greyish; gills medium spaced, coloured like the cap; spores $5\text{--}5.5 \times 4.5\text{--}5 \mu\text{m}$, Q 1–1.17; mostly on deciduous wood, mostly during winter; common *Resupinatus applicatus*



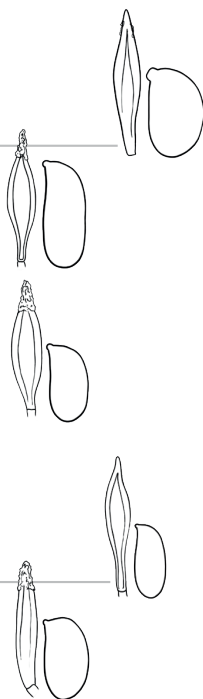


52. Fruitbodies almost spatula-shaped with an obvious, lateral stem; pleurocystidia 50–100 μm long 53
53. Fruitbodies kidney- to hoof-shaped without a well-defined stem; pleurocystidia 25–75 μm long 54
53. On deciduous, rarely coniferous wood – often on *Fagus*; with upright, thin-walled pileocystidia but never with thick-walled. Cap up to 10 (–20) mm wide; spores (4.5–) 5–6.5 $\times$ 3.5–4.5 (–5) μm ; in $\pm$ unmanaged forests with lots of dead wood; rare *Hohenbuehelia auriscalpium*
On coniferous wood, mostly *Picea*; without thin-walled pileocystidia but sometimes with thick-walled. Cap up to 40 mm wide; spores 5.5–6.5 (–7) $\times$ 4–5 (–5.5) μm ; rare *Hohenbuehelia abietina*
54. Gills vinaceous grey, greyish brown, dark grey to blackish (◀ ). 55
Gills white, cream, pale buff to very pale ash grey (◀ ). 58
55. Most spores $\pm$ bean-shaped. Cap 4–15 mm wide, greyish brown to dark grey, finely scaly; gills somewhat distant, clay-pink, greyish to almost blackish; spores 7–8 $\times$ 3.5–4 μm ; pleurocystidia thick-walled with crystals, 27–33 $\times$ 6.5–10 μm ; on *Abies*; rare (S–SE) *Hohenbuehelia josserandii*
Spores mostly ellipsoid 56
56. Cheilocystidia club-shaped to spindle-shaped with blunt ends, usually imbedded and hard to find; gills vinaceous grey to greyish brown (◀ ). Cap up to 15 mm wide, usually stem-like compressed towards the attachment point, $\pm$ hoof-shaped; spores 6–9 $\times$ 3–4.5 μm , Q 1.6–2; pleurocystidia thick-walled with crystals, 20–60 $\times$ 6–10 μm ; on the bark of dead deciduous trees; scattered (N), rare (S) *Hohenbuehelia unguicularis*
Cheilocystidia spindle-shaped with $\pm$ pointed ends, usually protruding and conspicuous; gills greyish to blackish (◀ ). 57
57. Spores 7.5–9 $\times$ 4–5 μm . Cap 3–15 mm wide, dark grey to black with paler felt; gills distant, greyish to almost blackish; spores ellipsoid, Q 1.6–2.1; pleurocystidia thick-walled, with crystals, 26–40 $\times$ 7–8.5 μm ; on deciduous and coniferous wood; rare (N) *Hohenbuehelia mustialensis*
Spores 6–7.5 $\times$ 3.5–4.5 μm . Cap 4–12 mm wide, obliquely attached, slightly felty towards the base, dark grey to dark bluish grey; gills rather distant, thicker towards the edge, dark grey to blackish; spores ellipsoid, Q 1.4–1.9; pleurocystidia thick-walled, with crystals, 28–45 $\times$ 7–10 μm ; on deciduous wood; rare (S) *Resupinatus niger*
58. Gills distant, usually fewer than 10 full-length gills; cap 2–15 mm wide; spores $\pm$ bean-shaped 59
Gills more crowded or more numerous; cap wider; spores subglobose to $\pm$ ellipsoid 60
59. Spores highly curved, 7.5–10 $\times$ 3–4.4 μm , averaging about 8.2 $\times$ 3.6 μm ; cap almost or entirely glabrous. Cap 2–12 mm wide, clay-buff to pale mouse grey; gills white; spore Q 1.9–2.7; on herbaceous stems or branches of *Sambucus* and similar; scattered to rare (N) *Hohenbuehelia cyphelliformis*
Spores moderately curved, 8.7–11.5 $\times$ 4.2–5.4 μm , averaging about 10.1 $\times$ 4.8 μm ; cap at maturity with pale, basal felt. Cap 2–15 mm wide, clay-buff to pale mouse grey; gills pale grey; spore Q 1.8–2.4; on twigs and herbaceous stems; rare (S) *Hohenbuehelia leightonii*
60. Spores 4.5–5.5 $\times$ 3.5–4 μm , globose to subglobose. Cap 15–50 mm wide, pale mouse grey to clay-buff, finely downy, more deeply hairy towards the base; gills crowded, whitish; spore Q 1.1–1.3; on deciduous wood; rare (S–SE) *Hohenbuehelia wilhelmii*
Spores larger and ellipsoid 61



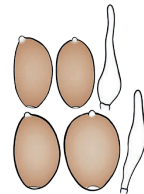
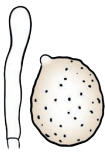
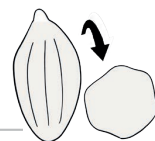
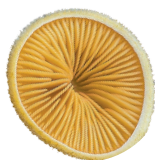


61. Cap covered with robust, dark scales; cap surface pale vinaceous brown, dark greyish brown to dark grey-brown (☞ ) , darkest towards base. Cap 20–45 (–100) mm wide; gills crowded, whitish; spores 7–8.5 × 4.5–5.5 μm, av. 7.7 × 5 μm, Q 1.4–1.7; on deciduous and coniferous wood; rare *Hohenbuehelia valesiaca*
Cap without dark scales towards the margin; paler 62
62. Basidia mostly 2-spored; spores 7.5–12.5 × 3–5.5 μm. Cap up to 20 mm wide; on deciduous twigs, mostly in the canopy of *Salix* in willow carrs, rarely on *Pinus* twigs; common *Hohenbuehelia fluxilis*
Basidia 4-spored; spores up to 9 × 4.5 μm 63
63. With an approximately 1 mm thick, gelatinous layer in the cap flesh; with pale felt, usually aggregated in pointed tufts. Cap up to 50 mm wide; gills crowded, cream to yellowish; spores 6–9 × 3–4.5 μm; in clusters on deciduous wood; scattered *Hohenbuehelia mastrucata*
With thinner gelatinous layer in the cap flesh; cap felt more regular 64
64. Cap cuticle with cystidia with sticky heads. Cap 10–60 mm wide; gills medium spaced to crowded; the central cap flesh of thin-walled hyphae; spores 5.5–8.5 (–9.5) × 3–4.5 (–5) μm; on deciduous wood, mostly *Quercus*, less commonly on coniferous wood; scattered *Hohenbuehelia atrocoerulea*
Cap cuticle without cystidia with sticky heads. Cap 10–40 mm wide; gills medium spaced to crowded; the central cap flesh of thick-walled hyphae; spores (5–) 6–8.5 (–9) × 3–4.5 μm; scattered *Hohenbuehelia grisea*



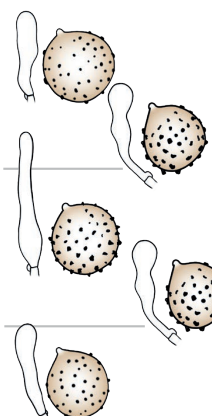
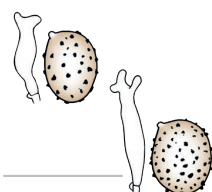
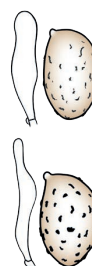
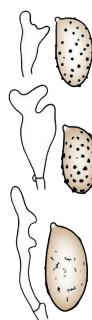
Key C – pleurotoid fungi with gills and brownish rose to brown spore deposit

1. Spore deposit brownish rose () 2
Spore deposit ± brown () 4
2. Spores with longitudinal ridges; with a mealy smell see *Clitopilus*, p. 246
Spores not with longitudinal ridges; with or without a mealy smell . . . 3
3. Fruitbodies yellowish with cinnamon-buff gills (); spores cylindrical to sausage-shaped. Cap up to 60 (–80) mm wide, felty to coarse-haired; spores 4–6 × 2–3 μm; on deciduous wood, usually on exposed wood and usually during winter; common to scattered, rare in oceanic parts *Phyllotopsis nidulans*
Fruitbodies white to ash grey; spores angular to nodulose see *Entoloma*, p. 250
4. Stem more than 15 mm thick, with dark grey-brown felt. Cap up to 150 mm wide; gills usually cross-connected; spores 5–6 × 3–4 μm, smooth; on coniferous wood in plantations and forests; common *Tapinella atrotomentosa*
Stem absent or thinner and without dark felt 5
5. Gills thick, near the fruitbody attachment point irregularly cross-veined; without cheilocystidia. Cap up to 80 mm wide; without a stem, possibly with violet felt near the attachment point; moderately thick-fleshed; spores 4–6 × 3–4 μm, smooth; on coniferous wood, mostly *Pinus*, also on processed timber; common *Tapinella panuoides*
Gills normal, thin and not cross-connected; with cheilocystidia 6
6. On mosses, typically on bark of living trees. Cap 1–10 mm wide, downy from cystidia, ± pinkish buff; gills distant, coloured like the cap; spores finely warty, 7.5–10.5 × 6–8 μm; basidia 2–4-spored; with cylindrical to wavy cheilo-, pleuro-, pileo- and caulocystidia; with clamps; rare *Chromocyphella lamellata*
Not on mosses 7
7. Stem short but present; spores smooth 8
Stem almost or entirely absent; spores ornamented or smooth [*Crepidotus*] . . . 11
8. Cap margin toothed from veil remnants; cap curry yellow to yellowish brown. Cap up to 20 mm wide; basidia 2-spored; spores 8–11 × 6–7.5 μm, smooth; cheilocystidia club-shaped; with clamps; on deciduous wood; rare (S–SW; oceanic) *Pleuroflammula ragazziana*
Cap margin not toothed from veil remnants; cap olivaceous buff, clay-buff to brown 9
9. Cap ± olivaceous buff (), pruinose (from pileocystidia) see *Simocybe haustellaris*, p. 391
Cap clay-buff to brown (), without olive shades, finely felty [*Deconia* p.p.] . . . 10
10. On grasses, less commonly sedges; cap flesh with a gelatinous layer; spores 3–4 μm wide see *Deconica phillipsii*, p. 347
On wood, rarely rotten textiles and similar; cap flesh without a gelatinous layer; spores 4–5 μm wide see *Deconica horizontalis*, p. 347
11. Fruitbodies entirely dark clay-pink, rose to scarlet () 12
Fruitbodies white, cream to brownish (), without shades of rose or pink 14



12. Fruitbodies dark clay-pink. Cap 7–22 mm wide; spores 5–8 (–7.5) × (3.5–) 4–5 (5.5) µm, ± spiny; basidia 2- or 4-spored; cheilocystidia club-shaped to slightly branched; with clamps; mostly on wood of *Populus*; rare (S) *Crepidotus brunneoroseus*
Fruitbodies bright pink, coral to scarlet 13
13. Fruitbodies coral to scarlet (■ ■ ■). Cap 5–25 mm wide; gill edges concolorous with cap, darker than sides; spores 6–8 × 5–6.5 µm, Q 1–1.3, warty; without clamps; on bark of fallen deciduous trees, e.g. *Fraxinus*, often near *Crepidotus mollis*; rare *Crepidotus cinnabarinus*
Fruitbodies rose (■ ■ ■). Cap 4–10 mm wide; gill edges coloured as the sides; spores 6–8 × 5–7 µm, spiny; cheilocystidia coralloid-branched; with clamps; mainly on wood of *Robinia*; rare (S) *Crepidotus roseoornatus*
14. The upper cap flesh gelatinous (can be stretched when pulling the fruit-body from two sides) 15
Cap flesh not gelatinous (not stretchable), fragile 16
15. Cap without scales or with small, scattered pale scales. Cap up to 50 (–80) mm wide; spores 7–10 × 5–6.5 µm, ellipsoid, Q 1.3–1.7, smooth; without clamps; on deciduous wood, mainly *Populus* and *Fraxinus*; common *Crepidotus mollis*
Cap with numerous small, tightly spaced, pointed, brown scales. Spores 7–10 × 5–6.5 µm, ellipsoid, Q 1.3–1.7, smooth; without clamps; on *Populus* and other deciduous trees; rare to scattered *Crepidotus calolepis*
16. Fruitbodies rather large and emerging directly from clayey soil; spores smooth. Cap up to 50 mm wide; spores 7–9 × 5–6 µm, Q 1.3–1.7; with clamps; often on (coastal) slopes in deciduous woodlands; rare (NE) *Crepidotus autochthonus*
Fruitbodies small to rather large, on wood and debris; spores ornamented or smooth 17
17. Cap hairy-scaly from yellowish brown to cinnamon (■ ■ ■) hairs; gills yellowish (■ ■ ■), red with KOH. Cap up to 10 mm wide; spores globose, 5–6.5 (–7) µm in diameter, rough; with clamps; on deciduous wood; rare (S–E) *Crepidotus crocophyllus*
Cap paler; gills not distinctly yellow, not red with KOH 18
18. Fruitbodies small and very tightly spaced; cheilocystidia with finger-like projections, up to 30 µm, ± often encrusted. Cap up to 10 mm wide, with a yellowish tinge; spores 5–6.5 × 4.5–6.5 µm, Q 1–1.25, rough; with clamps; on deciduous twigs; rare *Crepidotus carpaticus*
Fruitbodies small to large but not very crowded; cheilocystidia variable (may be branched), longer, not encrusted 19
19. Hyphae without clamps (easiest to find on the cap hairs); spores almost hyaline (under the microscope) 20
Hyphae with clamps; spores distinctly brown 21
20. Spores spindle-shaped to narrowly drop-shaped, 2.5–3.5 µm wide, Q more than 2.1; cheilocystidia with a long thin neck, simple to branched. Cap up to 20 mm wide; spores 6.5–9.5 × 2.5–3.5 µm; on fallen leaves and herbaceous debris, rarely on wood; common *Crepidotus epibryus*
Spores ellipsoid to slightly spindle-shaped, 5–6.5 µm wide, Q less than 2.1; cheilocystidia cylindrical to somewhat flask-shaped, never branched. Cap up to 25 mm wide; spores 8.5–12 × 5–6.5 µm; on deciduous wood, less commonly on debris; common (N–NE), scattered to rare (S–SW) *Crepidotus versutus*
21. Spore Q 1.4–2.3, Qav. more than 1.4 22
Spore Q 1–1.5, Qav. less than 1.4 27

22. Spores 2.5–4 μm wide 23
 Spores more than 4 μm wide 24
23. Cheilocystidia 19–29 $\times$ 4.5–7 μm . Cap up to 17 mm wide; spores 6–7 $\times$ 3–4 μm , Q 1.8–2.3, narrowly ellipsoid to almost cylindrical; on deciduous wood; rare (S–E) *Crepidotus cinnamomeus*
 Cheilocystidia more than 30 $\times$ 7 μm . Cap up to 10 mm wide; spores 5.5–7.5 $\times$ 2.5–4 μm , Q 1.6–2.3, narrowly ellipsoid to almost cylindrical; cheilocystidia may be unbranched; mostly on deciduous wood; common *Crepidotus variabilis*
24. Spores almost spindle-shaped, Q 1.6–2.2; fruitbody white to yellowish (□□□), especially at inner parts; mostly on herbaceous stems. Cap up to 30 (–60) mm wide; spores 7.5–10 $\times$ 4–5.5 μm ; common to rare (N) *Crepidotus luteolus*
 Spores egg-shaped, ellipsoid to almond-shaped, never almost spindle-shaped, Q up to 1.7; fruitbody $\pm$ white (□), never with yellow shades; mostly on wood 25
25. Spores smooth see *Crepidotus autochtonus*, cpl. 16
 Spores $\pm$ ornamented 26
26. Spores almost smooth; spores $\pm$ ellipsoid to very slightly almond-shaped; cheilocystidia with broad tip. Cap up to 30 mm wide; spores 6.5–9.5 $\times$ 4.5–6 μm , Q 1.4–1.7; mostly on deciduous branches; common *Crepidotus caspari*
 Spores distinctly warty; spores distinctly almond-shaped; cheilocystidia tapering upwards, rather irregular. Cap up to 10 mm wide; spores 7.5–10 $\times$ 5–6.5 μm , Q 1.4–1.7; mainly on thin deciduous branches on calcareous localities; rare or overlooked *Crepidotus subverrucisporus*
27. Cap not hygrophanous; cheilocystidia $\pm$ branched at the tips 28
 Cap hygrophanous; cheilocystidia not branched at the tips 29
28. Spores $\pm$ egg-shaped to broadly ellipsoid, Q 1.2–1.5, Qav. 1.37. Cap up to 40 mm wide; spores 6–9 $\times$ 4.5–7 μm , finely spiny; on coniferous wood; common *Crepidotus kubickae*
 Spores globose to egg-shaped, Q 1–1.3, Qav. 1.14. Cap up to 25 mm wide; spores 6–9 $\times$ 5.5–7.5 μm , finely spiny; mostly on deciduous wood, often high in the trees; common *Crepidotus cesatii*
29. On deciduous wood 30
 On coniferous wood 31
30. Spores (5–) 6–7.5 (–9.5) $\times$ (5–) 6–7.5 (–9.5) μm . Cap 10–50 mm wide; cheilocystidia club-shaped; rare (S–E) *Crepidotus malachius*
 Spores (4–) 5–5.5 (–7) $\times$ (4–) 5–5.5 (–7) μm . Cap 5–50 mm wide; spores distinctly warty; cheilocystidia typically broadly club-shaped; common *Crepidotus applanatus*
31. Cheilocystidia flask-shaped; spores (5–) 6–7.5 $\times$ 5–7 μm . Cap 10–30 mm wide; spores distinctly warty; rare or overlooked *Crepidotus stenocystis*
 Cheilocystidia mostly widest above; spores smaller 32
32. Cheilocystidia broadly club-shaped see *Crepidotus applanatus*, cpl. 30
 Cheilocystidia usually narrowly club-shaped. Cap up to 7–50 mm wide; spores (4.8) 5.5–6.5 (–7) $\times$ (4.8–) 5–6 (–7) μm ; on *Pinus*; rare or overlooked *Crepidotus pini*



Clitocyboids

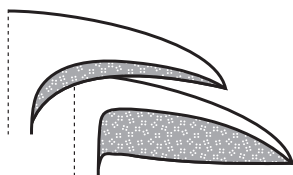
Clitocyboid agarics have short to deeply decurrent gills. The cap is umbonate, applanate or funnel-shaped and the flesh is fibrillose but not very tough. Some species form small fruitbodies, but most are medium-sized to very large. Most clitocyboids have white to cream spore deposits, but in some species belonging to the genera *Clitocybe* and *Paralepista* they are clay-pink.

Almost all clitocyboids are decomposers of litter or soil. Exceptions include, e.g., *Ossicaulis* and *Omphalotus*, which are lignicolous. *Hygrophoropsis* and *Aphroditeola* may also grow on remnants of wood. *Catathelasma* forms ectomycorrhiza with conifers.

The generic division of the clitocyboid agarics has gone through large changes, with many species previously accepted in *Leucopaxillus* and *Clitocybe* now being assigned to a number of new genera.

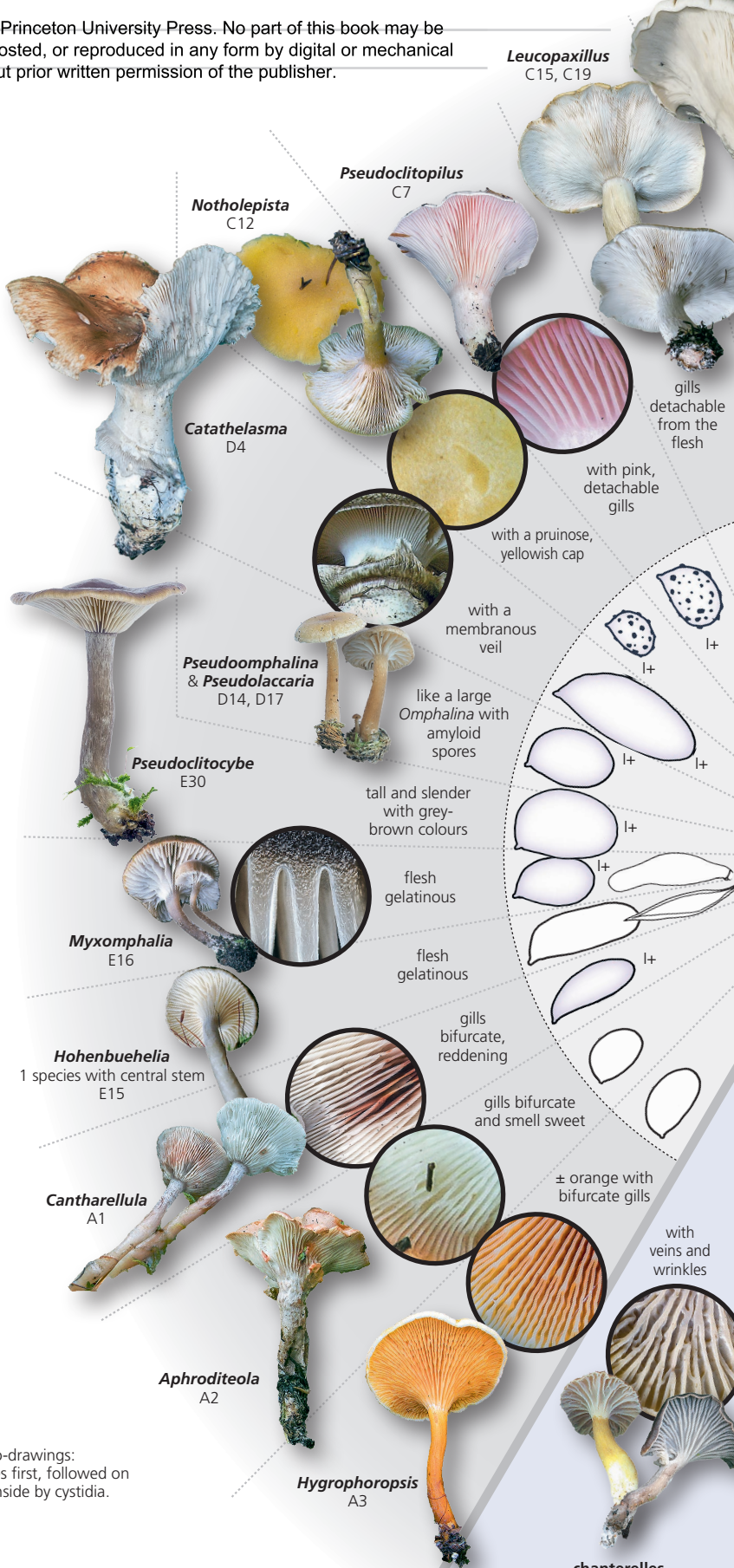
OTHER SIMILAR FUNGI:

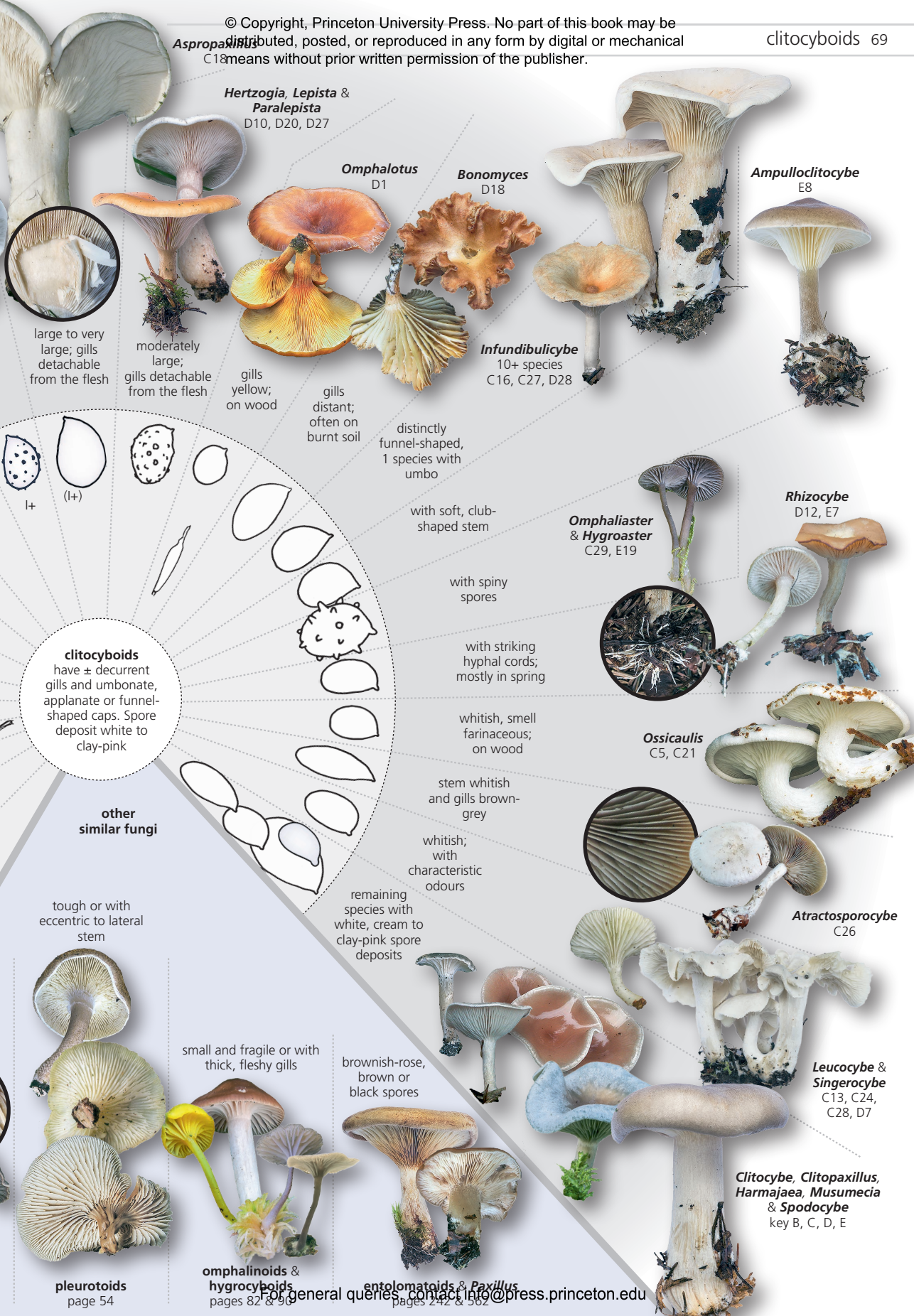
- omphalinoids are mostly more fragile and smaller. Some have a biotrophic association with mosses or algae, others are decomposers (page 82).
- pleurotoids likewise have deeply decurrent gills but have eccentric or absent stems. Many of these (e.g. *Neolentinus* and *Lentinellus*) have distinctly tough flesh (page 54).
- entolomatoids may be shaped like clitocyboids, but have brownish-rose, verrucose, striate or angular spores (page 242).
- paxilloids have brownish spore deposits (page 562).



deep and short decurrent gills

Micro-drawings:
spores first, followed on
the inside by cystidia.





Hertzogia, Lepista & Paralepista
D10, D20, D27

Omphalotus
D1

Bonomyces
D18

Ampulloclitocybe
E8

Infundibulicybe
10+ species
C16, C27, D28

Rhizocybe
D12, E7

Omphaliaster & Hygroaster
C29, E19

Ossicaulis
C5, C21

Atractosporocybe
C26

Leucocybe & Singerocybe
C13, C24, C28, D7

Clitocybe, Clitopaxillus, Harmajaea, Musumecia & Spodocybe
key B, C, D, E

omphalinoids & hygrocyboids
pages 82 & 96

entolomatoids & Paxillus
pages 242 & 362

pleurotoids
page 54

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clitocyboids
have ± decurrent gills and umbonate, applanate or funnel-shaped caps. Spore deposit white to clay-pink

other similar fungi

tough or with eccentric to lateral stem

small and fragile or with thick, fleshy gills

brownish-rose, brown or black spores

remaining species with white, cream to clay-pink spore deposits

whitish; with characteristic odours

stem whitish and gills brown-grey

whitish, small farinaceous; on wood

with striking hyphal cords; mostly in spring

with spiny spores

with soft, club-shaped stem

distinctly funnel-shaped, 1 species with umbo

gills distant; often on burnt soil

gills yellow; on wood

moderately large; gills detachable from the flesh

large to very large; gills detachable from the flesh

Key to groups of clitocyboid fungi

1. Gills regularly bifurcate **key A**
Gills without or with only a few bifurcations 2
2. Spores pale brown (under the microscope) and finely spiny; cap margin ± hairy (lens!) see *Ripartites*, p. 392
Spores whitish (under the microscope) and/or smooth; cap margin mostly glabrous or downy 3
3. Gills thick and waxy or veined/wrinkled **key B**
Gills normal 4
4. Cap white, cream, yellowish or greenish (☞ ) **key C**
Cap ± rose, brownish or greyish 5
5. Cap brownish rose, rose to vivid brown (☞ ) **key D**
Cap greyish to greyish brown (☞ ) **key E**

Key A – with bifurcate gills

1. Cap ash grey (☞ ) ; gills reddening when bruised; spores amyloid. Cap 10–50 mm wide; spore deposit white; spores 8–11 × 3–4 μm, ± spindle-shaped, smooth; amongst moss on acidic, ± sandy soil; scattered to rare in NW lowlands *Cantharellula umbonata*
Cap cream, pale buff, orange to orange-brown or with brownish rose shades (☞ ) ; gills not changing colour; spores inamyloid 2
2. Cap with a brownish rose tinge (☞ ) ; smell very sweetish-nauseating, slightly like strawberry; spores 3.5–4.5 × 2.5–3 μm, not dextrinoid. Cap 10–50 mm wide; spore deposit whitish; on debris in ± calcareous coniferous forests; rare (N) to ± absent going S *Aphroditeola olida*
Cap cream, orange to orange-brown (☞ ) , without a flesh-pink tinge; smell insignificant; spores larger and dextrinoid 3
3. Cap with brownish orange to orange-brown felt (☞ ) . Cap 30–100 mm wide; spore deposit whitish; spores 5–6.5 (–7) × (3–) 3.5–4.5 μm; usually on wood chips in deciduous and coniferous forests; rare (but variously interpreted) *Hygrophoropsis rufa*
Cap without brown felt 4
4. Cap pale to deeply apricot orange (☞ ) , or paler cream () to towards the margin; spores 5–7 × 3.5–4.5 μm. Cap 30–80 mm wide; spore deposit whitish; on debris or wood in coniferous forests, rarer in mixed forests or on disturbed land (typically after tree clearing); common *Hygrophoropsis aurantiaca*
Cap cream to pale buff (☞ ) ; spores 6–9 (–10) × 3.5–5 μm. Cap 15–50 mm wide; spore deposit whitish; on debris in coniferous forests, less commonly in mixed forests or on disturbed land, e.g. on boggy-turfy soils; scattered *Hygrophoropsis pallida*

(continued...)

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The following index includes all species, varieties and forms treated in this book. See also the genus index inside the cover.

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