


























































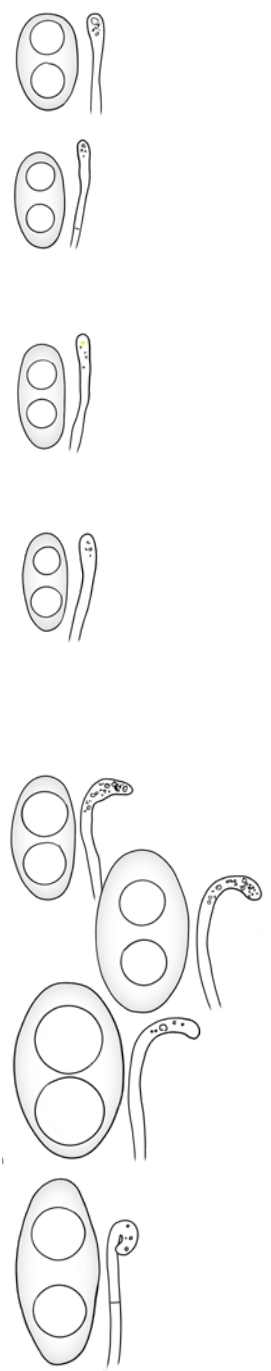


















































































































































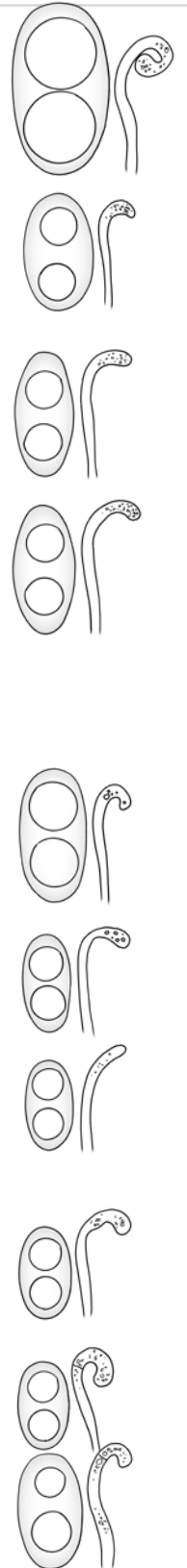


Key J – *Otidea* sl. – mostly with sliced fruitbodies and bend paraphyses

1. Outside in young fruitbodies partially with clear yellow to lemon-yellow (☞ ) colours; paraphyses tops ± straight 2
 Outside ± buff, buff-yellow, apricot-orange, cinnamon or brown (☞    ); paraphyses tops bend or hooked 5
2. Base smooth to somewhat wrinkled; spore-Q-av. 1.7-2 3
 Base obviously veined; spore-Q-av. 2-2.3 4
3. Outside buff to buff-yellow; spores 6-7 µm wide, Q-av. 1.7; lappland. Fruitbody up to 22 x 15 mm large; hymenium pinkish buff; spores (10-) 10.5-11.5 x 6-7 µm; paraphyses tops mostly straight; on calcareous soil, probably with *Picea*; rare *Otidea borealis*
 Outside partially lemon-yellow; spores 5.5-6.5 µm wide, Q-av. 1.8-2; widespread. Fruitbody up to 70 x 65 mm large; hymenium pale sulphur-yellow to pinkish buff; spores (10-) 10.5-12 x (5-) 5.5-6.5 µm; paraphyses tops mostly straight; with deciduous trees on calcareous soil; rather rare *Otidea concinna*
4. Fruitbody obviously sliced at one side; a collection typically contains fruitbodies both with and without veins; spore-Q-av. 2.1-2.3; paraphyses often with a bright yellow refracting body. Fruitbody up to 35 x 40 mm large; hymenium pale sulphur-yellow to pinkish buff; spores (10-) 10.5-12.5 (-13) x (4.5-) 5-5.5 (-6) µm; paraphyses tops straight to bend; with coniferous and deciduous trees on calcareous soil; rather rare *Otidea minor*
 Fruitbody hardly sliced; all fruitbodies normally strongly veined; spore-Q-av. 2-2.1; paraphyses not with a bright yellow refracting body, but possibly with smaller yellow guttules. Fruitbody up to 12 x 40 mm large; hymenium ± cream, sometimes with pinkish spots; spores (9.5-) 10- 11.5 (-12) x (4.5-) 5-5.5 (-6) µm; paraphyses tops straight to bend; with coniferous and deciduous trees on calcareous soil; rare *Otidea phlebophora*
5. Outside buff-yellow to apricot-orange (☞  ); hymenium often with pinkish (☞     spots 6
 Outside ± buff, honey-yellow, ± brown to dark blueish grey (☞    ); hymenium never with pinkish spots 7
6. In temperate lowlands; hymenium first cream (☞  ), later pinkish buff to pale peach (☞  ); spores (11-) 12-13.5 (-14) x (5.5-) 6-7 µm. Fruitbody 100 x 80 mm large; spore-Q-av. 1.8-2; paraphyses hooked; with various coniferous and deciduous trees on mineral rich or calcareous ground; common *Otidea onotica*
 Boreal or alpine; hymenium first pale cinnamon (☞  ), later ± buff yellow (☞  ); spores (17-) 18-21 x (9-) 10-11.5 (-12) µm. Fruitbody 70 x 45 mm large; spore-Q-av. 1.7-1.8; paraphyses hooked; often on thick needle debris of *Picea abies*; rather common *Otidea cantharella*
7. Fruitbody a long stemmed cup. Fruitbody up to 20 x 35 mm large; hymenium orange-brown, reddish brown to vinaceous brown; outside slightly paler; spores (18-) 19-21 x 10-12.5 µm, Q-av. 1.6-1.7; paraphyses hooked; with coniferous trees; widespread; rare *Otidea propinquata*
 Fruitbody sliced, either ± ear- or boat-shaped 8
8. Outside ± dark brown to dark blueish grey (☞                   9
 Outside ± buff, honey-yellow to pale brown (☞                   13
9. Spores 20-24.5 µm long. Fruitbody up to 30 x 15 mm large; hymenium cinnamon, fawn to reddish brown; spores 20-24.5 x 9-11 µm, Q-av. 2.1; paraphyses hooked; with coniferous trees; widespread; rare *Otidea apophysata*
 Spores shorter 10



10. Spores 10.5-12 µm wide. Fruitbody up to 70 x 75 mm large; hymenium dark yellowish brown to fuscous; spores 18-22 x (9.5-) 10.5-12 µm spore-Q-av. 1.7-1.8; paraphyses mostly hooked; widespread; rare *Otidea platyspora*
 Spores more narrow 11
11. Spores ellipsoid; spore-Q-av. 1.6-1.7. Fruitbody up to 35 x 25 mm large; hymenium dark orange brown; spores (11-) 11.5-14 (-15) x 6.5-8.5 µm, Q-av. 1.6-1.7; paraphyses hooked; with coniferous trees on calcareous soil; boreal; rare *Otidea brunneoparva*
 Spores fusiform; spore-Q-av. higher 12
12. Outside as fresh with vinaceous grey to dark blueish grey (☞                         colours; middle flesh without or with wing-like crystals. Fruitbody up to 65 x 50 mm large; hymenium rather dark brown; spores (13-) 13.5-16 (-17) x 6-7 (-7.5) µm, Q-av. 2.1-2.3; paraphyses curved to hooked; with coniferous trees; widespread; rare *Otidea mirabilis*
 Outside dark orange-brown, reddish brown to dark greyish brown (☞                        ); flesh with dark brown goo or with brown, irregular crystals. Fruitbody up to 45 x 35 mm large; hymenium rather dark brown to olivaceous; spores (12-) 13-16.5 (-18) x 6-7.5 (-8) µm, Q-av. 1.9-2.5; paraphyses hooked; with *Abies* and deciduous trees; widespread; common *Otidea bufonia*
13. In deciduous forest 14
 In coniferous forest 17
14. Outside ± honey-yellow (☞                        ), with age darker; spores 18-22 x (9.5-) 10.5-12 µm see *Otidea platyspora*, cp. 10xx
 Outside ± buff to cinnamon (☞                        ); spores smaller 15
15. Spores 6.5-7.5 µm wide. Fruitbody up to 75 x 50 mm large; hymenium ± clay buff; spores 13.5-) 14.5-16.5 (-17.5) x 6.5-7.5 (-8) µm, Q-av. 2.1-2.2; paraphyses curved to hooked; often in parks and roadsides; widespread; common *Otidea alutacea*
 Spores less than 6.5 µm wide 16
16. Hymenium ± cinnamon buff (☞                        ); spore av. length 11.2-11.8 µm. Fruitbody up to 60 x 50 mm large; spores (10.5-) 11-12.5 x 5.5-6.5 µm, Q-av. 1.9; paraphyses curved to hooked; often in parks and roadsides; widespread; rare *Otidea caeruleopruinosa*
 Hymenium cream to pinkish buff (☞                        ); spore av. length 10-10.6 µm. Fruitbody up to 70 x 50 mm large; spores 9.5-11 x (4.5-) 5-6 µm, Q-av. 1.9-2; paraphyses ± curved; ± boreal; rare *Otidea flavidobrunneola*
17. Fruitbody narrowly boat-shaped 18
 Fruitbody broader, cup to paper cone-like 20
18. Outside with prominent, often dark warts; flesh yellow with KOH. Fruitbody up to 60 x 30 mm large; hymenium cream to cinnamon buff; spores (9.5-) 10-11 (-12) x 5.5-6.5 (-7) µm, Q-av. 1.7-1.9; paraphyses curved to hooked; widespread; rather common. *Otidea tuomikoskii*
 Outside with small, inconspicuous warts; flesh reddish or not reacting with KOH 19
19. Spores (9-) 9.5-10.5 (-11.5) x 5.5-6.5 (-7) µm, Q-av. 1.6-1.9. Fruitbody up to 35 x 15 mm large; hymenium ± cinnamon buff; paraphyses curved to hooked; widespread; rather common *Otidea nannfeldtii*
 Spores (12-) 12.5-14 (-15) x 7-8.5 µm, Q-av. 1.6-1.8. Fruitbody up to 55 x 25 mm large; hymenium ± cinnamon buff to cinnamon; paraphyses curved to hooked; widespread; common *Otidea leporina*



- 20. Spores 12.5 - 14 µm long; widespread see *Otidea leporina*, cp. xx
 Spores shorter; boreal, alpine or southern 21
- 21. Outside with prominent, often dark warts; fruitbodies up to 30 x 33 mm. Fruitbody up to 55 x 25 mm large; hymenium cinnamon to cinnamon buff; spores 9.5-11 (-11.5) x 5.5-6.5 µm, Q-av. 1.6-1.7; paraphyses curved to hooked; boreal (Finland); rare *Otidea papillata*
 Without prominent warts; fruitbodies larger 22
- 22. Hymenium and outside fawn to reddish brown (☞☞■ ■■); spore av. length 10-10.7 µm; boreal or alpine. Fruitbody up to 22 x 20 mm large; spores 9.5-11 (-11.5) x (5.5-) 6-7 µm, Q-av. 1.6-1.7; paraphyses curved to hooked; rather common *Otidea formicarum*
 Hymenium and outside ± cinnamon (☞☞■ ■■); spore av. length 11.1-11.7 µm; southern. Fruitbody up to 22 x 20 mm large; spores 10.5-12 x 6-6.5 µm, Q-av. 1.7-1.9; paraphyses curved to hooked; rare
 *Otidea subformicarum*

