

THE LACTARIAE OF NORTH AMERICA— FASCICLES I AND II*

GERTRUDE S. BURLINGHAM

1. LACTARIA PIPERATA (L.) Pers. Tent. Disp. Meth.

Fung. 64. 1797

Agaricus piperatus L. Sp. Pl. 1173. 1753.

Agaricus Listeri With. Brit. Pl. ed. 2. 3: 288. 1792.

HABITAT: In oak woods or groves.

DISTRIBUTION: In the eastern and southern United States, in the middle west, and in California.

2. LACTARIA PERGAMENA (Sw.) Fries, Epicr.

Myc. 340. 1838

Agaricus pergamenus Sw. Kongl. Sv. Vet. ac. Handl. II. 30: 90. 1809.

HABITAT: In oak woods.

DISTRIBUTION: In the United States east of the Mississippi.

3. LACTARIA VELLEREA Fries, Epicr.

Myc. 340. 1838

Agaricus vellereus Fries, Syst. Myc. I.: 76. 1821.

HABITAT: In rather open deciduous woods.

DISTRIBUTION: In the eastern United States from Maine to Alabama.

4. LACTARIA DECEPTIVA Peck, Ann. Rep. N. Y. State

Bot. 38: 125. 1885

HABITAT: In woods under or near hemlock trees; only rarely in oak-chestnut woods.

DISTRIBUTION: In the eastern United States from Maine to Alabama.

* Most of the specimens in these two fascicles are accompanied by photographs of the living plants.

5. *LACTARIA GLAUDESCENS* Crossl. Nat. 1900: 5. 1900

HABITAT: On the ground in sandy loam or in vegetable soil, oak-chestnut woods.

DISTRIBUTION: Pisgah Forest, North Carolina, at 1,000 meters elevation.

6. *LACTARIA TORMINOSA* (Schaeff.) Pers. Tent. Disp.
Meth. Fung. 64. 1797

Agaricus torminosus Schaeff. Fung. Bav. Icon. 4: 7 (index). 1774.

*Lactaria** *villosa* Clements, Bot. Surv. Neb. 4: 20. 1896.

HABITAT: In either coniferous or deciduous woods.

DISTRIBUTION: From Maine to Alabama, and west to Colorado and Nebraska.

7. *LACTARIA RESIMA* Fries, Epicr. Myc. 336. 1838

Agaricus resimus Fries, Hym. Eur. 472. 1821.

HABITAT: In mixed woods, chiefly in mountainous regions.

DISTRIBUTION: New York; Windham County, Vermont, at an elevation of about 500 meters.

8. *LACTARIA SPECIOSA* Burl. Mem. Torrey Club 14: 34. 1908

HABITAT: In sandy soil, oak-chestnut woods, in dry as well as wet weather.

DISTRIBUTION: North Carolina, Tennessee, and Virginia, from 670 to 1,200 meters elevation.

9. *LACTARIA CROCEA* Burl. Mem. Torrey Club 14: 37. 1908

HABITAT: In vegetable mold and dead leaves, oak-chestnut woods.

DISTRIBUTION: Pisgah Forest, North Carolina, at 1,000 meters elevation.

10. *LACTARIA RUSTICANA* (Scop.) Burl. Mem. Torrey
Club 14: 27. 1908

Agaricus rusticanus Scop. Fl. Carn. 2: 452. 1772.

Agaricus pyrogalus Bull. Herb. Fr. pl. 529, f. 1. 1791. Hist. Champ. 1: 487.

* *Lactaria* is here used uniformly, although spelled *Lactarius* by most authors.

Lactarius pyrogalus Fries, Epicr. Myc. 339. 1838.

HABITAT: In open grassy places in woods.

DISTRIBUTION: New York, Vermont, Ohio, and Maryland.

11. LACTARIA AGGLUTINATA Burl. Mem. Torrey
Club 14: 42. 1908

HABITAT: In oak-chestnut woods.

DISTRIBUTION: Pisgah Forest, North Carolina, at an elevation of 1,000 meters.

12. LACTARIA TURPIS (Weinm.) Fries, Epicr.
Myc. 335. 1838

Agaricus Necator Pers. Syn. Fung. 435. 1801. Not *Agaricus Nector* Bull. Herb. Fr. pl. 14; pl. 529, f. 2. 1780.

Agaricus turpis Weinm. Syl. Pl. Nov. 2: 85. 1828.

Lactarius sordidus Peck, Ann. Rep. N. Y. State Mus. 23: 119. 1872.

HABITAT: On the ground in mixed woods, often near fir or spruce trees.

DISTRIBUTION: From Maine to Ohio, and probably in North Carolina.

13. LACTARIA ASPIDEOIDES Burl. Bull. Torrey
Club 14: 87. 1907

HABITAT: In a grassy hillside sheep-pasture, near small fir trees.

DISTRIBUTION: Newfane, Vermont.

14. LACTARIA LIVIDORUBESCENS (Batsch) Burl. Mem.
Torrey Club 14: 49. 1908

Agaricus lividorubescens Batsch, Elench. Fung. 2: 51. pl. 36, f. 202. 1789.

Agaricus uvividus Fries, Obs. Myc. 2: 191. 1818.

Lactaria uvida Fries, Epicr. Myc. 338. 1838.

Lactarius livescens Passerini, Nuovo Giorn. Bot. Ital. 4: 105. 1872.

HABITAT: On the ground in moist mixed woods.

DISTRIBUTION: Eastern United States as far south as Maryland.

15. LACTARIA INSULSA Fries, Epicr.

Myc. 336. 1838

Agaricus insulsus Fries, Syst. Myc. I.: 68. 1821.

HABITAT: On the ground in rather open places in oak-chestnut woods.

DISTRIBUTION: From Maine to Alabama and Missouri.

16. LACTARIA AFFINIS Peck, Rep. N. Y. State

Cab. 23: 118. 1873

Lactaria platyphylla Peck, Rep. N. Y. State Cab. 23: 118. 1873.

HABITAT: In mixed balsam and maple woods.

DISTRIBUTION: Maine, Vermont, and Massachusetts.

17. LACTARIA TRIVIALIS Fries, Epicr.

Myc. 337. 1838

Agaricus trivialis Fries Obs. Myc. I.: 61. 1815.*Lactaria deflexa* Lindblad, Monogr. Lact. Suec. 8. 1855.

HABITAT: In deciduous woods.

DISTRIBUTION: Eastern United States from New Hampshire to North Carolina and west to Tennessee and Missouri.

18. LACTARIA CIRCELLATA Fries, Epicr.

Myc. 338. 1838

Agaricus circellatus Fries, Hym. Eur. 426. 1821.

HABITAT: In moist mixed woods.

DISTRIBUTION: Newfane, Vermont, at an elevation of 500 meters.

19. LACTARIA HYGGINA Fries, Epicr.

Myc. 337. 1838

Agaricus hygginus Fries, Syst. Myc. I.: 67. 1821.

HABITAT: In moist woods, especially near spruce trees; often in grassy borders of woods.

DISTRIBUTION: New York, Maine, Newfane and Stratton, Vermont.

20. LACTARIA MUCIDA Burl. Mem. Torrey

Club 14: 56. 1908

HABITAT: Under hemlocks in moist places.

DISTRIBUTION: Newfane and Stratton, Vermont; Pisgah Forest, North Carolina.

21. LACTARIA DELICIOSA (L.) Fries, Epicr.
Myc. 341. 1838

Agaricus deliciosus L. Sp. Pl. 1172. 1753.

HABITAT: In moist woods, especially under firs and hemlocks.

DISTRIBUTION: Eastern United States from Maine to Florida, in Colorado, and probably in California.

22. LACTARIA SUBPURPUREA Peck, Ann. Rep. N. Y.
State Mus. 29: 43. 1878

HABITAT: In moist woods in the vicinity of hemlocks.

DISTRIBUTION: New York, Vermont, Massachusetts, Connecticut, and North Carolina.

23. LACTARIA QUIETA Fries, Epicr. Myc. 343. 1838

Agaricus quietus Fries, Syst. Myc. I.: 69. 1821.

HABITAT: In fir and spruce woods as well as in deciduous woods.

DISTRIBUTION: New York and Stratton, Vermont.

24. LACTARIA NITIDA Burl. Bull. Torrey
Club 34: 89. 1907

HABITAT: In moist woods, or open borders of woods.

DISTRIBUTION: Newfane and Stratton, Vermont.

25. LACTARIA OCLATA (Peck) Burl. Bull. Torrey
Club 34: 89. 1907

Lactaria subdulcis oculata Peck, Bull. N. Y. State Mus. 67:
37. 1903.

HABITAT: Under coniferous trees often in moss.

DISTRIBUTION: New York, Newfane and Stratton, Vermont.

26. LACTARIA MINUSCULA Burl. Bull. Torrey
Club 34: 88. 1907

HABITAT: In moist woods, in moss or on decayed wood, under yellow birches, black gum, and black oak.

DISTRIBUTION: New York, Vermont, and North Carolina.

27. LACTARIA CINEREA Peck, Rep. N. Y. State
Bot. 24: 73. 1872

HABITAT: Under beeches or among beech leaves.

DISTRIBUTION: Eastern United States from Maine as far south as North Carolina.

28. LACTARIA THEIOGALA (Bull.) Fries, Epicr.
Myc. 342. 1838

Agaricus theiogalus Bull. Herb. Fr. pl. 567, f. 2. 1793. Hist. 1:
495. 1809.

Hypophyllum lateritium Paulet, Paulet & Lévillé, Icon. Champ.
59. 1855.

Lactaria brevipes Longyear, Rep. Mich. Acad. Sci. 3: 59. 1901.

Lactaria brevis Peck, Bull. N. Y. St. Mus. 94: 33. 1905.

Lactaria xanthogalacta Peck, Bull. Torrey Club 34: 346. 1907.

HABITAT: In dry or moist woods under fir, spruce or oak trees.

DISTRIBUTION: From Maine to Alabama, and in California.

29. LACTARIA HELVA Fries, Epicr.
Myc. 347. 1838

Agaricus helvus Fries, Syst. Myc. I.: 72. 1821.

Lactaria aquiflua Peck, Rep. N. Y. State Mus. 28: 50. 1877.

Lactaria aquiflua brevissima Peck, Rep. N. Y. State Mus. 51:
298. 1897.

HABITAT: In mossy, rather wet woods or marshes.

DISTRIBUTION: From Ontario, Canada to Pennsylvania and probably North Carolina.

30. LACTARIA PECKII Burl. Mem. Torrey
Club 14: 76. 1908

HABITAT: In moist grassy wood-trails, and open places near brooks, or even in bare clay banks, in oak-chestnut woods.

DISTRIBUTION: Long Island, Staten Island, North Carolina, Alabama.

31. LACTARIA ALPINA Peck, Ann. Rep. N. Y. State
Mus. 27: 96. 1875

HABITAT: Borders of woods.

DISTRIBUTION: From New York and Vermont to Alabama.

32. LACTARIA GRISEA Peck, Ann. Rep. N. Y. State
Mus. 23: 119. 1873

HABITAT: In moist mossy places in woods, on the ground or on decaying wood.

DISTRIBUTION: From Maine to New York and Connecticut and in North Carolina.

33. LACTARIA BENSLEYAE Burl. Bull. Torrey
Club 34: 87. 1907

HABITAT: In black moist soil under yellow birch and spruce trees.

DISTRIBUTION: Newfane, Vermont.

34. LACTARIA GLYCIOSMA Fries, Epicr.
Myc. 348. 1838

Agaricus glyciosmus Fries, Obs. Myc. 2: 194. 1818.

HABITAT: On the ground or on decaying wood, in woods.

DISTRIBUTION: New York, Vermont, and Missouri.

35. LACTARIA HIBBARDAE Peck, Jour.
Myc. 14: 2. 1908

HABITAT: On the ground under pine or spruce and fir trees.

DISTRIBUTION: Massachusetts and Vermont.

36. LACTARIA PLINTHOGALA (Otto) Burl. Mem. Torrey
Club 14: 84. 1908

Agaricus azonites Bull. Hist, Champ. 2: 497. 1809. Herb. Fr.
pl. 567, f. 3. 1791. Probably not *Lactaria azonites* Gillet.

Agaricus plinthogalus Otto, Versuch. Agar. 75. 1816.

Agaricus fuliginosus Fries, Syst. Myc. I.: 73. 1821.

Lactaria fuliginosa Fries, Epicr. Myc. 348. 1838.

Lactaria fumosa Peck, Ann. Rep. N. Y. State Mus. 24: 74. 1872.

Lactariella azonites (Bull.) Schröt. in Cohn, Krypt.-Fl. Schles.
3: 544. 1889.

HABITAT: In deciduous or mixed woods.

DISTRIBUTION: Maine, Vermont, New York, Pennsylvania, North Carolina, and Alabama.

37. LACTARIA LIGNIOTA Fries, Monogr. 2: 177. 1863

Lactaria fuliginosa major Fries, Epicr. 348. 1838.

Lactariella ligniota Schröt. in Cohn, Krypt.-Fl. Schles. 3: 544. 1889.

HABITAT: On the ground in mossy wet woods, especially under fir trees.

DISTRIBUTION: New York, Vermont, Connecticut, New Jersey, and North Carolina.

38. LACTARIA GERARDII Peck, Ann. Rep. N. Y. State Mus. 26: 65. 1874

HABITAT: On the ground in woods or groves.

DISTRIBUTION: New York, Vermont, Pennsylvania, District of Columbia, and North Carolina.

39. LACTARIA SALMONEA Peck, Bull. Torrey Club 25: 369. 1898

HABITAT: In wet swampy places, usually on bare ground that has been overflowed.

DISTRIBUTION: Alabama and Mississippi.

40. LACTARIA LACTIFLUA (L.) Burl. Mem. Torrey Club 14: 90. 1908

Agaricus lactifluus L. Sp. Pl. 1172. 1753.

Agaricus oedematopus Scop. Fl. Carn. 2: 453. 1772.

Agaricus testaceus Alb. & Schw. Consp. Fung. 209. 1805.

Agaricus volemus Fries, Syst. Myc. I.: 69. 1821.

Lactaria volema Fries, Epicr. Myc. 344. 1838.

HABITAT: In woods or groves, especially in the vicinity of oaks.

DISTRIBUTION: Eastern United States from Maine to Alabama and Mississippi, and west to Indiana and Missouri.

41. LACTARIA HYGROPHOROIDES Berk. & Curt. Ann. Mag. Nat. Hist. III. 4: 10. 1859

Lactaria distans Peck, Ann. Rep. N. Y. State Mus. 23: 117. 1873.

HABITAT: Mixed woods.

DISTRIBUTION: From Maine to District of Columbia, and in Mississippi, Missouri, and Indiana.

42. LACTARIA CORRUGIS Peck, Ann. Rep. N. Y. State
Mus. 32: 31. 1880

HABITAT: Moist woods, especially in mixed oak-chestnut-maple woods.

DISTRIBUTION: From New York south to Alabama and Mississippi, and west to Tennessee and Missouri.

43. LACTARIA CAMPHORATA (Bull.) Fries, Epicr.
Myc. 346. 1838

Agaricus camphoratus Bull. Herb. Fr. pl. 567, f. 1. 1791. Hist. Champ. 493. 1809.

HABITAT: Most abundant in moist mixed woods.

DISTRIBUTION: From New York and Vermont south to Alabama and Tennessee.

44. LACTARIA RIMOSELLA Peck, Bull. N. Y. State
Mus. 105: 37. 1906

HABITAT: In mixed woods, under beech trees, also on bare soil in woods or by roadsides.

DISTRIBUTION: New York and Vermont.

45. LACTARIA SUBDULCIS (Pers.) Fries, Epicr.
Myc. 345. 1838

Agaricus lactifluus dulcis Bull. Herb. Fr. pl. 224, A, B. 1784.

Agaricus subdulcis Pers. Syn. Meth. Fung. 433, 434. 1801.

Lactaria subseriflua Longy. Rep. Mich. Ac. Sci. 1901: 57, 59. 1902.

HABITAT: In woods, or on the borders of woods.

DISTRIBUTION: From Maine south to Alabama and Missouri and west to Illinois.

46. LACTARIA ISABELLINA Burl. Bull. Torrey
Club 34: 88. 1907

HABITAT: In leaf-mold or sphagnum, in moist mixed or spruce woods.

DISTRIBUTION: Vermont and North Carolina.



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