

Key to main groups of bryoparasitic Pezizales

(some species may key out twice)

by Jan Eckstein

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1	Spores globose or nearly so ($Q \leq 1.1$), ornamented.....	2
1*	Spores subglobose, ellipsoid or fusiform ($Q > 1.1$), ornamented or not.....	9
2	Spore ornamentation consisting solely of warts or tubercles	3
2*	Spores ornamentation consisting of ridges, sometimes additionally with warts.....	4
3	Spores ornamented with large wart or tubercles mostly $> 1 \mu\text{m}$ wide <i>Lamprospora esterlechnerae</i>, <i>L. maireana</i>, <i>L. rehmi</i>, <i>L. tuberculata</i>, <i>L. tuberculatella</i>	
3*	Spores ornamented with small warts, mostly $< 1 \mu\text{m}$ wide <i>Lamprospora ecksteinii</i>, <i>L. lubucensis</i>, <i>L. lutziana</i>, <i>L. spinulosa</i>, <i>L. tuberculatella</i>, <i>Octospora affinis</i>, <i>O. svrcekii</i>, <i>O. wrightii</i>	
4	Spores ornamented by fine ridges $0.1\text{-}0.2 \mu\text{m}$ wide, host the liverwort <i>Aneura pinguis</i> <i>Lamprospora aneurae</i>	
4*	Spore ornamentation consisting of broader ridges, parasitic on mosses.....	5
5	Ridges of spore ornamentation at least partly $> 2 \mu\text{m}$ wide <i>Lamprospora annulata</i>, <i>L. arvensis</i>, <i>L. bavarica</i>, <i>L. dicranellae</i>, <i>L. moynei</i>	
5*	Ridges of spore ornamentation $< 2 \mu\text{m}$ wide	6
6	Spore ornamentation consisting of curved ridges with at least some loose ends, not forming a reticulum or reticulum incomplete <i>Lamprospora ascoboloides</i>, <i>L. leptodictya</i>, <i>L. paechnatzii</i>	
6*	Spore ornamentation consisting of curved or straight ridges without loose ends, forming a complete reticulum, sometimes straight ridges can be reduced in various degrees and forming an incomplete reticulum (i.e. <i>L. miniata</i> s.l.)	7
7	Spore ornamentation with curved ridges forming an alveolate reticulum (Seaveri-type) <i>Lamprospora cailletii</i>, <i>L. hispanica</i>, <i>L. norvegica</i>, <i>L. seaveri</i>	
7*	Spore ornamentation with straight ridges forming an areolate reticulum	8
8	Ridges of spore ornamentation $1.5\text{-}3 \mu\text{m}$ high <i>Lamprospora areolata</i>, <i>L. australis</i>	
8*	Ridges of spore ornamentation mostly less than $1.5 \mu\text{m}$ high <i>Lamprospora campylopodis</i>, <i>L. carbonicola</i>, <i>L. dictydiola</i>, <i>L. ditrichi</i>, <i>L. faroensis</i>, <i>L. feurichiana</i>, <i>L. gotlandica</i>, <i>L. hanfii</i>, <i>L. kristiansenii</i>, <i>L. miniata</i> s.l., <i>L. minuta</i>, <i>L. rugensis</i>, <i>L. spitzbergensis</i>, <i>L. tortulae-ruralis</i>	
9	Spores ornamented	10
9*	Spores smooth or nearly so (ornamentation hardly visible under the light microscope at 1000x magnification).....	13
10	Spore ornamentation consisting of ridges forming a \pm reticulate pattern <i>Lamprospora gotlandica</i>, <i>L. leptodictya</i>, <i>L. retispora</i>, <i>Neottiella aphanodictyon</i>, <i>N. albocincta</i>, <i>N. rutilans</i>, <i>O. canariensis</i>, <i>Octospora neerlandica</i>	
10*	Spore ornamentation consisting of isolated warts	11
11	Asci 4-spored or 4-8-spored <i>Octospora alpestris</i>, <i>O. phagospora</i>	
11*	Asci predominantly 8-spored	12

12	Spores > 22 µm long, ellipsoid, narrowly ellipsoid or fusiform <i>Neottiella vivida</i>, <i>O. bridei</i>, <i>O. echinospora</i>, <i>O. megapolitana</i>	
12*	Spores ≤ 22 µm long, subglobose, broadly ellipsoid or ellipsoid <i>Octospora affinis</i>, <i>O. americana</i>, <i>O. cashii</i>, <i>O. ciervensis</i>, <i>O. erzbergeri</i>, <i>O. fissidentis</i>, <i>O. heterosculpturata</i>, <i>O. ithacaensis</i>, <i>O. meslinii</i>, <i>O. moravecii</i>, <i>O. orthotrichi</i>, <i>O. pseudoampezzana</i>, <i>O. similis</i>, <i>O. splachnophila</i>, <i>O. svrcekii</i>, <i>O. texensis</i>, <i>O. wrightii</i>	
13	Asci 4-spored or 4-8-spored	14
13*	Asci predominantly 8-spored	15
14	Spores on average > 27 µm long <i>Octospora axillaris</i> var. <i>tetraspora</i>, <i>O. coccinea</i> var. <i>tetraspora</i>	
14*	Spores on average < 27 µm long <i>Octospora gemmicola</i> var. <i>tetraspora</i>, <i>O. itzerottii</i>, <i>O. leucoloma</i> var. <i>tetraspora</i>	
15	Spores on average < 20 µm long <i>Octospora bryi-argenti</i>, <i>O. gyalectoides</i>, <i>O. hetieri</i>, <i>O. humosa</i>, <i>O. lilacina</i>, <i>O. mnii</i>, <i>O. nemoralis</i>, <i>O. rubens</i>, <i>O. rustica</i>, <i>O. subglobispora</i>	
15*	Spores on average > 20 µm long.....	16
16	Spores on average > 13 µm wide <i>Neottiella ricciae</i>, <i>Octospora excipulata</i>, <i>O. grimmiae</i>	
16*	Spores on average < 13 µm wide <i>Octospora axillaris</i>, <i>O. coccinea</i>, <i>O. gemmicola</i>, <i>O. grimmiae</i>, <i>O. guestfaliensis</i>, <i>O. gyalectoides</i>, <i>O. humosa</i>, <i>O. leucoloma</i>, <i>O. musci-muralis</i>, <i>O. musci-muralis</i> var. <i>neglecta</i>	