

## Key for species currently recognized in the *Basidioidendron caesiocinereum* complex

1. Basidiospores smooth.....2
- 1\*. Basidiospores ornamented .....4
2. Basidiospores  $5.1\text{--}7.8 \times 5.3\text{--}8.1 \mu\text{m}$ , basidia  $12\text{--}24 \times 7\text{--}11.5 \mu\text{m}$ , occasionally with a distinct stalk-like base. Eurasia, almost exclusively on angiosperms  
*B. caesiocinereum*
- 2\*. Basidiospores on average smaller,  $5.1\text{--}6.8 \times 5.2\text{--}7 \mu\text{m}$ , basidia  $10\text{--}18 \times 7\text{--}10.5 \mu\text{m}$ , devoid of stalk-like base .....3
3. Eurasia, almost exclusively on gymnosperms (*Abies*, *Picea*..... *B. glaucum*
- 3\*. North America, exclusively on angiosperms .....*B. robenae*
4. Basidiospores warted..... 5
- 4\*. Basidiospores spiny .....8
5. Basidia glued in groups. Europe, mostly on gymnosperms ..... *B. cinerellum*
- 5\*. Basidia exposed. On various hosts.....6
6. Basidiocarps arid, opaque. Subhymenial hyphae well visible, ascending. Gloeocystidia tapering or tubular-clavate,  $15\text{--}38 \times 5\text{--}11 \mu\text{m}$ . Temperate Europe, exclusively on angiosperms (*Erica*, *Castanea*, *Quercus*) .....*B. walleyonii*
- 6\*. Basidiocarps waxy, hymenium often gelatinized. Subhymenium hyphae usually poorly discernible, glued together. Gloeocystidia tapering,  $13\text{--}45 \times 3\text{--}8 \mu\text{m}$ . Eurasia and North America, mostly on gymnosperms ..... 7
7. Basidiospores distinctly warted,  $4.8\text{--}7.4 \times 5.0\text{--}7.8 \mu\text{m}$ . Eurasia and North America..... *B. trachysporum*
- 7\*. Basidiospores minutely warted,  $5.0\text{--}6.2 \times 5.2\text{--}6.5 \mu\text{m}$ . North American North-West ..... *B. inconspicuum*
8. Basidia glued in groups. South Africa (Malawi), on gymnosperms..... *B. widdringtoniae*
- 8\*. Basidia exposed. On various hosts.....9
9. Basidiospores with spines up to  $0.6 \mu\text{m}$  long.....10
- 9\*. Basidiospores with spines up to  $0.4 \mu\text{m}$  long .....11
10. Basidia  $9\text{--}10 \times 6\text{--}7.5 \mu\text{m}$ , basidiospores  $4.6\text{--}5.2 \times 4.8\text{--}5.8 \mu\text{m}$ . Oceania ..... *B. spinosum*
- 10\*. Basidia  $13\text{--}18 \times 9\text{--}12 \mu\text{m}$ , basidiospores  $6.0\text{--}7.9 \times 6.2\text{--}8.2 \mu\text{m}$ . Europe ..... *B. groningenae*
11. Basidia  $12\text{--}15.5 \times 9.5\text{--}12 \mu\text{m}$ , basidiospores  $5.9\text{--}7.3 \times 6.1\text{--}7.4 \mu\text{m}$ . Mexico (highlands), on gymnosperms .....*B. mexicanum*

11\*. Basidia  $15-24 \times 10-12 \mu\text{m}$ , basidiospores  $6.9-8.2 \times 7.1-8.9 \mu\text{m}$ . Mexico (subtropical zone), on ferns (Cyathea).....*B. spiculosum*