mentioned here in passing, the name being so intimately connected with the nomenclature of *Sordaria*. Of the two original species, *H. fimeti* ([Pers.] Fr.) Kickx and *H. merdaria* (Fr.) Kickx, the first-mentioned was explicitly selected as type by Clements & Shear (1931). They used the name *H. fimicola* (Rob.) Sacc. but referred to Fuckel (1870), and had thus *H. fimeti* sensu Fuck. in mind, following this author's "intensions" and perhaps also von Höhnel's (1920). I have investigated *S. fimeti* from all angles, including an authentic collection (v. *equina*) in hb. De Candolle (G), and arrived at the conclusion that the name must be rejected as dubious, ambiguous, and confusing; it cannot serve as type species (an account of this study must be omitted here). The only reasonable possibility is to base *Hypocopra* on *H. merdaria*. This agrees with modern praxis and was also done by von Arx & Müller (1954: 293) even though they erroneously credited the selection to Cain. It may be added that an eventual, future sanctioning of Korf & Roger's 'schizo-typification' method (1967) might threaten *Hypocopra*; in such a case a conservation of *H. merdaria* as type is recommendable. Compare also Krug's (1970) monograph of the genus.

Key to the Nordic species

1. Spores very narrow in relation to their length; length/width ratio 2–2.5 . . . 2
– Length/width ratio of the spores smaller 3
2. Spores 21–26 × 9.5–12 μ, narrowly ellipsoidal to cylindrical, with a slightly apiculate base; on elk and moose dung . . . . . *S. alcina* p. 326
– Spores (25–)26–31 × 12–14 μ, narrowly ellipsoidal, usually slightly pointed at both ends; on horse dung . . . . . *S. baltica* p. 328
3. Spores obovoid to subglobose, with a somewhat apiculate base 4
– Spores ellipsoidal, sometimes slightly obovoid, but then normally never exceeding 24 × 13 μ 5
4. Spores 18–23 × 12–15 μ, obovoid, occasionally broadly ellipsoidal; gelatinous sheath present . . . . . *S. lappae* p. 315
– Spores 20–25 × 15.5–18 μ, broadly obovoid to subglobose; gelatinous sheath absent . . . . . *S. humana* p. 316
5. Spores (17–)18–24 × (9.5–)11–13 μ . . . . . *S. fimicola* p. 304
– Spores 24–27(–30) × 14.5–17 μ, broadly ellipsoidal, with a slightly apiculate base; gelatinous sheath broad, with a distinct outline . . . . . *S. superba* p. 320
– Spores 24–26 × 13–14 μ, broadly ellipsoidal, with subacute ends; gelatinous sheath thin, indistinct . . . . . *S.* sp. p. 323
– Spores (28–)30–36 × 19–20 μ . . . . . *S. macrospora* p. 323

1. *Sordaria fimicola* (Rob.) Ces. & DeNot. 1863: 226. (Figs. 70 a–c, 71 a, f, h, pls. 60 a–g, 61 a, c)

Sphaeria fimicola Rob. in Desm. 1849: 353. — Coll. orig. on horse dung from Normanville, Seine-Inferieure (and Lion, Calvados) France, VII–IX.1864, Roberge 321 (PC lectotype); Desmazières, Pl. Crypt. France, ed. 1, 2061, 1850; ed. 2(1), 1761, 1851. — *Ixodopsis fimicola* (Rob.) Karst, F. Fenn. Exs. 955, 1870; nom. non planta. —

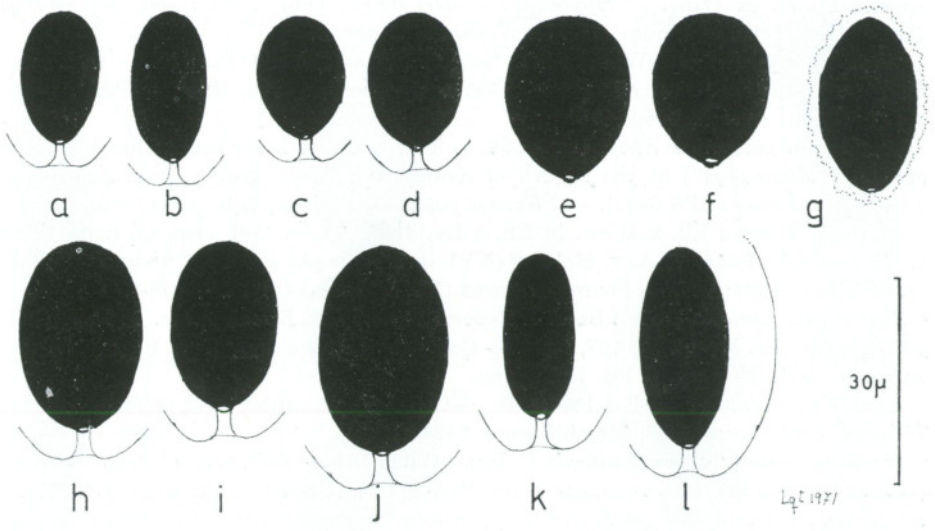

Fig. 70. Silhouettes of *Sordaria* spores; gelatinous sheaths indicated only, except in *g*. *a: S. fimicola*, lectotype, Desmazières, Pl. Crypt. France, ed. 2, 2061 (PC). *b: S. fimicola*, Lqt 1991-b (UPS). *c: Hypoxylon equinum* (=*S. fimicola*), coll. orig. (K). *d: S. lappae*, Lqt 2312-a (UPS). *e: S. humana*, coll. orig., Fuckel, F. Rehn. 1801 (S). *f: S. humana*, Saccardo, Mycoth. Ven. 1181 as *S. fimicola* (UPS). *g: S.* sp., Lqt 3363-c (UPS). *h: S. superba*, N 1868-g (UPS). *i: S. superba*, lectotype (TO). *j: S. macrospora*, Fuckel, F. Rhen. 934 as *Sphaeria stercoris* (UPS). *k: S. alcina*, Lqt 3343-h (UPS). *l: S. baltica*, Pettersson 7.I.1965 (UPS).

Hypocopra fimicola (Rob.) Sacc. 1882: 240. — *Fimetaria fimicola* (Rob.) Griff. & Seav. 1910: 66. — *Pleurage Robini* O.K. 1898: 504; nom. nov. for. *S. fimicola*.

Sphaeria equina Fuck., F. Rhen. 1802, 1866. — Coll. orig. on horse dung from [Östrich, Hessen?] Germany, s. dato, Fuckel (G lectotype); non *Sph. equina* [Pers.] S.F. Gray 1821: 527; nom. dub.; nec *Sph. equina* Fr. in Mont. 1834: 337 =*Podospora fimiseda* (Ces. & DeNot.) Niessl; nec *Sph. equina* Berk. & Rav. in sched. =*Sordaria fimicola*. — *Hypocopra fimeti* ([Pers.] Fr.) Kickx b. *equina* (Fuck.) Fuck. 1870: 241.

Sphaeria equina Berk. & Rav. in sched.; non *Sph. equina* auctt. cet. (see above). — *Hypoxylon equinum* Berk. & Rav. in Berk. 1876: 93. — Coll. orig. on horse dung from South Carolina, USA, s. dato, Ravenel 710, hb. Berkeley (K lectotype). — *Hypocopra hippica* Sacc. 1882: 247; nom. nov. for *Hypoxylon equinum* Berk. & Rav. — *Sordaria hippica* (Sacc.) Cooke 1887: 55.

Sordaria Argentina Speg. 1880*b*: 16. — Coll. orig. on guinea-pig dung from San José de Flores, Buenos Aires City, B.A., Argentina, 9.v.1880, Spegazzini (LPS 7001). — *Hypocopra argentina* (Speg.) Sacc. 1882: 242. — *Pleurage argentina* (Speg.) O.K. 1898: 505.

Sordaria winteri ["*Winterii*"] Oud. 1882*a*: 123. — Coll. orig. on camel dung from Amsterdam, the Netherlands, v.1882, Oudemans (L orig. slide, lectotype); non *S. winteri* ["*Winterii*"] Karst. 1873: 151 =*Podospora appendiculata* (Awd ex Niessl) Niessl; nec *S. winteri* ["*Winterii*"] (Plowr. ex Wint.) Cooke & Plowr. ≡*Delitschia*