

## New genera of fungi XIII. — *Rhodoarhenia*.<sup>1)</sup>

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With the present — and last — contribution, we introduce taxa not belonging to the Agaricales, but which have been discussed earlier in relation to the taxonomy of that order of Basidiomycetes.

### *Rhodoarhenia*

This generic name has been proposed (Agaricales in modern taxonomy, 2nd edition, J. Cramer, Weinheim, 1962, p. 802 but not validly published; compiled by Donk, Taxon 12: 117. 1963) without a formal Latin diagnosis and was meant to include those *Arrenhia*-like forms which enter the so-called *Laschia*-complex (see Singer, R. The *Laschia*-complex, Lloydia 8: 186. 1945) and differ from *Arrenhia auriscalpium*, the type species of the genus *Arrenhia*, in structure, pigmentation and obviously affinity (meruliaceous rather than tricholomataceous!). The species belonging in this new genus are predominantly, and perhaps exclusively, tropical and subtropical. We are now giving the formal diagnosis:

***Rhodoarhenia*** Sing., gen. nov. Carpophoris initio cupuliformibus stipite plus minusve evoluto, nutantibus, hymenophoro e venis anastomosantibus merulioideis efformato; sporis in cumulo albis, cremeis, flavis vel rubellis, s. l. hyalinis vel subhyalinis, levibus, parvis vel mediis (usque ad 9  $\mu$  longis), inamyloideis, e polo nec non

<sup>1)</sup> Earlier contributions under this title have been published in Mycologia 38: 358—368. 1944. — II. Lloydia 8: 139—144. — III. Mycologia 39: 77—89. 1947. — IV. Mycologia 40: 262—264. 1948. — V. Mycologia 43: 598—604. — 1951. — VI. Lilloa 23: 255—258. 1950. (published 1951). — VII. Mycologia 48: 719—727. 1956. — VIII. Persoonia 2: 407—415. 1962. — IX. Lloydia 21: 45—47. 1958. — X. Sydowia 11: 320—322. 1957 (published 1958). — XI. Sydowia 16: 260—262. 1963. — XII. Sydowia 17: 12—16. 1964. — See index at the end of the present contribution.

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lateraliter atque frontaliter visis numquam angula tis nec gibbosis; chiasmatidiis „normalibus“; cystidiis absentibus; superficie sterili ex hyphis tenuibus, plus minusve ramosis sed haud *Marasmiellorum* vel *Asterotorum* modo ramoso-nodis, inamyloideis; tramate partis cupuliformis carpophori partim vel ex integro gelatinoso; pigmento in juvenilibus absente, sed superficiebus plerumque flavescens, fuliginantibus, fulvescentibus, rubentibus. Ad lignum aliaque detrita vegetabilium gregatim. Species typica generis: **R. pezizoides** (Speg.) Sing. (= *Merulius pezizoides* Speg.)

The species belonging here may be distinguished in the following manner:

- A. Spores short ( $5.5-7 \times 4.2-5.5 \mu$ ), purplish red in mass. *R. pezizoides* (Speg.) Sing. c. n. (*Merulius pezizoides* Speg., Bol. Acad. Nac. Cienc. Cord. 11: 455, 1889. Redescription see *Singer*, *Lloydia* 8: 186, 1945.)
- A. Spore print light yellow to white.
  - B. Long-stemmed forms; spore print light yellow to cream
    - C. Lamelliform ridges present; spore print light yellow, deep cream carpophore whitish, staining fuliginous in age; spores  $5.8-8.2 \times 4.5-5.5 \mu$  *R. albocrema* Sing. sp. n. (diagnose see below)
    - C. Hymenophore meruloid
      - D. Carpophore white or whitish, not staining fuliginous, but becoming dull brownish when dried; spores  $4.7-7 \times 3.5-4.1 \mu$ , pale cream in mass *R. nobilis* Sing. (diagnose see below)
      - D. Carpophore entirely yellow *R. vitellina* (Lloyd) Sing. (*Rimbachia vitellina* Lloyd, *Myc. Not.* 5: 803, 1918).
  - B. Short-stemmed forms, spore print said to white.
    - E. Spores  $4-6.2 \times (2)-2.7-3-(4.1) \mu$  *R. flabellula* (Berk & Curt. ex Cooke) Sing. c. n. (*Laschia flabellula* Berk. & Curt. ex Cooke, *Grevillea* 19: 105, 1891; for a redescription see *Dennis*, *Kew Bull.* 1952: 327, material from Trinidad, also seen by the present author).
    - E. Spores  $5.5-7.4 \times 3.5-5.3 \mu^*$  *R. cyphelloides* (Lloyd) Sing. c. n. (*Rimbachia cyphelloides* Lloyd, *Myc. Not.* 5: 802, 1918).

**Rhodoarrhenia albocrema** Sing. sp. n. Cupula pileiformi alba vel albida, glabra, demum maculis fuliginascentibus ornata, siccando sordide brunneola, usque ad 24 mm lata. Hymenophoro configuratione sua Campanellam in mentem revocante, lamellis nonnullis radialibus instructo, his usque ad 1 mm latis et anastomosis angustioribus vel latitudine aequalibus vel veniformibus interconnexis, reticulam efformantibus, flavido (9-F-4/5, Maerz & Paul). Stipite albo vel albido, subobliquo vel curvato, aequali, interdum canaliculato, usque ad  $15 \times 2.5$  mm metiente. Contexto pileo concolori, tenui, sapore miti odore-

\*) The spore measurements indicated here are those obtained from the type specimen kindly lent to me by Dr. Stevenson from the Lloyd collections. The difference in the spores appears to oppose itself to the identification of this with the preceding species.

que nullo gaudente. — Sporis  $5.8-8.2 \times 4.5-5.5 \mu$ , ellipsoideis, levibus, guttula admodum refringente impletis, hyalinis; massa sporarum saturate cremea (10-C-3 Maerz & Paul, in herbario obscuriore, inter „D“ et „F Crawshayi) Basidiis  $27-35 \times 4.5-5 \mu$ , tetrasporis, anguste clavatis, hyalinis; cystidiis nullis; dermatocystidiis nullis; superficie sterili ex hyphis lobgis interdum irregulariter hyphose ramificatis efformata; tramate inter superficiem sterilem et stratum suprahymeniale fortiter gelatinascente; hyphis fibulatis. — Ad truncum emortuum arboris Dicotyledonum, Bolivia, Dpto. La Paz, Nor-Yungas, Carmen Pampa, 19-II-1956, Singer no. B 1271. Typus in LIL et BAFC conservatus est.

**R. nobilis** Sing. spec. nov. Cupula candida, haud fuliginascente, glabra, intus hymenophoro alveolato-reticulato, merulioideo, usque ad 0.7 mm, profundo, initio candido vel cremeo, demum albido, alveolis usque ad 1 mm. diametro ornata, usque ad 26 mm lata. Stipite candido, usque ad  $30 \times 2$  mm, aequali, apice nutante ita ut hymenium latus inferum occupet, glabro, obliquo, bene evoluto. Contexto albo, in statu vegeto vix macroscopice gelatinoso, inodoro. Sporis in massa ante desiccationem cremeo-albidis („polar bear“ Maerz & Paul), in herbario obscurus (Crawshay „D“) coloratis. Sporis  $4.7-7 \times 3.5-4.1 \mu$ , breviter ellipsoideis vel ellipsoideis, contentu refringente, levibus, hyalinis. Hymenio a basidiis  $27-33 \times 4.5-5 \mu$  solis consistente, eis tetrasporis, hyalinis, anguste clavatis vel clavatis; cystidiis nullis. Hyphis tramatis cupulae manifeste gelatinascentibus zona angusta sub superficie sterili et zona angusta epihymeniali exceptis. Hyphis superficialibus sterilis filamentosis, nonnullis irregulariter ramosis, sed levibus. — Ad truncum arboris cuiusdam emortuae stantis, usque ad 3 m supra terram scandentes, gregatim in Bolivia, Dpto. La Paz. Prov. Nor-Youngas, Carmen Pampa, S i n g e r no. B 1274 (LIL, BAFC typus).

### Index

to taxa proposed in „New genera of fungi I—XII, 1944—1963

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| Amparoina MYC 50: 110               | Descolea LIL 23: 256              |
| A. spinosissima l. c.               | D. antarctica l. c. p. 257        |
| Boletochaete MYC 36: 358            | Diacanthodes LLO 8: 141           |
| B. brunneosetosa l. c.              | D. philippinensis l. c.           |
| B. spinifera l. c.                  | Endolepiotula SYD 16: 260         |
| Callistosporium MYC 36: 363         | E. ruizlealii l. c.               |
| C. heimii l. c.; C. palmarum l. c.; | Euconocybe (subgen. of Conocybe)  |
| C. psilocybe l. c.                  | MYC 39: 89.                       |
| Cystoagaricus MYC 39: 85            | Gerronema MYC 43: 599             |
| C. strobilomyces l. c.; C. trisul-  | G. depauperatum, l. c. p. 601; G. |
| phuratus, l. c.                     | elasticum l. c. p. 601; G. mel-   |
| Dermoloma MYC 48: 724               | nomphax l. c. p. 602.             |
| D. atrobunneum l. c.                | Gloeocantharellus LLO 8: 140      |
| D. cuneifolium l. c.                | G. purpurascens l. c.             |

- Gomphus bonarrii LLO 8: 140; G. floccosus l. c.; G. ochraceus l. c.; G. viridis l. c.
- Hybogaster SYD 17: 12  
H. giganteus l. c.
- Hydropus irroratus, PER 2: 409;  
H. panamensis l. c. p. 413
- Hypsizygus MYC 39: 77  
H. tessulatus l. c. p. 78
- Irrorati (section of Hydropus) PER 2: 410
- Lampteromyces MYC 39: 79  
L. japonicus l. c. p. 80
- Leucocortinarius LLO 8: 141  
L. bulbiger l. c. p. 142  
Macrometrula MYG 40: 264  
M. rubriceps l. c.
- Neopaxillus MYC 40: 262  
N. echinosporus l. c.
- Nothopanus MYC 36: 364  
N. eugrammus l. c. p. 365; N. guadelupensis l. c.; N. vinosofuscus l. c.
- Omphalina brevbisidiata MYC 39: 84; O. postii l. c. p. 83.
- Ochromarasmius (subgen. of Conocybe) MYC 39: 88
- Pachylepyrium SYD 11: 321  
P. carbonicola l. c.; P. fulvidula l. c.
- Pes-caprae (subgen. of Porpoloma) MYC 48: 722
- Phaeogyroporus MYC 36: 360  
P. braunii l. c.; P. tropicus, l. c.
- Physocystidium PER 2: 410  
P. cinnamomeum l. c.
- Pleurocollybia MYC 39: 80  
P. praemultifolia l. c.
- Pleurocybella MYC 39: 81.  
P. porrigens l. c.
- Podabrella LLO 8: 143  
P. microcarpa l. c. p. 144
- Psathyrella subcernua MYC 36: 364
- Pseudoarmillariella MYC 48: 725  
P. ectypoides l. c.
- Pseudoclitocybe MYC 48: 725  
P. cyathi-forlis l. c.
- Pseudohiatulinae (subtrib.) PER 2: 410
- Pseudoomphalina MYC 48: 725.  
P. kalchbrenneri l. c.
- Pyrrhoglossum MYC 36: 367  
P. pyrrhus l. c.
- Rajapa LLO 8: 142.  
R. eurhiza l. c.
- Ripartitella MYC 39: 85
- Ripartites strigiceps MYC 39: 85
- Romagnesia (subgen. of Omphalina) MYC 39: 83.
- Scytinopogon LLO 8: 139.  
S. pallescens l. c.
- Sicci (section of Marasmius) MYC 50: 106.
- Smithiomyces MYC 36: 366  
S. mexicanus l. c.
- Strobilurus PER 2: 409.  
S. conigenoides l. c.; S. esculentus l. c.; S. stephanocystis l. c.; S. tenacellus l. c.
- Tylopilus tabacinus MYC 36: 362
- Weraroa LLO 21: 45  
W. novaezelandiae l. c. p. 46
- Xanthoconium MYC 36: 361.  
X. affine l. c. p. 362; X. stramineum l. c.

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